DEPARTMENT OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
MINISTÈRE DES AFFAIRES INDIENNES ET DU NORD CANADIEN

OIL & MINERAL DIVISION
DIVISION DU PÉTROLE ET DES MINÉRAUX

WELL COMPLETION DATA
RENSEIGNEMENTS SUR LES FORAGES

Drilling Authority No. 635
N° de l'autorisation de forage

Date Issued December 4, 1972
Date de délivrance

To be submitted in duplicate within thirty days after the completion, rework, abandonment, recompletion or suspension of every well.
À présenter en double dans les trente jours suivant l'achèvement, le remaniement, l'abandon et le reconditionnement de chaque puits, ou après suspension.

Well Name & No. *Nom et n° du puits*	Permit No. *N° de permis*	Lease No. *N° de concession*
CanDel et al Texaco Arctic Red F-47		257-67

(Permittee, Licensee, Lessee) *(Détenteur de permis ou de licence, du concessionnaire)*	Exploratory Licence No. *N° de licence de sondage*
Texaco Exploration Canada Ltd.	1467
(Operator) *(Exécutant)*	Exploratory Licence No. *N° de licence de sondage*
CanDel Oil Ltd.	1534

LOCATION *EMPLACEMENT*

Unit – *Unité*	Section	Grid – *Étendue quadrillée*	Latitude	Longitude
F	47	65-40-130-45	65° 36' 25"	130° 53' 53"

Unique Well Identifier – *Code d'ordinateur*: 300F476540130450

Universal Well Location Reference – *Références universelles d'emplacement du puits*: Lat. 65.60694° N Long. 130.89805° W.

	Date	Depth – *Profoneur*
Spudded *Début des travaux*	Dec. 23	41'
Suspended *Suspension des travaux*		
Resumed Operations *Reprise des travaux*		
Finished Drilling *Forage terminé*	Feb. 22	7780'
Deepened *Approfondissement*		
Complete (Gas/Oil) *Achèvement (Gaz/Pétrole)*		
Abandoned *Abandon*	Mch. 7	7780'
Rig Released *Fin des travaux*	Mch. 7	7780'

Pool(s) *Gisement(s)*

Interval(s) Open to Production *Intervalle(s) de production*

Elevation (Gr.) *Altitude du sol* 2580' K.B. *du carré d'entraînement* 2594'

Rig No. *N° de la tour de forage* 9 Drilling Contractor *Entrepreneur en forage* Jennings Intern.

Contractor's Business Licence No. *N° du permis de l'entrepreneur* 10881

CASING RECORD – *TUBAGE*

Casing Size (inches) *Diamètre (en pouces)*	Grade *Qualité*	Weight *Poids*	Amount *Longeur*	Set at – *Fixation à*	Sacks of Cement and Additives *Sacs de ciment + d'additifs*
1. 20"		96#	21'	Washed out	Cemented full length
2. 16"	Shop fabricated		88'	88'	140 sx. + 110 sx.
3. 9-5/8"	J-55	36#	889'	884'	750 sx. + 2% $CaCl_2$ +
4.					+ 1 sx. Cello Flake.
5.					and 100 sx. + 3% $CaCl_2$
6.					down annulus.

Geological Tops *Sommet des formations*	Elevation – *Profondeur* Depths *Sous le niveau du sol*	Sub-Sea *Sous le niveau de la mer*
Bas. Glacial Fill	220'	2374'
Basal Cretaceous Sandstone	7140'	-4546'
Devonian Imperial Shale	7210'	-4616'
Total Depth (log)	7700'	

Core Record – *Carottes*

From – *de*	To – *à*	Rec. *Récupérées*	From – *de*	To – *à*	Rec. *Récup.*
None					

Log Record – *Diagrammes*

Run *Série*	Type of Log *Genre de diagramme*	From – *De*	To – *À*
1	Dual Induction-Laterolog	883	7693
1	Sidewall Neutron Porosity	883	7697
1	Borehole Compensated Sonic	883	7698
1	Formation Density	883	7697

CEMENTING RECORD (Plug, Squeeze, etc.) / CIMENTATION (Bouchon, sous pression, etc.)

Date	From – de	To – à	Remarks – Remarques
Mch. 6	7780	7550	96 sx. + 3% $CaCl_2$. Down 12:05 am. No fee.
Mch. 6	2000	1850	96 sx. + 3% $CaCl_2$. Down 6:50 am. Felt @ 1805'
Mch. 6	933	833	60 sx. + 3% $CaCl_2$. Down 10:45 pm. Felt @ 842'
			5 sx. cement in top surface casing, plate welded on same. Sign erected

PERFORATING RECORD (Bullet, Jet) / PERFORATION (à balles, à jet)

Date	From - de	To - à	Remarks – Remarques

SERVICING RECORD (Acidizing, Fracing, etc.) / ENTRETIEN (acidification, fracturation, etc.)

Date	From - de	To - à	Remarks – Remarques

DRILL STEM TESTS – *ESSAIS AUX TIGES*

No. – N°	Date	Formation	From – de	To - à	V.O. Mins. Vanne ouverte (minutes)	I.S.I. Mins. Première obturation (minutes)	F.S.I. Mins. Obturation définitive (minutes)	I.S.I.B.H.P. Pression de fond à la 1re obturation	F.S.I.B.H.P. Pression de fond à l'obturation définitive	I.F.B.H.P. Pression de fond au jaillissement	F.F.B.H.P. Pression de fond à l'écoulement définitif	L.H.P. Pression hydrostatique de début	F.H.P. Pression hydrostatique définitif	Remarks – Remarques

ANALYSIS – *ANALYSE*

Lab. No. N° de laboratoire	Sample Échantillon	From de	To à	Source	Remarks – Remarques

PRESENT STATUS OF WELL / ETAT ACTUEL DU PUITS

Oil / Pétrole		(Interval) (Intervalle)
Gas / Gaz		(Interval) (Intervalle)
Dry / Sec		
Susp. / Travaux sus.		

Company / Société: CanDel Oil Ltd.

Signed by / Signé par: [signature]

Title / Titre: Vice President, Production

Date: March 29, 1973.

Forms to be prepared in duplicate and forwarded to the District Conservation Engineer.

Présenter les formules remplies à l'ingénieur en conservation du district.

DRILLING AND SERVICE RIG INSPECTION REPORT

Date of Inspection Jan. 15, 1973 (14:00) Date of Last Inspection Nil

Well Name Candel et al Texaco Arctic Red F-47 Location 65° 36' 25" N 130° 53' 53" W.

Operating Company Candel Contractor Jennings Rig No. 9

Operation in Progress Drilling Depth 4195' Projected Total Depth 7500'

Spud Date Dec. 24, 1972 D.A. No. 635

Depth of last casing string 15 3/4 at 881' 9 5/8 at 889'

Toolpush J. Lukusewich Operators Representative D. Haddow (Geologist) Conservation Engineer G.E. Blue J.J. Kirk

Signature ..... Signature ..... Signature

N.B.: See Page 2 - Remarks re items checked as 'Unsatisfactory' or 'No'.

I. GENERAL					
1. D.A. posted	Yes	No			
2. Tour Reports complete, up to date and signed.	Yes	No			
3. Location of wellsite with respect to natural & installed facilities	* S	** US			
4. Sump adequately contained	Yes	No			
5. Housekeeping	S	US			
6. Radio communication in working order.	Yes	No			
7. Camp & kitchen facilities clean and sanitary.	Yes	No			
8. Adequate waste disposal	Yes	No			
9. Deviation surveys every 500' minimum and recorded in tour book	Yes	No			
II. SAFETY					
1. Flare pit and burn pit greater than 150' from wellbore.	Yes	No			
2. Boilers greater than 150' from the wellbore.	Yes	No			
3. Rig lights operating and with protective covers.	Yes	No			
4. Electrical fixtures within 75' of wellbore explosion proof.	Yes	No			
5. Power plant grounded.	Yes	No			
6. Adequate gas masks; Type:	Yes	No			
7. Resuscitator with adequate supply of air.	Yes	No			
8. Minimum of two 20# powder fire extinguishers in doghouse. Near	Yes	No			
9. Minimum of two 5 gal. CO_2 fire extinguishers in each boiler house.	Yes	No			
10. Fire extinguishers in camp.	Yes	No			
11. First aid kits; No.: WCB 200	S	US			
12. Safety goggles	S	US			
13. Stretchers and blankets	Yes	No			
14. All moving parts safely guarded	Yes	No			
15. Necessary guard rails in place	Yes	No			
16. Safety meeting held and recorded in tour book. Held but not recorded	Yes	No			
17. Fuel storage greater than 75' from wellbore.	Yes	No			
18. Every driller has valid first aid certificate.	Yes	No			
19. Air support for medical emergency	Yes	No			
20. Fireproof material in rig shelter	Yes	No			
21. Wiring high enough above ground for clearance.	Yes	No			
22. Hard hats worn on rig or in potentially dangerous areas.	Yes	No			
23. All breathing apparatus tested monthly & recorded in tour book.	Yes	No			
Will be entered in the future.					
III. MUD SYSTEM					
1. Mud tank capacity	S	US			
2. Safety valve on pump discharge line Type:	S	US			
3. Mud weight relative to depth.	S	US			
4. Gas analyzer.	Yes	No			
5. Degasser, if mud tanks in rig shelter	Yes	No			
6. Mud level warning system. Type:	S	US			
7. Condition of Kelly hose.	S	US			
8. Mud mixing platform clean.	Yes	No			
9. Studs and nuts on fluid cylinder head and valve covers.	S	US			
10. Pressure rating of mud discharge line	S	US			
11. Mud gun anchors.	S	US			
IV. ENGINES AND FUEL					
1. Condition of motors	S	US			
2. Engine air inlets greater than 40' from wellbore.	Yes	No			
3. Engine exhausts greater than 40' from wellbore.	Yes	No			
4. Where engine exhausts exceed 400°F., such exhausts less than 75' from wellbore are insulated	Yes	No			
5. Motor safety shut down on floor.	S	US			
6. Condition of fuel lines.	S	US			
7. Shut-offs checked weekly and recorded on tour sheets.	Yes	No			
8. Water connections on engine exhausts working.	Yes	No			
V. FLOOR AND DERRICK					
1. Stabbing valves handy.	Yes	No			
2. Kelly cock operation.	S	US			
3. Emergency alarm.	S	US			
4. Tong lines and tong dies.	S	US			
5. Hoisting line examined weekly and recorded in tour book	Yes	No			
6. Exits from all four sides of rig floor.	Yes	No			

* Satisfactory

** Unsatisfactory

1.	Derrick clear	S	US	12. BOP's tested before drilling out.	
2.	Derrick floor free of junk	Yes	No	13. BOP stack enclosed and heated.	
3.	Derrick floor free of loose board	S	US	14. Manifold outside substructure enclosed and heated.	
4.	Operation of mech. hitch	S	US	15. Flange bolts in place & tightened	
5.	Escape trunk floor chute open	Yes	No	16. High pressure lines, valves, fittings used on BOP's.	Yes
6.	Accumulator valve dumpers	Yes	No	17. Accessibility of control valve handles.	S
7.	Accumulator checked weekly and operated.	Yes	No	18. Control area for manually closing ram type preventer outside substructure.	Yes
				19. High pressure lines, valves, fittings on remote control unit.	Yes
1.	B.O.P. close on ram type preventer	S	US	20. Remote controls for BOP's greater than 75' from wellbore.	Yes
2.	B.O.P. test on rams	S	US		
3.	B.O.P. test on bag type preventer.	S	US	VII. MISCELLANEOUS	
4.	B.O.P. test on pipe rams.	S	US		
5.	B.O.P. test on blind rams.	S	US	1. All light fixtures and wiring in good condition	Yes
6.	Kelly cock to manifold.	Yes	No	2. Light plant adequate for job.	Yes
7.	Drill line tied down.	Yes	No	3. Standby light plant.	Yes
8.	Accumulator hydraulic reservoir	S	US		
9.	Auxiliary pressure source - operation	S	US		
10.	Kelly cock tested	Yes	No		
11.	Crew knowledge of escapes and kicks.	S	US		

* Satisfactory
** Unsatisfactory

ITEMS NOTED AS 'UNSATISFACTORY' OR 'NO':

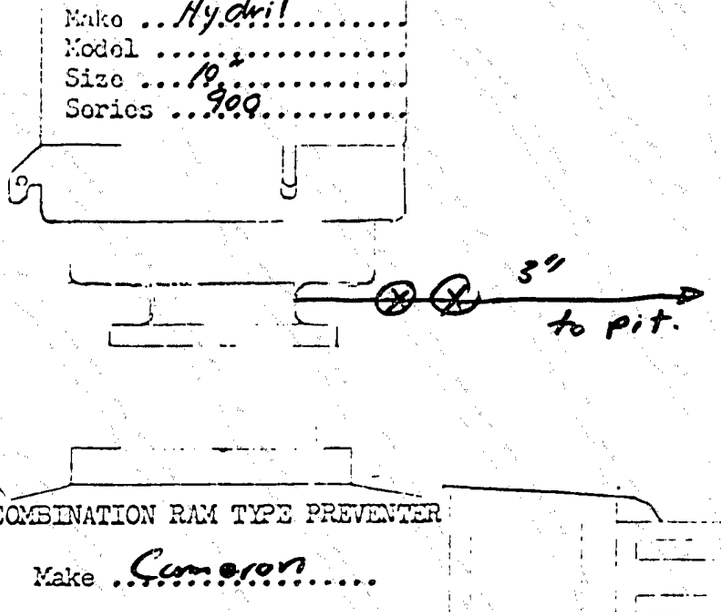
1. Instructed driller to ground light plant
2. Fire extinguishers in boiler houses.
3. Instructed driller to enter safety & BOP drill in book.

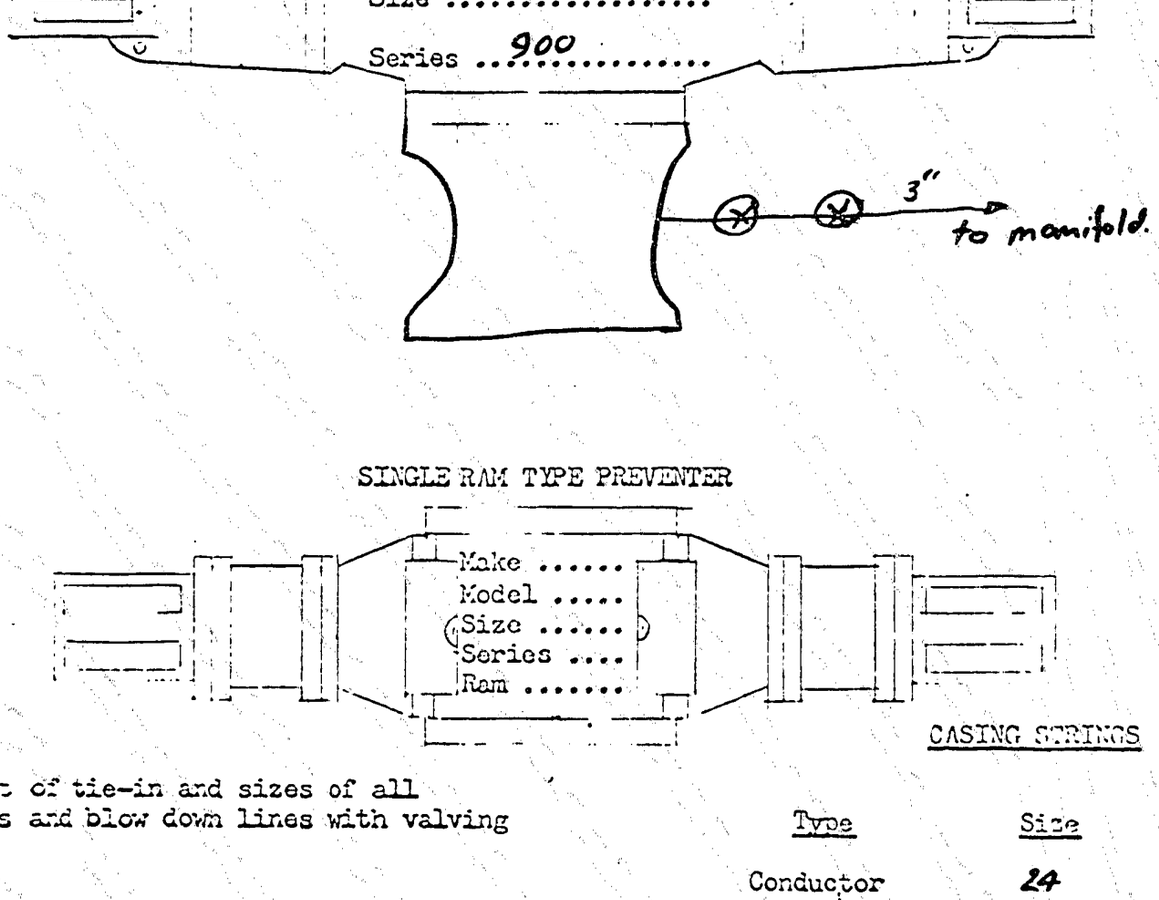
Well: CanDel Artic Red F-47

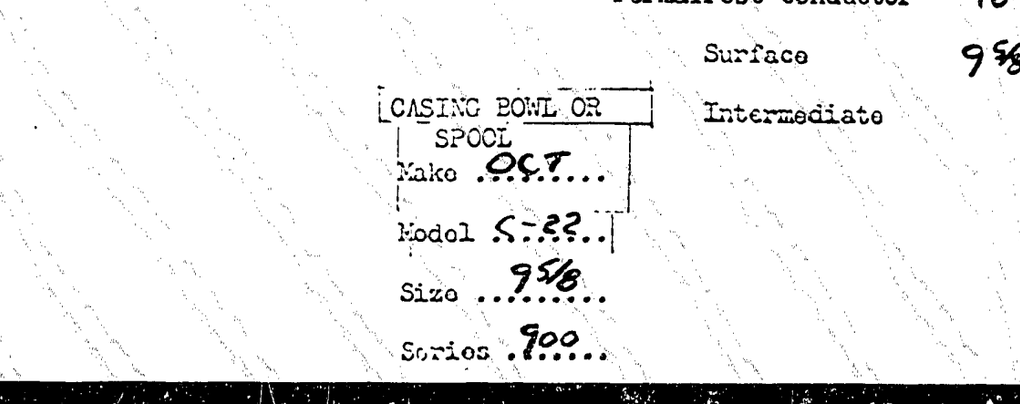
Operator: CanDel

Contractor: Jennings Rig No. 9

Date: January 15, 73







Show point of tie-in and sizes of all Kill lines and blow down lines with valving

CASING STRINGS

Type	Size	Setting Depth
Conductor	24	21
Permafrost Conductor	16	88
Surface	9 5/8	884
Intermediate		

CASING BOWL OR SPOOL
Make OCT
Model S-22
Size 9 5/8
Series 900

BOP MANIFOLD

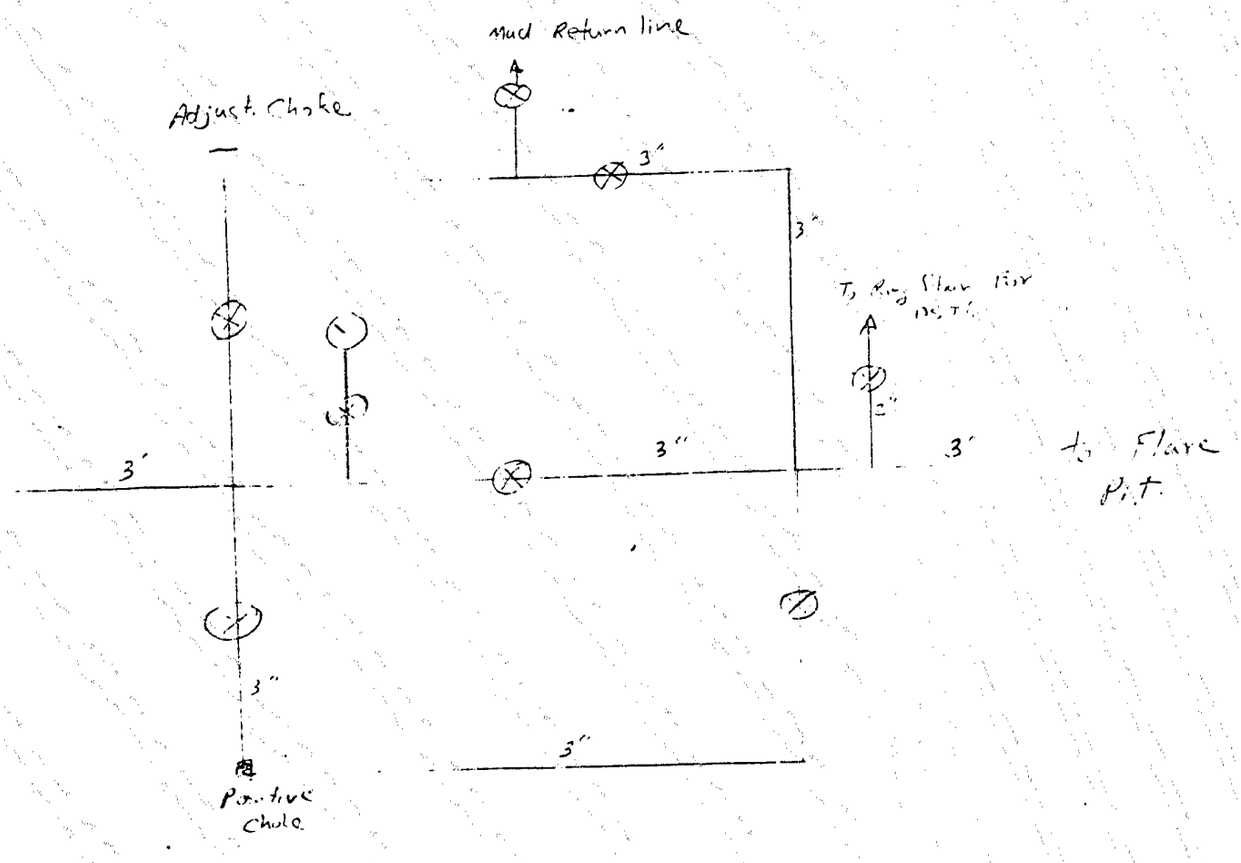
Well: CANDEL et al Artic Red 1-47

Operator: CANDEL

Contractor: Jennings Rig No. 9

Date: January 15, 1973

Draw schematic of BOP manifold showing:
(1) Size of all lines
(2) Size, location and pressure rating of all remote and manual valves chokes, and burst plates.
(3) Termination point of all lines down stream of the manifold.



GEOLOGICAL PROGNOSIS

Well Name CanDel et al Texaco Arctic Red F-47

Location F - 47 - 65° - 40' - 130° - 45'
65°36'25+", 130°53'50+"

Elevations Ground: 2580' (est. SP 4008, Line 36-45)
K. B. : 2594' (Estimated)

Operator CanDel Oil Ltd.

Contractor Jennings International Drilling - Rig # 9

Markers

Formation	Drilling Depth	Subsea Depth
Cretaceous	Near Surface	
Sand # 1	2134	+ 460
Sand # 2	3474	- 880
Sand # 3	4734	- 2140
Sand # 4	5944	- 3350
Upper Devonian Imperial	7074	- 4480
Total Depth	7374	- 4780

Samples

One bag 6" x 12" of washed samples @ 10' intervals from surface to T.D.
Two bags 5" x 7" size of washed samples at 10' intervals from surface to T.D.
Three sets of washed and dried samples in vials at 10' intervals from surface to T.D.

Testing Tests at discretion of Wellsite Geologist.

Coring If water free hydrocarbons are recovered on a test, a core should be cut and further tests run if warranted.

Logging

Dual Induction Laterolog

2" - Total depth to surface casing
5" - Total depth to surface casing.

BHC Sonic Gamma w/ Caliper

2" - Total Depth to surface casing
5" - Total Depth to surface casing

CanDel et al Texaco Arctic Red F-47

Logging
cont'd....

Formation Density

2" - Total depth to surface casing
5" - Total depth to surface casing

Sidewall Neutron Porosity

2" - Total depth to surface casing
5" - Total depth to surface casing

CanDel Oil Ltd.,
28th Floor, One Calgary Place,
330 - 5th Avenue S. W.,
Calgary 1, Alberta. Phone: 265-3430

D. G. H. Ross Home Phone: 281-5219
D. M. Ericson " 252-3277
R. K. Terrell " 289-7652

Dec. 4/72

Drilling Authority No. 635

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

Application for a Drilling Authority

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill:–

Name and number of well ..... Texaco CanDel et al Arctic Red [redacted] F-47

Location: Unit F Section 47 Grid 65-40-130-45

Latitude 65° 36' 25" Longitude 130° 53' 53"

Unique Well Identifier 30CF476540130450

Universal Well Location Reference Lat. 65.60694° N. Long. 130.89805° W.

Elevation: Ground 2580' K.B. 2594 feet above sea-level.

Well is expected to produce from Cretaceous Sand No. 1, 2, 3 or 4 formation at a depth of about 2134, 3474, 4734, 5944' Expected total final depth Approx. 300' into Upper Dev. Imp. @ 7500'

Area assigned to well .....
(for District Conservation Engineer's use only)

Permit No. ..... Lease No. 257-67 Acreage 9,925

Permittee, licensee, or lessee Texaco Exploration Canada Ltd.

Exploratory Licence No. 1467

Surface owned by Crown or Crown.
(If alienated submit name and address of owner and occupant.)

Petroleum and natural gas rights owned by Crown.

We propose to use the following strings of casing, either cementing or landing them as indicated below:–

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. 20"	96#	H-40 Buttress	New	60'	approx. 60
2. 9-5/8"	36#	K-55	New	800'	425
3.					
4.					
5.					

C.F. ARE 12/11/72

8-3/4" open hole will be drilled to facilitate running up to 7" casing

Expected water, gas, and oil horizons and type of control equipment B.O.P. Equipment & Drilling Fluid - Four Cretaceous Sands

Well will be drilled with Rotary Rig No. 9 by Jennings International Drilling
(Drilling Contractor or company)
Division of PanCana Industries Ltd.

Responsible agent of applicant:– Contractor's Business Licence No. 10881

At well D. R. Nelson At registered office R. K. Terrell

Address Box 54, Norman Wells, N.W.T. Address 330 5th Ave. S.W., Calgary

It is understood that if changes become necessary, notice of the change of plan will be submitted.

Dated at Calgary this 24th day of November 1972.

Signed by [signature] Company CanDel Oil Ltd.

Title Vice President, Production Operator's Licence No. 1534

(For Oil and Mineral Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:

SEE ATTACHED FOR CONDITION OF APPROVAL

Dated December 4, 1972 [signature]
District Conservation Engineer

Forms to be submitted to District Conservation Engineer, Department of Indian Affairs and Northern Development.

IAND 52-90-1 (8-71)

Voir au verso

N° de l'autorisation de forage. . . . . .

CANADA

MINISTÈRE DES AFFAIRES INDIENNES ET DU NORD CANADIEN

DIVISION DU PÉTROLE ET DES MINÉRAUX

Demande d'autorisation de forage

Avant de commencer les travaux, soumettre (en triple exemplaire) et faire approuver le présent avis (indiquant l'intention d'entreprendre des travaux de forage) et, au besoin, un plan d'arpentage reconnu par l'arpenteur général, montrant l'aire de sondage ou l'emplacement du puits.

Conformément au «Règlement sur les terres pétrolifères et gazifères du Canada», nous demandons l'autorisation d'effectuer des travaux de forage.

Nom et n° du puits . . . . . .

Emplacement: Unité . . . . . Section . . . . . Étendue quadrillée . . . . . .
Latitude . . . . . Longitude . . . . . .
Code d'ordinateur . . . . . .
Références universelles d'emplacement du puits . . . . . .

Élévation: du sol . . . . . du carré d'entraînement . . . . . pieds au-dessus du niveau de la mer
Production prévue quand les tiges atteindront la formation . . . . . à une profondeur approximative de . . . . . pieds. Profondeur totale prévue . . . . . .
Superficie assignée au puits . . . . . .

(à l'usage de l'ingénieur en conservation du district)

. . . . . .
N° de permis . . . . . N° de concession . . . . . Superficie . . . . . .
Détenteur de permis ou de licence, ou concessionnaire . . . . . .
N° de permis de prospection . . . . . .
Terres appartenant à la Couronne ou à . . . . . .

(Dans le cas de terres aliénées, donner le nom et l'adresse du propriétaire et de l'occupant)

Détenteur(s) des droits pétroliers et gaziers . . . . . .
Nous prévoyons utiliser les colonnes de tubage suivantes et de les cimenter ou de les sceller, tel qu'il est indiqué ci-dessous: –

Diamètre extérieur (en pouces) de tubages	Poids (liv./pi.)	Qualité	Tubages neufs ou usagés	Profondeur estimative	Sacs de ciment
1.					
2.					
3.					
4.					
5.					

Nappes d'eau, de gaz et de pétrole prévues et genre de matériel anti-éruption . . . . . .
. . . . . .
. . . . . .
. . . . . .
Le puits sera foré à l'aide de la tour rotary n° . . . . . par . . . . . .

(Entrepreneur ou société de forage)

. . . . . .
Agent responsable pour le requérant: N° de permis de l'entrepreneur . . . . . .
Sur le chantier . . . . . Au siège . . . . . .
Adresse . . . . . Adresse . . . . . .
Il est entendu que, dans le cas de modifications indispensables, un avis sera soumis.
Datée – . . . . . le . . . . . 19. . . .
Signé par . . . . . Société . . . . . .
Titre . . . . . N° de licence de sondage de l'exécutant . . . . . .

(À l'usage de la Division du pétrole et des minéraux)

APPROBATION

Demande étudiée et approuvée sous réserve des conditions suivantes:
. . . . . .
. . . . . .
. . . . . .
Date . . . . . 19. . . . . .

Ingénieur en conservation du district

Présenter les formules à l'ingénieur en conservation du district,
Ministère des Affaires indiennes et du Nord canadien.

IAND 52-90-1 (8-71)

See Reverse

CONDITIONS OF APPROVAL FOR DRILLING AUTHORITY NO. 635
FOR CanDel et al Texaco Arctic Red F-47

1. Copies of this Drilling Authority shall be exhibited at the Drilling rig in both the Doghouse and the Drilling Foremans Office between spud and rig release dates.

2. The Company will submit to this Office, on Tuesdays of each week/daily, the latest reports received by radio on the progress of the well.

3. During well drilling and testing operations, every effort shall be made to ensure that drilling fluids, chemicals and waste shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.

4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.

5. Any additional strings of casing must be approved by the District Conservation Engineer prior to running.

6. All significant shows of oil and/or gas are to be reported to the District Conservation Engineer immediately.

7. Should a fatal accident occur, drilling operations are to be suspended and the District Conservation Engineer notified immediately. Permission to resume drilling must be granted by the District Conservation Engineer after a fatalit

8. Forward to this Office two field print copies of all well logs with formation tops marked thereon and three copies of core analysis and fluid analysis as soon as they are available.

9. Formation tops (samples or logs) of the section penetrated each week are to be reported with the weekly drilling reports.

for A.F. Halcrow
District Conservation Engineer
District 2 and 3

GEOLOGICAL PROGNOSIS

Well Name CanDel ~~Mobil~~ et al Arctic Red F-47

Location F - 47 - 65° - 40' - 130° - 45'
65°36'25+", 130°53'50+"

Elevations Ground: 2580' (est. SP 4008, Line 36-45)
K. B. : 2594' (Estimated)

Operator CanDel Oil Ltd.

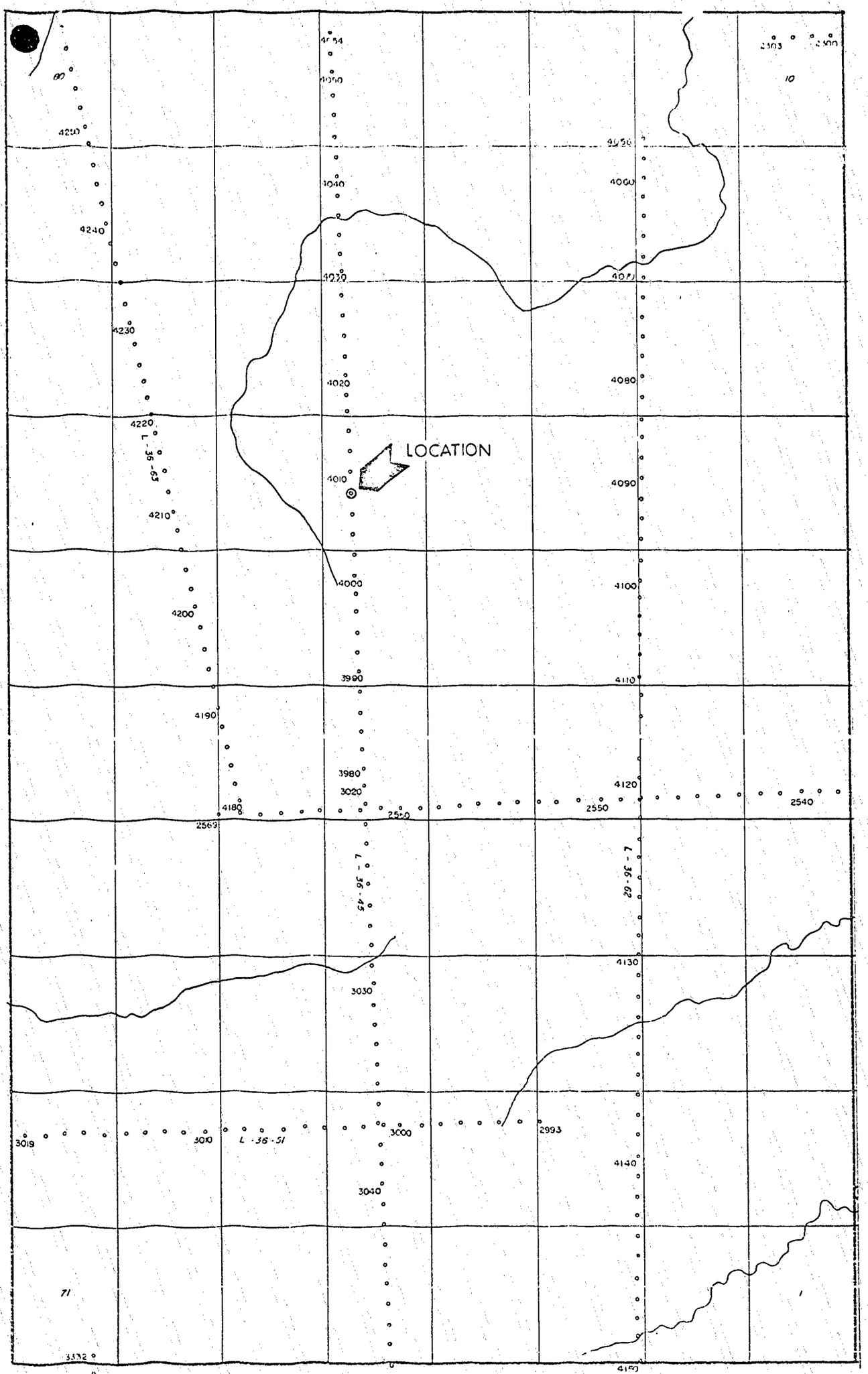
Contractor Jennings International Drilling - Rig # 9

Markers

Formation	Drilling Depth	Subsea Depth
Cretaceous	Near Surface	
Sand # 1	2134	+ 460
Sand # 2	3474	- 880
Sand # 3	4734	- 2140
Sand # 4	5944	- 3350
Upper Devonian Imperial	7074	- 4480
Total Depth	7374	- 4780

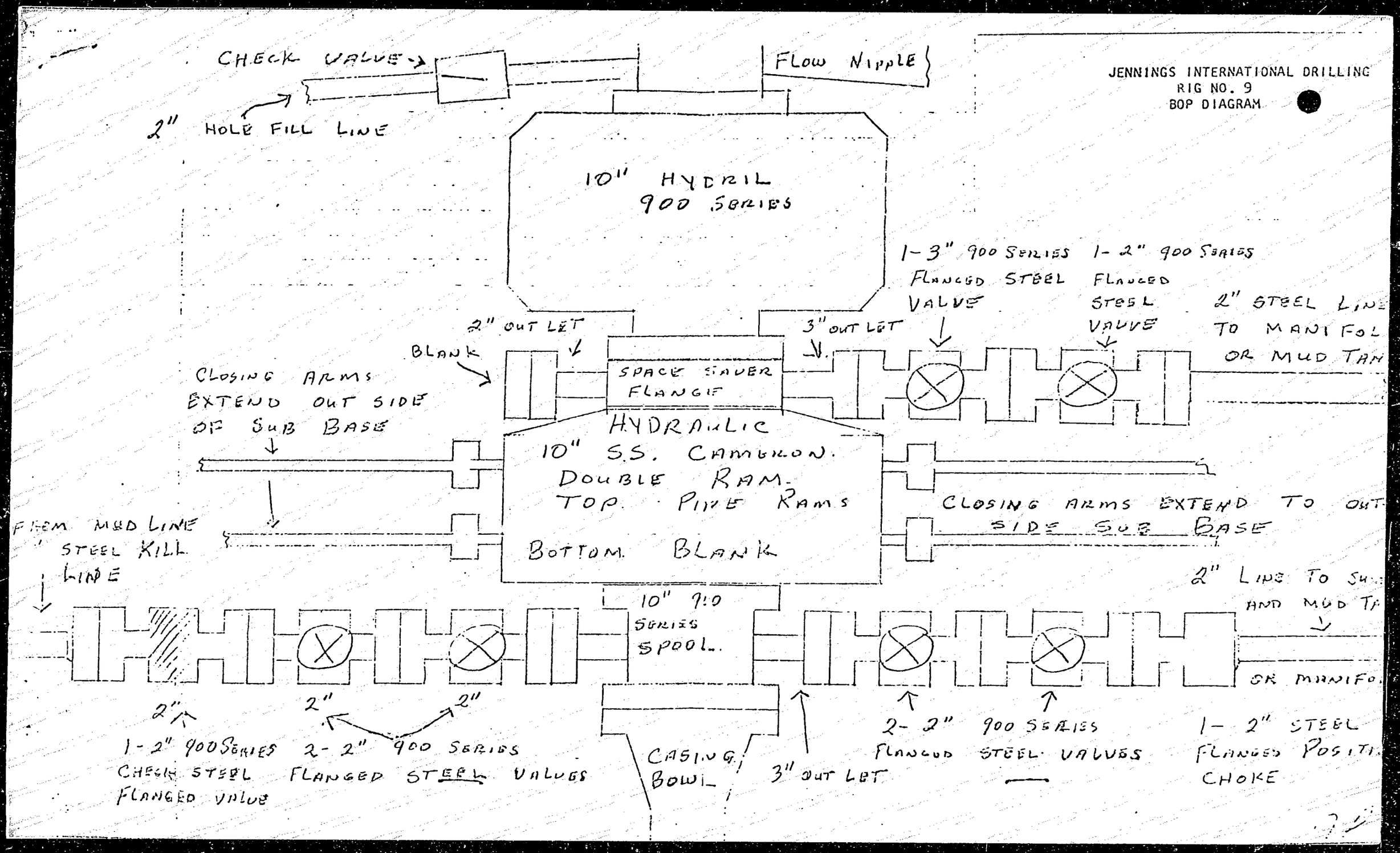
Permafrost - Expect only about 10 to 12 feet of permafrost.

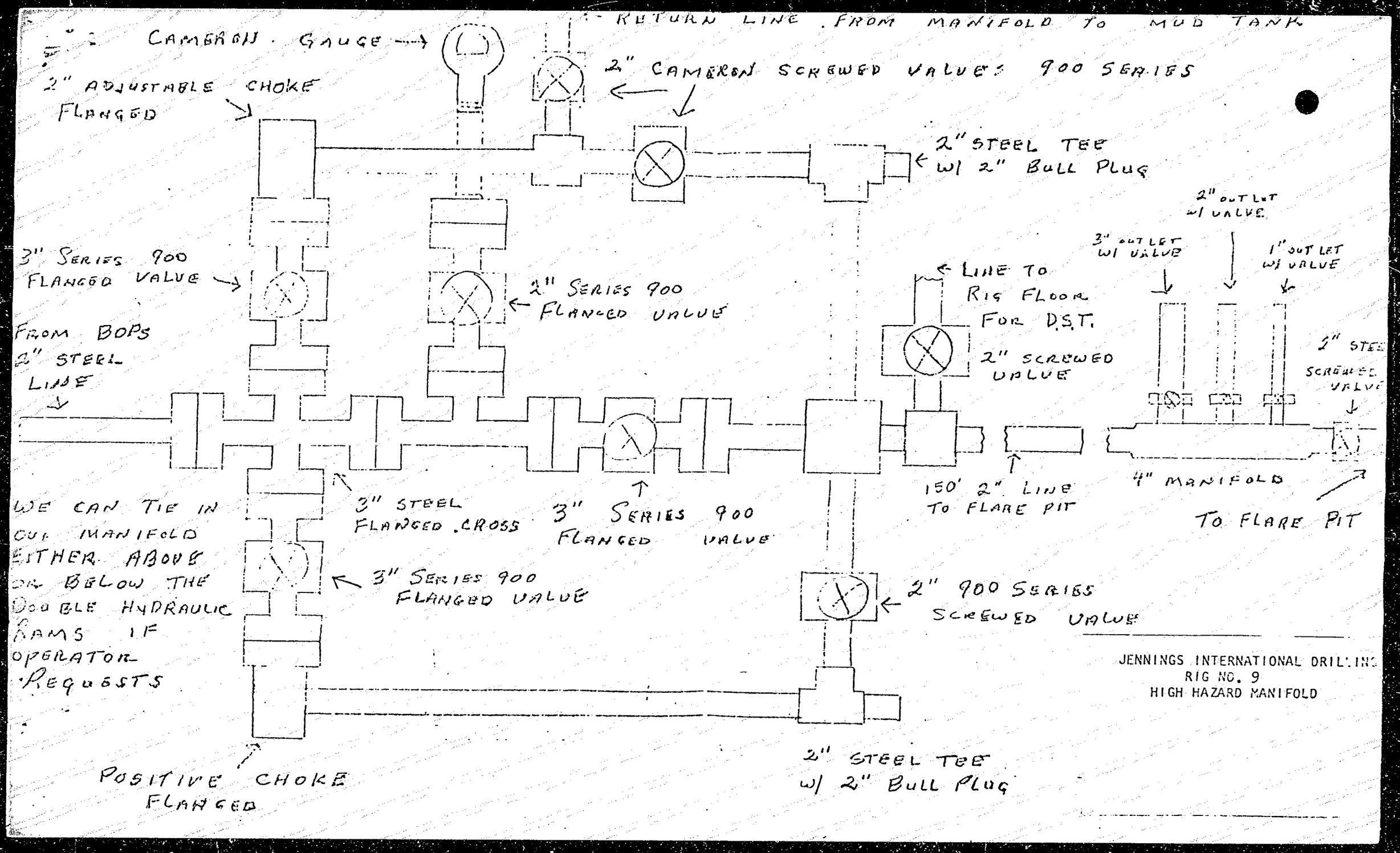
Nov.23/72



CANDEL OIL LTD. CALGARY ALBERTA	REVISED	SEISMIC SHOT-POINT MAP	
INTERPRETATION BY			
DRAWN BY DATE		WELL LOCATION	
CHECKED BY DATE		CANDEL ~~MOBIL~~ TEXACO ET AL Arctic Red F-47	
SCALE MILES 1 0 1			

JENNINGS INTERNATIONAL DRILLING
RIG NO. 9
BOP DIAGRAM





JENNINGS INTERNATIONAL DRILLING
RIG NO. 9
HIGH HAZARD MANIFOLD

CANADA

Drilling Authority No. 635

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
MAR 7 - 1973
YELLOWKNIFE, N.W.T.

Application to Abandon a Well ~~or Suspend Drilling~~

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon, to suspend drilling:—

Name and number of well: CanDel et al Texaco Arctic Red F-47

Location: Unit F Section 47 Grid 65°40' - 130°45'

Latitude 65° 36' 25" Longitude 130° 53' 53"

From Established Reference Marker: Seismic Survey & shot point maps

Universal Well Location Reference: Latitude 65.60694°N; Long. 130.89805°W

Permit No. Lease No. 257-67

Texaco Exploration Canada Ltd. - 1467
(Permittee, Licencee, Lessee)

Date of commencement of proposed program: March 5, 1973

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at: None

Gas at: None

Water at: No D.S.T.'s run - none identifiable

Total Depth: 7780' Date of last operations: March 3, 1973 - logging

Present condition of well: Circulating - full of drilling fluid

CASING RECORD

	Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1.	20"	96#	20'	20' G.L.	Full Length	None
2.	16"	Shop Fab.	88'	88' G.L.	Full length - 250 sx.	None
3.	9-5/8"	36#	889'	884' K.B.	750 sx. Returns -	None
4.					Cement dropped - filled around outside from top	
5.						

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1.	7780-7550'	Basal Cretaceous	96	No Feel
2.	2000-1850'	Upper Cretaceous	96 + 3% $CaCl_2$	Feel
3.	933-833'	In & Out Surface Casing	Est. 66	Feel
4.	Top surface casing		5	

The following logs have been run: Dual-Ind. Laterolog; BHC Sonic Caliper; Density; Sidewall Neutron

Other operations proposed: Weld plate on surface casing and erect specified marker

Operations to be carried out by: Jennings Int. Drilling Contractor Licence No. 10881

Address: Edmonton and Calgary Address:

Responsible Agent in field: D. R. Nelson. Box 54, Norman Wells, N.W.T.

Dated at Calgary, this 6th Day of March 19 73

Signed by: R. K. Terrell Company: CanDel Oil Ltd.

Title: Vice President, Production Operator's Exploratory Licence No. 1534

Note:—The District Conservation Engineer's office must be notified before work is commenced.

(For OIL AND MINERAL DIVISION use only)

APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:

Given Verbal Approval March 5, 1973

Dated March 8, 19 73

J. J. Kids.
District Conservation Engineer

IAND 52-90-5 (7-71)

Forms to be submitted in triplicate to District Conservation Engineer, Department of Indian Affairs and Northern Development.

Voir au verso

CANDEL TEXACO et al ARCTIC RED F-47

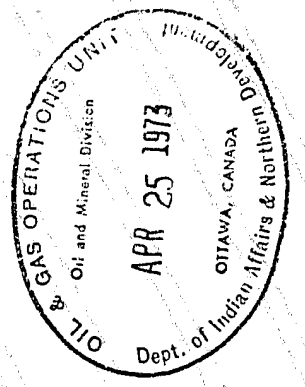
Lat. 65° 36' 25" Long. 130° 53' 53"

Northwest Territories, Canada

T.A.D. Haddow, P.Geol.

821-11-05-017

821-11-05-013



THIS IS A CONCISE REPORT OF THE
OPERATIONS CONDUCTED AT THE WELL

'CANDEL ET AL TEXACO ARCTIC RED F-47'

65°36'25" N Lat.
130°53'-53" W Long.

Data in this report was compiled for
CanDel Oil Ltd., by T. A. D. Haddow, P. Geol.,
Geological Consultant at the well

March 27/73

Deane G. H. Ross
CANDEL OIL LTD.

DRILLING AND COMPLETION REPORT

FOR

CANDEL et al TEXACO ARCTIC RED F-47

PREPARED FOR

CANDEL OIL LTD.

March 20, 1973

Submitted by:

T.A.D. Haddow, P. Geol.

INDEX

Section I -	Summary of Well Data	1
Section II -	Geological Summary	
(a)	Formation Tops	2
(b)	Cored Intervals	2
(c)	Core Descriptions	2
(d)	Sample Descriptions	3 - 15
(e)	Paleontological Determinations	15
Section III -	Engineering Summary	
(a)	Report of Drill Stem Tests	16
(b)	Casing Record	16
	Tubular Tally Report	17
	Casing Report	18
(c)	Bit Record	19
(d)	Daily Mud Record	20 & 21
(e)	Deviation Record	22
(f)	Abandonment Plugs	23
(g)	Lost Circulation Zones	24
(h)	Report of Blowouts	24
Section IV -	Summary of Logs	25

SECTION I

SUMMARY OF WELL DATA

(a) Well Name: CanDel et al Texaco Arctic Red F-47

(b) Permittee: Texaco Exploration Canada Ltd.

(c) Operator: CanDel Oil Ltd.
28th Floor, 330-5th Ave. S.W., Calgary, Alberta

(d) Location: Unit F, Section 47, Grid 65-40-130-45
Latitude 65° 36' 25", Longitude 130° 53' 53"
Universal Well Location Reference
- Lat 65.60694° N Long 130.89805° W
Unique Well Identifier - 300F476540130450

(e) Co-ordinates:

(f) Lease No.: 257-67

(g) Contractor: Jennings International Drilling
Rig #9, GA 500 Emsco

(h) Drilling Authority: 635 December 4, 1972

(i) Lahee Well Classification: Wildcat

(j) Elevations: Ground 2580' K.B. 2594'

(k) Spudded: 4:15 p.m. December 23, 1972

(l) Completed Drilling: February 22, 1973

(m) Total Depth: 7780'

(n) Well Status: Dry & Abandoned

(o) Rig Release Date: 7:00 p.m. March 7, 1973

(p) Hole Sizes: 13 3/4" from surface to 884'
8 3/4" from 884' to 7780'

(q) Casing: Surface - Ran 22 Joints (889') 9-5/8" K-55, 36# Mannesman Csg.
Landed at 884' - cemented w/750 sacks Construction Cement
+ 2% $CaCl_2$ + 1 sack Cello Flake.

Plug down at 6:30 a.m. January 8, 1973.
Put 100 sacks + 3% $CaCl_2$ down annulus.

SECTION II

GEOLOGICAL SUMMARY

(a) Formation Tops

K.B. 2594'

Formation	Sample Depth	E-Log Depth	Subsea
Base Glacial Till/Cretaceous	220'?	--	2374'
Basal Cretaceous Sandstone	7175'	7140'	-4546'
Devonian-Imperial Shale	7255'	7210'	-4616'
Total Depth	7780'	7700'	-5186' (Driller)

(b) Cored Intervals - no cores cut

(c) Core Descriptions - none

(d) SAMPLE DESCRIPTIONS

CanDel et al Texaco Arctic Red F-47
65° 36' 35" N, 130° 53' 53" W.

K.B. 2594'

Interval	Lithology
Surface to 20'	Shale - medium to dark grey - reddish and yellowish in part, fissile to blocky, silty and sandy streaks. Sandstone - reddish and yellowish grey, fine grained, quartzose, kaolinitic, argillaceous, fair to good intergranular porosity; trace of quartzite.
20 - 60	Shale - as above. Sandstone - minor amounts as above.
60 - 170	Samples missing.
170 - 180	Gravel - unconsolidated pebbles of sandstone, granite, limestone and quartzite.
180 - 310	Samples missing.
310 - 330	Shale - medium to dark grey - some red streaks, fissile to blocky, micromicaceous, silty and sandy streaks. Sandstone - reddish and yellowish grey, fine grained quartzose, kaolinitic, argillaceous, fair to good intergranular porosity; sandstone - salt and pepper, fine to medium grained, subangular to angular quartz chert and feldspar grains, slightly siliceous and argillaceous, fair to good intergranular porosity, scattered black rounded chert pebbles.
330 - 340	Samples missing.
340 - 400	Shale - as above. Sandstone - as above, scattered black rounded chert pebbles (quartzite at 390')
400 - 410	Sandstone - dirty brownish grey - black specks, very fine to fine grained, kaolinitic, argillaceous, carbonaceous, poor intergranular porosity.
410 - 430	Sandstone - as above. Shale - medium grey - slightly brownish, blocky, silty and sandy streaks.

Interval	Lithology
430 - 440	Shale - medi to dark grey, fissile, micromicaceous, silty and sandy streaks.
440 - 510	Shale & Sandstone - as above, some scattered pyrite.
510 - 520	Sandstone - salt and pepper, fine grained, kaolinitic, fair intergranular porosity, flecks of carbonaceous material.
520 - 540	Sandstone - salt and pepper - brownish cast, fine grained, kaolinitic, argillaceous, poor intergranular porosity,scattered flecks of carbonaceous material, pyritic in part.
540 - 580	Shale - medium to dark grey, fissile, micromicaceous, carbonaceous flecks, silty and sandy. Sandstone - dirty brownish grey, fine grained, kaolinitic, argillaceous, poor to fair intergranular porosity, scattered carbonaceous flecks.
580 - 610	Sandstone - salt and pepper - slightly brownish, fine to medium grained, kaolinitic, argillaceous, fair intergranular porosity, scattered flecks of carbonaceous material, interbedded shale.
610 - 630	Shale - medium to dark grey, brownish in part, fissile to blocky, very micromicaceous, silty and sandy in part, some scattered carbonaceous material. Sandstone - as above.
630 - 650	Shale - as above - minor interbedded sandstone as above.
650 - 670	Shale - medium to dark grey - slightly brownish in part, fissile, very micromicaceous, scattered silty and sandy streaks.
670 - 720	Shale - medium grey - brownish cast, fissile to blocky, very micromicaceous, silty and sandy, some streaks of bituminous material.
720 - 760	Shale - medium grey - slightly brownish to dark grey, fissile, very micromicaceous, silty and sandy in part, some thin interbedded sandstone - dirty grey - salt and pepper, very fine to fine grained, kaolinitic, argillaceous, fair intergranular porosity.
760 - 780	Shale - as above. Sandstone - light grey - pinkish in part, friable, angular to subrounded quartz, chert and feldspar grains, fine to medium grained, slightly siliceous, kaolinitic and argillaceous, good intergranular porosity.

Interval	Lithology
780 - 790	Shale - medium grey, fissile to blocky, micromicaceous, silty and sandy streaks.
790 - 810	Shale - medium to dark grey, fissile to blocky, very micromicaceous, silty and sandy streaks, rare veinlets of pyrobitumen.
810 - 840	Shale - medium grey - slightly brownish in part, fissile to blocky, very micromicaceous, silty and sandy.
840 - 850	Shale - medium grey, fissile to blocky, very micromicaceous, silty and sandy in part, some scattered pyrite.
850 - 860	Shale - medium to dark grey, fissile to blocky, very micromicaceous, silty and sandy.
860 - 900	Shale - medium grey as above.
900 - 910	Shale - as above.
910 - 930	Shale - medium to dark grey, fissile to blocky, very micromicaceous, silty and sandy, some scattered pyrite.
930 - 940	Shale - dark grey, fissile, very micromicaceous, slightly bituminous, some silty and sandy streaks, some scattered pyrite.
940 - 1140	Shale - medium to dark grey - brownish in part, fissile, silty and sandy, trace of scattered pyrite.
1140 - 1170	Shale - as above - some thin coaly streaks.
1170 - 1180	Cavings.
1180 - 1200	Shale - medium grey, fissile to blocky, micromicaceous, silty and sandy.
1200 - 1300	Shale - medium to dark grey as above.
1300 - 1340	Shale - medium to dark grey - slightly brownish in part, fissile, very micromicaceous, slightly bituminous, silty and sandy.
1340 - 1360	Shale - as above - thin streaks of sandstone - grey, fine to medium grained, angular to subangular chert and quartz grains, kaolinitic, tight.
1360 - 1460	Shale - dark grey, fissile, very micromicaceous, slightly bituminous, silty and sandy.
1460 - 1490	Shale - medium to dark grey - slightly brownish in part, as above.
1490 - 1500	Shale - as above. Sandstone - very light brownish grey, very fine to fine grained, quartzose, subrounded, very friable, kaolinitic, good intergranular porosity.

Interval	Lithology
1500 - 1510	Shale - as above.
1510 - 1530	Shale - as above - stringers of very friable sandstone as above.
1530 - 1540	Shale - as above. Sandstone - very friable as above.
1540 - 1550	Shale - as above - stringers of very friable sandstone as above.
1550 - 1580	Shale - as above Sandstone - very friable as above.
1580 - 1680	Shale - medium to dark grey - brownish in part, fissile, micromicaceous, bituminous, silty and sandy.
1680 - 1690	Shale - as above. Sandstone - light brownish grey, very fine to fine grained, quartzose, subrounded, very friable, kaolinitic, good intergranular porosity.
1690 - 1750	Shale - as above.
1750 - 1830	Shale - as above, stringers of very friable sandstone as above.
1830 - 1890	Shale - as above.
1890 - 1910	Shale - as above. Sandstone - light brownish grey - black specks of chert, very fine to fine grained, quartzose, well sorted, subrounded, kaolinitic, slightly siliceous, fair to good intergranular porosity, slightly glauconitic.
1910 - 1950	Sandstone - light brownish grey, fine grained, quartzose, well sorted, friable, subrounded to subangular, kaolinitic, fair to good intergranular porosity.
1950 - 1970	Shale - medium to dark grey - brownish in part, fissile, micromicaceous, slightly bituminous, silty and sandy streaks.
1970 - 1980	Sandstone - light brownish grey, very fine to fine grained, quartzose, well sorted, subangular to subrounded, siliceous, kaolinitic, poor intergranular porosity.
1980 - 2010	Shale - as above - abundant sandy streaks.
2010 - 2230	Shale - medium to dark grey - brownish in part, fissile, micromicaceous, silty and sandy, slightly bituminous.
2230 - 2240	Shale - as above - trace of scattered pyrite.

Interval	Lithology
2240 - 3020	Shale - medium to dark grey - brownish in part, fissile, micromicaceous, bituminous, silty, some scattered sandy streaks.
3020 - 3300	Shale - as above - scattered pyrite.
3300 - 3310	Shale - as above - some reddish streaks.
3310 - 3480	Shale - medium to dark grey, fissile, micromicaceous, silty streaks, some scattered sandy streaks, slightly bituminous.
3480 - 3580	Shale - as above - slight increase in sandy streaks.
3580 - 3590	Shale - medium to dark grey, slightly brownish in part, fissile, micromicaceous, bituminous, silty and sandy streaks.
3590 - 3740	Shale - as above - thin interbeds of sandstone - dirty grey, very fine to fine grained, siliceous, argillaceous, kaolinitic in part, tight, micaceous in part.
3740 - 4240	Shale - dark grey - medium brownish grey in part, fissile, micromicaceous, bituminous, silty and sandy streaks.
4240 - 4290	Shale - as above some thin streaks of dolomitic mudstone, silty streaks, some scattered sandy streaks.
4290 - 4360	Shale - medium to dark grey, fissile, micromicaceous, bituminous in part, silty streaks, some scattered sandy streaks, some pyrite.
4360 - 4590	Shale - medium to dark grey, fissile, micromicaceous, bituminous in part, silty streaks, trace of scattered pyrite.
4590 - 4610	Samples missing.
4610 - 4630	Shale - medium to dark grey, fissile, micromicaceous, bituminous, silty streaks, some pyritized plant spores (minute gas bubbles from the fresh wet samples).
4630 - 4730	Shale - medium to dark grey, fissile, micromicaceous, silty and sandy streaks, bituminous in part, pyritized plant spores.
4730 - 4750	Shale - medium to dark grey, fissile, micromicaceous, bituminous in part, silty and sandy streaks, trace of scattered small fractures filled with gypsum, some pyritized plant spores.
4750 - 4770	Shale - medium grey - some dark streaks, fissile, micromicaceous, some silty and sandy streaks, some scattered pyrite.
4770 - 4780	Shale - medium to dark grey and black, splintery, micromicaceous, bituminous, some scattered silty and sandy streaks, some scattered pyrite.

4780 - 4830	Shale - medium to dark grey, fissile, micromicaceous, bituminous in part, few scattered silty and sandy streaks.
4830 - 4840	Shale - as above, trace of coal, some silty and sandy streaks, some scattered pyrite.
4840 - 4930	Shale - as above, some scattered sitly and sandy streaks.
4930 - 4950	Shale - medium to dark grey, fissile, micromicaceous, bituminous in part, few scattered silty and sandy streaks, trace of fine fractures filled with calcite, trace of loose quartz crystals.
4950 - 4980	Shale - as above, few scattered silty and sandy streaks, trace of fractures, trace of thin streaks of black brittle coal at the top.
4980 - 5000	Shale - as above, sandy streaks and scattered silty streaks.
5000 - 5200	Shale - medium grey - some dark streaks, fissile, micromicaceous, slightly bituminous in part, few scattered silty streaks, rare sandy streaks.
5200 - 5230	Shale - medium grey, fissile, micromicaceous, some scattered streaks of calcite - parallel to the bedding planes (inoceramus).
5230 - 5300	Shale - medium to dark grey, fissile, micromicaceous, slightly bituminous in part, streaks of calcite (inoceramus).
5300 - 5490	Shale - as above, trace of plant spores and plant remains, few scattered silty streaks.
5490 - 5540	Shale - dark and some medium grey, fissile, micromicaceous, slightly bituminous, few scattered silty streaks.
5540 - 5550	Shale - medium to dark grey, fissile, micromicaceous, scattered thin streaks of calcite along the bedding planes, (inoceramus) some scattered silty streaks, slightly bituminous in part.
5550 - 5610	Shale - medium to cark grey, fissile, micromicaceous, slightly bituminous in part, trace of pyrite.
5610 - 5670	Shale - as above, some thin streaks of gypsum along bedding planes, trace of medium to dark greyish brown ironstone - scattered fine fractures filled with crystalline dolomite.
5670 - 5690	Shale - as above, some fragments of dull brownish grey ironstone with quartz crystals and dolomite crystals infilling fine fractures some pyrite.
5690 - 5700	Shale - as above - some framents of dark brownish grey ironstone, trace of pyrite, trace of greyish green waxy shale - slightly sandy in part.

5700 - 5730	Shale - medium to dark grey, fissile to blocky, micromicaceous, slightly bituminous in part, some scattered silty streaks, some ironstone with fine fractures infilled with calcite, some scattered pyrite.
5730 - 5790	Shale - as above, pyritic in part, some interbedded ironstone with fine fractures filled with calcite, rare streaks of greenish grey bentonitic shale.
5790 - 5920	Shale - medium to dark grey, fissile, micromicaceous, slightly bituminous, some scattered pyrite, few scattered fragments of brown ironstone, some calcite infilling fractures, few dolomitic streaks, trace of greyish green waxy shale at 5850'.
5920 - 5950	Shale - medium to dark grey, fissile, distorted in part, micromicaceous, slightly bituminous, some scattered pyrite, some scattered thin streaks of calcite, few scattered dolomitic streaks.
5950 - 6030	Shale - medium to dark grey, fissile, micromicaceous, slightly bituminous, some scattered pyrite, trace of bentonite streaks, irregular fractures filled with calcite, few scattered dolomitic streaks.
6030 - 6200	Shale - medium to dark grey, fissile, micromicaceous, slightly bituminous, some scattered pyrite, some scattered silty and sandy streaks, some scattered fragments of ironstone. Trace of greyish green flakey shale at the base, trace of dolomitic streaks.
6200 - 6290	Shale - medium to dark grey, fissile, micromicaceous, some scattered silty streaks, some scattered thin streaks of dark brownish grey dolomite - very fine crystalline, silty and argillaceous, some quartz crystals along the contact planes, some scattered pyrite.
6290 - 6320	Shale - as above, some fragments of ironstone - some fractures filled with calcite - rare quartz crystals, trace of brownish, salt and pepper, very fine grained siliceous sandstone - fair intergranular porosity (too thin to be effective), rare pyritized crinoid stems.
6320 - 6360	Shale - medium to dark grey, fissile, micromicaceous, few scattered silty and sandy streaks, some fragments of ironstone, some scattered pyrite, rare crinoid stems, some dark brownish grey dolomitic streaks, scattered irregular fractures filled with calcite, or dolomite or pyrite, trace of quartz crystals along fractures.
6360 - 6390	Shale - medium to dark grey, scattered silty streaks, few scattered fragments of ironstone, trace of quartz crystals.

6390 - 6420	Shale - medium to dark grey, fissile, micromicaceous.
6420 - 6440	Shale - medium to dark grey, fissile, some scattered silty and sandy streaks, trace of greyish brown ironstone - some scattered fractures filled with calcite - pyritic in part, some dolomitic streaks.
6440 - 6480	Shale - as above, some ironstone as above, some thin interbeds of dolomite - medium to dark brownish grey, cryptocrystalline to microcrystalline, bituminous, dense, scattered fractures infilled with calcite, dolomite and anhydrite, and gypsum, trace of quartz crystals at 6480'.
6480 - 6550	Shale - medium to dark grey, fissile to blocky, micromicaceous, dolomitic streaks, some scattered fragments of ironstone, some scattered fractures infilled with gypsum and some dolomite and calcite.
6550 - 6570	Shale - as above, some thin interbeds of medium dark brownish grey, microcrystalline dense dolomite. Some streaks of dirty, fine grained sandstone.
6570 - 6590	Shale - as above - trace of quartz crystals.
6590 - 6600	Shale - as above, some interbedded greyish brown ironstone - very fractured and infilled with quartz crystals, some gypsum infilling, fine irregular fractures, fair fracture porosity.
6600 - 6620	Shale - as above, irregular fractures filled with gypsum.
6620 - 6640	Shale - as above, trace of medium dark brownish grey, microcrystalline dolomite and greyish brown siliceous ironstone, scattered fractures infilled with dolomite, calcite, gypsum, and quartz crystals.
6640 - 6650	Shale - as above, some streaks of calcite.
6650 - 6700	Shale - as above, trace of ironstone - fractures infilled with calcite and gypsum, trace of dirty very fine to fine grained sandstone - argillaceous, siliceous, slightly bentonitic, slight intergranular porosity, few scattered silty streaks.
6700 - 6730	Shale - medium to dark grey, fissile to blocky, micromicaceous, slightly dolomitic in part, trace of ironstone, few scattered silty streaks, trace of siliceous streaks.
6730 - 6750	Shale - medium grey - some dark streaks,splintery, micromicaceous.
6750 - 6780	Shale - medium to dark grey, fissile, micromicaceous, some greyish brown to medium dark greyish brown ironstone, scattered fractures infilled with black dolomite and calcite, some medium to dark brownish grey microcrystalline dolomite, rare streaks of greyish green smooth shale.

6780 - 6810	Shale - as above, trace of dirty very fine to fine grained sandstone - argillaceous, siliceous, poor intergranular porosity.
6810 - 6820	Shale - as above, trace of greyish brown ironstone, and dark brownish grey microcrystalline dolomite, scattered fractures filled with calcite and dolomite, some silty streaks.
6820 - 6830	Shale - as above, some dolomite as above, few stringers of sandstone - dirty grey very fine to fine grained, argillaceous, siliceous, fair intergranular porosity.
6830 - 6850	Shale - medium grey, fissile to blocky, few fragments of brown siliceous ironstone, trace of gypsum, some dirty grey sandstone as above.
6850 - 6880	Shale - medium grey, fissile to blocky, micromicaceous, some silty streaks, some siliceous streaks, trace of black chert, streaks of pyrite.
6880 - 6910	Shale - as above, trace of pellets, trace of streaks of gypsum.
6910 - 6930	Shale - medium to dark grey, fissile - splintery in part, micromicaceous, bituminous in part, a few fragments of greyish brown ironstone and dark brownish grey, microcrystalline dolomite, some fractures infilled with dolomite and calcite.
6930 - 6950	Shale - medium to dark grey, fissile to blocky, micromicaceous, slightly bituminous in part, few fragments of medium to dark brownish grey microcrystalline dolomite - siliceous in part, trace of ironstone, scattered fractures, trace of crinoid stems.
6950 - 6960	Shale - medium grey, blocky some fissile, micromicaceous, few silty streaks.
6960 - 6980	Shale - as above, trace of calcite and gypsum streaks, few ironstone fragments - fractures infilled with dolomite and calcite, some silty streaks.
6980 - 7010	Shale - medium grey, fissile to blocky, micromicaceous, few scattered silty streaks - calcite streaks and gypsum streaks.
7010 - 7020	Shale - medium grey - some dark streaks, fissile - splintery in part, micromicaceous, few scattered silty streaks and calcite streaks, some scattered pyrite, rare pellets pyritized.
7020 - 7060	Shale - medium to dark grey, fissile to blocky, micromicaceous, some scattered pyrite, trace of crinoids, few silty streaks.
7060 - 7080	Shale - as above, some streaks of sandstone - dirty grey, very fine to fine grained, argillaceous, siliceous, glauconitic, streaky, slight to poor intergranular porosity, scattered silty streaks.

7080 - 7140 — Shale - medium to dark grey, fissile, micromicaceous, some scattered silty and sandy streaks, slightly pyritic in part.

7140 - 7150 — Shale - as above - somewhat sandier, trace of floating quartz grains.

7150 - 7160 — Shale - as above
Sandstone - streaks and thin interbeds, dirty brownish grey, very fine grained, silty, argillaceous, siliceous, slightly dolomitic, tight, trace of crinoid stems, some scattered pyrite.

7160 - 7170 — Shale - as above with streaks of sandstone as above.

7170 - 7180 — Shale - as above.
Sandstone - glassy, hard, fine to coarse grained, quartzose, poorly sorted, angular to rounded, siliceous, argillaceous at the top, poor intergranular porosity, rare black angular chert grains and shale fragments, few scattered glauconite granules. No stain or fluorescence.

7180 - 7190 — Sandstone - as above, few grey argillaceous streaks, poor to fair intergranular porosity, rare subrounded to rounded chert grains, trace of black siliceous shale streaks, some streaks of kaolin.

7190 - 7200 — Sandstone - light grey to glassy, hard, fine to coarse grained, quartzose, poorly sorted, angular to rounded, siliceous, argillaceous in part, fair to good intergranular porosity, trace of chert grains and glauconite.

7200 - 7210 — Sandstone - light grey, friable in part, very fine to medium grained, quartzose, medium well sorted, subangular to rounded, argillaceous, siliceous, fair to good intergranular porosity, trace of glauconite, rare carbonaceous flecks, some streaks of kaolin, partings of black bituminous shale.

7210 - 7220 — Sandstone - medium grey - slightly brownish, very fine to fine grained quartzose, well sorted, subrounded to rounded, argillaceous, silty, siliceous, poor to fair intergranular porosity, partings of black bituminous shale, trace of glauconite, scattered carbonaceous material, slightly pyritic in part.

7220 - 7230 — Sandstone - medium grey, very fine to fine grained, quartzose, very argillaceous, siliceous, pyritic, patches carbonaceous material, poor intergranular porosity, scattered fractures filled with amorphous quartz.
Shale - medium to dark grey, blocky, micromicaceous (poor sample - abundant cavings).

7230 - 7260 — Sandstone - medium to dark grey, very hard, very fine to fine grained, quartzose, very siliceous, argillaceous, patches and laminae of carbonaceous material, tight for the most part - some streaky slight intergranular porosity, interbedded shale.

7260 - 7270	Sandstone - as above; sandstone - slightly salt and pepper - slightly brownish in part, medium hard, very fine to fine grained, quartzose, subrounded to rounded, calcareous, kaolinitic, fair intergranular porosity, pyritic in part. Shale - medium to dark grey, fissile to blocky.
7270 - 7290	Sandstone - grey, friable to medium hard, very fine grained, silty, argillaceous, kaolinitic, poor to fair intergranular porosity. Shale - as above.
7290 - 7330	Sample missing (instead of cleaning to bottom new hole was being made from 7300 to 7330').
7330 - 7340	Shale - medium grey - some dark streaks, fissile to subblocky, micromicaceous, scattered thin interbeds of grey siliceous siltstone - grading in part to a very fine grained sandstone, streaks and thin interbeds of sandstone - grey, very fine grained, argillaceous, siliceous, kaolinitic in part, poor intergranular porosity (too thin to be effective) trace of bedded black chert.
7340 - 7350	Shale - with interbedded siltstone and sandstone as above.
7350 - 7360	Shale - medium to dark grey, fissile, micromicaceous. Sandstone - slightly brownish grey, very fine grained, quartzose, subangular to rounded, calcareous, argillaceous, kaolinitic in part, slight to poor intergranular porosity, trace of spotty oilstain - no fluorescence.
7360 - 7380	Sandstone - grey - slightly brownish in part, very fine grained, quartzose, argillaceous, kaolinitic, slightly calcareous in part, poor intergranular porosity, carbonaceous specks in part, some scattered fractures filled with calcite. Shale - medium grey - some brownish streaks, subfissile, micromicaceous, some silty streaks.
7380 - 7390	Sandstone - 25% as above - scattered fragments of brachiopods. Shale - 75% medium to dark grey, fissile, some silty streaks.
7390 - 7400	Shale - medium to dark grey, fissile, micromicaceous, scattered streaks and thin interbeds of grey siltstone and minor interbeds of sandstone - grey, very fine grained, argillaceous, kaolinitic, calcareous in part, slight to poor intergranular porosity.
7400 - 7420	Shale - medium to dark grey, fissile, micromicaceous. Siltstone - grey and thin interbeds - grey, grading to a very fine grained sandstone in part.
7420 - 7430	Shale - medium grey - few dark streaks, fissile to subblocky, micromicaceous, silty and sandy streaks.

7430 - 7440	Shale - medium to dark grey, fissile, micromicaceous, slightly bituminous in part, silty and sandy streaks, trace of anhydrite streaks.
7440 - 7450	Shale - medium grey to black, fissile, micromicaceous, silty and sandy streaks, scattered fractures infilled with calcite, rare quartz crystals.
7450 - 7480	Shale - medium to dark grey, fissile, micromicaceous, silty and sandy streaks, scattered fractures infilled with calcite.
7480 - 7500	Shale - medium grey - brownish in part, fissile to blocky, micromicaceous, thin irregular streaks of siltstone and very fine grained argillaceous sandstone - some limy streaks, trace of ostracods.
7500 - 7510	Shale - medium to dark grey, fissile, micromicaceous, irregular streaks of siltstone and sandstone - calcareous in part - scattered brachiopods, rare fragments of brownish grey ironstone.
7510 - 7520	Shale - 85% as above. Sandstone - 15% grey, very fine to fine grained, quartzose, argillaceous, kaolinitic, calcareous in part, poor intergranular porosity, trace of glauconite in part.
7520 - 7540	Shale - medium to dark grey, fissile - blocky in part, silty streaks and streaks and thin interbeds of sandstone as above.
7540 - 7560	Shale - 80% medium to dark grey, fissile, micromicaceous, some silty streaks, rare fragments of ironstone. Sandstone - 20% dirty grey, very fine grained, quartzose, argillaceous, kaolinitic, calcareous in part, carbonaceous in part, slight to poor intergranular porosity.
7560 - 7570	Shale - 80% as above. Sandstone - 20% as above - some siliceous streaks, some calcite streaks.
7570 - 7590	Shale - 75% medium to dark grey, fissile, micromicaceous, some silty streaks. Sandstone - 25% dirty grey, very fine grained, quartzose, argillaceous, kaolinitic in part, siliceous in part, slight intergranular porosity, scattered fractures infilled with calcite and in part quartz crystals.
7590 - 7600	Sandstone - dirty grey, very fine grained, quartzose, argillaceous, siliceous, kaolinitic in part, carbonaceous in part, slight to poor intergranular porosity, shaly streaks.
7600 - 7610	Shale - medium to dark grey, fissile, some streaks of sandstone as above, few fine fractures infilled with quartz crystals.

7610 - 7620	Shale - 80% as above. Sandstone - 25% light grey - black specks of carbonaceous material, very fine grained, quartzose, kaolinitic, siliceous, some argillaceous streaks, fair intergranular porosity.
7620 - 7630	Sandstone - 60% as above, trace of quartz crystals. Shale - 40% as above.
7630 - 7640	Sandstone - as above, shaly streaks.
7640 - 7650	Sandstone - 30% as above, rare quartz crystals. Shale - 70% medium to dark grey, fissile to blocky, micromicaceous some silty streaks.
7650 - 7670	Sandstone - 60% as above, few quartz crystals, trace calcite crystals, fair to good intergranular porosity. Shale - 40% as above.
7670 - 7690	Shale - 70% as above. Sandstone - 30% as above - more siliceous and argillaceous, slight to poor intergranular porosity, partings of bituminous shale, few quartz crystals.
7690 - 7700	Sandstone - 50% light to medium dirty grey - brownish in part, very fine to fine grained, quartzose, siliceous, argillaceous in part, kaolinitic in part, specks of carbonaceous material, scattered fractures infilled with quartz crystals, shaly, streaky, slight-intergranular porosity. Shale - 50% medium to dark grey, fissile, micromicaceous, silty streaks.
7700 - 7740	Shale - 75% as above. Sandstone - 25% dirty grey, very fine grained - trace of fine grained quartzose, siliceous, argillaceous, kaolinitic in part, specks of carbonaceous material, few fractures infilled with quartz crystals, shaly, streaky - noneffective intergranular porosity, trace of brown ironstone.
7740 - 7770	Shale - as above - abundant silty and sandy streaks.
7770 - 7780	Shale - as above (abundant cavings)
	F.T.D. 7780'

(e) Paleontological Determinations - none

SECTION III

ENGINEERING SUMMARY

(a) Report of Drill Stem Tests - no tests run

(b) Casing Record : Surface Casing - Ran 22 joints (889') 9-5/8", K-55, 36#, Mannesman Casing. Landed at 884'. Cemented with 750 sacks construction cement plus 2% $CaCl_2$ plus 1 sack Cello Flake. Plug down at 6:30 a.m. January 8, 1973. Put 100 sacks plus 3% $CaCl_2$ down annulus.

TUBULAR TALLY REPORT

Well CanDel et al Texaco Arctic Red F-47

Make Tubular Goods Mannesman Type Seamless

Size 9-5/8" Weight 36# Lbs./ft. Threads Grade K-55 Range 3

Couplings: Type Short Minimum I.D. Maximum O.D. 9-5/8"

Note: The following tally is listed in the same order as the tubular goods were run in the hole. That is joint number one will be the first joint in the hole and continuing in that order until the last joint run.

Jt. No.	feet	10s	Jt. No.	feet	10s	Jt. No.	feet	10s	Jt. No.	feet	10s	Jt. No.	feet	10s
1	39	91	1			1			1			1		
2	33	52	2			2			2			2		
3	43	10	3			3			3			3		
4	40	91	4			4			4			4		
5	42	43	5			5			5			5		
6	29	20	6			6			6			6		
7	42	18	7			7			7			7		
8	41	48	8			8			8			8		
9	40	18	9			9			9			9		
0	40	27	0			0			0			0		
a	393	18	d			g			j			m		
1	33	80	1			1			1			1		
2	43	87	2			2			2			2		
3	43	56	3			3			3			3		
4	39	48	4			4			4			4		
5	43	15	5			5			5			5		
6	40	17	6			6			6			6		
7	39	23	7			7			7			7		
8	42	71	8			8			8			8		
9	41	17	9			9			9			9		
0	40	92	0			0			0			0		
b	408	06	e			h			k			n		
1	41	27	1			1			1			1		
2	43	46	2			2			2			2		
3	float	70	3			3			3			3		
4	shoe	44	4			4			4			4		
5			5			5			5			5		
6			6			6			6			6		
7			7			7			7			7		
8			8			8			8			8		
9			9			9			9			9		
0			0			0			0			0		
c	87	87	f			i			l			o		

TOTALS		
a	393	18
b	408	06
c	87	87
d		
e		
f		
g		
h		
i		
j		
k		
l		
m		
n		
o		
	889	11

FINAL TOTAL

Remarks

Tallied by

CASING REPORT

Well CanDel et al Texaco Arctic Red F-47 Date January 8, 1973

Type of Casing String: (surface) (intermediate) (production) (liner) (other)

Drilling Contractor Jennings Rig #9

PIPE DATA

Make of Casing Mannesman

Type: (seamless) (welded) Size Seamless No. of Joints 22

Weight 36 Grade K-55 Range 3 Threads

Couplings: (short) (long) Minimum I.D. Maximum O.D. 9-5/8"

Casing Shoe: make Davis Lynch type depth 884 ft.

Cementing Collar: make Davis Lynch type depth ft.

Centralizers: No. 2 Make and Type Davis Lynch

Depths On first and third joints

Scratchers: No. None Make and Type

Depths

Welding: (electric) (acetylene) No. of Collars? First Joint Casing Shoe? - Yes

Total amount casing run	889 ft.	Kelly Bushing elevation	ft.
Amount pipe above K.B.	5.11' ft.	K.B. to Rotary Table	ft.
Depth Casing Shoe landed	884 ft.	R.T. to Derrick Floor	ft.
Top of casing below K.B.	14.20 ft.	D.F. to Ground Level	ft.
Amount of casing in hole	869.80 ft.	Ground Level elevation	ft.
Length of Landing Joint	ft.	G.L. to (casing bowl) to (casing collar)	ft.
Length of Cut off Joint	ft.	Csg. Bowl Flange Elev.	ft.
Length of Shoe Joint overall	ft.	K.B. to top of casing bowl 13.35	ft.

CEMENTING DATA

Time Hole Open Before Casing Started in Hole 2 3/4 hrs.

Casing Started in Hole	12:00 A.M.	Casing in	3:15 A.M. (elapsed) hrs.
Circulating: Started	3:15 A.M.	Finished	5:00 A.M. (elapsed) hrs.
Mixing Cement: Started	5:05 A.M.	Finished	6:10 A.M. (elapsed) min.
Displacing: Started	6:10 A.M.	Plug Down	6:30 A.M. (elapsed) min.

Maximum Displacement Pressure 800 psi. Final Pressure 800 psi.

Plug Displaced to 844' K.B. ft. Displacement Fluid: (mud) (water) (other)

Method of Displacement pumped down plug

Method of Cementing pumped down

Amount Cement Used 750 Sacks. Average Cement Slurry Weight 14.7 lbs./gal.

Kind of Cement: (Canadian) (American) (bulk) (sack): Weight per sack construction lbs.

Estimated Amount Cement Returns 5 bbls. sacks. Time Cement to Set 39 hrs.

Was Pipe Worked During Circulating? no Cementing? yes How Long

Additives to Cement 2% CaCl2 + 1 sack Cello Flake

Cementing Company Halliburton Operator D. Pavka

Casing Landed in hrs. Well Head Make

Remarks Lost returns - waited 5 hours - pumped 100 sacks down annulus - good returns.

Signed

(c) BIT RECORD

CanDel et al Texaco Arctic Red F-47

No.	Size	Type	Depth In	Depth Out	Footage	Hours	Condition
1A	8 3/4	XIG	0	286'	286'	24	7-4-0
2A	8 3/4	XV	286'	407'	111'	8-1/2	4-1-1
3A	13 3/4	Reamer Tri-Cone	0	90'	90'	3	1-1-1
4A	17	" "	0	90'	201'	4-1/2	1-1-1
5A	8 3/4	XDV	407'	766'	359'	16-1/2	3-1-1
RR3A	13 3/4	Reamer Tri-Cone	0	291'	291'	24	2-2-1
RR5A	8 3/4	XDV	766'	900'	134'	11-1/2	5-1-1
RR3A	13 3/4	Reamer Tri-Cone	291'	435'	144'	42-1/4	6-1-1
6A	13 3/4	" "	435'	884'	449'	65	5-1-1
1	8 3/4	X3A	900'	1761'	861'	28-1/2	7-1-1
2	8 3/4	XIG	1761'	1941'	180'	8	4-1-1
3	8 3/4	J33	1941'	4617'	2676'	94-1/2	1-1-1
RR2	8 3/4	XIG	Clean out sloughing hole			69	7-1-1
4	8 3/4	XIG	" " " "			15 1/4	2-1-1
RR3	8 3/4	J33	4617'	5708'	1091'	92-1/2	1-1-1
5	8 3/4	J33	Clean out sloughing hole				
6	8 3/4	XIG	" " " "				
RR5	8 3/4	J33	5708'	7225'	1517'	209-3/4	7-1-1
7	8 3/4	XDV	7225'	7300'	75'	27-1/2	7-1-1
8	8 3/4	J33	7300'	7780'	480'	108-1/4	6-1-2
9	8 3/4	J44	Clean out sloughing hole				
10	8 3/4	XIG	Clean out sloughing hole				
11	8 3/4	XDV	Ream and clean out hole				
RR10	8 3/4	XIG	Clean out sloughing hole				
12	8 3/4	J44	Clean out sloughing hole				

(d)

DAILY MUD RECORD

Date	Depth	Weight	Viscosity	Water Loss	Filter Cake	Ph.	Remarks and Additives								
		#/ Gal.	Seconds	15 min. C.C.	32nds		Gel	Caustic	Lime	Saw Dust	Benex	$CaCl_2$	CMC	Peltex	Misc. & Remarks
Dec 24	41'	9.2	44				2800	50							
25	229'	9.8	47				4300	100	50						
26	286'	9.8	65				600								
27	293'	9.8	65				4200	100	50	42 sx					
28	352'	8.6	60				10,300			112 sx					
29	407'	8.8	65				6,500			10 sx					
30	407'	8.7	67												
31	517'	8.7	48				11,000			98 sx					20 sx Fibre Seal
Jan 1/73	517'	8.8	100				12,100			189 sx					47 sx Fibre Seal
2/73	766'	8.5	75				21,900			187 sx					10 sx Fibre Seal 35 sx Kwik Seal 16 sx Cello Seal
3/73	766'	8.9	120				15,400			119 sx					37 sx Kwik Seal
4/73	900'	9.2	75				13,300			63 sx					29 sx Kwik Seal
5/73	900'	9.0	85				6,400			6 sx					10 sx Kwik Seal 3 sx Fibre Seal Reaming
6/73	900'	9.2	90				2,400			14 sx					4 sx Fibre Seal
7/73	900'	9.1	110				7,100			38 sx					24 sx Kwik Seal
8/73	900'	9.2	112				3,900			35 sx					8 sx Kwik Seal
9/73	900'														W.O.C.
10/73	1188'	8.4	28			8.5	5,700				48				W.O.C.
11/73	1761'	8.4	28						50		9	480			
12/73	2220'	8.4	28			12.0			250		14	480			
13/73	3025'	8.4	28			12.0			300		18	400			
14/73	3650'	8.4	28			11.5	1,000		50		14				
15/73	4082'	8.4	28			11.5			50		10	80			
16/73	4586'	8.4	28			11.5	8,500		150		6				300# soda ash
17/73	4617'	8.7	40			10.0	6,500				2				500# soda ash
18/73	4617'	8.8	65	8.2	2	10.5	3,000	50						100	
19/73	4617'	9.2	62	7.8	2	10.0	8,200								
20/73	4617'	9.3	90	8.6	2	9.5	2,700								
21/73	4617'	9.4	65	6.1	2	9.5	6,100								1,000 Poly Plastic
22/73	4617'	9.4	295	6.2	2	9.0	2,100								
23/73	4617'	9.7	350	6.0	2	9.0	1,600								500 Poly Plastic
24/73	4617'	9.9	400+	5.8	2	8.0	2,400								
25/73	4617'	9.9	400+	5.4	2	8.5									
26/73	4660'	9.7	400+	5.6	2	8.0	7,500	50						200	500 Poly Plastic
27/73	4900'	9.9	365	5.8	2	8.0	2,400	50						100	
28/73	5155'	9.8	350	4.6	2	8.5	6,200			10 sx				100	
29/73	5450'	9.7	300	5.0	2	8.0	3,700	50						100	
30/73	5708'	9.7	250	5.2	2	8.0	4,700	100						50	
31/73	5708'	9.7	325	5.8	2	9.0	4,200								

(d)

DAILY MUD RECORD

Date	Depth	Weight	Viscosity	Water Loss	Filter Cake	Ph.	Remarks and Additives						
		#/ Gal.	Seconds	15 min. C.C.	32nds		Gel	Cautic Lime	Saw Dust	Benex	$CaCl_2$	CMC	Peltex	Misc. & Remarks
Feb. 1/73	5708'	9.7	400	5.8	2	8.5	2900	50					50	
2/73	5708'	9.6	270	5.2	2	9.0								700 Poly Plastic
3/73	5708'	9.6	260	4.8	2	8.5	300	50					50	
4/73	5734'	9.7	180	5.5	2	8.5	2400	50						
5/73	5916'	9.8	290	5.6	2	9.0	1600	150						
6/73	6083'	10.0	280	4.8	2	9.5	3700	200					200	
7/73	6245'	10.0	260	5.4	2	9.5	2700	100				100		
8/73	6410'	10.0	300	5.0	2	9.5	1800					200		
9/73	6569'	9.9	240	4.6	2	8.5	1800	100		6 sx		200	100	
10/73	6720'	10.0	250	3.8	2	9.5		100						500 Poly Plastic
11/73	6893'	10.0	340	4.0	2	9.5	2500	100						
12/73	7027'	10.0	285	4.0	2	9.5	1800						150	
13/73	7178'	10.0	260	4.0	2	9.0	1900	150				100	100	
14/73	7225'	10.0	220	3.8	2	9.0	1400							
15/73	7225'	9.8	220	5.2	2	8.0	6900	300					200	
16/73	7288'	10.0	270	5.0	2	9.0	2100	100					50	
17/73	7300'	9.9	300	4.2	2	9.0	2500							
18/73	7322'	10.0	340	4.0	2	8.5	4300	100		6 sx			100	
19/73	7431'	10.0	345	4.2	2	9.0		100		3 sx			100	
20/73	7525'	10.0	398	4.4	2	8.5		200					150	
21/73	7620'	10.0	440	4.6	2	9.0		200					100	
22/73	7726'	10.0	215	4.6	2	9.0	5400	100						
23/73	7780'	10.0	405	5.4	2	9.5	1800							
24/73	7780'	10.0	285	5.0	2	9.0	16,200	150						
25/73	7780'	9.9	400	4.8	2	8.5	1200	100					50	
26/73	7780'	9.9	500	4.8	2	9.0	3700	100						
27/73	7780'	10.1	410	5.2	2	9.5		100						
28/73	7780'	9.9	500+	5.4	2	10.5	13,500	650						
Mar. 1/73	7780'	9.7	250	6.6	2	10.5								
2/73	7780'	9.8	230	6.4	2	10.5	4,000							
3/73	7780'	9.7	400+	7.2	2	9.5								Running Logs
4/73							1,600							W.O.O.
5/73														W.O.O.
6/73														Abandoning
7/73														Abandoning
8/73														Abandoned

(e) Deviation Record

Depth/Feet	Deviation/Degrees	Depth/Feet	Deviation/Degrees
60	7/8	3418	3
90	1/8	3545	3
120	1/4	3608	3
187	1/2	3703	2 1/2
252	3/4	3830	2 3/4
345	1/8	3860	3
421	1/4	3955	3
540	3/4	4050	3
608	3/4	4176	3
703	1/8	4221	4
806	1/2	4387	4
900	1/2	4545	4 3/4
490	1/2	4649	5
740	1/2	4770	5
1150	1/2	4899	5
1345	1	5020	6 1/2
1472	1 1/2	5141	5 1/2
1535	1	5175	7
1594	1	5270	6 1/2
1685	1	5360	6
1750	1 1/8	5490	6
1816	1/2	5588	5
1930	1 1/8	5705	5
2030	1 1/2	4731	5
2090	1	5865	6
2186	1	5980	6
2319	1	6080	6
2537	1	6420	6
2657	1	6520	6
2815	2	6700	6 1/2
2910	1 1/2	6800	6
3005	1 1/2	6896	6
3100	1	7050	6
3195	2	7300	5
3293	2	7780	7 3/4
3355	2 1/2		

(f) ABANDONMENT PLUGS

Plug #1 7780 - 7550' with 96 sacks + 3% $CaCl_2$

Plug down at 12:05 a.m. March 6, 1973

Plug #2 2000 - 1850' with 96 sacks + 3% $CaCl_2$

Plug down at 6:50 a.m. March 6, 1973
Felt after 8 hours at 1805'

Plug #3 833 - 933' with 60 sacks ÷ 3% $CaCl_2$

Plug down at 10:45 p.m. March 6, 1973
Fel. after 8 hours at 842'

5 sacks cement in top of casing and welded on plate.

Rig Released - 7:00 p.m. - March 7, 1973

(g) Lost Circulation Zones

Depth Circulation Was Lost	Corrective Measures
293'	Add lost circulation material
347'	" " " "
424'	" " " "
517'	" " " "
766'	" " " "

No further lost circulation zones were encountered after running 9-5/8" surface casing to 884 feet however between the depths 4617 feet and 7200 feet mud was lost to the formation at a rate varying between 3" to 12" from the mud tanks during an eight hour period.

(h) Report of Blowouts - none

Section IV - Logs

Schlumberger

Type	Run No.	Date	Interval
Borehole Compensated Sonic	1	March 3/73	883 - 7698
Dual Induction - Laterolog	1	March 3/73	883 - 7693
Sidewall Neutron Porosity	1	March 3/73	883 - 7697
Formation Density	1	March 3/73	883 - 7697

WELL HISTORY LOG

Well Name: CanDel et al Texaco Arctic Red F-47

Location: Unit F, Section 47, Grid 65-40-130-45

Operator: CanDel Oil Ltd.

Elevation: Ground: 2580' K.B. 2594'

Spud Date: 4:15 p.m. December 23, 1972

Finished Drilling: February 22, 1973

Status: Dry & Abandoned

Total Depth: 7780'

Bottom Formation: Devonian Imperial Shale

Geologist: T.A.D. Haddow, P. Geol.

Cores: none
D.S.T.'s: none

Abandonment Plugs:

#1 7780 - 7750' w/96 sacks + 3% $CaCl_2$

#2 2000 - 1850' w/96 sacks + 3% $CaCl_2$
Felt after 8 hrs. at 1805'

#3 833 - 933' w/60 sacks + 3% $CaCl_2$
Felt after 8 hrs. at 842'

5 sacks in top of casing and welded on plate.

—LEGEND—

- Breccia
- Conglomerate
- Granite Wash
- Sandstone
- Siltstone
- Shale, light color
- Shale, med color
- Shale, dark color
- Shale, black
- Marlstone
- Limestone
- Dolomite
- Anhydrite
- Gypsum
- Salt
- Coal
- Glacial Till
- Igneous
- Volcanic
- Metamorphic
- Marl, limy
- Marl, dolomitic
- Limestone, streak
- Dolomite, streak
- Sandy
- Silty
- Calcareous
- Dolomitic
- Anhydritic
- Gypsiferous
- Chert, light & dark
- Argillaceous
- Glauconitic
- Salt Cast
- Nodules
- Bioclastic or Frag
- Oolites
- Pellets
- P Pyrite
- F Fossils
- C Carbonaceous
- E Earthy
- C Chalky
- L Lithographic
- Cx Cryptocrystoline
- No Samples

POR

GOOD >20%
FAIR 12 - 20%
POOR 8 - 12%
TRACE <8%

GRAIN SIZE

VERY FINE
FINE
MEDIUM
COARSE
VERY COURSE

- Oil, heavy stain
- Oil, med, poor or spotty stain
- Oil, light, questionable stain
- D Oil, dead or asphaltic
- † Gas, (positive test)
- W Water, (positive test)

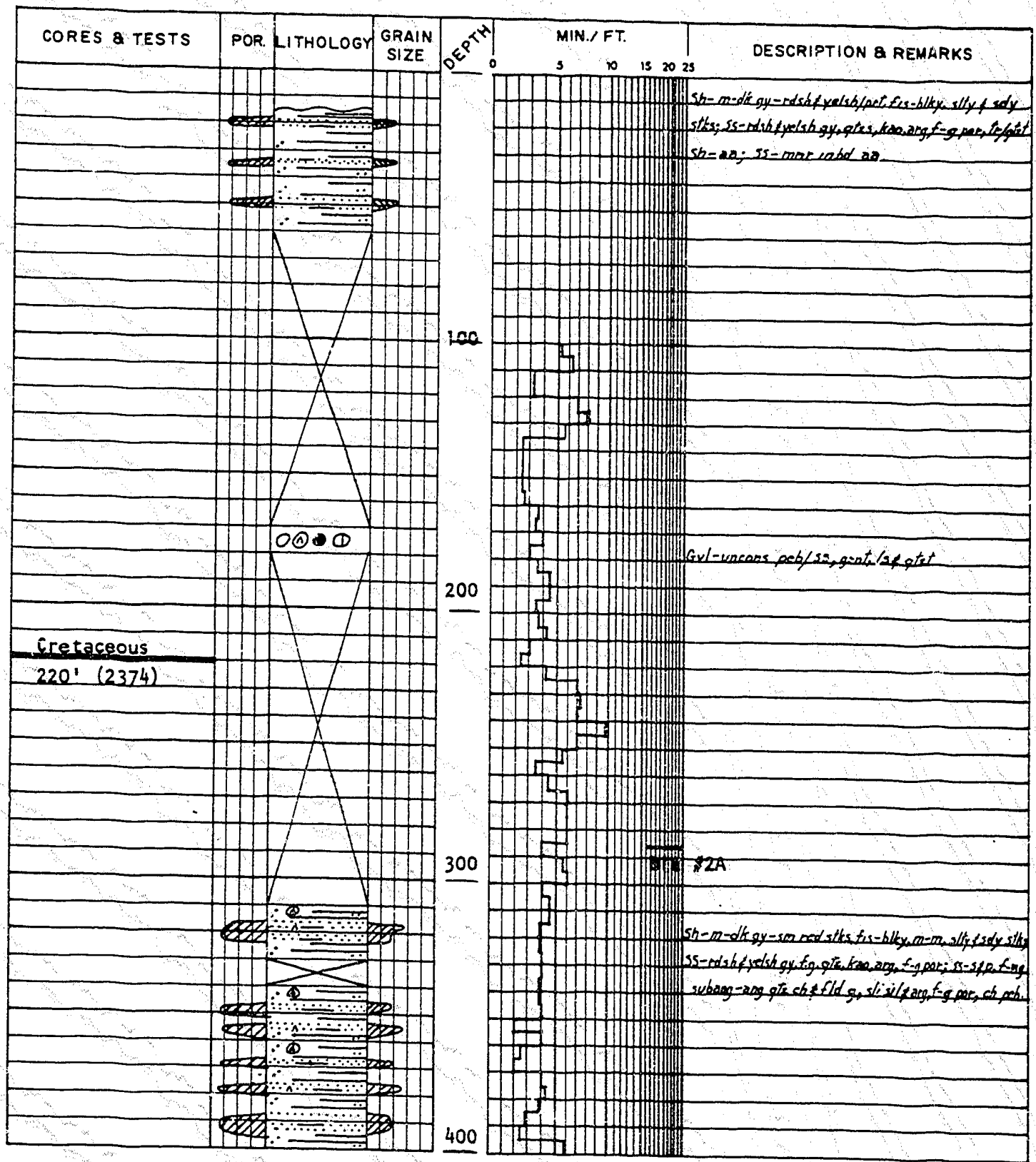
WELL HISTORY LOG

WELL NAME: CanDel et al Texaco Arctic Red F-47

DATE: January 4, 1973

INTERVAL SHOWN: Surface - 400'

PAGE NO. 1



Geologist T.A.D. Haddow, P. Geol.

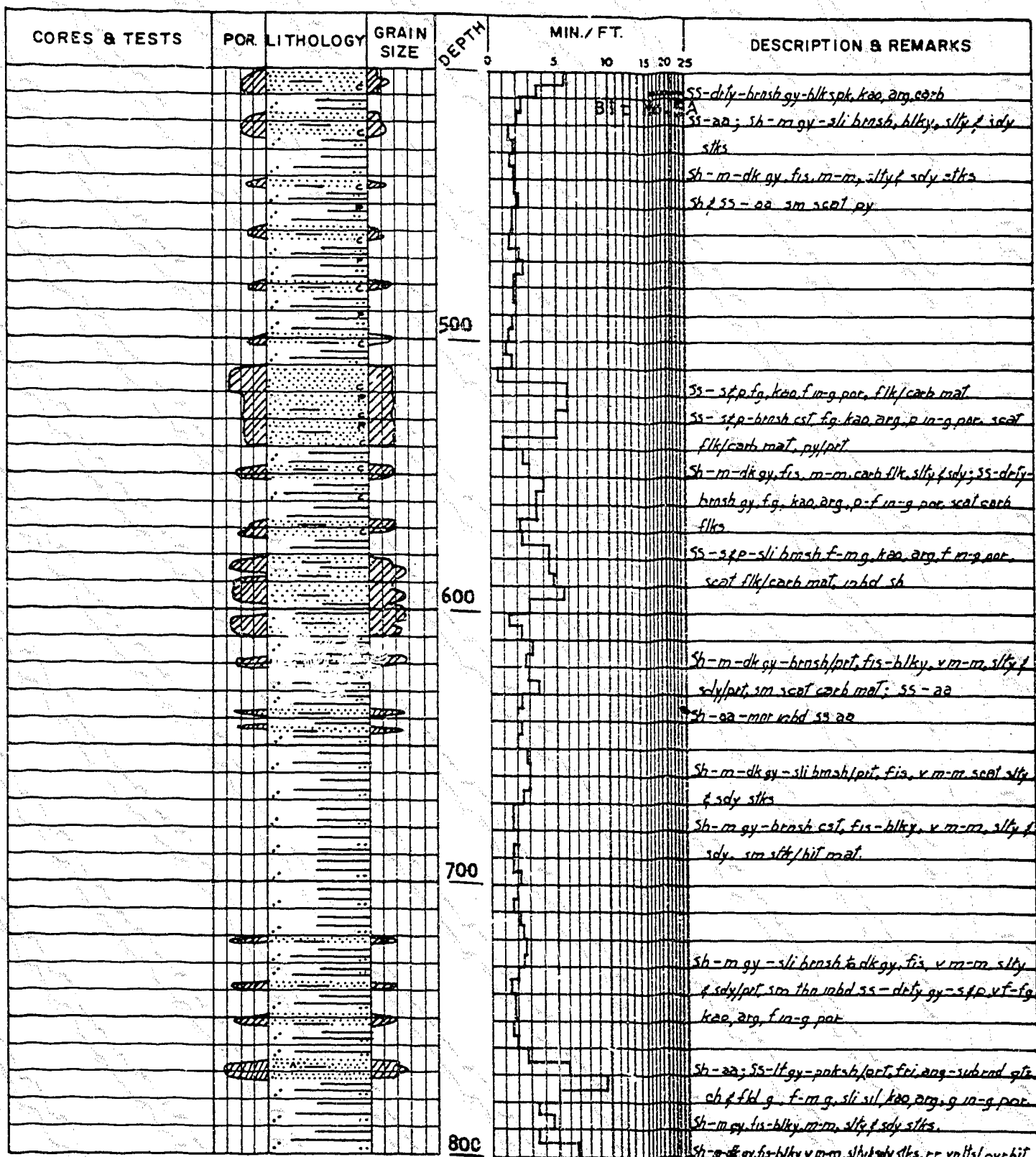
WELL HISTORY LOG

WELL NAME: CanDel et al Texaco Arctic Red F-47

DATE: January 4, 1973

INTERVAL SHOWN: 400 - 800'

PAGE NO. 2

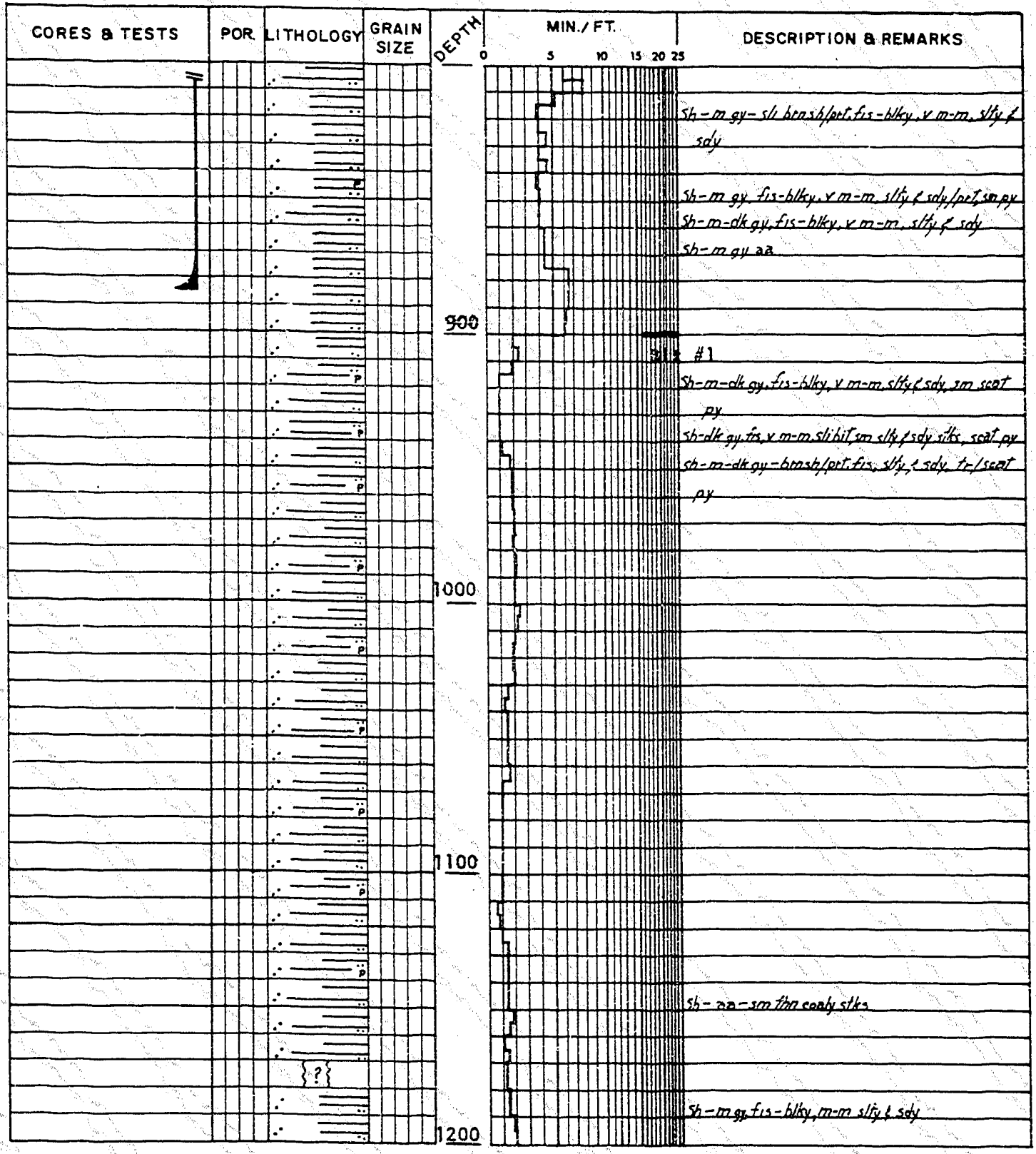


Geologist T.A.D. Haddow, P. Geol.

WELL HISTORY LOG

WELL NAME: CanDel et al Texaco Arctic Red F-47 DATE: January 10, 1973

INTERVAL SHOWN: 800 - 1200' PAGE NO. 3



Geologist T.A.D. Haddow, P. Geol

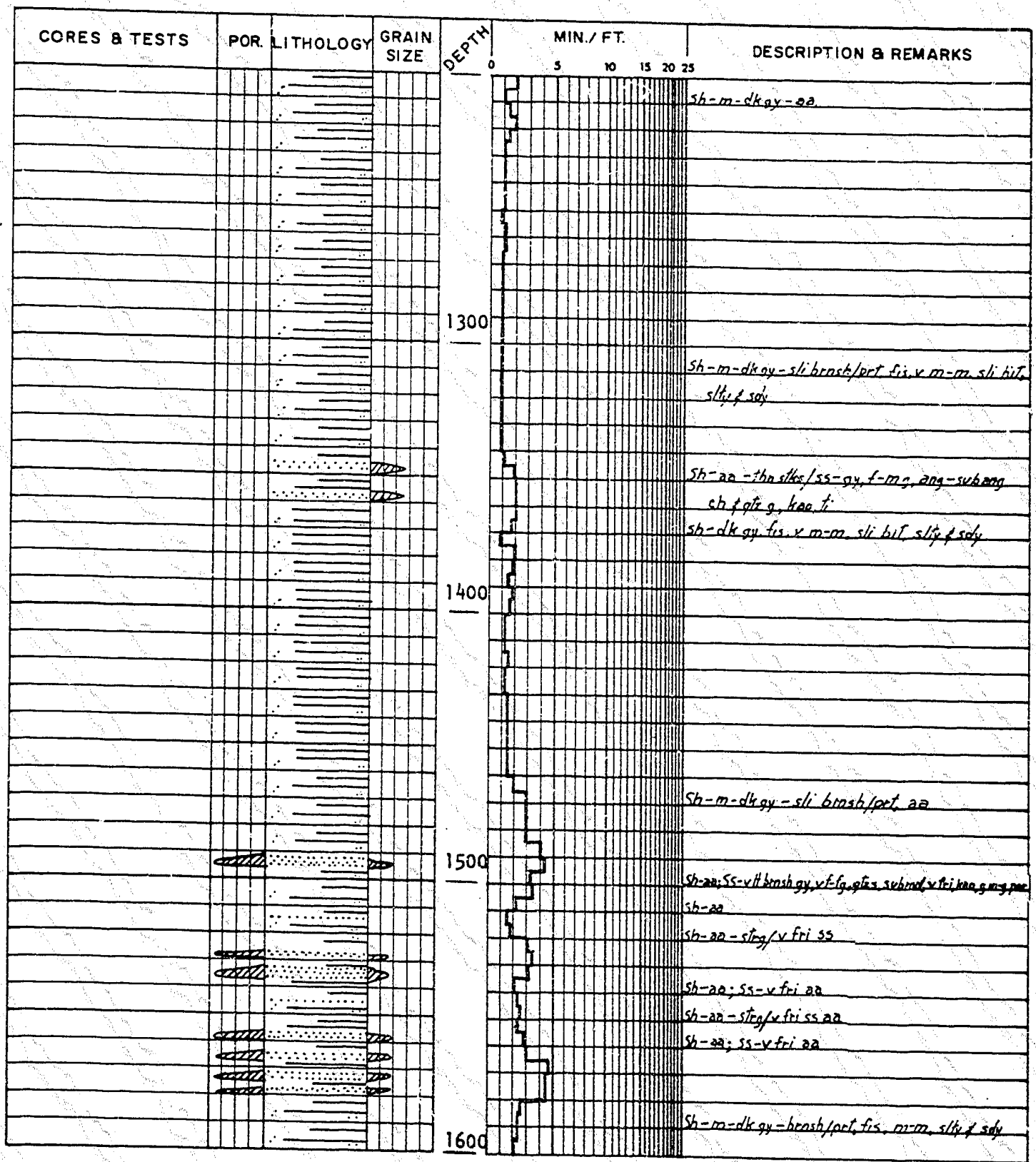
WELL HISTORY LOG

WELL NAME: CanDel et al Texaco Arctic Red F-47

DATE: January 11, 1973

INTERVAL SHOWN: 1200 - 1600'

PAGE NO. 4



Geologist: T.A.D. Haddow, P. Geol.

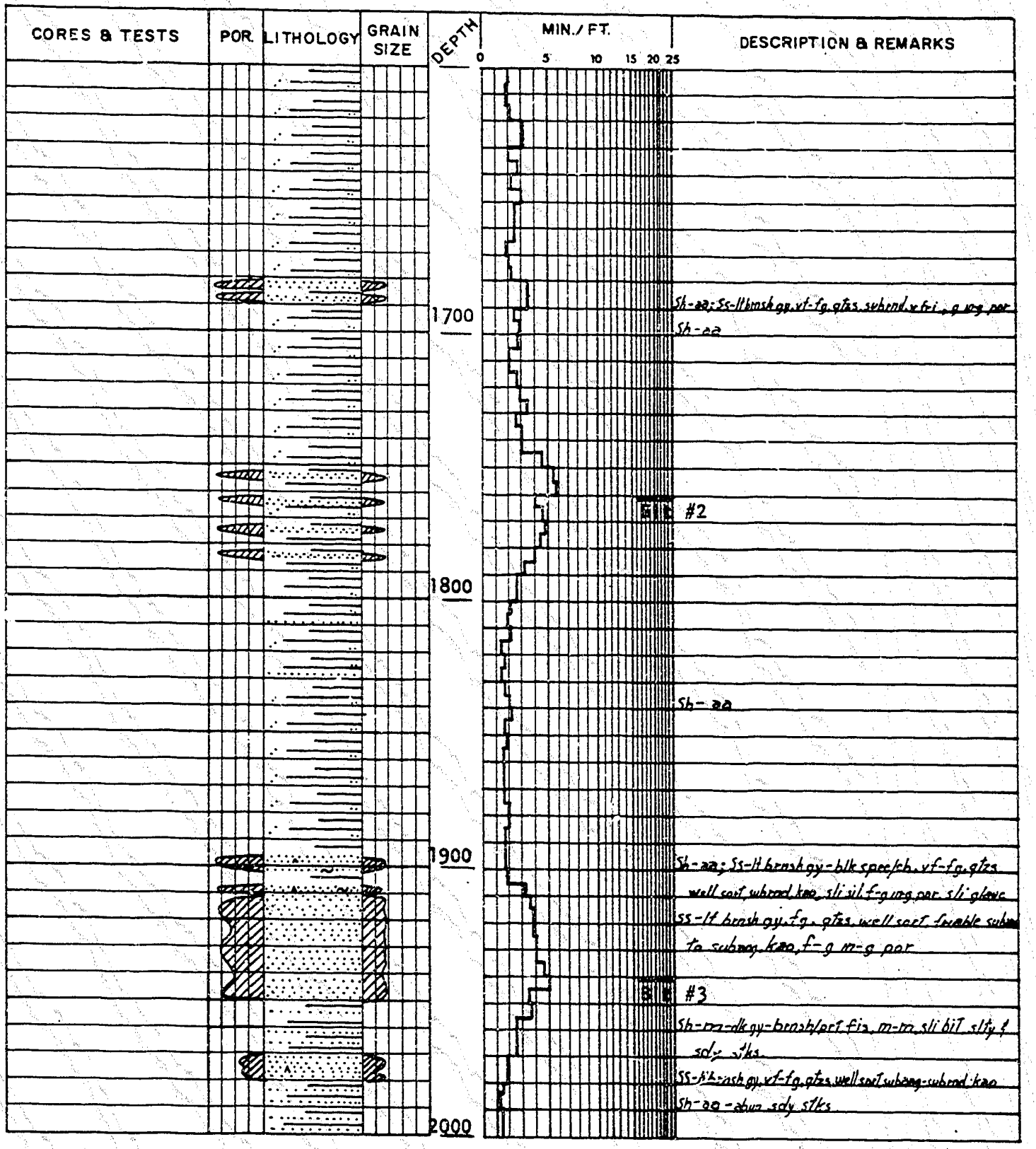
WELL HISTORY LOG

WELL NAME: CanDel et al Texaco Arctic Red F-47

DATE: January 12, 1973

INTERVAL SHOWN: 1600 - 2000'

PAGE NO. 5

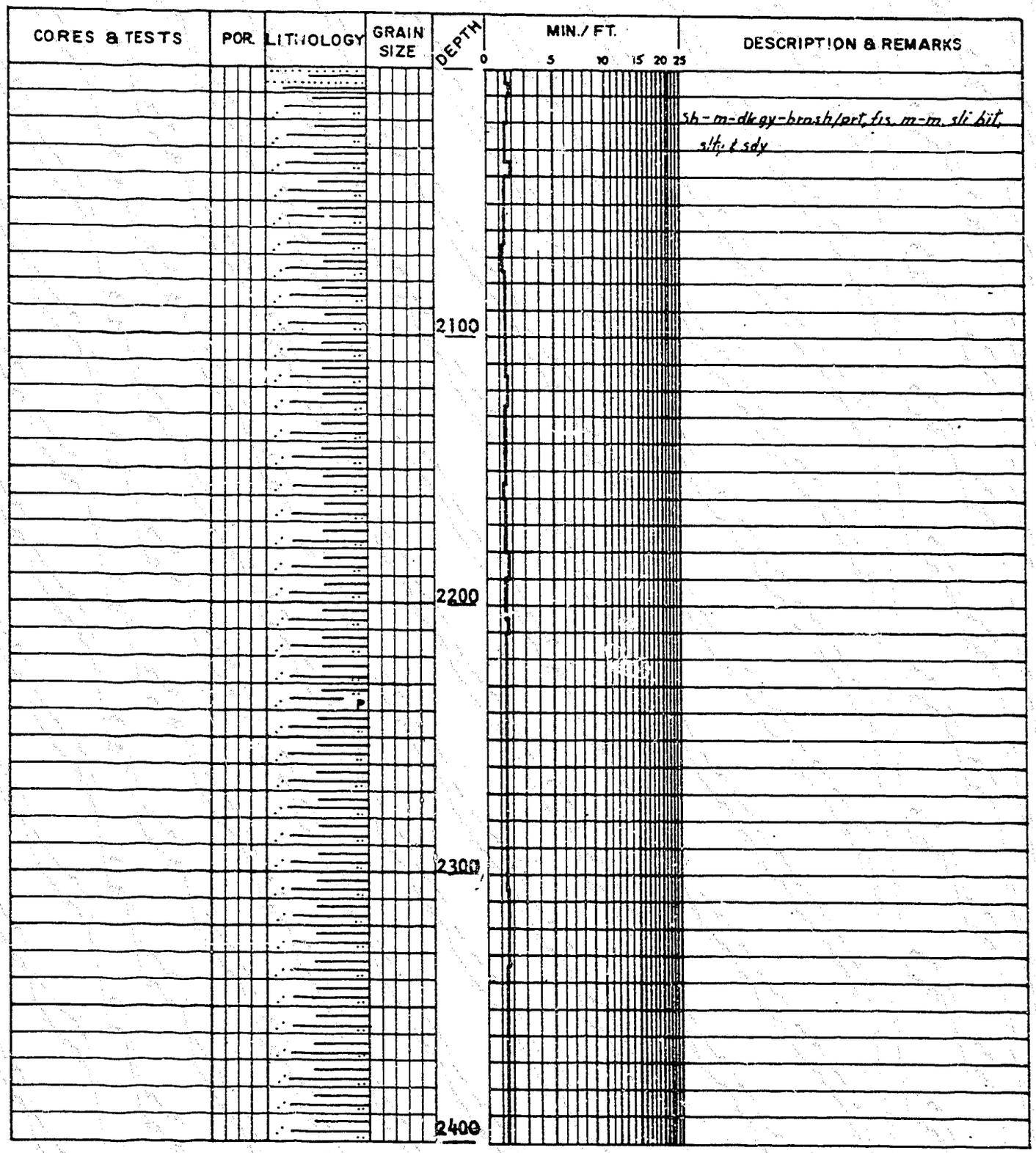


Geologist T.A.D. Haddow, P. Geol.

WELL HISTORY LOG

WELL NAME: CanDel et al Texaco Arctic Red F-47 DATE: January 12, 1973

INTERVAL SHOWN: 2000 - 2400' PAGE NO. 6



Geologist T.A.D. Haddow, P. Geol.

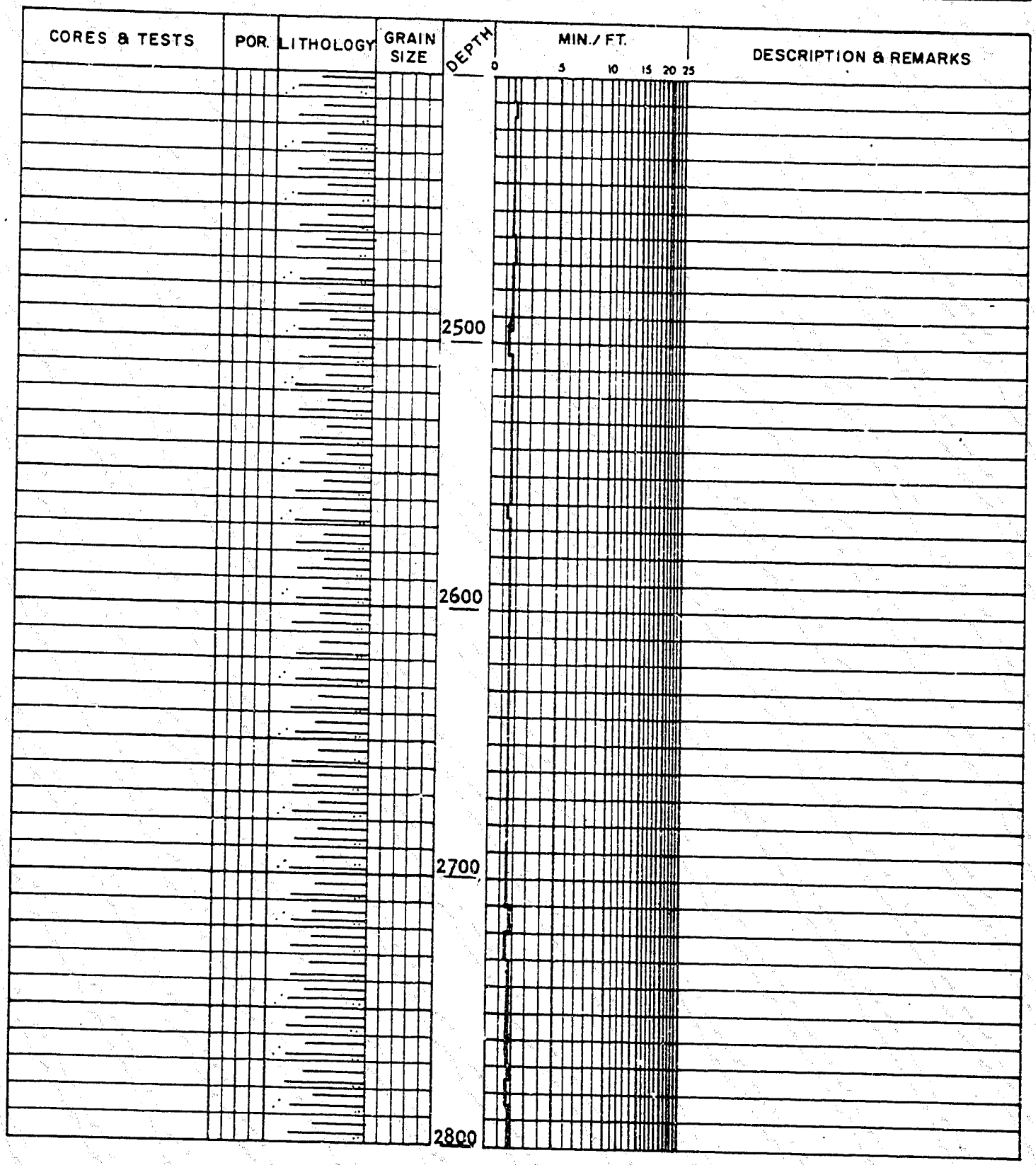
WELL HISTORY LOG

WELL NAME: CanDel et al Texaco Arctic Red F-47

DATE: January 13, 1973

INTERVAL SHOWN: 2400 - 2800'

PAGE NO. 7



Geologist T.A.D. Haddon, P. Geol.

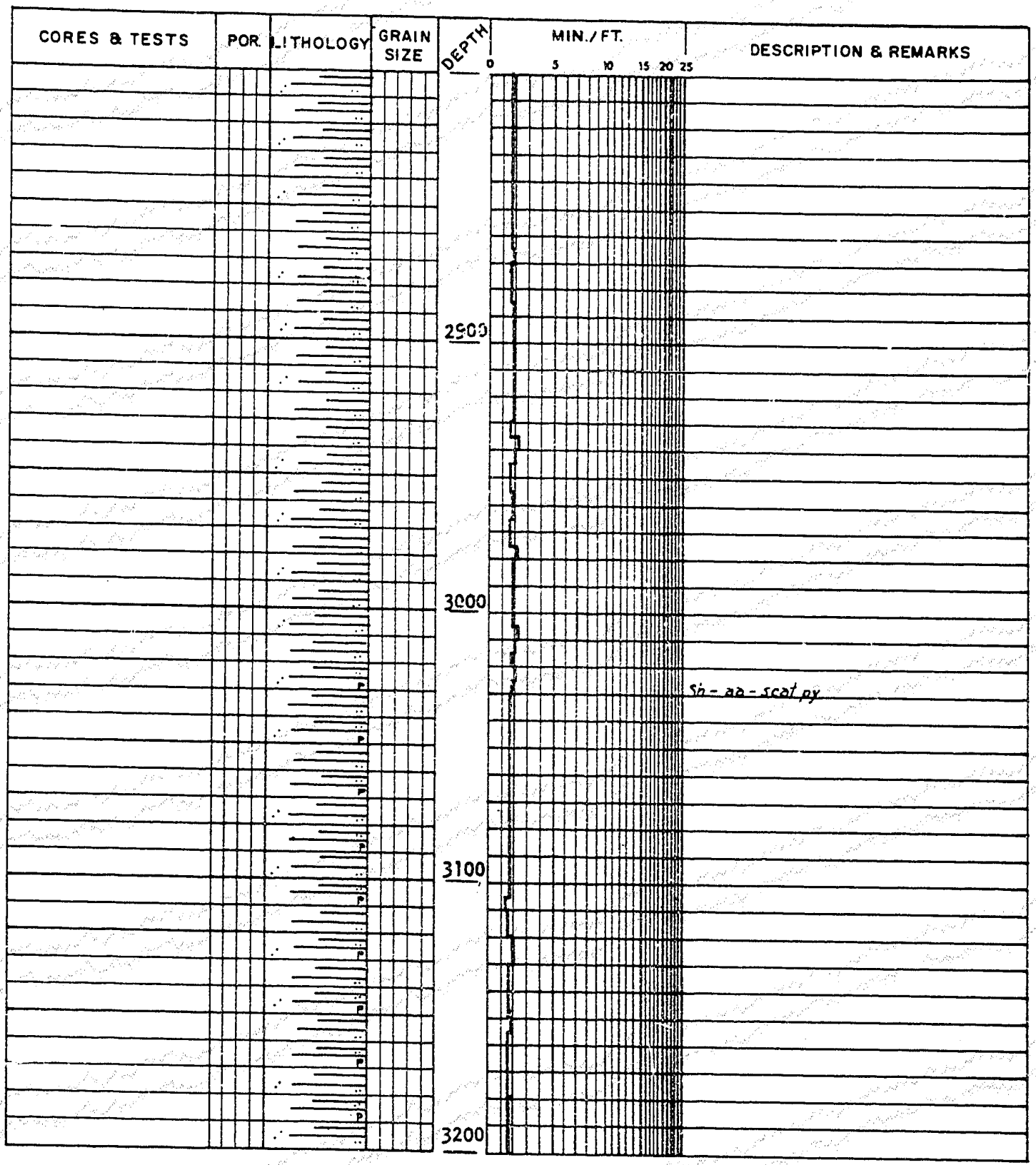
WELL HISTORY LOG

WELL NAME: CanDel et al Texaco Arctic Red F-47

DATE: January 13 & 14/73

INTERVAL SHOWN: 2800 - 3200'

PAGE NO. 8



Geologist _____

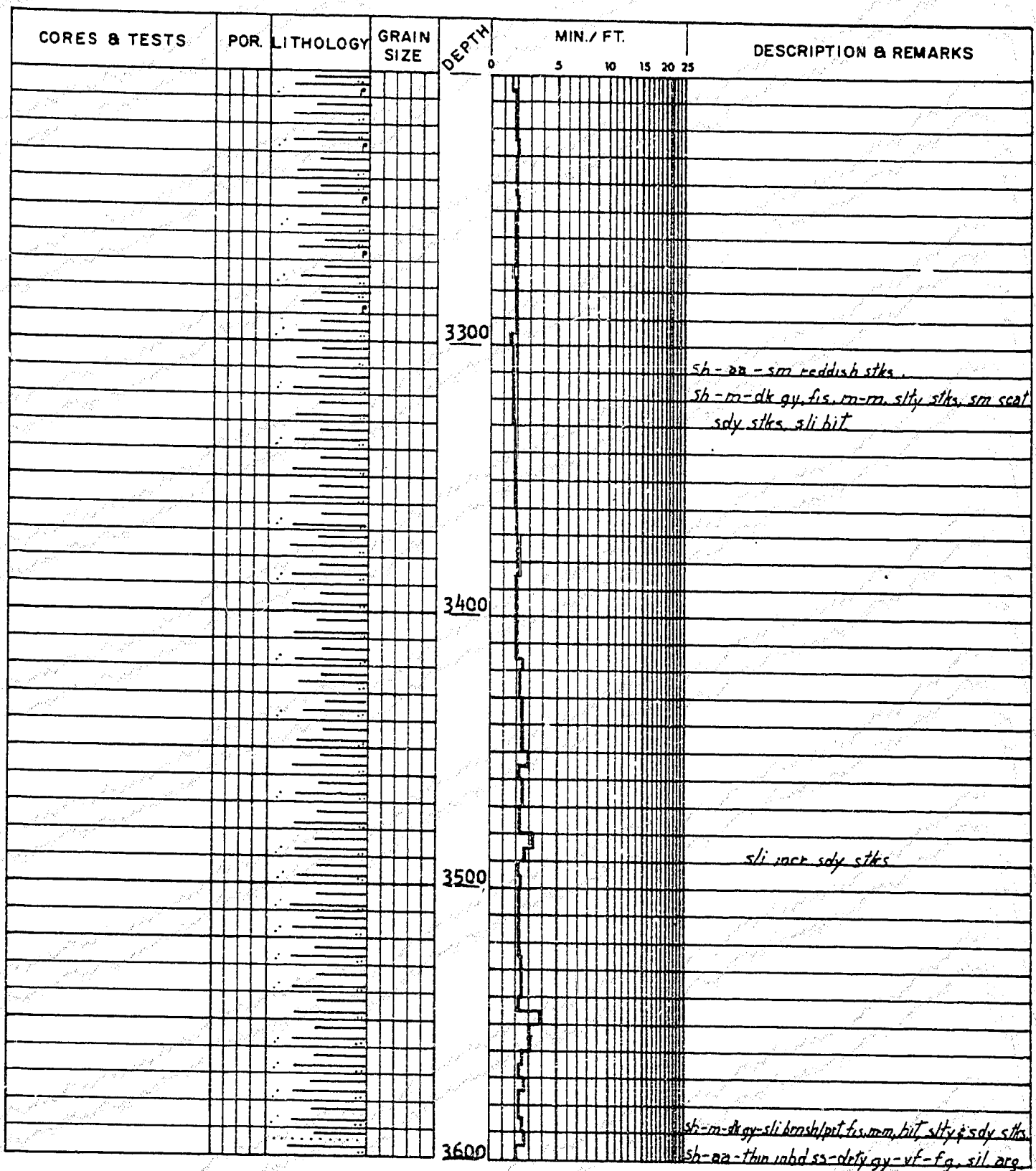
WELL HISTORY LOG

WELL NAME: CanDel et al Texacc Arctic Red F-47

DATE: January 14, 1973

INTERVAL SHOWN: 3200 - 3600'

PAGE NO. 9



Geologist T.A.D. Haddow, P. Geol.

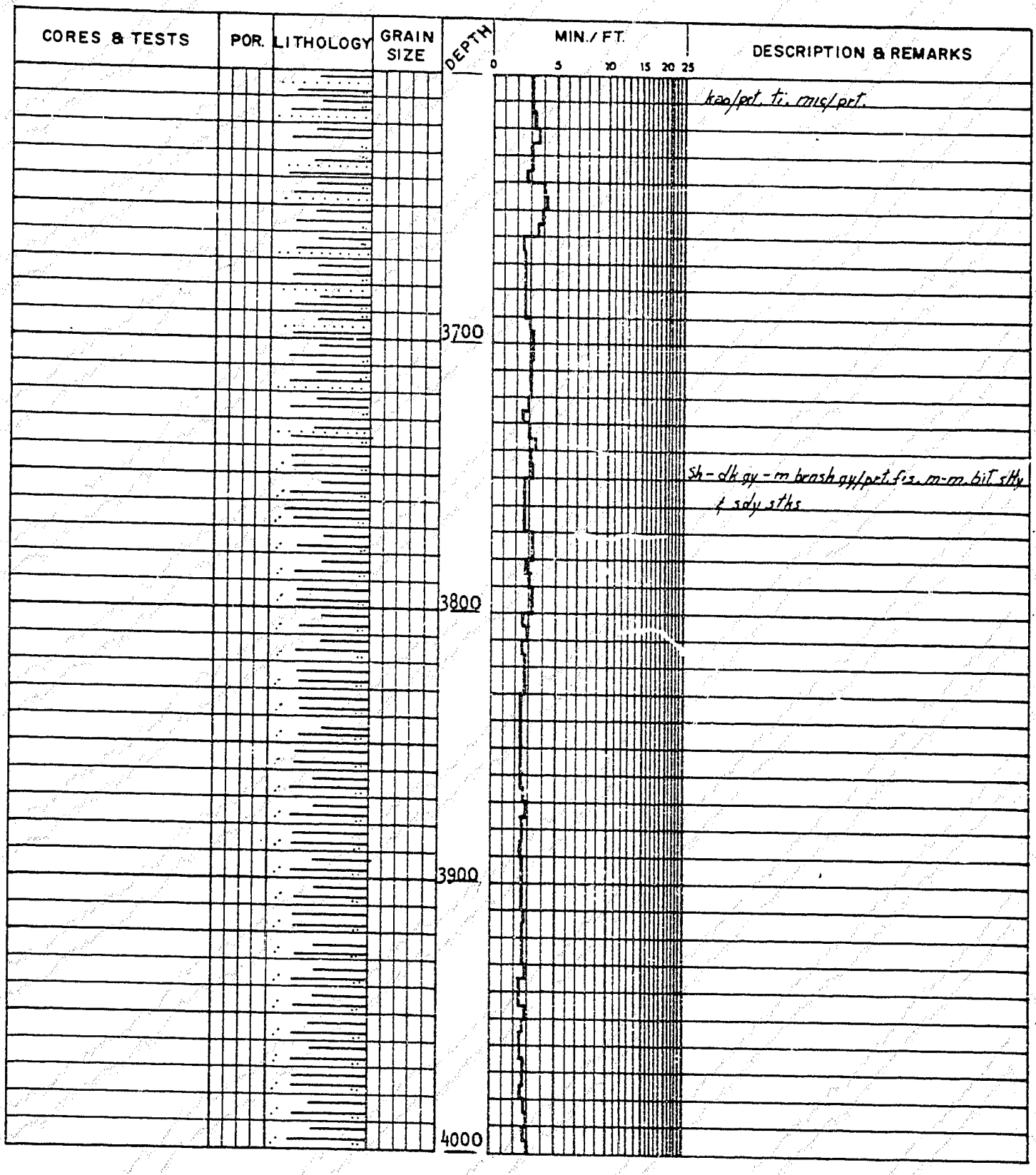
WELL HISTORY LOG

WELL NAME: CanDel et al Arctic Red F-47

DATE: January 15, 1973

INTERVAL SHOWN: 3600 - 4000'

PAGE NO. 10

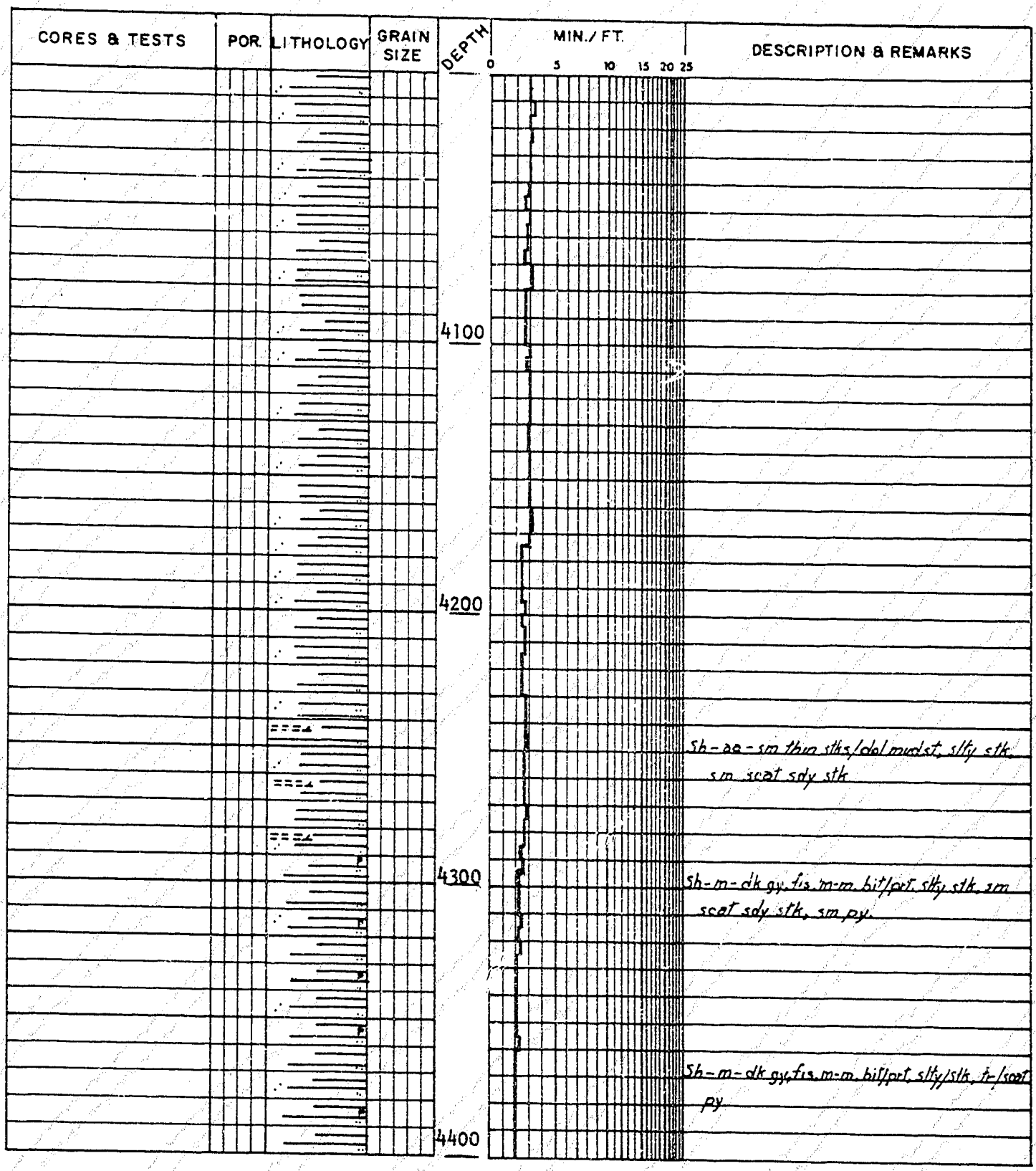


Geologist T.A.D. Haddow, P. Geol.

WELL HISTORY LOG

WELL NAME: CanDel et al Arctic Red F-47 DATE: January 16, 1973

INTERVAL SHOWN: 4000 - 4400' PAGE NO. 11



Geologist T.A.D. Haddow, P. Geol.

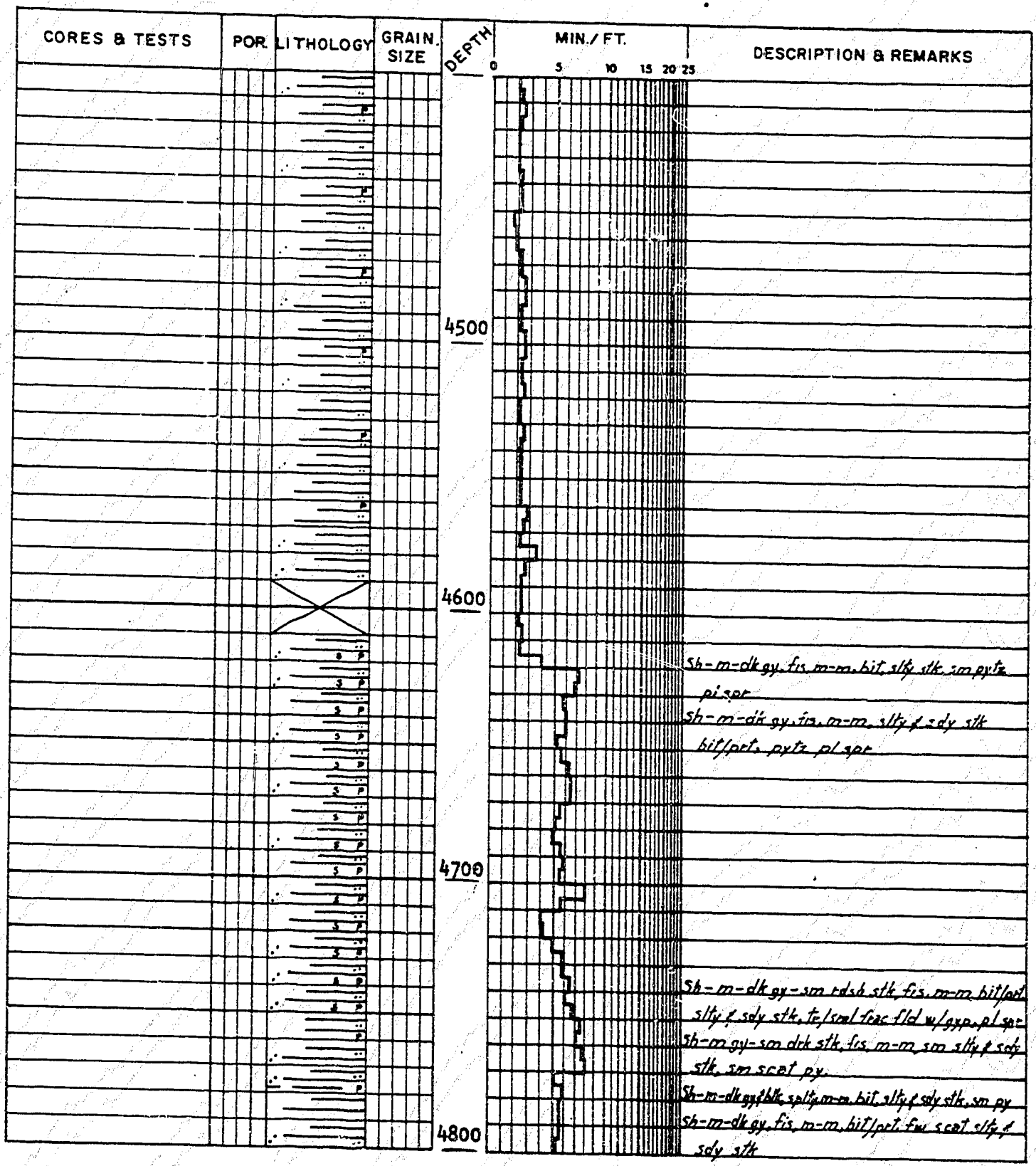
WELL HISTORY LOG

WELL NAME: CanDel et al Arctic Red F-47

DATE: January 27, 1973

INTERVAL SHOWN: 4400 - 4800'

PAGE NO. 12



Geologist T.A.D. Haddow, P. Geol.

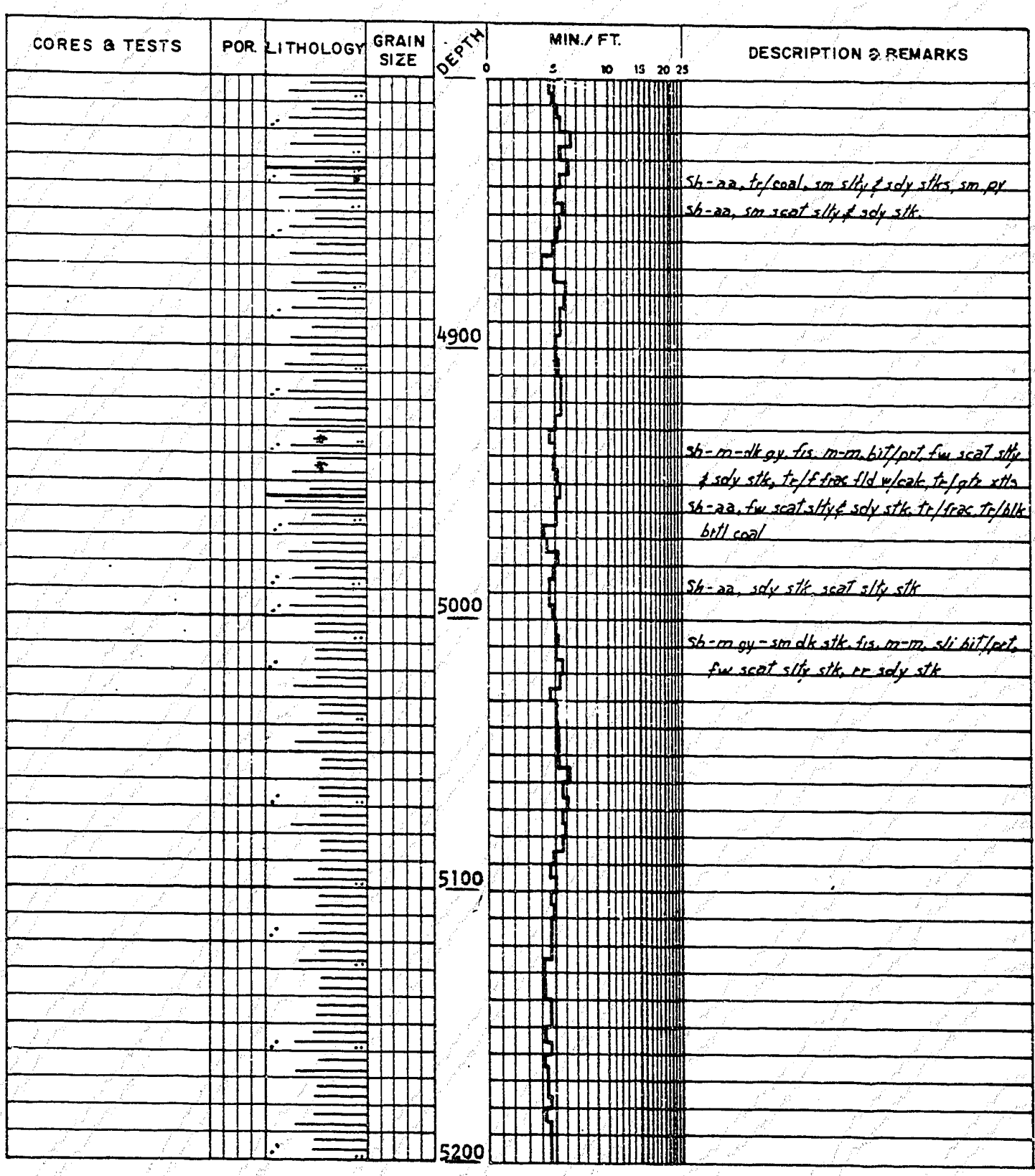
WELL HISTORY LOG

WELL NAME: CanDel et al Arctic Red F-47

DATE: January 28, 1973

INTERVAL SHOWN: 4800 - 5200'

PAGE NO. 13



Geologist T.A.D. Haddow, P. Geol.

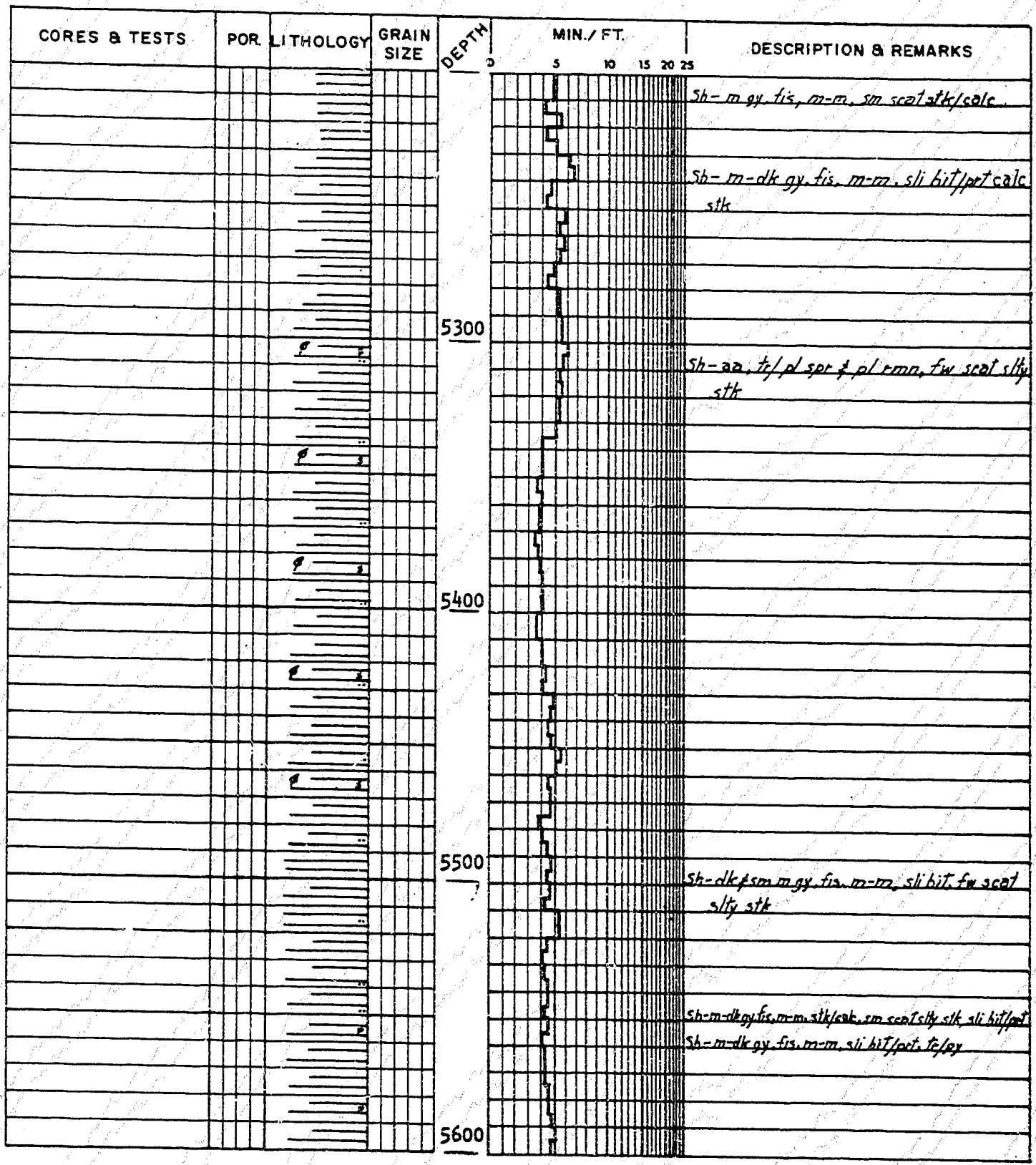
WELL HISTORY LOG

WELL NAME: CanDel et al Arctic Red F-47

DATE: January 30, 1973

INTERVAL SHOWN: 5200 - 5600'

PAGE NO. 14

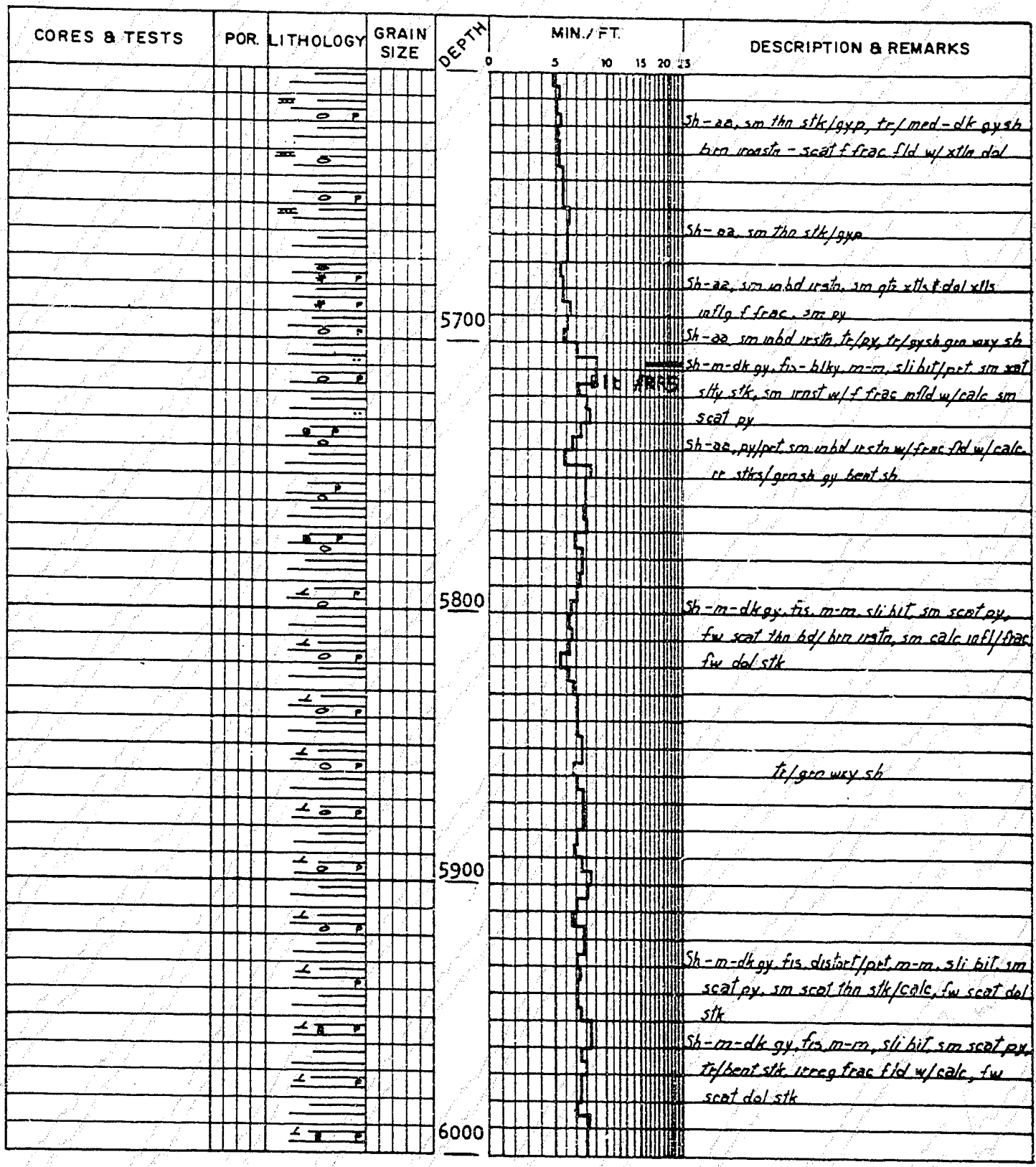


Geologist T.A.D. Haddow, P. Geol.

WELL HISTORY LOG

WELL NAME: CanDel et al Arctic Red F-47 DATE: Feb. 5, 1973

INTERVAL SHOWN: 5600 - 6000' PAGE NO. 15



Geologist T.A.D. Haddow, P. Geol.

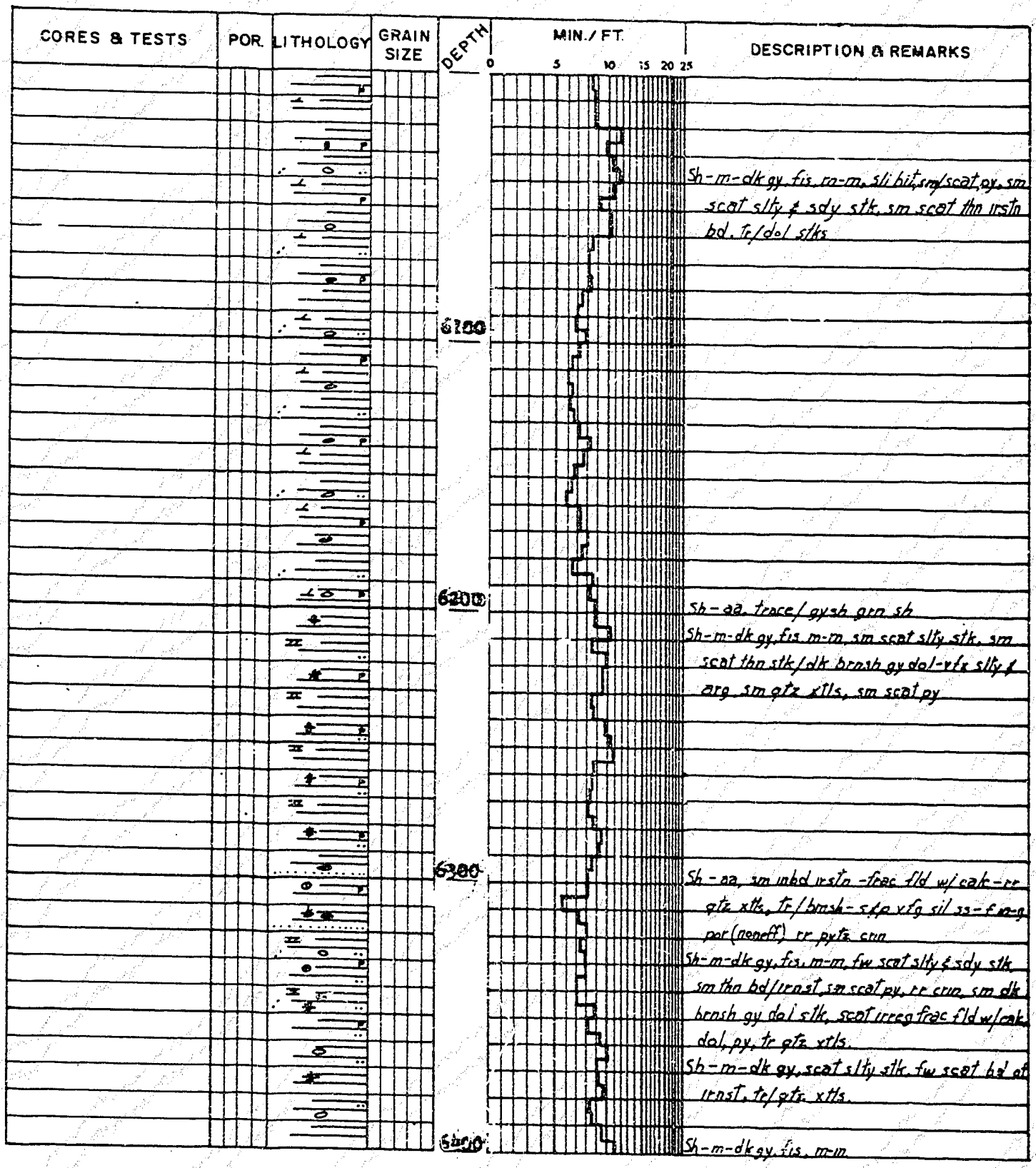
WELL HISTORY LOG

WELL NAME: CanDel et al Arctic Red F-47

DATE: February 8, 1973

INTERVAL SHOWN: 6000 - 6400'

PAGE NO. 16



Geologist T.A.D. Haddow, P. Geol.

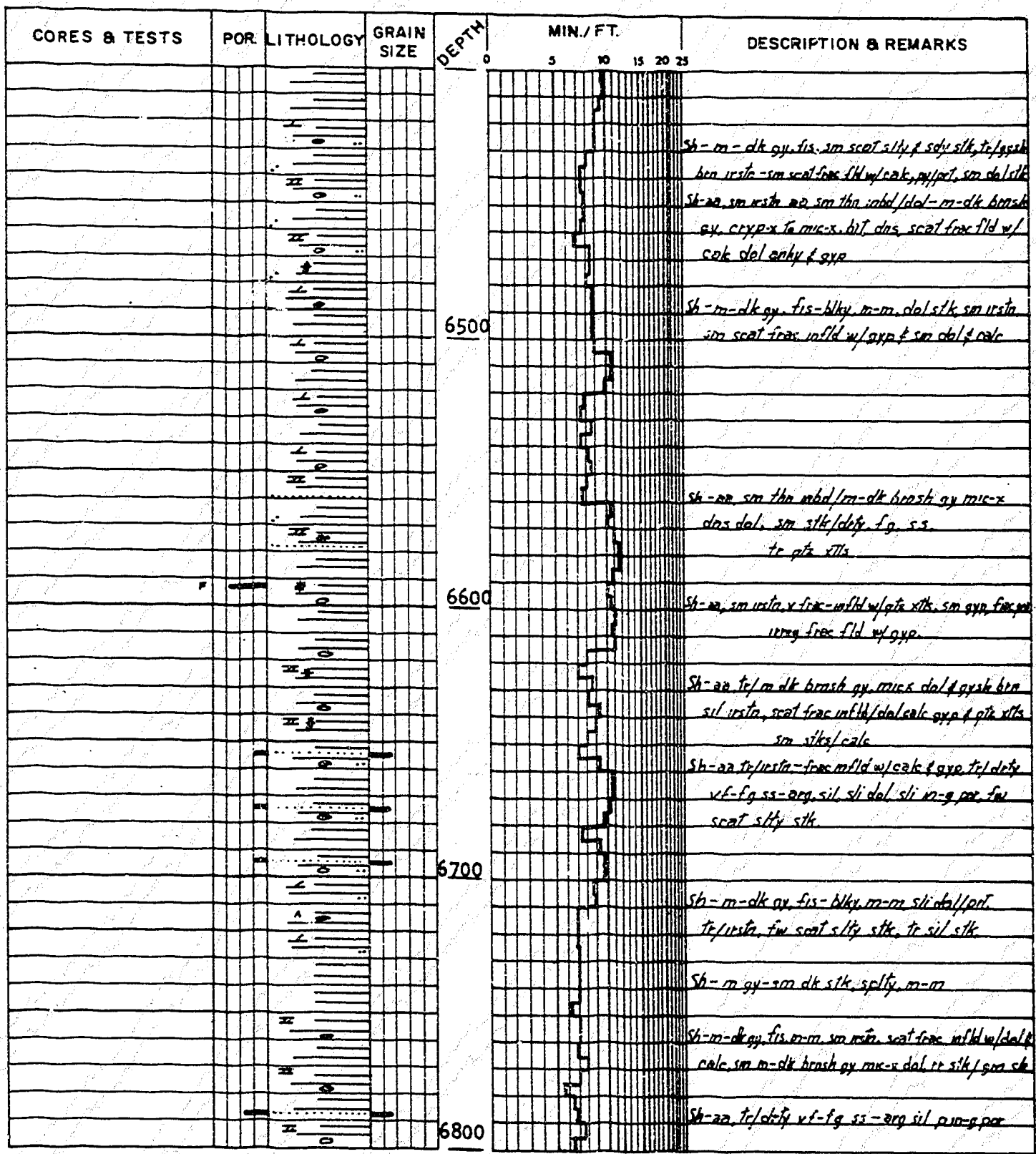
WELL HISTORY LOG

WELL NAME: CanDel et al Arctic Red F-47

DATE: Feb. 10/73

INTERVAL SHOWN: 6400 - 6800'

PAGE NO. 17



Geologist T.A.D. Haddow, P. Geol.

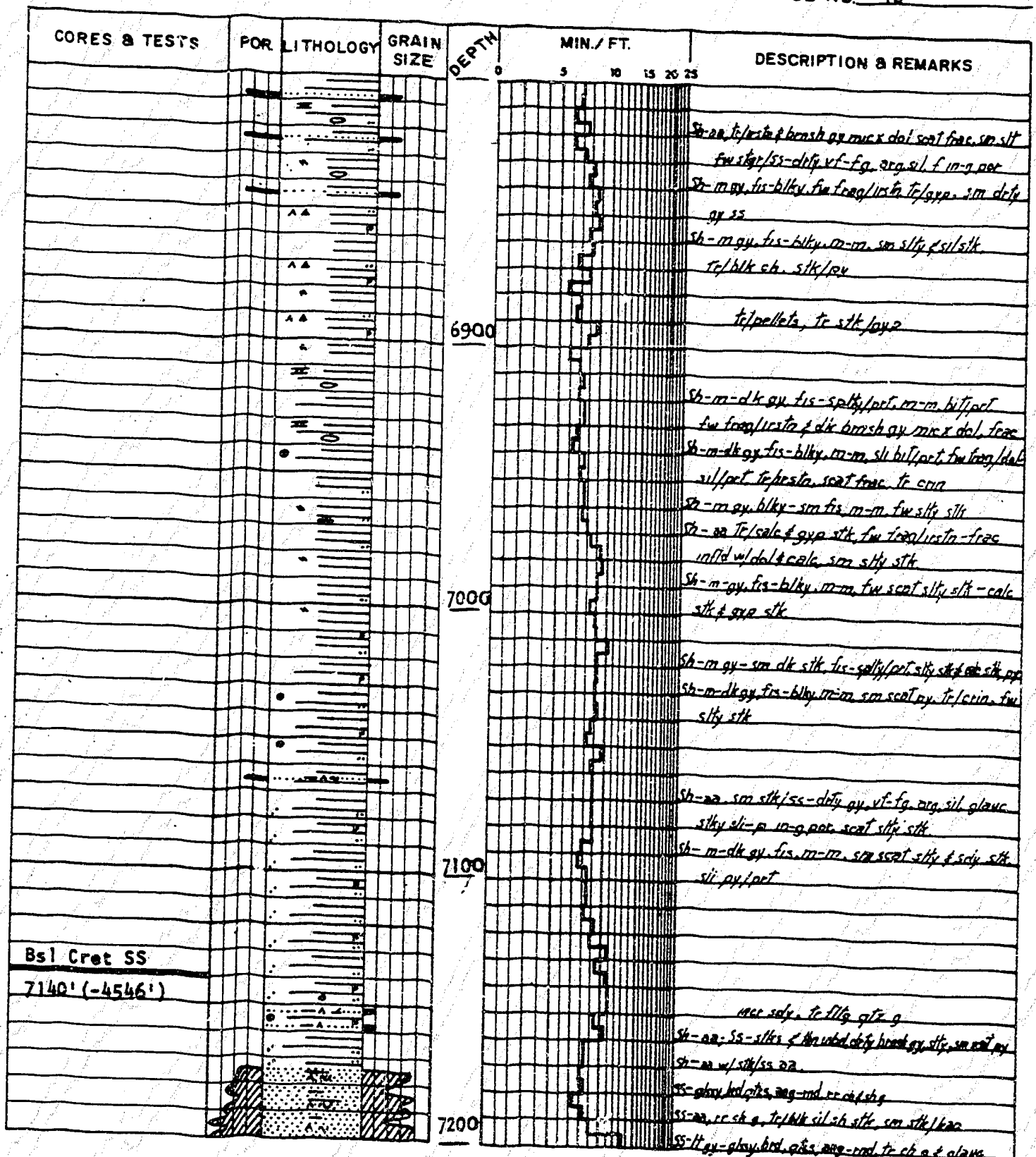
WELL HISTORY LOG

WELL NAME: CanDel et al Arctic Red F-47

DATE: Feb. 18, 1973

INTERVAL SHOWN: 6800 - 7200'

PAGE NO. 18



Sh-aa, fr/resin & brnsh gy mic x dol scat frac, sm slt
fw stgr/ss-dkfy vf-fg, arg, sil, f in-g por
Sh-m gy, fis-blky, fw foog/lrsstn, fr/gyp, sm dkfy
gy ss
Sh-m gy, fis-blky, m-m, sm slty & sil/stk
fr/blk ch, stk/gy
fr/pellets, fr stk/gyp
Sh-m-dk gy, fis-splty/pert, m-m, bit/pert
fw foog/lrsstn & dk brnsh gy mic x dol, frac
Sh-m-dk gy, fis-blky, m-m, sli bit/pert, fw foog/dol
sil/pert fr/resstn, scat frac, fr cvn
Sh-m gy, blky-sm fis, m-m, fw slty stk
Sh-aa fr/calc & gyp stk, fw foog/lrsstn-frac
infld w/dol & calc, sm slty stk
Sh-m-gy, fis-blky, m-m, fw scat slty stk-calc
stk & gyp stk
Sh-m gy-sm dk stk, fis-splty/pert, slty stk & ch stk, ppr
Sh-m-dk gy, fis-blky, m-m, sm scat gy, fr/cvn, fw
slty stk
Sh-aa, sm stk/ss-dkfy gy, vf-fg, arg, sil, glauc
slty sli-p in-g por, scat slty stk
Sh-m-dk gy, fis, m-m, sm scat slty & sdy stk,
sil gy/pert
rare sdy, fr slty qtz g
Sh-aa; Ss-stks & thn rbbd dkfy brnsh gy, slty, sm scat gy
Sh-aa w/stk/ss aa
SS-gloy, brd qtz, ang-md cr cl sh g
SS-aa, cr ch g, fr/blk sil sh stks, sm stk/lrg
SS-lt gy-gloy, brd, qtz, ang-rnd, fr ch g & glauc

Geologist T.A.D. Haddow, P.Geol.

WELL HISTORY LOG

WELL NAME: CanDel et al Arctic Red F-47 DATE: Feb. 21, 1973

INTERVAL SHOWN: 7200 - 7600' PAGE NO. 19

CORES & TESTS	POR.	LITHOLOGY	GRAIN SIZE	DEPTH	MIN./FT. 0 5 10 15 20 25	DESCRIPTION & REMARKS
Imp Sh 7210' (-4616)				7300		SS-lt gy, fri/pet, qtzs, m well sort, subang-rnd. Sh-m gy-sli brnsh, qtzs, well sort, subrnd-rnd. SS-m-gy, qtzs, frac, calc/qtz; sh-m-dk gy, blky, m-m SS-m-dk gy, v hrd, vf-f-g, qtzs, v sil, arg, carb, fri/mst pet-sm stky, sli m-g por, inbd sh Si-aa; SS-stp-sli brn/pet, m hrd, qtzs, subrnd-rnd; Sh-m-dk gy SS-gy, fri-m ired, slty, kao; Sh-aa.
				7400		Sh-stks/sltst-grdg-vfg ss/pet, stks ss-vfg, kao/pet, fri/sl Sh-m-dk gy; SS-sli brnsh gy, qtzs, kao/pet, fri/spty, sl stk SS-gy-sli brnsh/pet, vfg, qtzs, arg, kao, sli calc/pet, p in-g por, carb spk/pet, frac mlld w/calc; Sh-brnsh stk SS-aa; Sh-m-dk gy, fis, sm slty stk Sh-aa, stk/gy sltst & mor inbd ss-gy, vfg, kao, calc/pet Sh-aa; Sltst-stks & thn inbd-gy, grdg to vfg ss in pet Sh-m gy-fm drk stks, fis-subblky, m-m, slty & sdy Sh-m-dk gy, fis, m-m, sli bi/pet, slty & sdy stk, fri/anhy Sh-m gy-blk, fis, m-m, slty & sdy stk, scat frac/calc/pyr Sh-m-dk gy, fis, m-m, slty & sdy stk, scat frac mlld/calc.
				7500		Sh-m gy-brnsh/pet, fis-blky, m-m, stk/sltst & vfg, arg, SS-lmy stk, fri/ost Sh-fis, m-m, irreg stk/sltst & SS-calc/pet, rr ironst Sh-aa; SS-gy, vf-fg, qtzs, kao, calc/pet, fri/glauc/pet Sh-m-dk gy, fis-blky/pet, slty stk & stk & thn inbd/SS aa. Sh-m-dk gy, fis, m-m, sm slty stk, rr foss/mst; SS-drly gy, qtzs, kao, calc/pet, carb/pet, sl-p m-g por, sm sil/stk, sm calc stk. Sh-aa; SS-drly gy, qtz, kao/pet, sil/pet, scat frac mlld w/calc & stk sil/pet.
				7600		SS-drly gy, qtzs, kao/pet, carb/pet, sl-p m-g por, sli sty st

Geologist T.A.D. Haddow, P. Geol.

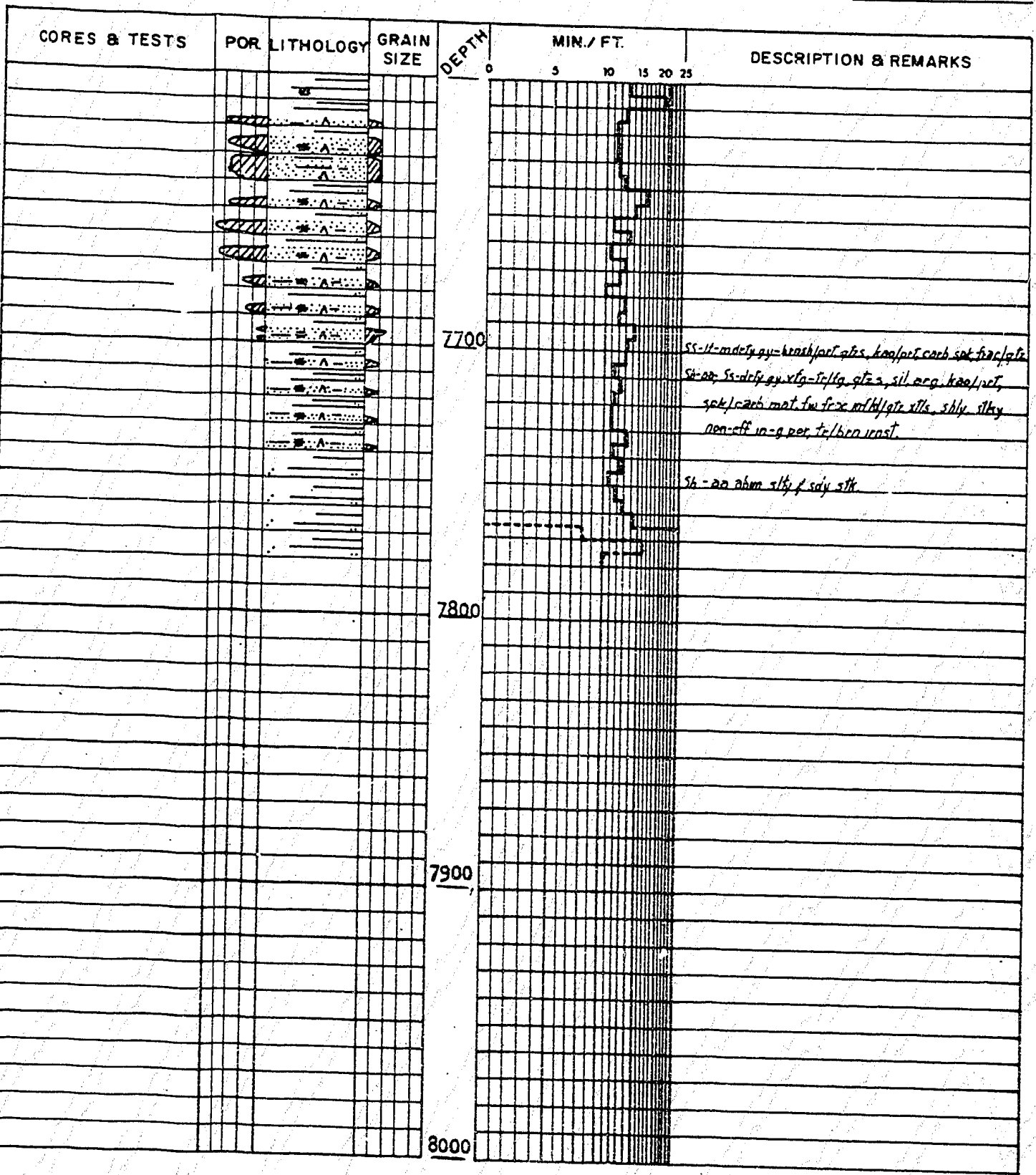
WELL HISTORY LOG

WELL NAME: CanDel et al Arctic Red F-47

DATE: Feb. 27, 1973

INTERVAL SHOWN: 7700 - 7780'

PAGE NO. 20



Geologist T.A.D. Haddow, P. Geol.

DAILY DRILLING REPORT

REPORT NO. | DATE MAR 9/73

OPERATOR | LEASE | WELL NO. | FIELD OR DIST. | COUNTY | STATE

CONTRACTOR Randel Oil LT Jennings International Drilling
Division of Pancana Industries Ltd.

RIG NO.

DRILL PIPE STRING: NO. | SIZE | TYPE THD.

TOOL JOINT O.D. MOBIL 4½

PUMPS F-47 ARTIC REP

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
							N.U.T.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER Arthur Braunagh

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.O RM. R CORE..C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

NOTE - Boilers in use 12 Hrs

DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	10⁰⁰		THAWING OUT WAITING. DRAINING AND WASHING BOILERS DOWN. ~~TORN DOWN SUB~~ TACK DOWN DRAWWORKS LOADING OUT RIG AND MOVING TO NEW LOCATION

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD Austin

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	10⁰⁰		LAYING DOWN A-LEGS UNPINNING AND MOVING DERRICK TO NEW LOCATION PICK UP MATTING

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD Ken Fryton

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FLTR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. _____ DATE MAR 8/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL. LTD	CANDEL ET AL MOBIL ARTIC RED	F-47			

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Richardson

DRILL PIPE STRING: NO. | SIZE — TOOL JOINT O.D. — TYPE THD.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.-SEC | W.L.-C.C. | FLTR. CK. | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER: Ray Lestus

FOOTAGE FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00			TEAR OUT RIG SHELTER. WASH MATTING DOWN. LOAD OUT RIG SUPPLIES
			2 BOILERS RUN 24 HRS

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.-SEC | W.L.-C.C. | FLTR. CK. | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER: Wayne Ingram

FOOTAGE FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00			TEAR OUT & LAY DOWN DERRICK. TIE BLOCKS UP. MOVE FRONT END OUT. MOVE MUD PUMPS OUT. DRAIN ENGINES & CHANGE OIL FILTERS. DRAIN ANTI-FREEZE. BLOW HYDROMATIC & DRUM OUT

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.-SEC | W.L.-C.C. | FLTR. CK | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER

FOOTAGE FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 74 DATE March 7/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Candel Oil	Candel Et Al Texaco Artic Red	FH7	Artic Red River		N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D. — TYPE THD. X.H.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukasewich

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA500	16
2.	EMSCO	DA500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K55	23	889		884	700 SKS cement 2% CaCl2

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.

NO. OF LINES 4 SIZE 1¼

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 74

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Donald Hurst

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	Rig Service
12¹⁵	6³⁰	6¼	WOC.
6³⁰	6⁴⁵	¼	Run in Felt Plug #3 @ 842.
6⁴⁵	8⁰⁰	1¼	Lay Down Drill Pipe.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ray Fuston

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	Rig Service
8¹⁵			Lay Down BOP's + Clean up Mud Pumps
			#1 Mud Pump & Loaded w/ cement Digging Same out.
	8⁰⁰	7¾	Tear out & Lay Down BOPs

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Dave Fryfogle

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
~~4⁰⁰~~	~~16⁰⁰~~	~~8~~	
4⁰⁰	7⁰⁰	3	Dig Down Cellar Cut off Casing Drop 6 Sacks Cement in Weld Plate on. Rig Released @ 7⁰⁰ PM. Mar 7/73 J.L.
7⁰⁰	12⁰⁰	5	Tearing out Rig

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 73 — DATE Mar 6/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Candel Oil	Candel Ft. Hl. Texaco Artic Red		Artic Red River		N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lubisseuch

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D., TYPE THD. X.H.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA500	
2.	Emsco		
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K55	23	889		885	750 SKS Cement 2% CaCl2.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
H.S. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
88	STANDS D.P.	1980.50 FT.
1	SINGLES D.P.	778 FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	20.00 FT.
	TOTAL	2000 FT.
WT. OF STRING	38,000	LBS.

BIT RECORD: BIT NO., SIZE, MFG., TYPE, NOZZLE NO., NOZZLE SIZE, SER. NO., DEPTH OUT, DEPTH IN, TOTAL FTG., TOTAL HR. RUN, COND. OF BIT, REAMER NO., REAMER TYPE

MUD RECORD

TIME	6.00
WEIGHT	9.8
VISC.-SEC	190
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: Donald Hatfield

FOOTAGE FROM 7780. TO

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	Rig Ser. / Bop's
12.15	4.30	4¼	Hoist pipe out Strap back to 2000'
4.30	6.30	2	Circ Rig up to Run Plug # 2.
6.30	7.00	½	Run Plug # 2 - Interval 2000' - 1850' 150'. BJ Cemented w/ 96 sacks Normal Portland + 3% CaCl2. Displaced Plug w/ 26 Bbls mud Plug in Place @ 6.52 p.m.
7.00	8.00	1	Hoist Pipe & Lay Down Same.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO., SIZE, MFG., TYPE, NOZZLE NO., NOZZLE SIZE, SER. NO., DEPTH OUT, DEPTH IN, TOTAL FTG., TOTAL HR. RUN, COND. OF BIT, REAMER NO., REAMER TYPE

MUD RECORD: TIME, WEIGHT, VISC.-SEC, W.L.-C.C., FLTR. CK., PH, SD. CONT. %, PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: Ray Justus

FOOTAGE FROM TO

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	¼	Rig Service check BOPs
8.15	10.00	1¾	Circ out contaminated mud
10.00	11.00	1	Lay down 54 singles
11.00	11.30	½	Run in 16 stands of pipe
11.30	1.00	1½	Circ out contaminated mud
1.00	2.00	1	Lay down 44 singles
2.00	2.15	¼	Run in 15 stands of pipe
2.15	3.15	1	Circ out contaminated mud
3.15	4.00	¾	Lay down 45 singles

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
9	STANDS D.P.	FT.
2	SINGLES D.P.	933 FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	26 FT.
	TOTAL	FT.
WT. OF STRING	28,000	LBS.

BIT RECORD: BIT NO., SIZE, MFG., TYPE, NOZZLE NO., NOZZLE SIZE, SER. NO., DEPTH OUT, DEPTH IN, TOTAL FTG., TOTAL HR. RUN, COND. OF BIT, REAMER NO., REAMER TYPE

MUD RECORD: TIME, WEIGHT, VISC.-SEC, W.L.-C.C., FLTR. CK, PH, SD. CONT. %, PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: Donald Hatfield

FOOTAGE FROM TO

DEVIATION RECORD: DEPTH / DEV. / DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.15	¼	Rig Service + check BOPs
4.15	4.30	¼	Run in 14 stands of pipe
4.30	5.30	1	Circ out contaminated mud + cement in Ape
5.30	6.30	1	Lay down 14 stds
6.30	7.00	½	Run in Tag Plug # 2 @ 1805'
7.00	10.30	3½	Hoist pipe to 933 Circ. & Rig'd water.
10.30	10.45	¼	Run Plug # 3 - 933-833-100' BJ. Cemented w/ 60 SKS Portland Normal Plus 3% CaCl2 Displaced w/ 11.8 Bbl water Plug in Place @ 10.45 pm 3-6-73 G.L.

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 72 DATE Mar 5/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Cavdel Oil	Cavdel Et. AL. Texaco Artic Red	F-47	Artic Red River		N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D., TYPE THD. X.H.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Imbrascemundo

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16
2.	Emsco	DA 500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36 K55	23	889		884	750 SKS Cement
							2% CaCl2

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		4¼	
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON ~~ORDERS~~ Orders	7¾	3¾	
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	16	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1⅛

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 72

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.		
76	STANDS D.P.	FT.
2	SINGLES D.P.	1220.37 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.70 FT.
1	Bit sub	2.97 FT.
	KELLY DOWN	40.00 FT.
	TOTAL	7780 FT.

WT. OF STRING 138,000 LBS.

BIT RECORD

BIT NO.	12
SIZE	8¾
MFG.	HW
TYPE	J-44
NOZZLE NO.	3
NOZZLE SIZE	16
SER. NO.	DP375
DEPTH OUT	
DEPTH IN	7780
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	3⁰⁰	5⁰⁰	7⁰⁰
WEIGHT	9.8	9.8	9.8
VISC.-SEC	430	430	480
W.L.-C.C.	6.4	6.4	6.4
FLTR. CK.	2/32	2/32	2/32
PH	10.5	10.5	10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Donald Hunt

FOOTAGE

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780							1550	5½	60	5½	60	
										On Tanks		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12⁵	¼	Rig Serv / Bop's
12⁵	8⁰⁰	7¾	W.O.O.

DAY TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.		
76	STANDS D.P.	FT.
2	SINGLES D.P.	1220.37 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	Bit Sub	2.97 FT.
	KELLY DOWN	13.85 FT.
	TOTAL	7780.07 FT.

WT. OF STRING 140,000 LBS.

BIT RECORD

BIT NO.	12
SIZE	8¾
MFG.	HW
TYPE	J-44
NOZZLE NO.	3
NOZZLE SIZE	16
SER. NO.	DP375
DEPTH OUT	
DEPTH IN	7780
TOTAL FTG.	—
TOTAL HR. RUN	—
COND. OF BIT	G.R.
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8⁰⁰	17⁰⁰	2⁰⁰
WEIGHT	9.8	9.8	9.8
VISC.-SEC	435	430	435
W.L.-C.C.	6.0	6.0	6.0
FLTR. CK.	2/32	2/32	2/32
PH	10.5	10.5	10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ray Lester

FOOTAGE

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780							1200	5½	40			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	RIG SERVICE + CHECK BOPS
8¹⁵	10³⁰	2¼	CIRC & W/O ORDERS
10³⁰	11³⁰	1	TRIP OUT 20 STANDS
11³⁰	12³⁰	1	W/O ORDERS & WORK PIPE
12³⁰	1³⁰	1	RUN BACK TO BOTTOM
1³⁰	1⁴⁵	¼	CIRC + W/O ORDERS
1⁴⁵	4⁰⁰	2¼	TRIP OUT OF HOLE

EVENING TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.		
~~82~~ 76	STANDS D.P.	FT.
2	SINGLES D.P.	~~7622.37~~ 7795.27 FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	25.00 FT.
	TOTAL	7780.27 FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			10³⁰ Pm.
WEIGHT			9.8
VISC.-SEC			450
W.L.-C.C.			6.0
FLTR. CK			4/32
PH			10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ray Lester

FOOTAGE

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780	TD											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	RIG SERVICE + CHECK BOPS
4¹⁵	7⁰⁰	2¾	LAY DRILL COLLARS DOWN ~~STRAP~~ COLLAR ASSEMBLY
7⁰⁰	10⁰⁰	3	RUN IN OPEN END
10⁰⁰	11³⁰	1½	Circ Rig up to Cement.
11³⁰	12⁰⁰	½	Run Plug #1
			INTERVAL 7780-7550 : 96 SACKS
			PORTLAND NORMAL CEMENTED BY B.J.
			Displace Plug w/ 106.5 BBL MUD Plug in Place @ 12⁰³ AM. 3-6-73

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 70 DATE Mar 3/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Candel Oil	Candel Et Al Texaco Artic Red	F47	Artic Red River		N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D. — TYPE THD. X.H.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16
2.	Emsco	DA 500	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K55	23	889		884	350 SKS Cement
							2% CaCl²

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	3		
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING	4¾	7¾	7¾
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8		

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1⅛

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
26	STANDS D.P.		FT.
2	SINGLES D.P.	72 20.31	FT.
18	D.C. 6¼ I.D. 6¼ O.D.	540.55	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	1.50	FT.
1	BIT OR C.B.	2.97	FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.

WT. OF STRING 140,000 LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FL TR. CK.	0
PH	
SD. CONT. %	TR
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Donald Pittard

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780				TRIP								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	Rig Ser / Bop's
12¹⁵	3¹⁵	3	Hoist to Log Show hole good
3¹⁵	8⁰⁰	4¾	Rig up to log & Log-W/(Dual Induction) Tag Bottom 7786
			All chains in Drawworks & Compounds OK.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FL TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Ray Kesters

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	RIG SERVICE — CHECK BOPS
8¹⁵	4⁰⁰	7¾	LOGGING Log #2 Dual Induction
			Log #3 Side-Wall Neutron
			Log #4 Density

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
26	STANDS D.P.		FT.
2	SINGLES D.P.	72 20.31	FT.
18	D.C. 6¼ I.D. 6¼ O.D.	540.55	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	1.50	FT.
	BIT OR C.B.		FT.
1	B.T. Sub	2.97	FT.
	KELLY DOWN		FT.
	TOTAL	7780	FT.

WT. OF STRING 140,000 LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FL TR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	RIG SERVICE
4¹⁵	12⁰⁰	7¾	LOGGING

APPROVED

APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 71 DATE May 4/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Candel Oil	Candel Ft. Sl Texaco Atlic Rider	F-47	Atlic Red River		N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D. — TYPE THD. X.H

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jason Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 500	16
2.	EMSCO	DA 500	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
8⅝		K55	23	889		884	220 SKS Cement
							2 DO CACL 4

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING		7¾	7¼
TRIPS			
LUBRICATE RIG		¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS		8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK; HRS. W/DP; HRS. WO/DP; HRS. STANDBY; TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.; NO. OF LINES 8 SIZE 1⅛; FEET SLIPPED; FEET CUT OFF; PRESENT LENGTH; TON MI. OR TRIPS SINCE LAST CUT; CUMULATIVE TON MI. OR TRIPS; NO. OF DAYS FROM SPUD; CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
76	STANDS D.P.	
2	SINGLES D.P.	7220.37 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.25 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	14 FT.
	TOTAL	7780 FT.

WT. OF STRING 138,000 LBS.

BIT RECORD

BIT NO.	12
SIZE	8¾
MFG.	H.W
TYPE	J-44
NOZZLE NO.	3
NOZZLE SIZE	16
SER. NO.	DP325
DEPTH OUT	
DEPTH IN	7780
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	9.8
VISC.-SEC	600+
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: Donald O'Hurley

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780				Fuel 6½ pf.			1450	5½	41	5½		
										ON Tanks		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	Rigged / Bop's
1215	3⁴⁵	3½	Logging + Rigout Loggers.
3⁴⁵	5⁴⁵	2	Ran in w/ J44 Bit #12
5⁴⁵	8⁰⁰	2¼	Circ - W.O.O.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
76	STANDS D.P.	
2	SINGLES D.P.	7220.37 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	13.86 FT.
	TOTAL	7780 FT.

WT. OF STRING 140,000 LBS.

BIT RECORD

BIT NO.	12
SIZE	8¾
MFG.	HW
TYPE	J-44
NOZZLE NO.	3
NOZZLE SIZE	16
SER. NO.	DP375
DEPTH OUT	
DEPTH IN	7780
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	9⁰⁰	11⁰⁰	2⁰⁰
WEIGHT	9.8	9.7	9.7
VISC.-SEC	600+	375	285
W.L.-C.C.	6.2	6.4	6.4
FLTR. CK.	2/32	2/32	2/32
PH	10.5	10.5	10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED: CEL 1600 #; WATER 1 STREAM

DRILLER: Ray Lester

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780							1400	5½	40			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	RIG SERVICE + CHECK BOP'S PIPE RAMS O.K.
8¹⁵	4⁰⁰	7¾	CIRC + W/O ORDERS
			HELD SAFETY MEETING

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	12
SIZE	8¾
MFG.	HW
TYPE	J-44
NOZZLE NO.	3
NOZZLE SIZE	16
SER. NO.	DP375
DEPTH OUT	
DEPTH IN	7780
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4⁰⁰	8:30	12⁰⁰
WEIGHT	9.8	9.8	9.8
VISC.-SEC	430	480	450
W.L.-C.C.	6.2	6.	6.2
FLTR. CK	3/32	2/32	2/32
PH	10.5	10.5	10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

DRILLER: Donald O'Hurley

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780							1800	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	RIG SERVICE + CHECK BOP'S
4¹⁵	12⁰⁰	7¾	CIRC + W/O ORDERS

8

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 69 — DATE Mar 2/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Candel Oil	Candel & Al Texaco Artic Red River	F-17	Artic Red River		N.W.T.

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT	TYPE THD.
Jennings International Drilling, Division of Pancana Industries Ltd.	9	2	4½	6 ½ O.D.	X.H.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA500	16
2.	Emsco	DA500	16
3.			

LAST CASING TUBING OR LINER

SIZE	M.Y.E	WT. & GR.	NO. JOINTS	FEET	RKB TO CSG. HD.	SET AT	REMARKS
7⅝		29.7	23	944		944' 20 sks Cement	
						9⅞ CaCl₂	

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: James Bailey

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING		1	
TRIPS		3¾	
LUBRICATE RIG		¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING		3	
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS		8	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
76	STANDS D.P.	FT.
2	SINGLES D.P.	7220.37 FT.
18	D.C. I.D. 6 ½ O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	B.S. Sub	2.97 FT.
	KELLY DOWN	14.00 FT.
	TOTAL	7780 FT.

WT. OF STRING 1 LBS.

BIT RECORD

BIT NO.		RR 10
SIZE		8¾
MFG.		H.W
TYPE		X1G
NOZZLE	NO.	
	SIZE	W.I
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	4.00	6.00	7.00
WEIGHT	9.4	9.8	9.8
VISC.-SEC	480	230	230
W.L.-C.C.	66	6.6	6.4
FLTR. CK.	3/32	3/32	3/32
PH	10.5	10.5	10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Donald A. Hunt

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SOLIDS FANGLP COMPOS
7780				Evel 2'6.			1700	5½	6	5½	4½	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	Rig Serv Eqp Br. dec @ 6500.
12.15	2.15	2	Run in pipe picked up 24 Singles
2.15	8.00	5¾	Circ. Cond Mud. Clean Pits

8

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
76	STANDS D.P.	FT.
2	SINGLES D.P.	7220.37 FT.
18	D.C. I.D. 6¼ O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	Bit Sub	2.97 FT.
	KELLY DOWN	14.00 FT.
	TOTAL	7780 FT.

WT. OF STRING 135000 LBS.

BIT RECORD

BIT NO.		RR 10
SIZE		8¾
MFG.		HW
TYPE		X1G
NOZZLE	NO.	NONE
	SIZE	
SER. NO.		44636
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9.00
WEIGHT	9.7
VISC.-SEC	195
W.L.-C.C.	7.2
FLTR. CK.	2/32
PH	9.5
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ray J. Lesbas

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SOLIDS FANGLP COMPOS

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	¼	RIG SERVICE + CHECK BOPS BLIND RAMS OK
8.15	9.15	1	CIRC TO CONDITION HOLE
9.15	1.00	3¾	HOIST PIPE OUT OF HOLE SLOW-LY
1.00	4.00	3	RIG UP SLUMBERGER TO LOG #1 DUAL INDUCTION-H.I
			BRIDGE @ 6700

CHANGE OIL-FILTERS IN ALL MOTORS

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.		#10-RR
SIZE		8¾
MFG.		HW
TYPE		X1G
NOZZLE	NO.	NONE
	SIZE	
SER. NO.		44636
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BEK.	40 Bags		

DRILLER: Donald A. Hunt

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SOLIDS FANGLP COMPOS

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.15	¼	RIG SERVICE
4.15	6.30	2¼	RUN PIPE IN HOLE TO CLEAN OUT BRIDGE
6.30	6.45	¼	CLEAN OUT BRIDGE @ 6720'
6.45	7.15	½	RUN REMAINDER OF PIPE TO 7720'
7.15	12.00	4¾	CIRC + CONDITION MUD

8

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 68 — DATE Mar 1/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Candel Oil	Candel Etal Texaco Artic Red	F-117	Artic Red River.		N. W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D. — TYPE THD. X.H

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jarro. Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA500	16
2.	EMSCO	DA500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36 K55	23	889		884	

MORNING TOUR

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	5¾		
CONDITIONING MUD & CIRCULATING		3	
TRIPS	2	4¾	4¼
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS		8	

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
76	STANDS D.P.	
2	SINGLES D.P.	7220.31 FT.
18	D.C. 6¼ I.D. 6¼ O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	Bitsub	2.97 FT.
	KELLY DOWN	14.00 FT.
	TOTAL	7780 FT.

WT. OF STRING 132,000 LBS.

BIT RECORD

BIT NO.		11
SIZE		8¾
MFG.		H.W
TYPE		XDV
NOZZLE	NO.	3
	SIZE	16
SER. NO.		45744
DEPTH OUT		
DEPTH IN		7780
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		O.B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	12⁰⁰	3⁰⁰	5:00
WEIGHT	9.7	9.8	9.7+
VISC.-SEC	750	660	205
W.L.-C.C.	6	5.6	6.6
FLTR. CK.	2/32	2/32	2/32
PH	10.5	10.5	10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Donald Ekert.

FOOTAGE

FROM	TO	DR.,D RM.,R CORE..C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780				Fuel 3'8"	54	5	1250	5½	60	0 Tanks		
										5½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	12¹⁵	¼	Rig Serv / Bop's
12¹⁵			Clean to Bottom slow w/ 5000 wt.
	6⁰⁰	5¾	Picked up 19 singles C.I.C. cond. Mud.
6⁰⁰	8⁰⁰	2	Hoist out to log. Pump out 14 singles
		8	

CHECK BRAKE LINKAGES + DRILLING LINE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
76	STANDS D.P.	
2	SINGLES D.P.	7220.31 FT.
18	D.C. 6¼ I.D. 6¼ O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	Bit Sub	2.97 FT.
	KELLY DOWN	14.00 FT.
	TOTAL	7780 FT.

WT. OF STRING 130,000 LBS.

BIT RECORD

BIT NO.		11
SIZE		8¾
MFG.		HW
TYPE		XDV
NOZZLE	NO.	3
	SIZE	16
SER. NO.		45744
DEPTH OUT		
DEPTH IN		7780
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		O.B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	12⁰⁰	2⁰⁰
WEIGHT	9⁺	9.7
VISC.-SEC	230	230
W.L.-C.C.	6.8	6.8
FLTR. CK.	2/32	2/32
PH	10.5	10.5
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ray J Lestus

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	RIG SERVICE – CHECK BOPS HEAD Blowout DRILL
8¹⁵	10⁰⁰	1¾	PUMP OUT 6 MORE SINGLES – HOIST 3 STANDS – FREE
10⁰⁰	11⁰⁰	1	RUN PIPE BACK TO BOTTOM H.T. BRIDGE @ 7700' (6880')
11⁰⁰	12⁰⁰	1	CLEAN TO BOTTOM
12⁰⁰	2⁰⁰	2	CIRC TO CONDITION HOLE
2⁰⁰	4⁰⁰	2	TRIP TO LOG PUMP OUT SINGLES 17 SINGLES

CHECK MOTOR MILLS O.K.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
76	STANDS D.P.	
2	SINGLES D.P.	7220.31 FT.
18	D.C. 6¼ I.D. 6¼ O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	Bit Sub	2.97 FT.
	KELLY DOWN	14.00 FT.
	TOTAL	7780 FT.

WT. OF STRING 132,000 LBS.

BIT RECORD

BIT NO.		11	RR10
SIZE		8¾	8¾
MFG.		H.W	H.W
TYPE		XDV	X1C
NOZZLE	NO.	3	1
	SIZE	16	Nil
SER. NO.		45744	44636
DEPTH OUT		7780	
DEPTH IN		7780	
TOTAL FTG.			
TOTAL HR. RUN			
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER:

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	RIG SERVICE – CHECK BOPS
4¹⁵	5³⁰	1¼	PUMP OUT 9 SINGLES
5³⁰	8³⁰	3	HOIST PIPE OUT OF HOLE
8³⁰	10⁴⁵	2¼	Rig up to Log & Logging w/ Caliper + 6445
10⁴⁵	11¹⁵	½	R.I.H. w/ 4½ x 4½ D.R. Ab's etc.
11¹⁵	12⁰⁰	¾	Slip & Cut 49' DP 11 Line

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 67 — DATE Feb 22/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Candel Oil	Candel Oil Et Al Texaco Artic Red	E-47	Artic Red River	N.W.T	

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 2 1/2 TYPE THD. X.H — TOOL JOINT 6 1/4 O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jason Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 500	16
2.	EMSCO	DA 500	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# K55	23	889		884	700 SKS Cement 2% CACL4

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	7 3/4		
TRIPS		4 1/2	
LUBRICATE RIG	1/4	1/4	1/4
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING		3 1/4	
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS		8	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
76	STANDS D.P.	FT.
2	SINGLES D.P.	72.20.37 FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	FT.
1	Bit Sub	2.97 FT.
	KELLY DOWN	7280 FT.
	TOTAL	1' FT.

WT. O. STRING 135,000 LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1.00	3 ~~00~~	~~7~~ 00
WEIGHT	10.2	10.1	9.9
VISC.-SEC	380	325	500+
W.L.-C.C.	5.4		
FL TR. CK.			
PH	9.		10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	135 SKS		
Caustic ~~Soda~~	13 SKS.		
2" stream Water.			
DRILLER	Donald Hunt		

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.
7780			

FORMATION (SHOW CORE RECOVERY): Fuel 5½ ft.

ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
		1200	5½	60	5½	ON Tanks	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	1/4	Rig Ser / Bop's
12 15	8 00	7 3/4	Circ cond Mud Work pipe every ½ hr.
		8	
			dumped 4 Mud Tanks.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
76	STANDS D.P.	FT.
2	SINGLES D.P.	7220.37 FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
#	BIT OR C.B.	# FT.
1	DIT Sub	2.97 FT.
	KELLY DOWN	14.70 FT.
	TOTAL	7780.00 FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	11
SIZE	8 3/4
MFG.	HW
TYPE	XDV
NOZZLE NO.	3
NOZZLE SIZE	16
SER. NO.	45744
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FL TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Ray J Heatherington

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.
7780			

FORMATION (SHOW CORE RECOVERY):

ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
			5½		5½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	8 15	1/4	Rig Service + check Bops
8 15	11 15	3	Hoist Pipe out of Hole
11 15	12 00	3/4	Rig up Logging Equipment
12 00	2 30	2 1/2	Run Log #1 Sonic Log - Gamma Ray + Pulled Back to
2 30	4 00	1 1/2	Run Pipe in Hole to clean out Bridge @ 7200' (Unable to Reach Bottom)

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6 00
WEIGHT	10.0
VISC.-SEC	500+
W.L.-C.C.	
FL TR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Don Hunt

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.
7780			

FORMATION (SHOW CORE RECOVERY):

ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	1/4	Rig Service + check Bops
4 15	5 15	1	Finish Running In Hole to 7150'
5 15	8 00	2 3/4	Break Circ + Circ Heavy Mud out of Hole
8 00	9 00	1	Replace Kell, Hose.
9 00	12 00	3	Cir Ream 550' to Bottom.

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 66 — DATE Feb 27/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Candel Oil	CANDEL ETAL TEXACO ARTIC Rd	E47	ARTIC Red River		N.W.T.

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
Jennings International Drilling, Division of Pancana Industries Ltd.	9	7	4½	6¼	X H

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Farron Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 500	16
2.	EMSCO	DA 500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# K55	23	889		884	750 SKS Cement 2% CaCL7

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING		4¼	
TRIPS		3	
LUBRICATE RIG		¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE		½	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS		8	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
76	STANDS D.P.	FT.
2	SINGLES D.P.	72.20 FT.
18	D.C. 6" I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	Bit Sub	2.97 FT.
	KELLY DOWN	14.00 FT.
	TOTAL	7780 FT.
WT. OF STRING		130,000 LBS.

BIT RECORD

BIT NO.		10
SIZE		8¾
MFG.		H.W.
TYPE		X16
NOZZLE	NO.	2 1
	SIZE	5 16
SER. NO.		44636
DEPTH OUT		
DEPTH IN		7780
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		O B.
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	2:30		7:00
WEIGHT	10.2		10.1
VISC.-SEC	500		410
W.L.-C.C.	4.8	5.	5.2
FL.TR. CK.	2/32		2/32
PH	9.5		9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel			
Caustic	100#		

DRILLER

FOOTAGE

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780				Fuel 6½ #/	54	35/0	1610	5½	60	5½		
										on	tanks	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	Rig Ser ✓ BOPs
1215			Hoist to 6558 & Run in Bridge @ 7000
	230	1¾	7656 - Pump out 5 singles
230	430	2	Clean to Bot from 7656 to 7780. Tq 1000 Rot 54 RPM
430	730	3	CIRC cond Hole Mix Mud build Volume
730	800	½	Hoist Bit # 10
		8	

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
76	STANDS D.P.	FT.
2	SINGLES D.P.	722.31 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	13¼ Sub	2.97 FT.
	KELLY DOWN	14.00 FT.
	TOTAL	7780.00 FT.
WT. OF STRING		130,000 LBS.

BIT RECORD

BIT NO.		10
SIZE		8¾
MFG.		HW
TYPE		X16
NOZZLE	NO.	1 2
	SIZE	16 16
SER. NO.		44636
DEPTH OUT		7780
DEPTH IN		7780
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		2.2.2.
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9:00		
WEIGHT	10.1		
VISC.-SEC	450		
W.L.-C.C.	5.8		
FL.TR. CK.	2/32		
PH	9.5		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Ray Lutes

FOOTAGE

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼	RIG SERVICE + CHECK BOPS
815	1230	4¼	PUMP SINGLES OUT OF TIGHT HOLE FROM 7600'
1230	330	3	PULL PIPE OUT OF HOLE ON BANK
330	400	½	CUT + SLIP 441 Ft. BAD LINE VERY BAD LINE
		8	

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE	NO.	
	SIZE	
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	11:00		
WEIGHT			
VISC.-SEC	480		
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	RIG SERVICE + CHECK BOPs - BLIND RAMS OK
415	615	2	FINISH CUTTING + SLIPPING LINE
615	915	3	RUN IN OPEN END WITH 6¼ COLLARS + PIPE SLOW
915	1015	1	PICK UP SINGLES 15.
1015	1200	1¾	CIRC 50' off Bottom
		8	

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 65 — DATE Feb 26/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ERPL TEXACO ARCTIC RED F-47	F-47	ARCTIC RED RIVER		N.W.T.

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT	TYPE THD.
Jennings International Drilling, Division of Pancana Industries Ltd.	9	2	4 1/2	6 1/4 O.D.	XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: James Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# K-55	23	889		884	750 SKS Cement 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
Cleaning Reaming	7/4		
CONDITIONING MUD & CIRCULATING	3/4		
TRIPS	1/2		
LUBRICATE RIG	1/4		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8		

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 8	SIZE 1/4
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		FT.
76	STANDS D.P.		
2	SINGLES D.P.	7220.37	FT.
18	D.C. 6 1/4 I.D. O.D.	540.55	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	1.50	FT.
	BIT OR C.B.	.75	FT.
1	BIT SUB	2.97	FT.
	KELLY DOWN	13.86	FT.
	TOTAL	7780.	FT.
WT. OF STRING		128,000	LBS.

BIT RECORD

BIT NO.		10
SIZE		8 3/4
MFG.		H.W.
TYPE		X1G
NOZZLE	NO.	1 2 1
	SIZE	16 16 15
SER. NO.		44636
DEPTH OUT		
DEPTH IN		7780
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	12 00	2 00
WEIGHT	9.9	
VISC.-SEC	50	
W.L.-C.C.	4.8	
FLTR. CK.	2/32	
PH	9.0	
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Dave Lupas

FOOTAGE

FROM	TO	DR. D RM. R CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780				FUEL 8'								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	1/4	Rig Ser. & Chk BOP's
12 15	1 15	1	Circ & Condition Hole
1 15	6 45	5 1/2	Trip out 40 std. Tight Hole Pump out Singles
6 45	7 15	1/2	Fire
7 15	8 00	3/4	Trip out in Hole

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		FT.
76	STANDS D.P.		
2	SINGLES D.P.	7220.37	FT.
18	D.C. 6 1/4 I.D. O.D.	540.55	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	1.50	FT.
	BIT OR C.B.	.75	FT.
1	BIT SUB	2.97	FT.
	KELLY DOWN	14.00	FT.
	TOTAL	7780	FT.
WT. OF STRING		130,000	LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE	NO.	
	SIZE	
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	10:00	3:30
WEIGHT		
VISC.-SEC	500	375
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1500#		
Cont.	100#		

DRILLER: Donald Hunt

FOOTAGE

FROM	TO	DR. D RM. R CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780					54	90/30	1400	5 1/2	60	5 1/2	On Tanks	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	8 15	1/4	Rig Serv Bop's
8 15	8 45	1/2	Finish Running in Bridge aft @ 7216
8 45	4 00	7 1/4	Clean in to Bottom.

8

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		FT.
74	STANDS D.P.		
1	SINGLES D.P.	7000.82	FT.
18	D.C. 6 1/4 I.D. O.D.	540.55	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	1.50	FT.
1	BIT OR C.B.	.75	FT.
1	BIT SUB	2.97	FT.
	KELLY DOWN	9.36	FT.
	TOTAL	7556.00	FT.
WT. OF STRING		130,000	LBS.

BIT RECORD

BIT NO.		10
SIZE		8 3/4
MFG.		HW
TYPE		X1G
NOZZLE	NO.	1 2
	SIZE	16 15
SER. NO.		44636
DEPTH OUT		
DEPTH IN		7780
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	5 00	8 00	10 00
WEIGHT	10.2	10.2	10.2
VISC.-SEC	300	400	400+
W.L.-C.C.	5.4	6.0	6.0
FLTR. CK	3/32	3/32	3/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CEL	2200#		

DRILLER: Ray Lustus

FOOTAGE

FROM	TO	DR. D RM. R CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780					54	5m	1800	5 1/2	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	1/4	RIG SERVICE + CHECK BOPs
4 15	5 00	3/4	CLEAN HOLE TO BOTTOM
5 00	8 15	3 1/4	CIRC ON BOTTOM
8 15	10 00	1 3/4	PULL 6 STANDS OUT OF HOLE - PUMP OUT 7 SINGLES
~~10 00~~			~~CIRC OUT BRIDGE @ 7300 - 6744~~
10 00	11 00	1	PULL 6 STANDS FREE
11 00	12 00	1	RUN BACK IN HOLE 12 STANDS

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 64 — DATE FEB 25/77

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-47

WELL NO. F-47 | FIELD OR DIST. ARCTIC RED RIVER | COUNTY | STATE N.W.T.

CONTRACTOR: Jennings International Drilling — Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ | TOOL JOINT 6 1/4 O.D. | TYPE THD. X H

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Farren Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 500	16"
2.	EMSCO	DA 500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K-55	23	884		884	750 SKS Cement 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	1/4		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1 1/8

FEET SLIPPED 49'

FEET CUT OFF 49

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 64

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
	WT. OF STRING	LBS.

BIT RECORD: BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.-SEC | W.L.-C.C. | FLTR. CK. | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER Dave Fryfogle

FOOTAGE: FROM 7780 | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | S.P.M. | PUMP NO. LINER SIZE | S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	1/4	RIG SER & CK B.O.P's
12 15	4 15	4	TRIP OUT
4 15	5 45	1 1/2	CHANGE KELLY BUSHING & SWIVEL PACKING
5 45	6 45	1	SLIP & CUT LINE
6 45	8 00	1 1/4	RUN IN

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
	WT. OF STRING	LBS.

BIT RECORD: BIT NO. 10 | SIZE 8 3/4 | MFG. HW | TYPE X1C | NOZZLE NO. 2 1 | NOZZLE SIZE 2 1/16 | SER. NO. | DEPTH OUT | DEPTH IN 7780 | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT 0 B | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.-SEC | W.L.-C.C. | FLTR. CK. | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER Dave Fryfogle

FOOTAGE: FROM 7780 | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. | PUMP NO. | METHOD RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	8 15	1/4	Rig Seal Bop's
8 15	8 45	1/2	Rn in Hit bridge @ 5869
8 45	4 00	7 1/4	Clean to Bottom.
		8	

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
76	STANDS D.P.		FT.
2	SINGLES D.P.	722.37	FT.
	D.C. I.D. O.D.		FT.
18	D.C. 6 1/4 I.D. O.D.	540.55	FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUB 4 O.D.	1.50	FT.
	BIT OR C.B.	.75	FT.
1	BIT SUB	2.97	FT.
	KELLY DOWN	14.00	FT.
	TOTAL	7780	FT.
	WT. OF STRING	128,000	LBS.

BIT RECORD: BIT NO. 10 | SIZE 8 3/4 | MFG. HW | TYPE X16 | NOZZLE NO. 4 1 | NOZZLE SIZE 15/16 | SER. NO. | DEPTH OUT | DEPTH IN 7780 | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT 0/B | REAMER NO. | REAMER TYPE

MUD RECORD

TIME	8 00	10 00
WEIGHT	9.9	9.9
VISC.-SEC	400	520
W.L.-C.C.	4.6	4.8
FLTR. CK	2/32	2/32
PH	8.5	8.5
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	100#		
PELTEX	50#		
GEL	200#		

DRILLER Dave Fryfogle

FOOTAGE: FROM 7780 | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE 5½ | S.P.M. 60 | PUMP NO. | METHOD RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	1/4	Rig Seal Bop's
4 15	10 15	6	Finish Cleaning to Bottom
10 15	12 00	1 3/4	Circ on & Condition Hole on Bottom

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 63 — DATE FEB 24/72

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-47

WELL NO. F-47 | FIELD OR DIST. ARCTIC RED RIVER | COUNTY | STATE N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jason Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 500	16"
2	EMSCO	DA 500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K-55	23	889		884	750 SKS CEMENT
							2% CACI

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1 1/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 63

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
76	STANDS D.P.	FT.
2	SINGLES D.P.	7220.37 FT.
	D.C. I.D. O.D.	FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS O/O O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	14.00 FT.
	TOTAL	7780 FT.
WT. OF STRING		128,000 LBS.

BIT RECORD

BIT NO.	9	
SIZE	8 3/4	
MFG.	HW	
TYPE	J-44	
NOZZLE NO.	3	
NOZZLE SIZE	15	
SER. NO.	EM-282	
DEPTH OUT		
DEPTH IN	7380	
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1⁰⁰	3⁰⁰	7⁰⁰
WEIGHT	10.	10.	10.0
VISC.-SEC	220	250	285
W.L.-C.C.	5.0	5.1	5.0
FLTR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	9000#		

DRILLER: Dave Fryfogle

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780				FUEL 3½ FEET				5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	RIG SER & V BOP'S
12¹⁵	6¹⁵	6	CLEAN TO BOTTOM 5930 - 7780
6¹⁵	8⁰⁰	1¾	CIR ON BOTTOM

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
76	STANDS D.P.	FT.
2	SINGLES D.P.	7220.37 FT.
	D.C. I.D. O.D.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS O/O O.D.	1.50 FT.
	BIT OR C.B.	.25 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	14.00 FT.
	TOTAL	7780 FT.
WT. OF STRING		128.10 LBS.

BIT RECORD

BIT NO.	9	
SIZE	8 3/4	
MFG.	H.W	
TYPE	J-44	
NOZZLE NO.	3	
NOZZLE SIZE	15	
SER. NO.	EM-282	
DEPTH OUT		
DEPTH IN	7380	
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	10⁰⁰	2⁰⁰	4⁰⁰
WEIGHT	10	10	10
VISC.-SEC	390	400	420
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	9200 LBS		
Caustic	450 LBS		

DRILLER: Donald Bottrell

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	Rig Ser / Bop's & Motor Shuts
8¹⁵	1⁴⁵	5½	Circ cond Mud Build Volume WORK pipe every 15 min
1⁴⁵	2¹⁵	½	Hoist out 1 std Tight
2¹⁵	4⁰⁰	1¾	Circ Build Vis up. cond Hole.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	9	
SIZE	8 3/4	
MFG.	HW	
TYPE	J-44	
NOZZLE NO.	3	
NOZZLE SIZE	15	
SER. NO.	EM282	
DEPTH OUT		
DEPTH IN	7780	
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6⁰⁰	8⁰⁰
WEIGHT	10	10
VISC.-SEC	450	460
W.L.-C.C.	5.0	5.0
FLTR. CK	2/32	2/32
PH	9.0	9.0
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Dave Fryfogle

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	Rig Ser / Bop's
4¹⁵	6¹⁵	2	Circ cond Hole
6¹⁵	11¹⁵	5	~~TRIP OUT~~ / Pump out SINGLES 1 off bottom
11¹⁵	12⁰⁰	¾	TRIP out

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 62 — DATE FEB 23/72

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TENNECO ARCTIC RED F-47

WELL NO. F-47 — FIELD OR DIST. ARCTIC RED RIVER — COUNTY — STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO.

DRILL PIPE STRING: NO. 2, SIZE 4 1/2 — TOOL JOINT 6 1/4 O.D. — TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# K-55	23	889		884	150 sks Cement 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	7		7 3/4
TRIPS			
LUBRICATE RIG	1/4		1/4
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS			6

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 4	SIZE 1 1/8
FEET SLIPPED	49'
FEET CUT OFF	49'
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	62.
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR — NO. Bit #9

STANDS D.P.		FT.
SINGLES D.P.		FT.
D.C. I.D. O.D.		FT.
D.C. I.D. O.D.		FT.
STB. BODY O.D.		FT.
STB. BODY O.D.		FT.
RMR. BODY O.D.		FT.
SUBS O.D.		FT.
BIT OR C.B.		FT.
		FT.
KELLY DOWN		FT.
TOTAL		FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	9
SIZE	8 3/4
MFG.	H,W
TYPE	J-44
NOZZLE NO.	3
NOZZLE SIZE	15
SER. NO.	EM282
DEPTH OUT	
DEPTH IN	7780
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	-			
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Dave Frykas

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7780								5 1/2				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	1/4	Rig Ser & Bop's
1215	1230	1/4	Finish Trip out
1230	1345	1 1/4	Slip & Cut Line
1345	600	2 1/4	Work on Drawworks Clutch
600	800	2	Run in Hole

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR — NO.

STANDS D.P.		FT.
SINGLES D.P.		FT.
D.C. I.D. O.D.		FT.
D.C. I.D. O.D.		FT.
STB. BODY O.D.		FT.
STB. BODY O.D.		FT.
RMR. BODY O.D.		FT.
SUBS O.D.		FT.
BIT OR C.B.		FT.
		FT.
KELLY DOWN		FT.
TOTAL		FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	9
SIZE	8 3/4
MFG.	H W
TYPE	J-44
NOZZLE NO.	3
NOZZLE SIZE	15
SER. NO.	EM282
DEPTH OUT	
DEPTH IN	7780
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Donald Frost

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
	7780											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	1/4	Rig Ser / Bop's
815	830	1/4	Ream in w/ J-44
830	400	7 1/2	Clean from 5220 - 5648

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR — NO.

STANDS D.P.		FT.
SINGLES D.P.		FT.
D.C. I.D. O.D.		FT.
D.C. I.D. O.D.		FT.
STB. BODY O.D.		FT.
STB. BODY O.D.		FT.
RMR. BODY O.D.		FT.
SUBS O.D.		FT.
BIT OR C.B.		FT.
		FT.
KELLY DOWN		FT.
TOTAL	110,000	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	9
SIZE	8 3/4
MFG.	H W
TYPE	J-44
NOZZLE NO.	3
NOZZLE SIZE	15
SER. NO.	EM282
DEPTH OUT	
DEPTH IN	7780
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME				1100
WEIGHT				10.0
VISC.-SEC				200
W.L.-C.C.				
FLTR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1800#		

DRILLER Dave Frykas

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	1/4	Rig Ser / Bop's
415		7 3/4	Clean to Bottom From 5648 - 5938.

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 61 — DATE Feb 22/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-47

WELL NO. F-47 | FIELD OR DIST. ARCTIC RED RIVER | COUNTY | STATE N.W.T

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ | TOOL JOINT 6 1/4 O.D., TYPE THD. X H

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jason Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	Da 500	16"
2.	Emsco	Da 500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# K-55	23	889		884	750 SKS Cement 2% CACl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 8	SIZE 1 1/16
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD 61	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
76	STANDS D.P.	7158.49 FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS c/o O.D.	1.50 FT.
	BIT OR C.B.	75 FT.
1	BIT Sub	2.97 FT.
	KELLY DOWN	22.00 FT.
	TOTAL	7726 FT.
WT. OF STRING		132,000 LBS.

BIT RECORD

BIT NO.		8
SIZE		8 3/4
MFG.		HW
TYPE		J-33
NOZZLE	NO.	2 1
	SIZE	14 15
SER. NO.		KH-153
DEPTH OUT		
DEPTH IN		7300
TOTAL FTG.		426
TOTAL HR. RUN		97
COND. OF BIT		0/3
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	200	400	700
WEIGHT	10.0	10.0	10.0
VISC.-SEC	250	225	215
W.L.-C.C.	4.6	4.6	4.6
FLTR. CK.	2/32	2/32	2/32
PH	9.0	9	9
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2900#		

DRILLER: Dave Fryfogle

FOOTAGE 42'

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7684	7726	D		FUEL 6'	54	30M	1450	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	1/4	RIG SER. + V BOP'S
1215	800	7 3/4	DRILL 8 3/4" Hole

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
76	STANDS D.P.	7158.49 FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS c/o O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT Sub	2.97 FT.
	KELLY DOWN	40.00 FT.
	TOTAL	7744 FT.
WT. OF STRING		132,000 LBS.

BIT RECORD

BIT NO.		8
SIZE		8 3/4
MFG.		HW
TYPE		J-33
NOZZLE	NO.	2 1
	SIZE	14 15
SER. NO.		KH-153
DEPTH OUT		
DEPTH IN		7300
TOTAL FTG.		444
TOTAL HR. RUN		104 3/4
COND. OF BIT		0/3
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	900	1200	300
WEIGHT	10.0	10	10
VISC.-SEC	280	290	435
W.L.-C.C.	5.4	5.6	5.4
FLTR. CK.	2/32	2/32	2/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2500#		
Caustic	100#		

DRILLER: Donald Hunt

FOOTAGE 18'

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7726	7744	D			54	30	1500	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	1/4	RIG SER. & V BOP'S
815	700	7 3/4	DRILL 8 3/4 hole

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
76	STANDS D.P.	FT.
2	SINGLES D.P.	7220.38
	D.C. I.D. O.D.	FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS c/o O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT Sub	2.97 FT.
	KELLY DOWN	15.00 FT.
	TOTAL	7780 FT.
WT. OF STRING		132,000 LBS.

BIT RECORD

BIT NO.		8
SIZE		8 3/4
MFG.		HW
TYPE		J-33
NOZZLE	NO.	2 1
	SIZE	14 15
SER. NO.		KH-153
DEPTH OUT		7780
DEPTH IN		7300
TOTAL FTG.		480
TOTAL HR. RUN		108 1/4
COND. OF BIT		611
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	500		
WEIGHT	10		
VISC.-SEC	405		
W.L.-C.C.	5.4		
FLTR. CK.	2/32		
PH	9.5		
SD. CONT. %			
PRESSURE GRADIENT			

TRIP

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Dave Fryfogle

FOOTAGE 36'

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7744	7780	D										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
7780	7 3/4							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	1/4	RIG SER. & V BOP'S
415	745	3 1/2	DRILL 8 3/4 HOLE
745	800	1/4	DROP SURVEY
800	1200	4	TRIP out w/ BIT # 8 DOUBLE STRAP

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 60 — DATE Feb 21/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-47

WELL NO.: F-47 — FIELD OR DIST.: ARCTIC RED RIVER — COUNTY — STATE: N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO.: 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6 1/4 O.D. — TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jason Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# K-55	23	889		884	750 sks Cement
							2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7 3/4	7 3/4	5 3/4
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	1/4	1/4	1/4
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			2
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 4 — SIZE 1 1/2

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS ~~60~~

NO. OF DAYS FROM SPUD 60

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
25	STANDS D.P.	FT.
	SINGLES D.P.	FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/B O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	Bit Sub	2.97 FT.
	KELLY DOWN	11.00 FT.
	TOTAL	7620 FT.
WT. OF STRING	131000	LBS.

BIT RECORD

BIT NO.	7
SIZE	8 3/4
MFG.	H.W.
TYPE	J-33
NOZZLE NO.	2
NOZZLE SIZE	14/15
SER. NO.	KH-153
DEPTH OUT	
DEPTH IN	7300
TOTAL FTG.	320
TOTAL HR. RUN	7 3/4
COND. OF BIT	O/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2 00	H 00	6 00
WEIGHT	10.1	10.0	10
VISC.-SEC	395	415	440
W.L.-C.C.	4.6	4.4	4.6
FL.TR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Dave Frykas

FOOTAGE 36

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7584	7620	D		FUEL - 4'	54	30M	1500	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	1/4	R.C. SERVICE & U B.O.P's
1215	800	7 3/4	DRILL 8 3/4" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
25	STANDS D.P.	FT.
1	SINGLES D.P.	708.04 FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/B O.D.	1.50 FT.
	BIT OR C.B.	.25 FT.
1	Bit Sub	2.97 FT.
	KELLY DOWN	20 FT.
	TOTAL	7660 FT.
WT. OF STRING	130,000	LBS.

BIT RECORD

BIT NO.	7
SIZE	8 3/4
MFG.	H W
TYPE	J 33
NOZZLE NO.	3/14 1/15
SER. NO.	KH-153
DEPTH OUT	
DEPTH IN	7300
TOTAL FTG.	360
TOTAL HR. RUN	8 3/4
COND. OF BIT	O/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	10 00	12 00	4 00
WEIGHT	10	10	10
VISC.-SEC	300	380	420
W.L.-C.C.	4.4		5
FL.TR. CK.	2/32	2/32	2/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	100#		
Peltex	100#		

DRILLER: Donald Bertuit

FOOTAGE 40

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7620	7660	D			54	30	1500	5½	60	5½	60	Contanks

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	1/4	Rig Ser / Bop's pipe Rams & Hydril
815	1200	7 3/4	Drill 8 3/4 hole
		8	
			Dump Shaker Tank
			Held Blow out Drill

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
25	STANDS D.P.	FT.
2	SINGLES D.P.	712.54 FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	Bit Sub	2.97 FT.
	KELLY DOWN	13.00 FT.
	TOTAL	7684 FT.
WT. OF STRING	130,000	LBS.

BIT RECORD

BIT NO.	7
SIZE	8 3/4
MFG.	H W
TYPE	J 33
NOZZLE NO.	3/14 1/15
SER. NO.	KH-153
DEPTH OUT	
DEPTH IN	7300
TOTAL FTG.	384
TOTAL HR. RUN	8 9 1/4
COND. OF BIT	O/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	9 00	11 00	
WEIGHT	10.1	10.0	
VISC.-SEC	420	415	
W.L.-C.C.	5.4	5.4	
FL.TR. CK	2/32	2/32	
PH	9.0	9.0	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	100#		

DRILLER: Dave Frykas

FOOTAGE 24

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7660	7684	D			54	30	1450	5½	60	5½		Contanks

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	1/4	Rig Ser / Bop's
415	630	2 1/4	Drill 8 3/4 hole
630	830	2	Repair #1 pump Clutch
830	1200	3 1/2	Drill 8 3/4 Hole

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 59 DATE Feb 20/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ETAL TEXACO ARCTIC RED F-47	F-47	ARCTIC RED RIVER		NWT

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT	SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Jennings International Drilling, Division of Pancana Industries Ltd.	9	2	4½	6 1/4 O.D. TYPE THD. XH		Jason Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA500	16"
2.	Emsco	DA500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# K-55	23	889		884	750 sks of Cement 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7 3/4	7 3/4	7 3/4
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	1/4	1/4	1/4
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
COMPLETION WORK B. TUBING TRIPS			
COMPLETION WORK C. SWABBING			
COMPLETION WORK D. TESTING			
COMPLETION WORK E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1 1/8
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	59
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
73	STANDS D.P.	FT.
2	SINGLES D.P.	69.39 FT.
18	D.C. I.D. 6 1/4 O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
	BIT SUB	2.97 FT.
	KELLY DOWN	40.00 FT.
	TOTAL	7525 FT.
WT. OF STRING		130,000 LBS.

BIT RECORD

BIT NO.	7
SIZE	8 3/4
MFG.	H.W.
TYPE	J-33
NOZZLE NO.	1, 2,
NOZZLE SIZE	15 14
SER. NO.	KH-153
DEPTH OUT	
DEPTH IN	7300
TOTAL FTG.	225
TOTAL HR. RUN	5 1/2
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1:00	H 00	7:00
WEIGHT	10.0	10.0	10.0
VISC.-SEC	390	395	398
W.L.-C.C.	4.2	4.4	4.4
FLTR. CK.	2/32	2/32	2/32
PH	9.0	8.5	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	100#		
PELTEX	50#		

DRILLER Dave Frykas

FOOTAGE 27'

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7498	7525	D		FUEL — 5½'	54	30M	1400	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	1/4	RIG SER. & ✓ PIPE RAMS
12:15	8:00	7 3/4	DRLG 8 3/4" Hole.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
74	STANDS D.P.	1870.98 FT.
	SINGLES D.P.	FT.
18	D.C. I.D. 6 1/4 O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1		2.97 FT.
	KELLY DOWN	38.00 FT.
	TOTAL	7552 FT.
WT. OF STRING		130,000 LBS.

BIT RECORD

BIT NO.	7
SIZE	8 3/4
MFG.	H.W.
TYPE	J-33
NOZZLE NO.	3/14 1/15
NOZZLE SIZE	
SER. NO.	KH153
DEPTH OUT	
DEPTH IN	7300
TOTAL FTG.	252
TOTAL HR. RUN	5 9 1/4
COND. OF BIT	O.B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1:00	4:00	7:00
WEIGHT	10.0	10.0	10.0
VISC.-SEC	400	400+	400
W.L.-C.C.	4.4	4.4	4.4
FLTR. CK.	2/32	2/32	2/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	100 LBS		
Peltex	100 LBS		

DRILLER Donald Bastien

FOOTAGE 27'

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7525	7552	D			54	30	1600	5½	60	5½		Oil Tanks

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:5	1/4	Rig Ser. / Bop's & Motor Shutoff ok
8:5	4:00	7 3/4	Drill 8 3/4 hole.
		8	

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
74	STANDS D.P.	FT.
1	SINGLES D.P.	7000.87 FT.
18	D.C. I.D. 6 1/4 O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	38.00 FT.
	TOTAL	7584 FT.
WT. OF STRING		130,000 LBS.

BIT RECORD

BIT NO.	7
SIZE	8 3/4
MFG.	H.W.
TYPE	J-33
NOZZLE NO.	1, 2,
NOZZLE SIZE	15 14
SER. NO.	KH-153
DEPTH OUT	
DEPTH IN	7300
TOTAL FTG.	284
TOTAL HR. RUN	67
COND. OF BIT	O/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	16:00	
WEIGHT	10.0	10.1	
VISC.-SEC	420	425	
W.L.-C.C.	5.0	4.4	
FLTR. CK	2/32	2/32	
PH	9.0	9.0	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Dave Frykas

FOOTAGE 36'

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7552	7584	D			54	30	1600	5½	60	5½		Oil Tanks

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	1/4	Rig Ser. / Bop
4:15	12:00	7 3/4	Drlg 8 3/4 hole
			HELD SAFETY MEETING

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 58 — DATE FEB 19/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ET AL TEXACO ARCTIC RED F-47	F-47	ARCTIC RED RIVER		NWT

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
Jennings International Drilling, Division of Pancana Industries Ltd.	9 / 1	2	4½	6¼	XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jerry Reilly

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝	#36	K-55	23			889	750 SKS CEMENT 2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾		
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	16	16

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.

NO. OF LINES 4 SIZE 1¼

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 58

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
22	STANDS D.P.	FT.
2	SINGLES D.P.	68.44.80 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	Bit SUB	2.91 FT.
	KELLY DOWN	40.43 FT.
	TOTAL	7431.00 FT.

WT. OF STRING 124,000 LBS.

BIT RECORD

BIT NO.		8
SIZE		8¾
MFG.		HW
TYPE		J-33
NOZZLE	NO.	2 1
	SIZE	14 15
SER. NO.		KH153
DEPTH OUT		
DEPTH IN		7300
TOTAL FTG.		131
TOTAL HR. RUN		28¼
COND. OF BIT		0 3
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	100	400	600
WEIGHT	9.9	9.9	9.9
VISC.-SEC	325	400+	400+
W.L.-C.C.	5.0	5.0	5.0
FLTR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PELTEX	100#		
CAUSTIC	100#		
SAWDUST	3 SKS		

DRILLER Roy Lestina

FOOTAGE 39'

FROM	TO	DR. O RM. R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7392	7431	D		FUEL 7 FEET	54	30	1600	5½	60			
				#1 + #2 BOILERS IN OPERATION 24 HRS.								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	RIG SERVICE & CHECK BOP's
1215	800	7¾	DRILL 8¾" HOLE
			HELD BLOW OUT DRILL

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
73	STANDS D.P.	FT.
1	SINGLES D.P.	6908.04 FT.
8	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
	BIT SUB	2.97 FT.
	KELLY DOWN	12.00 FT.
	TOTAL	7470 FT.

WT. OF STRING 128,000 LBS.

BIT RECORD

BIT NO.		7
SIZE		8¾
MFG.		HW
TYPE		J-33
NOZZLE	NO.	2 1
	SIZE	14 15
SER. NO.		KH-153
DEPTH OUT		
DEPTH IN		7300
TOTAL FTG.		170
TOTAL HR. RUN		36
COND. OF BIT		0 B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	800	1130	300
WEIGHT	10.0	10.0	10.0
VISC.-SEC	345	320	310
W.L.-C.C.	4.2	4.2	4.2
FLTR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Steve Fujkan

FOOTAGE 39'

FROM	TO	DR. D RM. R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7431	7470	D			54	30	1400	5½	60			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
900	815	¼	RIG SER & BOP's
815	400	7¾	DRILL 8¾" HOLE
			CHECKED OUT ESCAPE BUOY O.K.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
73	STANDS D.P.	FT.
2	SINGLES D.P.	6939.49 FT.
18	D.C. 6¼ O.D.	540.00 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	15.00 FT.
	TOTAL	7498 FT.

WT. OF STRING 130,000 LBS.

BIT RECORD

BIT NO.		7
SIZE		8¾
MFG.		H.W
TYPE		J33
NOZZLE	NO.	2 1
	SIZE	14 15
SER. NO.		KD-153
DEPTH OUT		
DEPTH IN		7300
TOTAL FTG.		198
TOTAL HR. RUN		43¾
COND. OF BIT		0 B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	600	900	1100
WEIGHT	10	10	10
VISC.-SEC	360	420	400
W.L.-C.C.	4.6	4.4	4.2
FLTR. CK	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Donald Estwick

FOOTAGE 28'

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7470	7498	D			54	30	1450	5½	60	5½	on Tank	

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
700	415	¼	Rig Ser & BOP's
415	1200		Drill 8¾ hole

18

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 57 DATE FEB 18/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ETAL TEXACO ARCTIC RED F-41	F-41	ARCTIC RED RIVER		NWT

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT	TYPE THD.
Jennings International Drilling, Division of Pancanal Industries Ltd.	9	2	4½	6¼ O.D.	XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jessie Beasley

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝	#36	K-55	23	889		884	750 SKS CEMENT 2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	5	7¾	7¾
REAMING	2¾		
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1 1/8
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	57
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
91	STANDS D.P.	
2	SINGLES D.P.	6752.10 FT.
	D.C.	
18	I.D. 6¼ O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	Bit SUB	2.97 FT.
	KELLY DOWN	24.13 FT.
	TOTAL	7320.00 FT.
WT. OF STRING	128000 LBS.	

BIT RECORD

BIT NO.	5	
SIZE	8¾	
MFG.	HW	
TYPE	J-33	
NOZZLE NO.	2	1
NOZZLE SIZE	14	15
SER. NO.	KH-153	
DEPTH OUT		
DEPTH IN	7300	
TOTAL FTG.	22	
TOTAL HR. RUN	5	
COND. OF BIT	OB	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	100	400	600
WEIGHT	10.0	10.0	10.0
VISC.-SEC	350	345	360
W.L.-C.C.	48	48	48
FLTR. CK.	3/32	3/32	3/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	3500#	SAWDUST	6 SKS
CAUSTIC	50#		
PELTEX	50#		

DRILLER: Ray Lestes

FOOTAGE 22'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7300	7322	D		FUEL 9'	54	20M	1400	5½	60			
					54	25M	1400	5½	60			
				#1 & #2 BOILERS IN OPERATION 24HRS	54	30M	1600	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	RIG SERVICE + CHECK BOP'S + MOTOR KILLS O.K.
1215	300	2¾	REAM OUT HOLE TO BOTTOM
300	800	5	DRILL 8¾" HOLE

LOST 10 BBL'S MUD INTO FORMATION

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
72	STANDS D.P.	6783.60 FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
	BIT SUB	2.97 FT.
	KELLY DOWN	28.00 FT.
	TOTAL	7357 FT.
WT. OF STRING	127,000 LBS.	

BIT RECORD

BIT NO.	8	
SIZE	8¾	
MFG.	H.W.	
TYPE	J-33	
NOZZLE NO.	2	1
NOZZLE SIZE	14	15
SER. NO.	KH-153	
DEPTH OUT		
DEPTH IN	7300	
TOTAL FTG.	57	
TOTAL HR. RUN	12¾	
COND. OF BIT	O/B	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	830	1200	300
WEIGHT	10.0	10.0	10.0
VISC.-SEC	340	250	245
W.L.-C.C.	4.0	4.0	4.00
FLTR. CK.	2/32	3/32	2/32
PH	8.5	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	800		
CAUSTIC	50#		
PELTEX	50#		

DRILLER: Diane Frykas

FOOTAGE 35'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7322	7357	D			54	30M	1500	5½	60	5½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
900	815	¼	RIG SER. & V BOP'S
815	400	7¾	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
72	STANDS D.P.	6813.79 FT.
1	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
1	KELLY DOWN	32.44 FT.
	TOTAL	7392.00 FT.
WT. OF STRING	124,000 LBS.	

BIT RECORD

BIT NO.	8	
SIZE	8¾	
MFG.	H.W.	
TYPE	J-33	
NOZZLE NO.	2	1
NOZZLE SIZE	14	15
SER. NO.	KH 153	
DEPTH OUT		
DEPTH IN	7300	
TOTAL FTG.	92	
TOTAL HR. RUN	10½	
COND. OF BIT	0.3	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	500	800	1000
WEIGHT	3[illegible]	10.0	10.0
VISC.-SEC	308	245	260
W.L.-C.C.	4.0	4.8	5.0
FLTR. CK	2/32	2/32	3/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ray Lestes

FOOTAGE 35'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7357	7392	D			54	30	1400	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	RIG SERV. & V BOP'S
415	1200	7¾	DRILL 8¾" HOLE

APPROVED APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 56 DATE FEB 11/13

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-41

WELL NO. F-41 | FIELD OR DIST. ARCTIC RED | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling — Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jason Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝	#36 K-55	23				889	300 SKS CEMENT 2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	7¾	7¾	7¾
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 8	SIZE 1¼
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	56
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
62	STANDS D.P.	5839.24 FT.
	SINGLES D.P.	FT.
	D.C. 6¼ I.D. O.D.	
16		540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	6525.77 FT.
WT. OF STRING	115,000	LBS.

BIT RECORD

BIT NO.	7
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	2 1
NOZZLE SIZE	14 15
SER. NO.	KH-153
DEPTH OUT	
DEPTH IN	7300
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12⁰⁰	4⁰⁰	6⁰⁰
WEIGHT	10.0	10.0	10.0
VISC.-SEC	320	315	300
W.L.-C.C.	4.6	4.6	4.6
FLTR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ray Lastra

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
				FUEL 6'	54	5M	1400	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	RIG SERVICE + CHECK BOPS
12¹⁵	8⁰⁰	7¾	CLEAN OUT BRIDGED-OFF HOLE FROM 5890' TO

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
70	STANDS D.P.	6626.63 FT.
1	SINGLES D.P.	FT.
	D.C. 6¼ I.D. O.D.	
14		540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS C/O O.D.	2.97 FT.
	BIT OR C.B.	.75 FT.
	BIT SUB	1.30 FT.
	KELLY DOWN	35.00 FT.
	TOTAL	7206 FT.
WT. OF STRING	130,000	LBS.

BIT RECORD

BIT NO.	7
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	2 1
NOZZLE SIZE	14 15
SER. NO.	KH-153
DEPTH OUT	
DEPTH IN	7300
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8⁰⁰	12⁰⁰	4⁰⁰
WEIGHT	9.9	9.8	9.8
VISC.-SEC	300	265	250
W.L.-C.C.	4.2	4.2	4.4
FLTR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		

DRILLER: Dave Frykas

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7300					54		1400	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	RIG SER. + V B.O.P.'s
8¹⁵	4⁰⁰	7¾	CLEAN OUT HOLE FROM 6525 to 7206

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
71	STANDS D.P.	6720.96 FT.
1	SINGLES D.P.	FT.
	D.C. 6¼ I.D. O.D.	
18		540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	2.97 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	1.30 FT.
	KELLY DOWN	25.29 FT.
	TOTAL	7292 FT.
WT. OF STRING	120,000	LBS.

BIT RECORD

BIT NO.	7
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	2 1
NOZZLE SIZE	14 15
SER. NO.	KH-153
DEPTH OUT	
DEPTH IN	7300
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6⁰⁰	8⁰⁰	10⁰⁰
WEIGHT	9.9	10.0	10.0
VISC.-SEC	330	325	325
W.L.-C.C.	5.0	5.0	5.2
FLTR. CK	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1500#		

DRILLER: Ray Lastra

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7300					54		1400	5½	60	5½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	RIG SER. + V B.O.P.'s
4¹⁵	12⁰⁰	7¾	CLEAN OUT CAVED HOLE FROM 7206 TO 7292

APPROVED APPROVED

DAILY DRILLING REPORT

REPORT NO. 55 DATE FEB 16/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-41

WELL NO. F-41 | FIELD OR DIST. ARCTIC RED | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2 SIZE 4½ | TOOL JOINT 6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jason Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		*36 K-55	23	889		884	750 SKS CEMENT
							2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	9¼	5¾	
REAMING			
CONDITIONING MUD & CIRCULATING			1¾
TRIPS		1¾	4¼
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILLING LINE			1¾
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER WORK ON PUMP	½		
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	9	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK | HRS. W/DP | HRS. WO/DP | HRS. STANDBY | TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1¼

FEET SLIPPED 98'

FEET CUT OFF 98'

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 55

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
71	STANDS D.P.	FT.
1	SINGLES D.P.	6220.96 FT.
18	D.C. I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT S43	2.97 FT.
	KELLY DOWN	32.27 FT.
	TOTAL	7289.00 FT.

WT. OF STRING 120,000 LBS.

BIT RECORD

BIT NO.	6
SIZE	8¾
MFG.	HW
TYPE	XDV
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	45752
DEPTH OUT	
DEPTH IN	7225
TOTAL FTG.	63
TOTAL HR. RUN	21¾
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12⁰⁰	3⁰⁰	6⁰⁰
WEIGHT	9.8	9.8	9.8
VISC.-SEC	255	275	250
W.L.-C.C.	5.2	5.2	5.4
FLTR. CK.	2/32	2/32	2/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		

DRILLER Ray Lestina

FOOTAGE 16'

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR.-P EL.-E COM'D-C
7273	7289	D		FUEL 7'6"	54	20	1850	5½	60			
							1400	5½	60			
				#1 + #2 BOILERS IN OPERATION 24 HRS.								

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	RIG SERVICE + CHECK BOP'S
12¹⁵	12⁴⁵	½	DRILL 8¾" HOLE
12⁴⁵	1¹⁵	½	REPAIR LINER GASKETS ON PUMP + UNPLUG BIT NOZZLE
1¹⁵	8⁰⁰	6¾	DRILL 8¾" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
71	STANDS D.P.	6689.70 FT.
1	SINGLES D.P.	31.26 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	35.00 FT.
	TOTAL	7300 FT.

WT. OF STRING 120,000 LBS.

BIT RECORD

BIT NO.	6
SIZE	8¾
MFG.	H.W.
TYPE	XDV
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	45752
DEPTH OUT	
DEPTH IN	7225
TOTAL FTG.	74
TOTAL HR. RUN	27½
COND. OF BIT	711
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	9.30	12⁰⁰
WEIGHT	10.0	10.0
VISC.-SEC	270	240
W.L.-C.C.	5.0	5.0
FLTR. CK.	2/32	2/32
PH	9.0	9.0
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1100#		
CAUSTIC	100#		
TELTEX	50#		

DRILLER Dave Frykas

FOOTAGE 11

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR.-P EL.-E COM'D-C
7289	7300	D			54	20	1850	5½	60			

DEVIATION RECORD: DEPTH 7300 | DEV. 5° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	RIG SERVICE & V B.O.P's
8¹⁵	2⁰⁰	5¾	DRILL 8¾" HOLE.
2⁰⁰	2¹⁵	¼	DROP SURVEY @ 7300 -
2¹⁵	4⁰⁰	1¾	TRIP out

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
56	STANDS D.P.	FT.
2	SINGLES D.P.	5341.25 FT.
18	D.C. I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	2.98 FT.
	TOTAL	7890. FT.

WT. OF STRING 110,000 LBS.

BIT RECORD

BIT NO.	7
SIZE	8¾
MFG.	H.W.
TYPE	J-33
NOZZLE NO.	2 1
NOZZLE SIZE	14 15
SER. NO.	KH153
DEPTH OUT	
DEPTH IN	7300
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1¹⁰⁰	
WEIGHT	10.0	
VISC.-SEC	315	
W.L.-C.C.	5.0	
FLTR. CK	3/32	
PH	9.0	
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Ray Lestina

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR.-P EL.-E COM'D-C
7300					54	SM	1400	5½	60			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	RIG SER & V B.O.P
4¹⁵	6³⁰	2¼	FINISH TRIP OUT
6³⁰	8¹⁵	1¾	SLIP & CUT LINE 98'
8¹⁵	10¹⁵	2	TRIP PIPE IN HOLE
10¹⁵	12⁰⁰	1¾	BREAK CIRC + CLEAN out BRIDGE @ 5750' TO 5890'

APPROVED APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 54 DATE FEB 15/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ET AL TEXACO ARCTIC RED F-41	F-41	ARCTIC RED		N WT

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
Jennings International Drilling, Division of Pancana Industries Ltd.	9	2	4½	6¼	XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jason Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝	36	K-55	23			984	750 SKS. CEMENT
							2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL		6¾	7¾
REAMING			
CONDITIONING MUD & CIRCULATING	7½	1½	
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER		½	
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8
SIZE	1 1/2
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	54
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
10	STANDS D.P.	FT.
2	SINGLES D.P.	66 58.26 FT.
18	D.C. I.D. 6 1/8 O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	21.00 FT.
	TOTAL	7225 FT.

WT. OF STRING 125000 LBS.

BIT RECORD

BIT NO.	6
SIZE	8 3/4
MFG.	HW
TYPE	XDV
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	45752
DEPTH OUT	
DEPTH IN	7225
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	3:00	7:00
WEIGHT	10.0	9.9
VISC.-SEC	200	285
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	4500#		

DRILLER: Ray J Lantos

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
	7225			FUEL 5'	54	5M	1300	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE & CHECK BOPS
12:15	8:00	7¾	CLEAN OUT HOLE TO BOTTOM

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
11	STANDS D.P.	6689.70 FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
18	D.C. I.D. 6 1/4 O.D.	540.55 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	16.00 FT.
	TOTAL	7251 FT.

WT. OF STRING 121,000 LBS.

BIT RECORD

BIT NO.	6
SIZE	8 3/4
MFG.	HW
TYPE	XDV
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	45752
DEPTH OUT	
DEPTH IN	7225
TOTAL FTG.	25'
TOTAL HR. RUN	6¾
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	9:00	12:00	2:30
WEIGHT	9.8	9.8	9.8
VISC.-SEC	220	3:00	350
W.L.-C.C.	5.2	5.2	5.2
FLTR. CK.	2/32	2/32	2/32
PH	8.0	8.5	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2400#		
CAUSTIC	200#		
PELTEX	100#		

DRILLER: Dave Fuglaa

FOOTAGE 25'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7225	7250	D			54	15M	1350	5½	50	5½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE & U BOP
8:15	8:45	½	CLEAN OUT HOLE to BOTTOM
8:45	9:00	¼	DRILL 8¾" HOLE
9:00	9:15	¼	CIRC ON BOTTOM
9:15	10:00	¾	DRILL 8¾" HOLE
10:00	10:15	¼	CLEAN PLUGGED FLOW LINE
10:15	4:00	5¾	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
11	STANDS D.P.	6689.70 FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
18	D.C. I.D. 6¼ O.D.	540.55 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	37.53 FT.
	TOTAL	7273 FT.

WT. OF STRING 121000 LBS.

BIT RECORD

BIT NO.	6
SIZE	8 3/4
MFG.	H.W.
TYPE	XDV
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	45752
DEPTH OUT	
DEPTH IN	7225
TOTAL FTG.	47
TOTAL HR. RUN	14½
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:00	6:30	8:00
WEIGHT	9.8	9.8	9.4
VISC.-SEC	310	275	240
W.L.-C.C.	5.0	5.0	5.8
FLTR. CK	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CMC	100#		
CAUSTIC	100#		
PELTEX	100#		

DRILLER: R. Lantos

FOOTAGE 22'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7250	7273	D			54	20	1350	5½				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE & U B.O.P.'S
4:15	12:00	7¾	DRILL 8¾" HOLE

APPROVED

APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 53 — DATE FEB 2 '73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDELETALTEXACOARCTICRED F-47	F-47	ARCTIC RED RIVER		NWT

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT
Jennings International Drilling, Division of Pancana Industries Ltd.	9	2	4½	6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Farren Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	9⅝	#36	K-55	23			889	750 SKS CEMENT 2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	¾		
TRIPS	7		
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8		

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES / SIZE	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
FD	D.C. 6¼ I.D. O.D.	540 55	FT.
	D.C. FERRORITE I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS XO O.D.	150	FT.
	BIT OR C.B.	75	FT.
	BIT SUB	2 97	FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	5-RR	6	
SIZE	8¾	8 3/4	
MFG.	HW	HW	
TYPE	J-33	XDV	
NOZZLE NO.	1 2	3	
NOZZLE SIZE	14 13	14	
SER. NO.	44427	45752	
DEPTH OUT	7225		
DEPTH IN	5708		
TOTAL FTG.	517		
TOTAL HR. RUN	209¾		
COND. OF BIT	7 11		
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ray Listen

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7225				FUEL 2' 1"								
				#1 + #2 BOILERS IN OPERATION 24 HRS.								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	RIG SERVICE
12 15	1 30	1¼	WORK PIPE OUT OF HOLE TIGHT 37 SINGLES
1 30	2 15	¾	CIRC
2 15	7 15	5	HOIST PIPE SLOW - PLUGGED BIT
7 15	8 00	¾	RUN PIPE IN HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
58	STANDS D.P.	5837.24	FT.
1	SINGLES D.P.	31 53	FT.
14	D.C. 6¼ I.D. O.D.	540.55	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS C/O O.D.	1.50	FT.
	BIT OR C.B.	75	FT.
	BIT SUB	2.97	FT.
	KELLY DOWN	40.00	FT.
	TOTAL	6000.19	FT.
WT. OF STRING		110,000	LBS.

BIT RECORD

BIT NO.	6	
SIZE	8¾	
MFG.	HW	
TYPE	XL ✓	
NOZZLE NO.	3	
NOZZLE SIZE	14	
SER. NO.	45752	
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	100	3 00
WEIGHT	10.0	10.0
VISC.-SEC	220	255
W.L.-C.C.		38
FLTR. CK.		2/32
PH	9.0	9.0
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1400#		

DRILLER: David Fryksa

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
		RAN										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼	RIG SERVICE & U BOP'S
815	930	1¼	SLIP & CUT 98' LINE SET UP BRAKES
930	1100	1½	RUN IN HIT BRIDGE @ 5806
1100	400	5	BREAK CIRC. & CLEAN HOLE FROM 5962 to 6000

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
62	STANDS D.P.	5839.24	FT.
	SINGLES D.P.		FT.
14	D.C. 6¼ I.D. O.D.	540.55	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	1.50	FT.
1	BIT OR C.B.	75	FT.
1	BIT SUB	2.97	FT.
	KELLY DOWN	14.99	FT.
	TOTAL	6400	FT.
WT. OF STRING		120,000	LBS.

BIT RECORD

BIT NO.	6	
SIZE	8¾	
MFG.	HW	
TYPE	XDV	
NOZZLE NO.	3	
NOZZLE SIZE	14	
SER. NO.	45752	
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1100	
WEIGHT	10.0	
VISC.-SEC	155	
W.L.-C.C.		
FLTR. CK		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ray Listen

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6000	6400	CIRC.			54	10M	1150	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	RIG SER. & U BOP'S
415	1200	7¾	CLEAN HOLE TO BOTTOM FROM 6000 TO 6400'

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 52 DATE FEB 13/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-47

WELL NO. F-47 | FIELD OR DIST. ARCTIC RED RIVER | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 2 SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER Joe Lukasewich

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2	EMSCO	DA-500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36 K-55	23	889		889	750 SKS CEMENT
							2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7¼	
REAMING			
CONDITIONING MUD & CIRCULATING		1½	
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 4 SIZE 1⅛

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 52

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
69	STANDS D.P.	6499.51 FT.	
	SINGLES D.P.	FT.	
18	D.C. 6¼ I.D. O.D.	540.55 FT.	
1	D.C. TELEDRIFT I.D. 5¾ O.D.	10.97 / 58.89 FT.	
1	STB. BODY EZY O.D.	4.99 FT.	
1	STB. BODY 6 PT O.D.	8.66 FT.	
1	RMR. BODY 3 PT O.D.	5.64 FT.	
3	SUBS C/O O.D.	4.42 FT.	
1	BIT OR C.B.	75 FT.	
1	SHOCK SUB	10.65 FT.	
	KELLY DOWN	33.03 FT.	
	TOTAL	7178.00 FT.	

WT. OF STRING 129000 LBS.

BIT RECORD

BIT NO.	S-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	1/4 1/3
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1470
TOTAL HR. RUN	201¼
COND. OF BIT	0.13
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	100	400	700
WEIGHT	10.1	10.0	10.0
VISC.-SEC	245	290	260
W.L.-C.C.	3.8	3.8	4.0
FLTR. CK.	2/32	3/32	2/32
PH	9.5	9.5	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CMC	100#		

DRILLER Ray Lester

FOOTAGE 48'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7130	7178	D		FUEL 3'7"	54	35	1600	5½	60			
				#1 & #2 BOILERS IN OPERATION 24 HRS / DAY								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	RIG SERVICE + CHECK BOPS
12 15	8 00	7¾	DRILL 8¾" HOLE
			SAFETY MEETING HELD
			RE- HAZARDOUS CONDITIONS IN COLD CLIMATES
			OIL CHANGED IN FLOOR MOTORS

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
69	STANDS D.P.	FT.	
1	SINGLES D.P.	6531.11 FT.	
18	D.C. 6¼ I.D. O.D.	540.55 FT.	
1	D.C. TELEDRIFT I.D. 5¾ O.D.	10.97 / 58.89 FT.	
1	STB. BODY EZY O.D.	4.99 FT.	
1	STB. BODY 6 PT O.D.	8.60 FT.	
1	RMR. BODY 3 PT O.D.	5.64 FT.	
3	SUBS C/O O.D.	4.42 FT.	
	BIT OR C.B.	75 FT.	
1	SHOCK SUB	10.65 FT.	
	KELLY DOWN	41.00 FT.	
	TOTAL	7218 FT.	

WT. OF STRING 128,000 LBS.

BIT RECORD

BIT NO.	RR-5
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 3
NOZZLE SIZE	1/4 1/3
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1510
TOTAL HR. RUN	208½
COND. OF BIT	0/8
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	900	1200	300
WEIGHT	10.0	10.0	10.0
VISC.-SEC	205	225	275
W.L.-C.C.	3.6	3.6	3.8
FLTR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1400#		
CAUSTIC	150#		
PELTEX	100#		

DRILLER Dave Frykas

FOOTAGE 40'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7178	7218	D			54	35	1600	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼	RIG SERVICE & V BOP'S
815	1130	3¾	DRILL 8¾" HOLE
1130	1200	½	CIRC SAMPLE @ 7200'
1200	400	4	DRILL 8¾" HOLE
			SAFETY MEETING HELD
			RE- CHEMICAL MIXING

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
69	STANDS D.P.	FT.	
2	SINGLES D.P.	6562.69 FT.	
18	D.C. 6¼ I.D. O.D.	540.55 FT.	
1	D.C. TELEDRIFT I.D. 5¾ O.D.	10.97 / 58.89 FT.	
1	STB. BODY EZY O.D.	4.99 FT.	
1	STB. BODY 6 PT O.D.	8.60 FT.	
1	RMR. BODY 3 PT O.D.	5.64 FT.	
3	SUBS C/O O.D.	4.42 FT.	
	BIT OR C.B.	75 FT.	
1	SHOCK SUB	10.65 FT.	
	KELLY DOWN	17 00 FT.	
	TOTAL	7225 FT.	

WT. OF STRING 130,000 LBS.

BIT RECORD

BIT NO.	RR-5
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3 1
NOZZLE SIZE	3/13 1/4
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1517
TOTAL HR. RUN	209¾
COND. OF BIT	6 M HLS
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	530		
WEIGHT	10.0		
VISC.-SEC	3:10		
W.L.-C.C.	13.8		
FLTR. CK.	2/32		
PH	9.0		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Ray Lester

FOOTAGE 7'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7218	7225	D			54	35	1600	5½	60	5½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	RIG SERVICE & V BOP'S
415	530	1¼	DRILL 8¾" HOLE
530	700	1½	CIRC. SAMPLE @ 7225
700	1200	5	DUMMY TRIP OUT TIGHT HOLE - WORK
			25 SINGLES OUT

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 51 DATE Feb 7/23

OPERATOR: Gaudet Oil

LEASE: Gaudet Et Al Artic Red F47

WELL NO.: F47 FIELD OR DIST.: Artic Red COUNTY: STATE: N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO.: 9

DRILL PIPE STRING: NO. 2 SIZE 4½ TYPE THD. X.H. TOOL JOINT 6¼ O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukusenenda

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA500	16
2.	EMSCO	DA500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝	K55	36#	28	889		889	250 SKS CEMENT 2% CA CL2

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	11½	
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	16	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1¼
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	51
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
67	STANDS D.P.	FT.
1	SINGLES D.P.	6342.31 FT.
18	D.C. I.D. 6 1/16 O.D.	540.55 FT.
1	D. Telderift I.D. 3 O.D.	10.97
2	I.D. 3 O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 6 7/8 O.D.	8.60 FT.
1	RMR. BODY 6 7/8 O.D.	5.64 FT.
1	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	Shock	10.65 FT.
	KELLY DOWN	37.00 FT.
	TOTAL	7027 FT.

WT. OF STRING 126,000 LBS.

BIT RECORD

BIT NO.	RR5
SIZE	8¾
MFG.	H.W.
TYPE	J33
NOZZLE NO.	X 3
NOZZLE SIZE	14/13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1319
TOTAL HR. RUN	178¼
COND. OF BIT	O.B.
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	3:00	6:00	7:30
WEIGHT	10	10	10
VISC.-SEC	285	310	285
W.L.-C.C.	3.8	4.2	4.0
FL.TR. CK.	2/32	2/32	1/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CMC.	100 LBS.		

DRILLER: Donald Hurd

FOOTAGE 54'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6973	7027	D		Fuel 60 inches	54	36	1650	5½	60	5½	outside	
		#		1 + #2 BOILERS IN OPERATION	24 HRS	P.E.D.Y.						

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	Rig Ser / Bop's
1215	800	7¾	Drill 8¾ hole
			Lost 20 BBL Mud

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
68	STANDS D.P.	6805.58 FT.
	SINGLES D.P.	FT.
18	D.C. I.D. 6¼ O.D.	540.55 FT.
1	D.C. TELEDRIFT I.D. 3 O.D.	10.97
2	I.D. 3 O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 6 7/8 O.D.	8.60 FT.
1	RMR. BODY 3 7/8 O.D.	5.64 FT.
3	SUBS C/O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK 543	10.65 FT.
	KELLY DOWN	24.96 FT.
	TOTAL	7076.00 FT.

WT. OF STRING 126000 LBS.

BIT RECORD

BIT NO.	5-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1368
TOTAL HR. RUN	185¾
COND. OF BIT	0.13
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	900	100	300
WEIGHT	10.0	10.0	10.0
VISC.-SEC	200	310	265
W.L.-C.C.	3.6	3.8	4.0
FL.TR. CK.	3/32	3/32	2/32
PH	9.5	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1300#		

DRILLER: Ray Lustus

FOOTAGE 49'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7027	7076	D			54	35	1650	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
7050'	6°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼	RIG SERVICE + CHECK BOPS
815	145	5½	DRILL 8¾" HOLE
145	200	¼	TELEDRIFT SURVEY @ 7050'
200	400	2	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
68	STANDS D.P.	FT.
2	SINGLES D.P.	6468.10 FT.
18	D.C. I.D. 6 1/16 O.D.	540.55 FT.
1	D.C. TELEDRIFT I.D. 3 O.D.	10.97
2	I.D. 3 O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 6 7/8 O.D.	8.60 FT.
1	RMR. BODY 3 7/8 O.D.	5.64 FT.
3	SUBS C/O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK 543	10.65 FT.
	KELLY DOWN	16.00 FT.
	TOTAL	7130. FT.

WT. OF STRING 128,000 LBS.

BIT RECORD

BIT NO.	5-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1422
TOTAL HR. RUN	193½
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	400	100	1100
WEIGHT	10.0	10.2	10.2
VISC.-SEC	225	200	255
W.L.-C.C.	4.2	3.4	3.6
FL.TR. CK	3/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		
CMC	50#		

DRILLER: Dave Fuglem

FOOTAGE 54'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
7076	7130	D			54	35	1600	5½	60	5½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	RIG SERVICE + CHECK BOPS
445	1200	7 3/4	DRILL 8¾" HOLE

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 50 DATE Feb 11/73

OPERATOR: Caudel Oil

LEASE: Caudel Ft Dl Artic Red F-47

WELL NO. F-47 | FIELD OR DIST. Artic Red | COUNTY | STATE N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2 SIZE 4½ | TOOL JOINT TYPE THD. X.H | O.D. 6¼

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukaszewich

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA500	16
2.	Emsco	DA500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝	K55	36#	23	889		889	750 sks cement 2% CaCl2

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	5¼	2	
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG Swivel packing	2½	¼	
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER Hand tongs, stand pipe		5¼	
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK | HRS. W/DP | HRS. WO/DP | HRS. STANDBY | TOTAL DAY WORK

WIRE LINE RECORD

REEL NO. | NO. OF LINES 8 SIZE 7/8 | FEET SLIPPED | FEET CUT OFF | PRESENT LENGTH | TON MI. OR TRIPS SINCE LAST CUT | CUMULATIVE TON MI. OR TRIPS | NO. OF DAYS FROM SPUD | CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
46	STANDS D.P.	6217.10 FT.
	SINGLES D.P.	FT.
	D.C.	
18	I.D. 6¼ O.D.	540.55 FT.
T	D.C. Tel-Drift	10.97
2	I.D. 5 O.D.	58.89 FT.
1	STB. BODY 2 O.D.	4.99 FT.
1	STB. BODY 6 O.D.	8.60 FT.
1	RMR. BODY 3 O.D.	5.64 FT.
3	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	Shock	10.65 FT.
	KELLY DOWN	30.44 FT.
	TOTAL	6493.00 FT.

WT. OF STRING 126000 LBS.

BIT RECORD

BIT NO.	RR5
SIZE	8¾
MFG.	HW
TYPE	J.33
NOZZLE NO.	1 1 1
NOZZLE SIZE	14 14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1185
TOTAL HR. RUN	160¾
COND. OF BIT	O.B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	9.00	5.00
WEIGHT	10	10
VISC.–SEC	240	340
W.L.–C.C.	4.	4.
FL.TR. CK.	2/32	2/32
PH	9.5	9.5
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic		100 LBS	
Gel		120 LBS	

DRILLER Donald Hurst

FOOTAGE 42' | DR.–D RM.–R CORE.–C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
6851	6893	D	Fuel 6½ ft	54	36	1700	5½	60	5½	60	Both Tanks

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	Rig Ser / Bop's
1215	530	5¼	Drill 8¾ hole
530	800	2½	Change Swivel packing

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
66	STANDS D.P.	6244.65 FT.
1	SINGLES D.P.	FT.
	D.C.	
18	I.D. 6¼ O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. 5 O.D.	58.89 FT.
1	STB. BODY 2 O.D.	4.99 FT.
1	STB. BODY 6 O.D.	8.60 FT.
1	RMR. BODY 3 O.D.	5.64 FT.
3	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	18.89 FT.
	TOTAL	6913.00 FT.

WT. OF STRING 126000 LBS.

BIT RECORD

BIT NO.	5 RR
SIZE	8 3/4
MFG.	HW
TYPE	J 33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1205
TOTAL HR. RUN	162¾
COND. OF BIT	O B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2.00	4.00
WEIGHT	10.0	10.0
VISC.–SEC	385	350
W.L.–C.C.	4.0	4.2
FL.TR. CK.	3/32	3/32
PH	9.5	9.5
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Ray Linton

FOOTAGE 20' | DR.–D RM.–R CORE.–C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
6893	6913	D		54	35	1700	5½	60			

DEVIATION RECORD: DEPTH 6896 | DEV. 6 0 | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼	Rig Service & Check BOP's
815	830	¼	Change Swivel packing
830	145	5¼	Thaw out stand pipe and mud lines
145	245	1	Drill 8¾" Hole
245	300	¼	Teledrift survey @ 6896'
300	400	1	Drill 8¾" Hole

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
67	STANDS D.P.	FT.
	SINGLES D.P.	6311.16 FT.
	D.C.	
18	I.D. 6¼ O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. 5 O.D.	58.89 FT.
1	STB. BODY 2 O.D.	4.99 FT.
1	STB. BODY 6 O.D.	8.60 FT.
1	RMR. BODY 3 O.D.	5.64 FT.
3	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	12.00 FT.
	TOTAL	6973 FT.

WT. OF STRING 126000 LBS.

BIT RECORD

BIT NO.	6 RR
SIZE	8 3/4
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1265
TOTAL HR. RUN	170½
COND. OF BIT	O.B.
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6.00	8:00	12.00
WEIGHT	10.0	10.	10
VISC.–SEC	225	230	235
W.L.–C.C.	4.2	4.2	4.2
FL.TR. CK	3/32	3/32	4/32
PH	9.0	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1300#		

DRILLER Donald Hurst

FOOTAGE 60' | DR.–D RM.–R CORE.–C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
6913	6973	D		54	35	1650	5½	60			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	Rig Service + Check BOP's
415	1200	7 3/4	Drill 8¾" Hole

APPROVED APPROVED

A.A.O.D.C.–A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 49 DATE Feb 10/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Can Del Oil	Candel Ft Al Artic Red Fed	F47	Artic Red River		N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukasewich

DRILL PIPE STRING: NO. 3, SIZE 4½ — TOOL JOINT 6¼ O.D., TYPE THD. X.H

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 700	16"
2.	EMSCO	DA 700	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝	K55	36#	23	889		889	750 SKS Cement 2% CaCl²

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7¾	
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼		
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1⅛

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			FT.
64	STANDS D.P.		
1	SINGLES D.P.		6059.46 FT.
	D.C.		
18	I.D. 6½ O.D.		540.55 FT.
1	D.C. Teledrift		10.97
2	D.C. O.D.		58.89 FT.
1	STB. BODY EZ3 O.D.		4.99 FT.
1	STB. BODY 6¾ O.D.		8.60 FT.
1	RMR. BODY 3¾ O.D.		5.64 FT.
2	SUBS C/O O.D.		4.42 FT.
1	BIT OR C.B.		.75 FT.
1	Shock		10.65 FT.
	KELLY DOWN		18.00 FT.
	TOTAL		6720 FT.

WT. OF STRING 125,000 LBS.

BIT RECORD

BIT NO.	S.RR
SIZE	8¾
MFG.	H.W
TYPE	J.33
NOZZLE NO.	4 2/1
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1012
TOTAL HR. RUN	140¼
COND. OF BIT	O.B.
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	3:00	5:00	7:00
WEIGHT	9.9	9.9	10.
VISC.-SEC	265	245	260
W.L.-C.C.	4.2	4.2	4.0
FLTR. CK.	2/32	2/32	2/32
PH	9	9	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	100 LBS.		

DRILLER Donald Hunt

FOOTAGE 52'

FROM	TO	DR. D RM. R CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6668	6720	D		Fuel 40" inches	54	32	1600	5½	60	5½	60	On Tank

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6700	6½							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	Rig Serv Bop's
1215	715	7	Drill 8¾ hole
715	730	¼	Survey via Teladrift @ 6700 6½°
730	800	½	Drill 8¾ hole
		8.	

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			FT.
65	STANDS D.P.		6122.64 FT.
	SINGLES D.P.		FT.
	D.C.		
18	I.D. 6½ O.D.		540.55 FT.
1	D.C. TELEDRIFT		10.97
2	I.D. 5¾ O.D.		58.89 FT.
1	STB. BODY EZ3 O.D.		4.99 FT.
1	STB. BODY 3¾ O.D.		5.64 FT.
1	RMR. BODY 6¾ O.D.		8.60 FT.
3	SUBS C/O O.D.		4.42 FT.
1	BIT OR C.B.		.75 FT.
1	SHOCK SUB		10.65 FT.
	KELLY DOWN		18.90 FT.
	TOTAL		6787 FT.

WT. OF STRING 126000 LBS.

BIT RECORD

BIT NO.	S-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	13 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1079
TOTAL HR. RUN	148
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	600	100	300
WEIGHT	10.0	10.0	10.0
VISC.-SEC	250	290	290
W.L.-C.C.	3.8	3.8	3.6
FLTR. CK.	2/32	2/32	2/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CMC	100#		
Poly-Plate	500#		

DRILLER Ray Listen

FOOTAGE 67

FROM	TO	DR. D RM. R CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6720	6787	D			54	33	1600	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼	RIG SERVICE + CHECK BOP'S - BLOW OUT DRILL
815	400	7¾	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			FT.
65	STANDS D.P.		
2	SINGLES D.P.		6185.83 FT.
	D.C.		
18	I.D. 6½ O.D.		540.55 FT.
1	D.C. TELEDRIFT		10.97
2	I.D. 5¾ O.D.		58.89 FT.
1	STB. BODY EZ4 O.D.		4.99 FT.
1	STB. BODY 6¾ O.D.		8.60 FT.
1	RMR. BODY 3¾ O.D.		5.64 FT.
3	SUBS C/O O.D.		4.42 FT.
1	BIT OR C.B.		.75 FT.
1	SHOCK SUB		10.65 FT.
	KELLY DOWN		21.00 FT.
	TOTAL		6851 FT.

WT. OF STRING 126,000 LBS.

BIT RECORD

BIT NO.	S-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	1143
TOTAL HR. RUN	155½
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	500	800	1000
WEIGHT	10.0	10.0	10.0
VISC.-SEC	310	310	255
W.L.-C.C.	3.8	3.8	3.8
FLTR. CK	2/32	2/32	2/32
PH	9.0	9.0	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Donald Hunt

FOOTAGE 64'

FROM	TO	DR. D RM. R CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6787	6851	D			54	35	1700	5½	60	5¼	On tanks	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6800	6°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	RIG SERVICE + CHECK BOP'S
415	630	2¼	DRILL 8¾" HOLE
630	645	¼	TELEDRIFT SURVEY @ 6800 6°
645	1200	5¼	DRILL 8¾" HOLE

LOST 20 BBL MUD INTO FORMATION

APPROVED

APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 48 DATE Feb 9/73

OPERATOR: Can Del Oil

LEASE: Can Del ETAL Texaco Arc. Red E. #7

CONTRACTOR: Jennings International Drilling — Division of Pancana Industries Ltd.

RIG NO. 9

WELL NO. | FIELD OR DIST.: Artic Red River | COUNTY | STATE: N.W.T.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

DRILL PIPE STRING: NO. 2, SIZE 4 1/2 | TOOL JOINT 6 1/4 O.D. | TYPE THD. X.H

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA500	16
2.	EMSCO	DA500	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8	K-55	36	23	889		889	750 SKS Cement 2% CaCl2.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7 1/2	7 3/4	7 3/4
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	1/4	1/4	1/4
DEVIATION SURVEY	1/4		
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 9 SIZE 1 1/16

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 48

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
62	STANDS D.P.	
2	SINGLES D.P.	59 10.25 FT.
18	D.C. I.D. 6 1/4 O.D.	540.55 FT.
1	D.C. Bit Sub I.D. Orlt O.D.	.75 10.97 FT.
1	STB. BODY 8 O.D.	5.89 FT.
2	STB. BODY Eltex O.D.	4.99 FT.
1	RMR. BODY 6" O.D.	8.60 FT.
1	SUBS 3 PB O.D.	5.64 FT.
3'	BIT OR C.B.	4.42 FT.
1	Shock	10.65 FT.
	KELLY DOWN	18.00 FT.
	TOTAL	6569 FT.

WT. OF STRING 120,000 LBS.

BIT RECORD

BIT NO.	5-RR
SIZE	8 3/4
MFG.	HW
TYPE	J-33
NOZZLE NO.	4 21
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	861
TOTAL HR. RUN	117 1/4
COND. OF BIT	O.B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2:00	5:00	7:00
WEIGHT	10	2	10.
VISC.-SEC	340	45	245
W.L.-C.C.	44	4.4	4.6
FLTR. CK.	2/32	2/32	2/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CMC	100 #'s		

DRILLER: Donald [illegible]

FOOTAGE 53'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6516	6569	D		Fuel 30" inches Rog.	54	32	1550	5 1/2	60	5 1/2	on Tanks	

DEVIATION RECORD: DEPTH 6520 DEV. 6° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 1/4	1/4	Rig Ser / Bop's
12 1/4	3 00	2 3/4	Drill 8 3/4 hole
3 00	3 15	1/4	Survey @ 6520 6°
3 15	8 00	4 3/4	Drill 8 3/4 hole
		8	Held Blow out Drill ok.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
63	STANDS D.P.	5933.63 FT.
	SINGLES D.P.	FT.
18	D.C. I.D. 6 1/4 O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY 8 O.D.	4.99 FT.
1	STB. BODY 6 O.D.	8.60 FT.
1	RMR. BODY 3 O.D.	5.64 FT.
3	SUBS C/O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	34.34 FT.
	TOTAL	6614.00 FT.

WT. OF STRING 125000 LBS.

BIT RECORD

BIT NO.	5-RR
SIZE	8 3/4
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	906
TOTAL HR. RUN	125
COND. OF BIT	O.B.
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8 30	1 00	3 00
WEIGHT	9.9	9.9	9.9
VISC.-SEC	240	310	315
W.L.-C.C.	4.6	4.6	4.0
FLTR. CK.	2/32	2/32	2/32
PH	8.5	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1800#	SAWDUST	6 SKS
CAUSTIC	100#		
REDTEX	100#		

DRILLER: Ray Lustig

FOOTAGE 45'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6569	6614	D			54	32	1550	5 1/2	60			
					54	35	1650	5 1/2	60			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	8 15	1/4	RIG SERVICE + CHECK BOP'S
8 15	4 00	7 3/4	DRILL 8 3/4" HOLE
			IN FORMATION - Lost 20 BBLS Mud / Pump Idle 900# @ 32 SPM

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
63	STANDS D.P.	
	SINGLES D.P.	FT.
18	D.C. I.D. 6 1/4 O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY 8 O.D.	4.99 FT.
1	STB. BODY 6 O.D.	8.60 FT.
1	RMR. BODY 3 O.D.	5.64 FT.
3	SUBS C/O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	FT.
	TOTAL	6668 FT.

WT. OF STRING 125,000 LBS.

BIT RECORD

BIT NO.	5-RR
SIZE	8 3/4
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	960
TOTAL HR. RUN	132 3/4
COND. OF BIT	O.B.
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	5 00	8 00	12 00
WEIGHT	9.9	9.9	10
VISC.-SEC	270	255	240
W.L.-C.C.	4.0	4.0	4.2
FLTR. CK	2/32	2/32	2/32
PH	9.0	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CMC	2 SKS		

DRILLER: Donald [illegible]

FOOTAGE 54'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6614	6668	D			54	35	1600	5 1/2	60			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	1/4	RIG SERVICE + CHECK BOP'S
4 15	12 00	7 3/4	DRILL 8 3/4" HOLE
		8	

APPROVED

APPROVED

DAILY DRILLING REPORT

REPORT NO. 47 DATE FEB 9/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARctic RED

WELL NO. F-47 | FIELD OR DIST. ARCTIC RED RIVER | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 2 SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. X.H

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukasiewich

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝	K-55	36	23	889		899	750 SKS CEMENT 2% CACL

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	13¾	7½	
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 4 SIZE 1¼

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 47

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
16	STANDS D.P.	5744.77 FT.
X	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. 5⅞ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 6PT BODY O.D.	8.60 FT.
1	RMR. 3PT BODY O.D.	5.64 FT.
3	SUBS 4½ O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	18.00 FT.
	TOTAL	6410 FT.

WT. OF STRING 122,000 LBS.

BIT RECORD

BIT NO.	5-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	702.
TOTAL HR. RUN	94½
COND. OF BIT	O.B.
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	100	300	700
WEIGHT	10.	10	10
VISC.-SEC	300+	300+	300+
W.L.-C.C.	5.	4.4	4.6
FLTR. CK.	2/32	2/32	2/32
PH	9.	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CMC	100#		
C.L.	600#		

DRILLER Donald D. Hurst

FOOTAGE 52'

FROM	TO	DR. D RM. R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SOL.-S PART.-P COMP.-C
6358	6410	D		FUEL 52"	54	34	1600	5½	60	5½	D. Tanks	

1 & #2 BOILERS IN OPERATION 24 HRS

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	RIG SERVICE – CHECK BOPS
12 15	8 00	7¾	DRILL 8¾" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
61	STANDS D.P.	FT.
1	SINGLES D.P.	576.35 FT.
16	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. 5⅞ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 6PT BODY O.D.	9.60 FT.
1	RMR. 3PT BODY O.D.	5.64 FT.
3	SUBS 4½ O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.19 FT.
	TOTAL	6463.00 FT.

WT. OF STRING 122,000 LBS.

BIT RECORD

BIT NO.	5-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	755
TOTAL HR. RUN	102
COND. OF BIT	0 1 B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	800	1230	200
WEIGHT	10.0	10.0	10.0
VISC.-SEC	300	245	275
W.L.-C.C.	5.0	4.6	4.1
FLTR. CK.	3/32	2/32	2/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1200#		

DRILLER Ray J. Lustus

FOOTAGE 53

FROM	TO	DR. D RM. R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SOL.-S PART.-P COMP.-C
6410	6463	D			54	34	1600	5½				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6420	6°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	8 15	¼	RIG SERVICE ; CHECK BOPS HYDR. + PIPE RAMS
8 15	11 30	3¼	DRILL 8¾" HOLE
11 30	11 45	¼	TELEDRIFT SURVEY @ 6420'
11 45	4 00	4¼	DRILL 8¾" HOLE

CHECK Motor KILLS O.K.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
62	STANDS D.P.	5539.00 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. 5⅞ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 6PT BODY O.D.	8.60 FT.
1	RMR. 3PT BODY O.D.	5.64 FT.
3	SUBS 4½ O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	FT.
	TOTAL	6516 FT.

WT. OF STRING 122 000 LBS.

BIT RECORD

BIT NO.	5-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	808
TOTAL HR. RUN	109¾
COND. OF BIT	O.B.
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	600	800	12.00
WEIGHT	10.0	10.0	10.0
VISC.-SEC	315	270	300+
W.L.-C.C.		11.	4.
FLTR. CK	2/32	2/32	2/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CMC	100#		

DRILLER Donald D. Hurst

FOOTAGE 53'

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SOL.-S PART.-P COMP.-C
6463	6516	D			54	32	1550	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	¼	RIG SERVICE + CHECK BOPS
4 15	12 00	7¾	DRILL 8¾" HOLE

APPROVED

APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 46 DATE FEB 7/73

OPERATOR: CANDEL OIL LTD

LEASE: CANDEL ET AL TEXACO ARTIC RED

WELL NO. F-47 FIELD OR DIST. ARTIC RED COUNTY NWT STATE

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukaszewich

DRILL PIPE STRING NO. 2 SIZE 4½ TYPE THD. XH

TOOL JOINT 6 1/4 O.D.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA500	16
2.	EMSCO	DA500	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		#36	23	889		889	750 CEMENT 2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7½	7¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 8	SIZE 1⅛
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD 46	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
59	STANDS D.P.	5558.12 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
2	D.C. TELEDRIFT I.D. 5¾ O.D.	10.97 / 58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 6¼ BODY O.D.	8.60 FT.
1	RMR. 3¼ BODY O.D.	5.64 FT.
3	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.42 FT.
	TOTAL	6245.00 FT.
WT. OF STRING	120000	LBS.

BIT RECORD

BIT NO.	5 RR
SIZE	8 3/4
MFG.	HW
TYPE	J-33
NOZZLE NO.	2 1
NOZZLE SIZE	13 14
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	537
TOTAL HR. RUN	7½
COND. OF BIT	0/13
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2.00	4.00	6.00
WEIGHT	10	10	10
VISC.-SEC	285	250	250
W.L.-C.C.	5.4	5.6	5.4
FL TR. CK.	3/32	3/32	4/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500		

DRILLER: Lyle Clements

FOOTAGE 55

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6190	6245	D		FUEL GIANT	54	32	1500	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	RIG SERVICE CHECK BOPS
12¹⁵	8⁰⁰	7¾	DRILL 8¾ HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
59	STANDS D.P.	FT.
2	SINGLES D.P.	5620.80 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT I.D. 5¾ O.D.	10.97 / 58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3PT BODY O.D.	5.64 FT.
1	RMR. 6PT BODY O.D.	8.60 FT.
3	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	33.74 FT.
	TOTAL	6300.00 FT.
WT. OF STRING	120.000	LBS.

BIT RECORD

BIT NO.	5-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 15
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	592
TOTAL HR. RUN	9
COND. OF BIT	0/13
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8⁰⁰	2⁰⁰	4⁰⁰
WEIGHT	10.0	10.0	10.0
VISC.-SEC	260	280	280
W.L.-C.C.	5.4	5.4	5.6
FL TR. CK.	2/32	2/32	2/32
PH	9.5	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1100#		

DRILLER: Ray Lustus

FOOTAGE 55'

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6245	6300	D			54	30	1500	5½	60			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	6260	60							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	RIG SERVICE + CHECK BOP's
8¹⁵	12³⁰	4¼	DRILL 8¾" HOLE
12³⁰	12⁴⁵	¼	TELEDRIFT SURVEY @ 6260'
12⁴⁵	4⁰⁰	3¼	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT I.D. 5¾ O.D.	10.97 / 58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 6¼ BODY O.D.	8.60 FT.
1	RMR. 3PT BODY O.D.	5.64 FT.
3	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	#5-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	~~6300~~
DEPTH IN	5708
TOTAL FTG.	6050
TOTAL HR. RUN	86¾
COND. OF BIT	O.B.
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6⁰⁰	10.00	11 30
WEIGHT	10.0	10.	10
VISC.-SEC	240	230	230
W.L.-C.C.	5.4	5.	
FL TR. CK	3/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1 SK	Poltex	100 LBS
CMC	100 LBS		
Caust.	100 LBS		

DRILLER: Donald Hunt

FOOTAGE 58'

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6300	6358	D			54	30	1500	5½	60	ON	Tanks	
						34						

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	RIG SERVICE + CHECK BOP's
4¹⁵	8²⁰⁰	7¾	DRILL 8¾" HOLE

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 46 — DATE FEB 7/73

OPERATOR: CANDEL OIL LTD

LEASE: CANDEL ET AL TEXACO ARTIC RED — WELL NO. F-47 — FIELD OR DIST. ARTIC RED — COUNTY NWT — STATE

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukas Jr.

DRILL PIPE STRING: NO. 2 — SIZE 4½ — TOOL JOINT 6¼ O.D. — TYPE THD. XH

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA500	16
2.	EMSCO	DA500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		#36	23	889		889	750 CEMENT
							2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7½	7¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 8	SIZE 1⅛
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD 46	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
59	STANDS D.P.	5558.12 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	DP TELEDRIFT	10.97
2	I.D. 5½ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. GPT BODY O.D.	8.60 FT.
1	RMR. SPT. BODY O.D.	5.64 FT.
3	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.42 FT.
	TOTAL	6245.00 FT.
WT. OF STRING	120,000 LBS.	

BIT RECORD

BIT NO.		5RR
SIZE		8 3/4
MFG.		HW
TYPE		J-33
NOZZLE	NO.	2 1
	SIZE	13 14
SER. NO.		44827
DEPTH OUT		
DEPTH IN		5708
TOTAL FTG.		537
TOTAL HR. RUN		7½
COND. OF BIT		0/13
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	2:00	4:00	6:00
WEIGHT	10	10	10
VISC.-SEC	285	250	250
W.L.-C.C.	5.4	5.6	5.4
FL TR. CK.	2/32	2/32	4/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500		

DRILLER: Lyle Clements

FOOTAGE 55

FROM	TO	DR. D RM. R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6190	6245	D		FORT CLAY	54	32	1500	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE CHECK BOPS
12:15	8:00	7¾	DRILL 8½ HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
59	STANDS D.P.	FT.
2	SINGLES D.P.	5620.80 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	DP TELEDRIFT	10.97
2	I.D. 5½ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. SPT BODY O.D.	5.64 FT.
1	RMR. GPT BODY O.D.	8.60 FT.
3	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	33.74 FT.
	TOTAL	6300.00 FT.
WT. OF STRING	120,000 LBS.	

BIT RECORD

BIT NO.		5-RR
SIZE		8¾
MFG.		HW
TYPE		J-33
NOZZLE	NO.	1 2
	SIZE	14 15
SER. NO.		44827
DEPTH OUT		
DEPTH IN		5704
TOTAL FTG.		592
TOTAL HR. RUN		8 9
COND. OF BIT		8/13
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8:00	2:00	4:00
WEIGHT	10.0	10.0	10.0
VISC.-SEC	260	280	280
W.L.-C.C.	5.4	5.4	5.6
FL TR. CK.	2/32	2/32	2/32
PH	9.5	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1100#		

DRILLER: Ray Lestins

FOOTAGE 55'

FROM	TO	DR. D RM. R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6245	6300	D			54	30	1500	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6260	60							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE + CHECK BOPS
8:15	12:30	4¼	DRILL 8¾" HOLE
12:30	12:45	¼	TELEDRIFT SURVEY @ 6260'
12:45	4:00	3¼	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	DP TELEDRIFT	10.97
2	I.D. 5½ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. GPT BODY O.D.	8.60 FT.
1	RMR. SPT BODY O.D.	5.64 FT.
3	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.		#5-RR
SIZE		8¾
MFG.		HW
TYPE		J-33
NOZZLE	NO.	1 2
	SIZE	14 13
SER. NO.		44827
DEPTH OUT		~~6300~~
DEPTH IN		5708
TOTAL FTG.		1050
TOTAL HR. RUN		8 6¾
COND. OF BIT		O.B.
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6:00	10:00	11:30
WEIGHT	10.0	10.	10
VISC.-SEC	240	230	250
W.L.-C.C.	5.4	5.	
FL TR. CK	3/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel in SKS		Pel Tex	100 LBS
CMC	100 LBS		
Caustic	100 LBS		

DRILLER: Donald Ford

FOOTAGE 58'

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6300	6358	D			54	30	1500	5½	60	ON	TANKS	
						34						

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE + CHECK BOPS
4:15	8:00	7¾	DRILL 8¾" HOLE

8

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 45 DATE FEB 6/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ET AL TEXACO ARCTIC RED	F-47	ARCTIC RED		NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D., TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Kukawenuch

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝	#36	K-55	23	889		889	750 SKS CEMENT
							2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	6½	7¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER FISHING COMP.		1	
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 8	SIZE 1/8
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	45
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
57	STANDS D.P.	5372.88 FT.
1	SINGLES D.P.	31.53 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT I.D. O.D.	10.97
2	5¾ O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 6PT O.D.	8.60 FT.
1	RMR. BODY 3PT O.D.	5.64 FT.
3	SUBS XO O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	33.00 FT.
	TOTAL	6083 FT.

WT. OF STRING 118,000 LBS.

BIT RECORD

BIT NO.		RR#5
SIZE		8¾
MFG.		HW
TYPE		J-33
NOZZLE	NO.	2 1
	SIZE	13 14
SER. NO.		44827
DEPTH OUT		6083
DEPTH IN		5708
TOTAL FTG.		375
TOTAL HR. RUN		49½
COND. OF BIT		OB
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	2:00	4:00	6:00
WEIGHT	9.9	10.0	10.0
VISC.-SEC	400	310	280
W.L.-C.C.	4.6	4.4	4.8
FL TR. CK.	2/32	9/32	9/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DRILLER Brian Sadoway

FOOTAGE 51

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6032	6083	D		FUEL SHIFT	54	32	1500	5½	58			
				#1 & #2 BOILERS IN OPERATION 24 HRS								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE + CHECK BOPs
12:15	8:00	7¾	DRILL 8¾" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
58	STANDS D.P.	5467.19 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT I.D. O.D.	10.97
2	5¾ O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 6PT O.D.	8.60 FT.
1	RMR. BODY 3PT O.D.	5.64 FT.
3	SUBS XO O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	25.35 FT.
	TOTAL	6138.00 FT.

WT. OF STRING 118,000 LBS.

BIT RECORD

BIT NO.		RR#5
SIZE		8¾
MFG.		HW
TYPE		J-33
NOZZLE	NO.	1 2
	SIZE	14 13
SER. NO.		44827
DEPTH OUT		
DEPTH IN		5708
TOTAL FTG.		430
TOTAL HR. RUN		51¾
COND. OF BIT		0/B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9:00	12:00	2:00
WEIGHT	10	10	9.9
VISC.-SEC	215	290	280
W.L.-C.C.	6.2	6.0	6.0
FL TR. CK.	3/32	3/32	3/32
PH	8.5	8.5	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PELTEX	100#		
CAUSTIC	100#		
GEL	2100#		

DRILLER Ray J Lestuna

FOOTAGE 55'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6083	6138	D			54	32	1500	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6080	6°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE & CHECK BOPs
8:15	9:15	1	DRILL 8¾" HOLE
9:15	9:30	¼	SURVEY @ 6080
9:30	1:00	2½	DRILL 8¾" HOLE
1:00	2:00	1	WORK ON AIR COMPRESSORS
2:00	4:00	2	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT I.D. O.D.	10.97
2	5¾ O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 6PT O.D.	8.60 FT.
1	RMR. BODY 3PT O.D.	5.64 FT.
3	SUBS XO O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.		RR#5
SIZE		8¾
MFG.		HW
TYPE		J-33
NOZZLE	NO.	1 2
	SIZE	14 13
SER. NO.		44827
DEPTH OUT		
DEPTH IN		5708
TOTAL FTG.		430
TOTAL HR. RUN		63¾
COND. OF BIT		0/B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6:00	12:00	
WEIGHT	10.0	10.0	
VISC.-SEC	240	300	
W.L.-C.C.		5.2	
FL TR. CK	3/32	3/32	
PH	9.0	9.2	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PELTEX	100#		
CAUSTIC	100#		
GEL	1100#		

DRILLER Brian Sadoway

FOOTAGE 52'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
6138	6190	D			54	32	1500	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE + CHECK BOP's
4:15	12:00	7¾	DRILL 8¾" HOLE

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 44 — DATE FEB. 5, 1973

OPERATOR: CANDEL OIL. | LEASE: CANDEL ETAL TEXACO ARCTIC RED F-47 | WELL NO. F-47 | FIELD OR DIST. ARCTIC RED RIVER | COUNTY | STATE N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. | RIG NO. 9 | DRILL PIPE STRING NO. 3 SIZE 4½ | TOOL JOINT 6 1/4 O.D. | TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Kubaseweski

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA500	16"
2.	Emsco	DA500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# K55	23	889		884	750 sks Cement 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¼	7¾	7½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼		¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK | HRS. W/DP | HRS. WO/DP | HRS. STANDBY | TOTAL DAY WORK

WIRE LINE RECORD

REEL NO. | NO. OF LINES 8 SIZE 1 1/8 | FEET SLIPPED | FEET CUT OFF | PRESENT LENGTH | TON MI. OR TRIPS SINCE LAST CUT | CUMULATIVE TON MI. OR TRIPS | NO. OF DAYS FROM SPUD 44 | CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
55	STANDS D.P.	FT.
2	SINGLES D.P.	5248.00 FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
2	D.C. 4	58.89
1	TELE DRIFT	10.97 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 3PT O.D.	5.64 FT.
1	RMR. BODY 6 O.D.	8.60 FT.
3	SUBS 4½ O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	20.00 FT.
	TOTAL	5916 FT.

WT. OF STRING 116,000 LBS.

BIT RECORD

BIT NO.	RR-5
SIZE	8 3/4
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	208
TOTAL HR. RUN	26½
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1:00	4:00	7:00
WEIGHT	9.8	9.8	9.8
VISC.-SEC	240	230	290
W.L.-C.C.	5.0	5.6	5.6
FLTR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		

DRILLER Dave Foykeer

FOOTAGE 65

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5851	5916	D		FUEL — 7'	54	32	1400	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	5865	6°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	1/4	Rig Ser. & Check BOP's
12:15	2:15	2	Drill 8 3/4" Hole
2:15	2:30	1/4	Teledrift Survey @ (5865 - 6°)
2:30	8:00	5½	Drill 8 3/4" Hole

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
56	STANDS D.P.	5279.82 FT.
1	SINGLES D.P.	31.59 FT.
18	D.C. 6 1/4 I.D. O.D.	FT.
1	D.C. TELEDRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 6PT O.D.	8.60 FT.
1	RMR. BODY 3PT O.D.	5.64 FT.
3	SUBS 4½ O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	23.00 FT.
	TOTAL	5980 FT.

WT. OF STRING 116,000 LBS.

BIT RECORD

BIT NO.	RR#5
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	5980
DEPTH IN	5708
TOTAL FTG.	272
TOTAL HR. RUN	34¼
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	10:00	12:00	2:00
WEIGHT	9.8	9.8	9.8
VISC.-SEC	285	265	265
W.L.-C.C.	5.4	5.2	5.4
FLTR. CK.	2/32	2/32	2/32
PH	8.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		

DRILLER Brian Galloway

FOOTAGE 64

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5916	5980	D			54	32	1400	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	1/4	Rig Service + Check BOPs
8:15	4:00	7¾	Drill 8¾" Hole

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
57	STANDS D.P.	5372.88 FT.
	SINGLES D.P.	FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 6PT O.D.	8.60 FT.
1	RMR. BODY 3PT O.D.	5.64 FT.
3	SUBS 4½ O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	13.66 FT.
	TOTAL	6032.00 FT.

WT. OF STRING 116,000 LBS.

BIT RECORD

BIT NO.	RR#5
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	1 2
NOZZLE SIZE	14 13
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	324
TOTAL HR. RUN	41¾
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:00	8:00	10:00
WEIGHT	9.9	9.9	9.9
VISC.-SEC	245	260	210
W.L.-C.C.	5.8	5.8	5.8
FLTR. CK	2/32	2/32	2/32
PH	8.0	8.5	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	100		
GEL	600#		

DRILLER Ray J. Linton

FOOTAGE 52'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5980	6032	D			54	30	1450	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	5980	6°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	1/4	Rig Service & Check BOP's
4:15	6:30	2¼	Drill 8¾" Hole
6:30	6:45	1/4	Teledrift Survey @ 5980
6:45	12:00	5¼	Drill 8¾" Hole
			Change Oil in Floor Motors

APPROVED APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 43 — DATE FEB. 4/73

OPERATOR: CANDEL OIL

LEASE: CANDEL FTAL TEXACO ARCTIC RED F-47

WELL NO.

FIELD OR DIST.: ARCTIC RED RIVER

COUNTY

STATE: N.W.T

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO.: 9

DRILL PIPE STRING: NO. 2, SIZE 4½

TOOL JOINT: 6¼ O.D., TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: L. Sehn

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝	~~N-80~~	36# K-55	23	889		884	750 sks Cement 2% CaCl.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	3¼	7¾	
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	2¼		
LUBRICATE RIG	1/4	¼	1/4
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE	¾		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	1¼		
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	4

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 14B
FEET SLIPPED	98
FEET CUT OFF	98
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	43
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
53	STANDS D.P.	FT.
2	SINGLES D.P.	58.84 FT.
18	D.C. 6" I.D. O.D.	540.55 FT.
2	D.C. SQUARED	58.84
1	TELEDRIFT I.D. SQ.D.	10.97 FT.
1	STB. BODY 6 PT O.D.	8.60 FT.
1	STB. BODY 3 PT O.D.	5.64 FT.
1	RMR. EZY BODY STAB.	4.99 FT.
3	SUBS 6¼ O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	30.00 FT.
	TOTAL	5734 FT.
	WT. OF STRING	115,000 LBS.

BIT RECORD

BIT NO.	RR-5
SIZE	8 3/4
MFG.	HW
TYPE	J-33
NOZZLE NO.	2 1
NOZZLE SIZE	13 14
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5809
TOTAL FTG.	26
TOTAL HR. RUN	3½
COND. OF BIT	O/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME		6⁰⁰	7³⁰
WEIGHT		9.8	9.7
VISC.-SEC		200	180
W.L.-C.C.		5.4	5.5
FL.TR. CK.		2/32	2/32
PH		8.5	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DRILLER: Dave Frykas

FOOTAGE 26

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5808	5734	D			54	30m	1350	5½	60	5½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	1/4	Rig Ser.
12¹⁵	1⁰⁰	3/4	Slip 98' Cut 98' Line
1⁰⁰	3⁰⁰	2	Run in w/Bit # RR5
3⁰⁰	3³⁰	½	Break Circ & Circ @ 4 stds off Btm.
3³⁰	3⁴⁵	¼	Finish Run in
3⁴⁵	4³⁰	3/4	Clean out 45' fill to Btm.
4³⁰	8⁰⁰	3½	Drill 8¾" Hole

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
54	STANDS D.P.	5090.49 FT.
1	SINGLES D.P.	32.06 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	TELEDRIFT I.D. SQ.D.	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY 6 PT O.D.	8.60 FT.
1	STB. BODY 3 PT O.D.	5.64 FT.
1	RMR. EZY BODY O.D.	4.99 FT.
3	SUBS 6¼ O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	16.00 FT.
	TOTAL	5784 FT.
	WT. OF STRING	116,000 LBS.

BIT RECORD

BIT NO.	RR#5
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	2 1
NOZZLE SIZE	13 14
SER. NO.	44827
DEPTH ~~OUT~~	5784
DEPTH IN	5707
TOTAL FTG.	78
TOTAL HR. RUN	11¼
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	10.00	12:00	2:00
WEIGHT	97	9.7	9.8
VISC.-SEC	190	380	420
W.L.-C.C.	5.8	5.6	6.0
FL.TR. CK.	2/32	2/32	2/32
PH	8.5	8.5	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1100#		
CAUSTIC	50#		

DRILLER: Brian Sadowy

FOOTAGE 50

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5734	5784	D			54	30	1500	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	Rig Service + Check BOPs.
8:15	4:00	7¾	Drill 8¾" Hole

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
55	STANDS D.P.	5187.95 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	PETEDRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 6PT BODY O.D.	8.60 FT.
1	RMR. 3PT BODY O.D.	5.64 FT.
3	SUBS XO O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	21.00 FT.
	TOTAL	5851 FT.
	WT. OF STRING	117,000 LBS.

BIT RECORD

BIT NO.	RR#5
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	2 1
NOZZLE SIZE	13 14
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5709
TOTAL FTG.	145
TOTAL HR. RUN	~~19~~ 19
COND. OF BIT	O/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6⁰⁰	9.00	11⁰⁰
WEIGHT	97	9.9	9.9
VISC.-SEC	270	225	245
W.L.-C.C.	5.2	5.2	5.0
FL.TR. CK	2/32	2/32	2/32
PH	9	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	800#		

DRILLER: Dave Frykas

FOOTAGE 68'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5784	5851	D			54	30	1400	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	Rig Service + Check BOPs.
4:15	12⁰⁰	7¾	Drill 8¾" Hole

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 42 — DATE Feb 3/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-47

WELL NO. F-47 | FIELD OR DIST. ARCTIC RED RIVER | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ | TOOL JOINT 6 1/4 O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: J. Lehn

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K-55	23	889		884	750 SKS Cement 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	7 1/4	8½	
CONDITIONING MUD & CIRCULATING	½	2½	
TRIPS		1¾	
LUBRICATE RIG	1/4	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	4	18	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP		1	
HRS. WO/DP		1	
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1 1/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 42

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
54	STANDS D.P. 4	FT.
1	SINGLES D.P. 5120.90	FT.
18	D.C. 6 4/4 I.D. O.D. 540.55	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/4 O.D. 1.50	FT.
1	BIT OR C.B. .75	FT.
	BIT SUB 3.05	FT.
	KELLY DOWN 41.00	FT.
	TOTAL 5708	FT.
WT. OF STRING	106,000	LBS.

BIT RECORD

BIT NO.	6	
SIZE	8¾	
MFG.	HW	
TYPE	X1G	
NOZZLE NO.	3	
NOZZLE SIZE	14	
SER. NO.	44632	
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN	52½	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	12⁰⁰	4⁰⁰	7⁰⁰
WEIGHT	9.7	9.6	9.6
VISC.-SEC	315	270	260
W.L.-C.C.		4.8	4.8
FLTR. CK.		2/32	2/32
PH		8.5	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	300#		

DRILLER Dave Fykas

FOOTAGE

FROM	TO	DR.,D RM.,R CORE.,C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
				FUEL 2' 10"	54		1200	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	1/4	RIG SER. + V BOP's
12¹⁵	~~8³⁰~~	7¾	CLEAN to BOTTOM to ~~5705~~
7³⁰	8⁰⁰	½	CIRC + WORK PIPE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
54	STANDS D.P.	FT.
1	SINGLES D.P. 5121.90	FT.
18	D.C. 6¼ I.D. O.D. 540.55	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS O.D. 1.50	FT.
	BIT OR C.B. .75	FT.
1	BIT SUB 3.05	FT.
	KELLY DOWN 41.00	FT.
	TOTAL 5708	FT.
WT. OF STRING	106,000	LBS.

BIT RECORD

BIT NO.	6	
SIZE	8¾	
MFG.	HW	
TYPE	X1G	
NOZZLE NO.	3	
NOZZLE SIZE	14	
SER. NO.	44632	
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN	56	
COND. OF BIT	1N1	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	12.00	2⁰⁰	
WEIGHT	9.7	9.6	
VISC.-SEC	355	265	
W.L.-C.C.	6.6	6.	
FLTR. CK.	2/32	2/32	
PH	8.5	8.5	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		
TELTEX	50#		

DRILLER Brian Ladoway

FOOTAGE

FROM	TO	DR.,D RM.,R CORE.,C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
					54		1200	5½				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE + CHECK BOPs
8:15	9:15	1	CIR + WORK PIPE
9:15			DUMMY TRIP 10 STANDS - HOLE TIGHT @ 5200'
	10:45	1½	ON THE WAY OUT, BRIDGED @ ~~5]~~ 5080' GOING IN.
10⁴⁵	12:00	1¼	BREAK CIRC - CLEAN OUT BRIDGE @ 5080'
12:00	12:15	¼	FINISH RUNNING IN.
12:15	2:30	2¼	CLEAN 90' TO BOTTOM.
2:30	4:00	1½	CIR + WORK PIPE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	RR 5	
SIZE	8¾	
MFG.	HW	
TYPE	J-33	
NOZZLE NO.	3	
NOZZLE SIZE	13 1/4	
SER. NO.	44827	
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6.00		
WEIGHT	9.6		
VISC.-SEC	180		
W.L.-C.C.	5.8		
FLTR. CK	2/32		
PH	9.0		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Dave Fykas

FOOTAGE

FROM	TO	DR.,D RM.,R CORE.,C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
				NOTE HOWARD THORSON BECAME ILL @ 12:00 MIDNIGHT - COMPLAINED OF PAIN IN HIS LEFT LOWER BACK AREA & LEFT LEG. - TOOK HIM TO								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
NORMAN		WELLS	HOSPITAL	VIA		AIRCRAFT @ 1⁰⁰ AM.		

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE + CHECK B.OPs
4:15	5:00	¾	8 STAND DUMMY TRIP + CLEAN 25' FILL
5:00	6:30	1½	CIR + WORK PIPE
6:30	~~10⁰⁰~~	3½	HOIST TO PICK UP SQUARES
~~9⁰⁰~~	10⁰⁰	1	PICK UP SQUARES, SHOCK SUB
11⁰⁰	11³⁰	½	SERVICE TELEDRIFT
11³⁰	12⁰⁰	½	RUN IN D.C.'S.

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 41 DATE Feb 2/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-47

WELL NO. F-47 | FIELD OR DIST. ARCTIC RED | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 2 SIZE 4½ | TOOL JOINT 6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: J. John

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 500	16"
2.	EMSCO	DA 500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K55	23	889		884	750 sks Cement + 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	6¼	7¾	13¾
CONDITIONING MUD & CIRCULATING			
TRIPS	1½		
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1 1/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 41

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	6
SIZE	8¾
MFG.	H.W
TYPE	X16
NOZZLE NO.	3
NOZZLE SIZE	7/14
SER. NO.	44632
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	29¾
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	300	500	700
WEIGHT	9.6	9.6	9.6
VISC.-SEC	255	265	270
W.L.-C.C.		5.0	5.2
FLTR. CK.		2/32	2/32
PH		9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Dave Frykas

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
				FUEL — 4' 8"				5½				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200			Dummy TRIP 12 STDS - Pump out 3 SINGLES @ 5110' - HOLE BRIDED
	130	1½	@ 4950 - Going in.
130	145	¼	Rig Service
145	800	6¾	Clean out Bridge from 4950-5150'

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
48	STANDS D.P.	4525.77 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT SUB	3.05 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	5183 FT.
WT. OF STRING	104,000	LBS.

BIT RECORD

BIT NO.	6
SIZE	8¾
MFG.	HW
TYPE	X-BB
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	44632
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	37½
COND. OF BIT	0 IN.
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12.00	12:00	2:00
WEIGHT	9.7	9.7	9.7
VISC.-SEC	300	2.65	2.85
W.L.-C.C.	4.8	5.	5.4
FLTR. CK.	2/32	2/32	2/32
PH	9.	9.	9.
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Brian Ladoway

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
					54		1200	5½	56			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	Rig Service + check BOPs
8:15	4:00	7¾	CLEAN TO BOTTOM

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
53	STANDS D.P.	5022.20 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	3.05 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	5614 FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	6
SIZE	8¾
MFG.	HW
TYPE	X16
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	44632
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	45¼
TOTAL HR. RUN	
COND. OF BIT	IN
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	900	1100	
WEIGHT	9.7	9.7	
VISC.-SEC	350	400	
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Poly Plus	14 [illegible]	PAILS	

DRILLER Dave Frykas

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
	5614	RM			54		1200	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	Rig Service + check BOPs
4:15	12:00	7¾	CLEAN TO BOTTOM

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 40 — DATE Feb 1/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-47

WELL NO. F-47 — FIELD OR DIST. ARTIC RED RIVER — COUNTY — STATE N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D. — TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: J. Lehn

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA500	16"
2.	Emsco	DA500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K-55	23	889		884	

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	7¾	7¾	
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	4 SIZE 1 1/16
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	40
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
48	STANDS D.P.	FT.
1	SINGLES D.P.	4557.37 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT SUB	3.05 FT.
	KELLY DOWN	15.00 FT.
	TOTAL	5219 FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	5
SIZE	8 3/4
MFG.	HW
TYPE	X1G
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	44632
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	18
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1:30	4:30	7:30
WEIGHT	9.7	9.7	9.7
VISC.–SEC	300	310	400
W.L.–C.C.		4.5	5.8
FLTR. CK.		2/32	2/32
PH		8.5	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		
PELTEX	50#		
GEL	900#		

DRILLER: Dave Frykas

FOOTAGE

FROM	TO	DR–D RM–R CORE–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL–S PAR'EL–P COM'D–C
				FUEL 2' 4"	54		1750	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SER. & U BOP'S
12:15	8:00	7¾	CLEAN OUT HOLE FROM 4930 to 5219

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
52	STANDS D.P.	4901.22 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT SUB	3.05 FT.
	KELLY DOWN	15.00 FT.
	TOTAL	5462 FT.
WT. OF STRING	106,000	LBS.

BIT RECORD

BIT NO.	6
SIZE	8¾
MFG.	HW
TYPE	X1G
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	44632
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	17¾
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	10:00	19:00	2:00
WEIGHT	9.7 ~~9.7~~	9.7	9.7
VISC.–SEC	230	420	310
W.L.–C.C.	6.2	6.2	5.4
FLTR. CK.			
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1500#		

DRILLER: Brian Lodoen

FOOTAGE

FROM	TO	DR–D RM–R CORE–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL–S PAR'EL–P COM'D–C
					54							

(Conducted Blow out drill. (Demonstrated Scott Air Packs)

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE + CHECK BOPs
8:15	4:00	7¾	CLEAN OUT HOLE FROM 5219 TO 5462

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
54	STANDS D.P.	FT.
1	SINGLES D.P.	5219.66 FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT SUB	3.05 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	5462 FT.
WT. OF STRING	107,000	LBS.

BIT RECORD

BIT NO.	6
SIZE	8¾
MFG.	H.W.
TYPE	V1G
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	44632
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	23½
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6:00	8:00	10:00
WEIGHT	9.6		
VISC.–SEC	3.55		
W.L.–C.C.	5.6		
FLTR. CK			
PH	9.5		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DRILLER: Dave Frykas

FOOTAGE

FROM	TO	DR–D RM–R CORE–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL–S PAR'EL–P COM'D–C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE + CHECK BOPs
4:15	10:00	5¾	CLEAN OUT HOLE 5462
10:00	11:00	1	CIRC ON BOTTOM
11:00	12:00	1	DUMMY TRIP – TIGHT HOLE @ 5110

APPROVED — APPROVED

A.A.O.D.C.–A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 39 — DATE Jan 31/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-47 — WELL NO. F-47 — FIELD OR DIST. ARCTIC RED — COUNTY — STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6 1/4 O.D. — TYPE THD. X H

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: J. Sehn

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# K-55	23	889		884	750 sks Cement 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	1¾	6¼	
CONDITIONING MUD & CIRCULATING			
TRIPS		1	
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			

COMPLETION WORK

A. PERFORATING	
B. TUBING TRIPS	
C. SWABBING	
D. TESTING	
E. ADDITIONAL	
TOTALS	6

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
18	D.C. 6 1/4 I.D. O.D.	580.55 FT.
1	D.C. TELE DRIFT I.D. 5¾ O.D.	10.97 58.89 FT.
1	STS. BODY E 26 O.D.	4.99 FT.
1	STB. BODY 3 7/8 O.D.	5.64 FT.
1	RMR. BODY 6 3/4 O.D.	8.60 FT.
3	SUBS C/S O.D.	7.42 FT.
	BIT OR C.B.	25' FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.		5
SIZE		8 3/4
MFG.		HW
TYPE		J-3
NOZZLE	NO.	2 1
	SIZE	13 12
SER. NO.		44827
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	12 00	4 00	7 30
WEIGHT	9.7	9.7	9.7
VISC.-SEC	325	300	335
W.L.-C.C.			5.8
FLTR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1900#		

DRILLER: Dave Frykas

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
	5708	RM		FUEL 3' 10"				5½				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	RIG SER + V BOPS
12 15	8 00	7¾	CLEAN HOLE @ 4695 - 5170'

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STS. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.		5
SIZE		8¾
MFG.		HW
TYPE		J-33
NOZZLE	NO.	2 1
	SIZE	13 12
SER. NO.		44827
DEPTH OUT		
DEPTH IN		5708
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	10:00	12:00	2:00
WEIGHT	9.7	9.7	9.7
VISC.-SEC	400	345	415
W.L.-C.C.	5.6	5.6	5.4
FLTR. CK.	2/32	2/32	2/32
PH	9	9	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2300		

DRILLER: Brian Soloway

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
	5708											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE + CHECK BOPS
8:15	3 00	6¾	CLEAN HOLE @ 5150 - 5180 - (HOLE TIGHT)
3 00	4 00	1	PULL OUT TO SET BACK DRILCO ASSEMBLY (PUMPED OUT 3 SINGLES)

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
1	BIT SUB	3.05 FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.		6
SIZE		8¾
MFG.		HW
TYPE		X16
NOZZLE	NO.	3
	SIZE	14
SER. NO.		44632
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		2¼
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	11 00		
WEIGHT	9.7		
VISC.-SEC	350		
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: David Frykas

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
	5708						1300	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	¼	RIG SERVICE
4 15	6:30	2¼	TRIP OUT
6:30	9 45	3¼	RUN IN WITH BIT #6
9 45	12 00	2¼	BREAK CIRC. & CLEAN HOLE HIT BRIDGE @ 4930

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 38 — DATE JAN 30/73

OPERATOR: CANDEL OIL.

LEASE: CANDEL ETAL TEXACO ARCTIC RED F-47

WELL NO. F-47 — FIELD OR DIST. ARCTIC RED — COUNTY — STATE N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D., TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: J. Lebar

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K55	23	889		884	750 SKS Cement 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	6½		
REAMING			7¾
CONDITIONING MUD & CIRCULATING			
TRIPS	1½	4	
LUBRICATE RIG	1¼	¼	¼
DEVIATION SURVEY	¾		
TEST B.O.P.			
CUT OFF DRILLING LINE		1¼	
REPAIR RIG		½	
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER		2	
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	9	8	7

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 8	SIZE 1 1/8
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	38
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
53	STANDS D.P.	FT.
1	SINGLES D.P.	5027.20 FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
1	6¼ O.D.	58.89 FT.
1	STB. BODY EZ6 O.D.	4.99 FT.
1	STB. BODY 6 PT O.D.	8.60 FT.
1	RMR. BODY 3 PT O.D.	5.64 FT.
3	SUBS C/B O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	35.00 FT.
	TOTAL	5708 FT.

WT. OF STRING 116,000 LBS.

BIT RECORD

BIT NO.	RR-3
SIZE	8 3/4
MFG.	H.W.
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	44815
DEPTH OUT	5708
DEPTH IN	4617
TOTAL FTG.	1091
TOTAL HR. RUN	92½
COND. OF BIT	H-1
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1:00	3:00	6:30
WEIGHT	9.7	9.7	9.7
VISC.-SEC	295	278	250
W.L.-C.C.	5.2	5.2	5.2
FLTR. CK.	2/32	2/32	2/32
PH	8.5	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1900#		

DRILLER Dave Frykas

FOOTAGE 64' — DR.-D RM.-R CORE.-C

FROM	TO		CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR.-EL-P COM'D-C
5644	5708	D			54	32M	1550	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5705	5°		4731	5°		TOTCO 4731	5°	

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	R.G. SER. & V BOP's
12:15	6:45	6½	DRLG 8¾" HOLE
6:45	7:00	¼	TELEDRIFT SURVEY @ 5705 - 6°
7:00	7:30	½	TRIP OUT W/ BIT #RR-3
7:30	8:00	½	TELEDRIFT SURVEY & TOTCO SURVEY @ 4731

LOST 6" MUD TO FORMATION

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
53	STANDS D.P.	FT.
1	SINGLES D.P.	5027.20 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	6¼ O.D.	58.89 FT.
1	STB. BODY EZ6 O.D.	4.99 FT.
1	STB. BODY 6 PT O.D.	8.60 FT.
1	RMR. BODY 3 PT O.D.	5.64 FT.
3	SUBS XO O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	35.00 FT.
	TOTAL	5708 FT.

WT. OF STRING 116,000 LBS.

BIT RECORD

BIT NO.	5
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3 1
NOZZLE SIZE	13 12
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Brian Sadoway

FOOTAGE — DR.-D RM.-R CORE.-C

FROM	TO		CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR.-EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9:00	8:15	¼	RIG SERVICE + CHECK BOPs
8:15	10:30	2¼	HOIST BITH RR-3
10:30	12:00	1½	SERVICE DRILCO ASSEMBLE GUAGE REAMERS OK
12:00	12:30	½	SERVICE TELE DRIFT + TURN TO 6-8½
12:30	1:00	½	RUN IN DCs
1:00	2:15	1¼	CUT + SLIP 49' DRILLING LINE
2:15	2:45	½	WORK ON DRINKS
2:45	4:00	1¼	RUN IN WITH BIT # 5

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	5¾ O.D.	58.89 FT.
1	STB. BODY EZ6 O.D.	4.99 FT.
1	STB. BODY 6 PT O.D.	8.60 FT.
1	RMR. BODY 3 PT O.D.	5.64 FT.
3	SUBS C/B O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	5
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3 1
NOZZLE SIZE	13 12
SER. NO.	44827
DEPTH OUT	
DEPTH IN	5708
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6:00	11:30
WEIGHT	9.7	9.7
VISC.-SEC	300	325
W.L.-C.C.		
FLTR. CK		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2800#		
Caustic	100#		
PELTEX	250#		

DRILLER Dave Frykas

FOOTAGE — DR.-D RM.-R CORE.-C

FROM	TO		CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR.-EL-P COM'D-C

DAN CHAPMAN RECEIVED CAUSTIC BURNS TO FACE & EYES @ 11:00 PM

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE + CHECK BOPs
4:15	12:00	7¾	BREAK CIR + CLEAN BRIDGE @ 4675 CLEAN TO BOTTOM

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 37 — DATE JAN 29/13

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ET AL TEXACO ARCTIC RED	F-41	ARCTIC RED		NWT

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT	TYPE THD.
Jennings International Drilling, Division of Pancana Industries Ltd.	9	2	4½	6¼ O.D.	XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: J Johnson

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝	#36	K-55	23	889		889	750 SKS CEMENT
							2% CACL

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	7½	7½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼	¼	¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE 1¼
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	37
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
50	STANDS D.P.	FT.
2	SINGLES D.P.	4776.09 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT 9 1/2 FT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 6 PT BODY O.D.	8.60 FT.
1	RMR. 3 PT BODY O.D.	5.64 FT.
3	SUBS C/O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	28.45 FT.
	TOTAL	5450.00 FT.
WT. OF STRING	110,000	LBS.

BIT RECORD

BIT NO.		3-RR
SIZE		8¾
MFG.		HW
TYPE		J-33
NOZZLE	NO.	3
	SIZE	12
SER. NO.		44815
DEPTH OUT		
DEPTH IN		4617
TOTAL FTG.		833
TOTAL HR. RUN		71
COND. OF BIT		0/B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1:00	4:00	6:00
WEIGHT	9.6	9.6	9.6
VISC.-SEC	210	295	295
W.L.-C.C.	5.0	5.0	5.0
FL.TR. CK.	2/32	2/32	2/32
PH	8.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	3400#		
PELTEX	100#		
CAUSTIC	50#		

DRILLER: Ray Lustes

FOOTAGE 114'

FROM	TO	DR. D RM. R CORE..C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
5236	5450	D		FUEL 2'3"	54	25	1700	5½	60			
					54	28	1550	5½	60			
				#1 + #2 BOILERS IN OPERATION 24 HRS.								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	5360	6°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE & CHECK BOPS
12:15	2:15	2	DRILL 8¾" HOLE
2:15	2:30	¼	TELEDRIFT SURVEY @
2:30	8:00	5½	DRILL 8¾" HOLE
	LOST 5"		MUD INTO FORMATION
			CHECK MOTOR KILLS O.K.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
51	STANDS D.P.	FT.
2	SINGLES D.P.	4869.82 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. O.D.	58.84 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 6 PT BODY O.D.	8.60 FT.
1	RMR. 3 PT BODY O.D.	5.64 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	33.00 FT.
	TOTAL	5548 FT.
WT. OF STRING	114,000	LBS.

BIT RECORD

BIT NO.		RR-3
SIZE		8 3/4
MFG.		HW
TYPE		J-33
NOZZLE	NO.	3
	SIZE	12
SER. NO.		44815
DEPTH OUT		
DEPTH IN		4617
TOTAL FTG.		931
TOTAL HR. RUN		78½
COND. OF BIT		0/B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8:00	11:00	3:30
WEIGHT	9.7	9.7	9.7
VISC.-SEC	300	250	200
W.L.-C.C.	5.0	6.0	5.6
FL.TR. CK.	2/32	2/32	2/32
PH	8.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: David Frykas

FOOTAGE 98'

FROM	TO	DR. D RM. R CORE..C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
5450	5548	D			54	25M	1600	5½	60			
						30M						

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	5490	6°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SER & V B.O.P.'S
8:15	11:45	3½	DRILL 8¾" HOLE
11:45	12:00	¼	TELEDRIFT SURVEY @ 5450 – 6°
12:00	4:00	4	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
52	STANDS D.P.	FT.
2	SINGLES D.P.	4964.10 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	PETEDRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 6 PT BODY O.D.	8.60 FT.
1	RMR. 3 PT BODY O.D.	5.64 FT.
3	SUBS XO O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	35.00 FT.
	TOTAL	5644 FT.
WT. OF STRING	116,000	LBS.

BIT RECORD

BIT NO.		RR-3
SIZE		8¾
MFG.		HW
TYPE		J-33
NOZZLE	NO.	3/
	SIZE	12
SER. NO.		44815
DEPTH OUT		5644
DEPTH IN		4617
TOTAL FTG.		1027
TOTAL HR. RUN		86
COND. OF BIT		0B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6:00	8:00	10:00
WEIGHT	9.7	9.7	9.7
VISC.-SEC	230	240	220
W.L.-C.C.	5.8	5.6	5.6
FL.TR. CK	2/32	2/32	2/32
PH	8.5	8.5	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	300#		

DRILLER: Brian Sadowsky

FOOTAGE 96

FROM	TO	DR–D RM–R CORE–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
5548	5644	D			54	32M	1550	5½	60			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	5588	5°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE & V BOP'S
4:15	7:00	2¾	DRILL 8¾" HOLE
7:00	7:15	¼	TELE DRIFT SURVEY @ 5588 – 5°
7:15	12:00	4¾	DRILL 8¾" HOLE
		8	
	LOST 3" MUD TO FORMATION.		

APPROVED — APPROVED

A.A.O.D.C.–A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 36 DATE JAN 28/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ETAL TEXACO ARCTIC RED	E-47	ARCTIC RED		NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D. — TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER Joe Lukasewich

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		#36 K-55	23	889		889	750 SKS CEMENT 2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	11½	7½	5½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼	¼	¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WC/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 8	SIZE 1¼
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD 36	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
47	STANDS D.P.	44943.4 FT.
2	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY F24 O.D.	4.99 FT.
1	STB. BODY 6 PT O.D.	8.60 FT.
1	RMR. BODY 3 PT O.D.	5.64 FT.
3	SUBS C/O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	15.11 FT.
	TOTAL	5155 FT.

WT. OF STRING 105,000 LBS.

BIT RECORD

BIT NO.	3-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	44815
DEPTH OUT	
DEPTH IN	4617
TOTAL FTG.	538
TOTAL HR. RUN	44¼
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	100	400	600
WEIGHT	9.8	9.8	9.8
VISC.-SEC	360	340	320
W.L.-C.C.	46	5.0	5.2
FLTR. CK.	2/32	2/32	2/32
PH	8.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1400#		

DRILLER Ray Lustus

FOOTAGE 95' — DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5060	5155	D	FUEL 3'11"	54	30	1750	5½	60			
			#1 + #2 BOILERS IN OPERATION	24 HRS							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	5141	5½							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	RIG SERVICE & CHECK BOPS
1215	730	7¼	DRILL 8¾" HOLE
730	745	¼	TELEDRIFT SURVEY @ 5141
745	800	¼	DRILL 8¾" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
48	STANDS D.P.	FT.
2	SINGLES D.P.	458.90 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY F24 O.D.	4.96 FT.
1	STB. BODY 6 PT O.D.	8.60 FT.
1	RMR. BODY 3 PT O.D.	5.64 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR C.B.	.25 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	18.06 FT.
	TOTAL	5252 FT.

WT. OF STRING 110,000 LBS.

BIT RECORD

BIT NO.	RR-3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	44815
DEPTH OUT	
DEPTH IN	4617
TOTAL FTG.	635
TOTAL HR. RUN	56
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	800	1200	300
WEIGHT	9.8	9.8	9.8
VISC.-SEC	350	265	285
W.L.-C.C.	4.6	4.4	4.8
FLTR. CK.	2/32	2/32	2/32
PH	8.5	8.5	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PELTEX	100#		
CAUSTIC	50#		
GEL	1800#		

DRILLER Elmer Frykas

FOOTAGE 97' — DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5155	5252	D		54	30	1600	6½	60			
					25						

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	5175	7°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼	RIG SERVICE & CHECK BOPS (PIPE RAMS)
815	1000	1¾	DRILL 8¾" HOLE
1000	1015	¼	TELEDRIFT SURVEY @ 5175 - 7°
1015	400	5¾	DRILL 8¾" HOLE

LOST 6" MUD INTO FORMATION

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
49	STANDS D.P.	461.30 FT.
1	SINGLES D.P.	FT.
18	D.C. 6¼" I.D. O.D.	540.55 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY F24 O.D.	4.99 FT.
1	STB. BODY 6 PT O.D.	8.60 FT.
1	RMR. BODY 3 PT O.D.	5.64 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	29.24 FT.
	TOTAL	5336.00 FT.

WT. OF STRING 110,000 LBS.

BIT RECORD

BIT NO.	RR-3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	44815
DEPTH OUT	
DEPTH IN	4617
TOTAL FTG.	719
TOTAL HR. RUN	63½
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	500	800	1100
WEIGHT	9.8	9.8	9.4
VISC.-SEC	260	205	210
W.L.-C.C.	4.8	5.2	5.4
FLTR. CK	2/32	2/32	2/32
PH	8.5	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	3000#		
SAWDUST	1054		

DRILLER Ray Lustus

FOOTAGE 84' — DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5252	5336	D		54	25	1600	5½	60			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	5270	6½°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	RIG SER & CHK BOPS
415	615	2	DRILL 8¾" HOLE
615	630	¼	TELEDRIFT SURVEY @ 5270 - 6½°
630	1200	5½	DRILL 8¾" HOLE

LOST 6" MUD INTO FORMATION

APPROVED APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 35 DATE JAN 27/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ET AL TEXACO ARCTIC RED

WELL NO. F-47 | FIELD OR DIST. ARCTIC RED | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 2 SIZE 4½ | TOOL JOINT 6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER Jack Fairbairn

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		#36-K-55	23	889		889	750 SKS. CEMENT 2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	½		6½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼		¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			1½
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	35
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
45	STANDS D.P.	4244.37 FT.
	SINGLES D.P.	FT.
18	D.C. I.D. 6¼ O.D.	540.55 FT.
1	D.C. TELEDRIFT I.D. O.D.	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 3 pt O.D.	5.64 FT.
1	RMR. BODY 6 pt O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	10.17 FT.
	TOTAL	4900.00 FT.
WT. OF STRING		100,000 LBS.

BIT RECORD

BIT NO.	3-RR
SIZE	8 3/4
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	44815
DEPTH OUT	
DEPTH IN	4617
TOTAL FTG.	283
TOTAL HR. RUN	27
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	10⁰⁰	4⁰⁰	6⁰⁰
WEIGHT	9.8	9.9	9.9
VISC.-SEC	385	345	365
W.L.-C.C.	5.0	5.0	5.8
FLTR. CK.	2/32	2/32	2/32
PH	9.0	8.0	9.6
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Ray Fenton

FOOTAGE 80' | DR.-D RM.-R CORE-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4820	4900	D	FUEL 5'6"	54	30	1600	5½	60			
			#1 + #2 BOILERS IN OPERATION								24 HRS

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4899	5°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	RIG SERVICE + CHECK BOP'S + BLOW OUT DRILL
12¹⁵	7⁴⁵	7½	DRILL 8¾" HOLE
7⁴⁵	8⁰⁰	¼	TELEDRIFT SURVEY @ 4899
			HELD SAFETY MEETING - RE GENERAL CARE & MAINTENANCE OF DRILLING LINE, SNUB LINES AND CAT LINES

J.L.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
45	STANDS D.P.	FT.
2	SINGLES D.P.	4307.05 FT.
18	D.C. 6¼ I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 3 pt O.D.	5.64 FT.
1	RMR. BODY 6 pt O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	FT.
	TOTAL	4993. FT.
WT. OF STRING		105,000 LBS.

BIT RECORD

BIT NO.	RR-3
SIZE	8 3/4
MFG.	H.W.
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	44815
DEPTH OUT	
DEPTH IN	4617
TOTAL FTG.	376
TOTAL HR. RUN	34¾
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	9⁰⁰	12⁰⁰	7⁰⁰
WEIGHT	9.9	9.4	9.9
VISC.-SEC	390	360	400
W.L.-C.C.	4.9	4.8	5.0
FLTR. CK.	2/32	2/32	2/32
PH	8.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Dave Fryfogel

FOOTAGE 93' | DR.-D RM.-R CORE-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4900	4993	T		54	30	1600	5½	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	R.G SER. + CHK B.O.P'S
8¹⁵	4⁰⁰	7¾	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
46	STANDS D.P.	FT.
2	SINGLES D.P.	4401.60 FT.
18	D.C. 6 1/4 I.D. O.D.	540.55 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. 5½ O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 3 pt O.D.	5.64 FT.
1	RMR. BODY 6 pt O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	12.85 FT.
	TOTAL	5060 FT.
WT. OF STRING		105 000 LBS.

BIT RECORD

BIT NO.	RR-3
SIZE	8 3/4
MFG.	H.W.
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	44815
DEPTH OUT	
DEPTH IN	4617
TOTAL FTG.	443
TOTAL HR. RUN	40¾
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4⁰⁰	8⁰⁰	16⁰⁰
WEIGHT	9.9	9.9	9.9
VISC.-SEC	355	360	305
W.L.-C.C.	6.0	5.0	5.4
FLTR. CK	2/32	2/32	2/32
PH	8.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2400#		
CAUSTIC	50#		
PELTEX	100#		

DRILLER Ray Fenton

FOOTAGE 67' | DR-D RM-R CORE-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4993	5060	D		54	30m	1600	5½	60	-	-	-

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5020	6½							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	R.G SERVICE & CHECK B.O.P.'S
4¹⁵	7⁰⁰	2¾	DRILL 8¾" HOLE
7⁰⁰	7¹⁵	¼	TELEDRIFT SURVEY @ 5020
7¹⁵	8⁴⁵	1½	CHANGE WASHPIPE PACKING
8⁴⁵	12⁰⁰	3¾	DRILL 8¾" HOLE
			HELD SAFETY MEETING RE USE & CARE OF FIRE EXTINGUISHERS

J.L.

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 34 DATE JAN 26/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ET AL TEXACO ARCTIC RED

WELL NO. F-41 | FIELD OR DIST. ARCTIC RED | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 2 SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lubaczewski

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2	EMSCO	DA-500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		#36 K-55	23	889		889	750 SK. CEMENT 2% CACL

TIME DISTRIBUTION--HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	3¼	7¾	7½
REAMING			
CONDITIONING MUD & CIRCULATING	¾		
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼		¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK | HRS. W/DP | HRS. WO/DP | HRS. STANDBY | TOTAL DAY WORK

WIRE LINE RECORD

REEL NO. | NO. OF LINES 8 SIZE 1⅛ | FEET SLIPPED | FEET CUT OFF | PRESENT LENGTH | TON MI. OR TRIPS SINCE LAST CUT | CUMULATIVE TON MI. OR TRIPS | NO. OF DAYS FROM SPUD 34 | CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
42	STANDS D.P.	3962.70 FT.
1	SINGLES D.P.	30.24 FT.
18	D.C. 6¼ I.D. 6¼ O.D.	540.55 FT.
1	D.C. TELEDRIFT I.D. 5⅞ O.D.	10.99
2		59.99 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3PT BODY O.D.	5.64 FT.
1	RMR. 6PT BODY O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	21.60 FT.
	TOTAL	4660.00 FT.

WT. OF STRING 102,000 LBS.

BIT RECORD

BIT NO.	3-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	44815
DEPTH OUT	
DEPTH IN	4617
TOTAL FTG.	43'
TOTAL HR. RUN	4¾
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	3⁰⁰	5⁰⁰	7⁰⁰
WEIGHT	9.8	9.7	9.7
VISC.-SEC	400+	385	400
W.L.-C.C.	6.6	6.8	6.6
FLTR. CK.	2/32	3/32	2/32
PH	8.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	4300#		
Poly Plastic	500#		

DRILLER Ray Heaton

FOOTAGE 43'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4617	4660	D		FUEL 3'4"	54	30	1550	5½	60			
				#1 & #2 BOILERS IN OPERATION 24 HRS.								

DEVIATION RECORD: DEPTH 4649 DEV. 5° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	RIG SERVICE + CHECK BOP'S
12¹⁵	3³⁰	3¼	CLEAN TO BOTTOM
3³⁰	6⁴⁵	3¼	DRILL 8¾" HOLE
6⁴⁵	7⁰⁰	¼	TELEDRIFT SURVEY @ 4649
7⁰⁰	8⁰⁰	1	DRILL 8¾" HOLE
			LOST 6" MUD IN FORMATION OVER 4½ HOURS.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
43	STANDS D.P.	4055.71 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. 6¼ O.D.	540.55 FT.
1	D.C. TELEDRIFT I.D. 5⅞ O.D.	10.97
2		58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3PT BODY O.D.	5.64 FT.
1	RMR. 6PT BODY O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	4742. FT.

WT. OF STRING 93,000 LBS.

BIT RECORD

BIT NO.	RR3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	44815
DEPTH OUT	
DEPTH IN	4617
TOTAL FTG.	125
TOTAL HR. RUN	12.
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8⁰⁰	12⁰⁰	3⁰⁰
WEIGHT	9.7	9.7	9.7
VISC.-SEC	400+	295	350
W.L.-C.C.	4.6	4.6	4.8
FLTR. CK.	2/32	2/32	2/32
PH	8.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
100#	PELTEX		
50#	CAUSTIC		
2000#	GEL		

DRILLER Dave Frykas

FOOTAGE 82'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4660	4742	D			54	30	1000	5½	60			

DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	RIG SERVICE & V BOP'S
8¹⁵	4⁰⁰	7¾	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
44	STANDS D.P.	4149.48 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼	540.55
1	TELEDRIFT O.D.	10.97 FT.
2	D.C. I.D. O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3PT BODY O.D.	5.64 FT.
1	RMR. 6PT BODY O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	25.06 FT.
1	TOTAL	4820.00 FT.

WT. OF STRING 95000 LBS.

BIT RECORD

BIT NO.	RR3
SIZE	8¾
MFG.	H.W.
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	44815
DEPTH OUT	
DEPTH IN	4617
TOTAL FTG.	203
TOTAL HR. RUN	19½
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4⁰⁰	7⁰⁰	9⁰⁰
WEIGHT	9.7	9.8	9.8
VISC.-SEC	425	400+	400+
W.L.-C.C.	4.8	4.8	5.0
FLTR. CK	2/32	2/32	2/32
PH	8.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1200		
PELTEX	100#		
CAUSTIC	50#		

DRILLER Ray Heaton

FOOTAGE 78

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4742	4820	D			54	30m	1300	5½	58			

DEVIATION RECORD | DEPTH 4770 | DEV. 5° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	RIG SER. & V BOP'S
4¹⁵	7³⁰	3¼	DRILL 8¾" HOLE
7³⁰	7⁴⁵	¼	TELEDRIFT SURVEY @ 4770
7⁴⁵	12⁰⁰	4¼	DRILL 8¾" HOLE

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 33 DATE JAN 25/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED

WELL NO. F-41 | FIELD OR DIST. ARCTIC RED | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	9⅝		#36 K-55	23	889		889	750 SKS. CEMENT 2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	6¾		¾
TRIPS	1		2¼
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			1½
REPAIR RIG			1¾
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8		8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1¼

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 33

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
43	STANDS D.P.	40551/2 FT.	
	SINGLES D.P.	FT.	
18	D.C. 6¼ I.D. 2¼ O.D.	540.53 FT.	
	D.C. I.D. O.D.	FT.	
	STB. BODY O.D.	FT.	
	STB. BODY O.D.	FT.	
	RMR. BODY O.D.	FT.	
1	SUBS 4½ O.D.	1.50 FT.	
1	BIT OR C.B.	.75 FT.	
1	Bit SUB	2.97 FT.	
	KELLY DOWN	15.60 FT.	
	TOTAL	461.902 FT.	
WT. OF STRING	95000 LBS.		

BIT RECORD	
BIT NO.	4
SIZE	8¾
MFG.	HW
TYPE	X16
NOZZLE NO.	1 2
NOZZLE SIZE	11 12
SER. NO.	31340
DEPTH OUT	
DEPTH IN	4235
TOTAL FTG.	577
TOTAL HR. RUN	7½
COND. OF BIT	0/8
REAMER NO.	
REAMER TYPE	

MUD RECORD		
TIME	100	400
WEIGHT	10.	10.
VISC.-SEC	500#	500#
W.L.-C.C.	6.2	6.2
FL.TR. CK.	2/32	2/32
PH	8.	8
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL			

DRILLER Ray J. Lesters

FOOTAGE FROM	TO	DR.,D RM.,R CORE.,C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
				FUEL 4'7"	54	5M	1400	5½	60			
				#1 1½ 2 BOILERS IN OPERATION 24 HRS.								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1900	1215	½	RIG SERVICE + CHECK BOPS
1215	500	4¾	CLEAN HOLE TO BOTTOM
500	600	1	CIRC ON BOTTOM
600	700	1	DUMMY TRIP 12 STANDS 20' FILL
700	800	1	CIRC ON BOTTOM

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.	FT.	
	SINGLES D.P.	FT.	
	D.C. I.D. O.D.	FT.	
	D.C. I.D. O.D.	FT.	
	STB. BODY O.D.	FT.	
	STB. BODY O.D.	FT.	
	RMR. BODY O.D.	FT.	
	SUBS O.D.	FT.	
	BIT OR C.B.	FT.	
		FT.	
	KELLY DOWN	FT.	
	TOTAL	FT.	
WT. OF STRING		LBS.	

BIT RECORD	
BIT NO.	4
SIZE	8¾
MFG.	H.W.
TYPE	X16
NOZZLE NO.	1 3
NOZZLE SIZE	11 12
SER. NO.	31340
DEPTH OUT	4617
DEPTH IN	4235
TOTAL FTG.	577
TOTAL HR. RUN	75¼
COND. OF BIT	211
REAMER NO.	
REAMER TYPE	

MUD RECORD		
TIME	800	
WEIGHT	9.9	
VISC.-SEC	400+	
W.L.-C.C.	5.4	
FL.TR. CK.	2/32	
PH	8.5	
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Dave Frykas

FOOTAGE FROM	TO	DR.,D RM.,R CORE.,C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4617					54	10M	1300	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼	RIG SERVICE + ✓ B.O.P'S CHECK DRILLING LINE
815	900	¾	CIRC ON BOTTOM
900	1115	2¼	TRIP OUT
1115	400	4¾	INSPECT DRILL COLLARS KELLY AND ALL SUBS
			NOTE- LAYED DOWN 2 DRILL COLLARS DAMAGED PINS
	1		DAMAGED SAVER SUB

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
41	STANDS D.P.	39312 FT.	
2	SINGLES D.P.	FT.	
18	D.C. 6¼ I.D. 2¼ O.D.	540.55 FT.	
1	D.C. ELE DRIP I.D. O.D.	10.97	
2	I.D. SQ O.D.	58.89 FT.	
1	STB. 6 PT BODY O.D.	8.60 FT.	
1	STB. 3 PT BODY O.D.	5.04 FT.	
1	RMR. EZY BODY O.D.	4.99 FT.	
3	SUBS 4½ REG O.D.	4.42 FT.	
	BIT OR C.B.	.75 FT.	
1	SHOCK SUB	10.65 FT.	
	KELLY DOWN	40.42 FT.	
	TOTAL	461.700 FT.	
WT. OF STRING	100000 LBS.		

BIT RECORD	
BIT NO.	3-RR
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	44415
DEPTH OUT	
DEPTH IN	4617
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD		
TIME	1100	
WEIGHT	9.9	
VISC.-SEC	450+	
W.L.-C.C.	5.2	
FL.TR. CK	3/32	
PH	8.5	
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Ray J. Lesters

FOOTAGE FROM	TO	DR.,D RM.,R CORE.,C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4617												

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	RIG SERVICE CHECK BLIND RAMS
415	600	1¾	CHANGE KELLYS CHECK BUSHINGS
600	730	1½	SLIP & CUT 98' DRILLING LINE
730	830	1	PICK UP SQ DRLG ASSEMBLY & SHOCK SUB
830	1045	2¼	RUN IN HOLE
1045	1115	½	CIRC 10 STANDS OFF BOTTOM
1115	1145	½	RUN IN TO BOTTOM
1145	1200	¼	CLEAN OUT FROM 4450 TO BTM

APPROVED

APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT 32 REPORT NO. 32 DATE JAN 24/73

OPERATOR: CANDEL OIL

LEASE: CANDELET AL TEXACO ARCTIC RED

WELL NO. E-47 FIELD OR DIST. ARCTIC RED COUNTY STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 2 SIZE 4 1/2 TOOL JOINT 6 1/4 O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		#36 K-55	23	889		889	750 SKS CEMENT 2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING		7 3/4	
CONDITIONING MUD & CIRCULATING	6		6
TRIPS	1 3/4		1 3/4
LUBRICATE RIG	1/4	1/4	1/4
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	1

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1 1/8
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	32
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
41	STANDS D.P.	38672	FT.
	SINGLES D.P.		FT.
18	D.C. 6 1/4 I.D. O.D.	540.53	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	1.50	FT.
1	BIT OR C.B.	.75	FT.
1	BIT SUB		FT.
	KELLY DOWN	8.53	FT.
	TOTAL	4422	FT.
WT. OF STRING	90000		LBS.

BIT RECORD

BIT NO.	4
SIZE	8 3/4
MFG.	HW
TYPE	X16
NOZZLE NO.	1 2
NOZZLE SIZE	11 12
SER. NO.	31340
DEPTH OUT	4617
DEPTH IN	4235
TOTAL FTG.	382
TOTAL HR. RUN	60 3/4
COND. OF BIT	0/8
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	100	600	
WEIGHT	9.8	9.9	
VISC.-SEC	350+	325	
W.L.-C.C.	5.8	5.8	
FLTR. CK.	2/32	2/32	
PH	8.0	8.0	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	900#		

DRILLER Ray Lester

FOOTAGE

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP.-C
4617	4617			FUEL 6'2"	54	3/10	1350	5 1/4	58			
				#1 & #2 BOILERS IN OPERATION 24HRS								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	1/4	RIG SERVICE + CHECK BOPS
12 15	2 00	1 3/4	CIRC ON BOTTOM
2 00	3 45	1 3/4	DUMMY TRIP 12 STANDS H.T BRIDGE 3 STANDS UP
3 45	8 00	4 1/4	CIRC BRIDGE @ 4320-4422 OFF BTM.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
42	STANDS D.P.		FT.
1	SINGLES D.P.	3993.98	FT.
18	D.C. 6 1/4 I.D. O.D.	540.53	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	1.50	FT.
1	BIT OR C.B.	.75	FT.
1	BIT SUB	2.97	FT.
	KELLY DOWN	20.00	FT.
	TOTAL	4569	FT.
WT. OF STRING	95,000		LBS.

BIT RECORD

BIT NO.	4
SIZE	8 3/4
MFG.	H.W.
TYPE	X16
NOZZLE NO.	1 2
NOZZLE SIZE	11 12
SER. NO.	31340
DEPTH OUT	
DEPTH IN	4235
TOTAL FTG.	
TOTAL HR. RUN	68 1/2
COND. OF BIT	0/8
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	800	1200	400
WEIGHT	9.9	9.9	9.9
VISC.-SEC	400+	300	400+
W.L.-C.C.	58	5.1	5.0
FLTR. CK.	2/32	2/32	2/32
PH	8.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	600#		

DRILLER Dave Snyder

FOOTAGE 147'

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP.-C
4422	4569	RM			54	5/10	1250	5 1/2	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	8 15	1/4	RIG SERVICE & UBOP'S
8 15	9 00	7 3/4	CLEAN OUT HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
43	STANDS D.P.	40356	FT.
	SINGLES D.P.		FT.
18	D.C. 6 1/4 I.D. O.D.	540.53	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	1.50	FT.
	BIT OR C.B.	.75	FT.
1	BIT SUB	2.97	FT.
	KELLY DOWN	16.00	FT.
	TOTAL	4617	FT.
WT. OF STRING	95,000		LBS.

BIT RECORD

BIT NO.	4
SIZE	8 3/4
MFG.	HW
TYPE	X16
NOZZLE NO.	1 2
NOZZLE SIZE	11 12
SER. NO.	31340
DEPTH OUT	
DEPTH IN	4235
TOTAL FTG.	382
TOTAL HR. RUN	70 1/2
COND. OF BIT	0/8
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	600	800	1000
WEIGHT	9.9	9.9	9.9
VISC.-SEC	390	240	250
W.L.-C.C.	4.6	5.2	5.6
FLTR. CK	2/32	2/32	2/32
PH	8.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	900#		

DRILLER Ray Lester

FOOTAGE 48'

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP.-C
4569	4617				54	10M	1500	5 1/2	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	1/4	RIG SERVICE & UBOP'S
4 15	6 15	2	CLEAN OUT HOLE
6 15	7 45	1 1/2	CIRC ON BOTTOM
7 45	9 30	1 3/4	DUMMY TRIP
9 30	12 00	2 1/2	CIRC OUT BRIDGE @ 4500-4617

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 31 — DATE JAN 23/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ET AL TEXACO ARCTIC RED

WELL NO.: F-41 — FIELD OR DIST.: ARCTIC RED — COUNTY — STATE: N W T

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO.: 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D., TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Kubasewich

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		? K-55	23	889		889	750 SKS CEMENT 2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	7¾	7¾	7¾
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1 1/8
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	31
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
41	STANDS D.P.	3867.72 FT.
	SINGLES D.P.	FT.
18	D.C. 6 ¼ I.D. O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	Bit SUB	2.97 FT.
	KELLY DOWN	8.53 FT.
	TOTAL	4422.00 FT.
WT. OF STRING	92000	LBS.

BIT RECORD

BIT NO.		H
SIZE		8 3/4
MFG.		HW
TYPE		X16
NOZZLE	NO.	1 2
	SIZE	11 12
SER. NO.		31340
DEPTH OUT		
DEPTH IN		4235
TOTAL FTG.		187
TOTAL HR. RUN		45¼
COND. OF BIT		0/B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	100	400	600
WEIGHT	9.6	9.6	9.6
VISC.-SEC	285	315	280
W.L.-C.C.	5.8	5.8	5.8
FL.TR. CK.	2/32	2/32	2/32
PH	8.5	8.5	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
P&L 4-PLASE	500#		
CEL	1600		

DRILLER: Ray Lustro

FOOTAGE 82' — DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4340	4422	CLEAN OUT TRIP	FUEL 7'10"	54	10M	1350	5½	58			
		1 + #2	BOILERS IN OPERATION	24 HRS.							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	RIG SERVICE + CHECK BOP'S
12 15	8 00	7¾	CLEAN OUT SLUFFING HOLE
			DRAWWORKS BRAKE LINKAGE CHECK O.K.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
41	STANDS D.P.	FT.
2	SINGLES D.P.	3931.12 FT.
18	D.C. 6 ¼ I.D. O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	75 FT.
1	Bit Sub	2.97 FT.
	KELLY DOWN	20.00 FT.
	TOTAL	44.96 FT.
WT. OF STRING	95,000	LBS.

BIT RECORD

BIT NO.		4
SIZE		8 3/4
MFG.		HW
TYPE		X16
NOZZLE	NO.	1 2
	SIZE	11 12
SER. NO.		31340
DEPTH OUT		
DEPTH IN		4235
TOTAL FTG.		261
TOTAL HR. RUN		53
COND. OF BIT		0/B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	800	1200	330
WEIGHT	9.7	9.7+	9.8
VISC.-SEC	350	340	340
W.L.-C.C.	6.0	5.8	6.0
FL.TR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Dave Frykas

FOOTAGE 74' — DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4422	4496	RM		54	10M	1250	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	1/4	R.C SERVICE & V B.O.P'S
815	400	7 3/4	CLEAN OUT TIGHT HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
43	STANDS D.P.	4055.66 FT.
	SINGLES D.P.	FT.
18	D.C. 6 1/4 I.D. O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	15.60 FT.
	TOTAL	4617.00 FT.
WT. OF STRING	95000	LBS.

BIT RECORD

BIT NO.		4
SIZE		8 3/4
MFG.		HW
TYPE		X16
NOZZLE	NO.	1 2
	SIZE	11 12
SER. NO.		31340
DEPTH OUT		4617
DEPTH IN		4235
TOTAL FTG.		382
TOTAL HR. RUN		60¾
COND. OF BIT		0/3
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	400	800	1100
WEIGHT	9.8	9.8	9.8
VISC.-SEC	340	225	215
W.L.-C.C.	6.0	5.8	5.8
FL.TR. CK	2/32	2/32	2/32
PH	9.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ray Lustro

FOOTAGE 121 — DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4496	4617	RM		50	10M	1250	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	1/4	R.C SER & V B.O.P'S
415	1200	7¾	CLEAN OUT HOLE.

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 29 DATE JAN 21/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARCTIC RED

WELL NO. F-47 FIELD OR DIST. ARCTIC RED COUNTY STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 2 SIZE 4½ TOOL JOINT 6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		#36 K-55	23	889		889	750 SKS CEMENT
							2% CALCIUM

TIME DISTRIBUTION--HOURS

	MORN	DAY	EVE
TRIP & REAR DOWN			
DRILLING ACTUAL			
REAMING		7	7¾
CONDITIONING MUD & CIRCULATING	5		
TRIPS	2¾		
LUBRICATE RIG	¼	11¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER		¼	
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.

NO. OF LINES 9 SIZE 1/4

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 29

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
39	STANDS D.P.	3679.74 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS 9/8 O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	14.51 FT.
	TOTAL	4240.00 FT.

WT. OF STRING 90000 LBS.

BIT RECORD

BIT NO.	2RR	4
SIZE	8¾	8¾
MFG.	HW	HW
TYPE	XIC	XIC
NOZZLE NO.	1 2	1 2
NOZZLE SIZE	11 12	11 12
SER. NO.	44644	31340
DEPTH OUT	4225	
DEPTH IN		4225
TOTAL FTG.	6'	5'
TOTAL HR. RUN		5
COND. OF BIT	3 2 2	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	400		
WEIGHT	9.3		
VISC.-SEC	80		
W.L.-C.C.	7.2		
FLTR. CK.	3/32		
PH	9.5		
SD. CONT. %			
PRESSURE GRADIENT	DESILTER OVERFLOW .93		
	UNDERFLOW .98		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Poly-Plastic	1000 #		

DRILLER Ray Lester

FOOTAGE 5'

FROM	TO	DR.,D RM.,R CORE.,C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.,S PAR'EL-P COM'D-C
4235	4240	RM.		FUEL 2'4"								
		#1+#2		BOILERS IN OPERATION 24 HRS.								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	RIG SERVICE & CHECK BOPS BLIND RAMS O.K.
12 15	12 45	½	FINISH TRIPPING OUT OF HOLE
12 45	1 15	½	CHANGE BIT
1 15	2 30	1¼	RUN IN HOLE W/ NEW BIT
2 30	3 00	½	CIRC OUT BRIDGE @ 3785'
3 00	3 30	½	FINISH TRIPPING IN TO TIGHT SPOT
3 30	8 00	4½	BREAK CIRC & CLEAN OUT HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
39	STANDS D.P.	FT
1	SINGLES D.P.	3709.97 FT.
	D.C. I.D. O.D.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS 9/8 O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	20.00 FT.
	TOTAL	4275.00 FT.

WT. OF STRING 90,000 LBS.

BIT RECORD

BIT NO.	4	
SIZE	8¾	
MFG.	HW	
TYPE	XIC	
NOZZLE NO.	1 2	
NOZZLE SIZE	11 12	
SER. NO.	31340	
DEPTH OUT		
DEPTH IN	4225	
TOTAL FTG.	40	
TOTAL HR. RUN	12¾	
COND. OF BIT	0/6	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	900	1200	400
WEIGHT	9.4	9.4	9.4
VISC.-SEC	65	90	8.0
W.L.-C.C.	6.1	6.2	6.2
FLTR. CK.	2/32	2/32	2/32
PH	9.5	9.5	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1600#		

DRILLER Blaine Frykas

FOOTAGE 35'

FROM	TO	DR.,D RM.,R CORE.,C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.,S PAR'EL-P COM'D-C
4240	4275	RM					12**	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼	RIG SERVICE & V. BOPS
815	1213	4	REAM & CLEAN TIGHT HOLE
1213	1230	¼	BLOW OUT DRILL & CHECK ENGINE KILL OK
1230	400	3½	CLEAN TIGHT HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
39	STANDS D.P.	FT.
1	SINGLES D.P.	3709.97 FT.
	D.C. I.D. O.D.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS 9/8 O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	35.03 FT.
	TOTAL	4290.00 FT.

WT. OF STRING 90,000 LBS.

BIT RECORD

BIT NO.	4	
SIZE	8¾	
MFG.	H.W.	
TYPE	XIC	
NOZZLE NO.	1 2	
NOZZLE SIZE	11 12	
SER. NO.	31340	
DEPTH OUT		
DEPTH IN	4225	
TOTAL FTG.	55	
TOTAL HR. RUN	20¾	
COND. OF BIT	0/3	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	600	800	1000
WEIGHT	9.4	9.4	9.4
VISC.-SEC	81	120	90
W.L.-C.C.	6.2	5.8	
FLTR. CK	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	4500#		

DRILLER Ray Lester

FOOTAGE 15'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.,S PAR'EL-P COM'D-C
4275	4290	RM			54	10M	12**	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	RIG SER. TOPS
415	1200	7¾	CLEAN OUT TIGHT HOLE

APPROVED

APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 30 DATE JAN 22/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ET AL TEXACO ARCTIC RED F-41

WELL NO. F-41 | FIELD OR DIST. ARCTIC RED | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. | RIG NO. 9

DRILL PIPE STRING NO. 12 SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. XH

SIGNATURES OF OPERATOR'S REPRESENTATIVE | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukasewich

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		#36 K-55	23	889		889	750 SKS CEMENT
							2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	7¾	7¾	7¾
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE 1 1/16
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	30
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
39	STANDS D.P.	FT.
1	SINGLES D.P.	370991 FT.
18	D.C. 6¼ I.D. O.D.	540 53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/C O.D.	1.50 FT.
1	BIT OR C.B.	75 FT.
1	Bit Sub	2 97 FT.
	KELLY DOWN	3503 FT.
	TOTAL	4290 00 FT.

WT. OF STRING 90000 LBS.

BIT RECORD

BIT NO.	H
SIZE	8¾
MFG.	HW
TYPE	XIG
NOZZLE NO.	1 2
NOZZLE SIZE	11 12
SER. NO.	31340
DEPTH OUT	
DEPTH IN	4225
TOTAL FTG.	55
TOTAL HR. RUN	28
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	100	400	600
WEIGHT	9.4	9.4	9.4
VISC.-SEC	185	170	285
W.L.-C.C.	6.2	6.2	6.1
FL.TR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	900#		

DRILLER Ray Fosters

FOOTAGE 0

FROM	TO	DR. D RM. R CORE..C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4290	4290	Rm		FUEL 4'10"	54	5M	1300	5½	58			
				#1 + #2 BOILERS IN OPERATION 24 HRS								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	RIG SERVICE + CHECK BOPS
1215	800	7¾	CLEAN OUT SLUFFING HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
39	STANDS D.P.	FT.
2	SINGLES D.P.	374663 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/C O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	12 FT.
	TOTAL	4299 FT.

WT. OF STRING 92,000 LBS.

BIT RECORD

BIT NO.	H
SIZE	8¾
MFG.	HW
TYPE	XIG
NOZZLE NO.	~~1 2~~
NOZZLE SIZE	11 12
SER. NO.	31340
DEPTH OUT	
DEPTH IN	4225
TOTAL FTG.	64
TOTAL HR. RUN	35¾
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	800	100	400
WEIGHT	9.4	9.4	9.4
VISC.-SEC	285	290	280
W.L.-C.C.	6.2	6.2	6.1
FL.TR. CK.	2/32	2/32	2/32
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Dave Frykas

FOOTAGE 9'

FROM	TO	DR. D RM. R CORE..C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4290	4299	RM			54	5M	1300	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	1¼	RIG SER. & 1 BOPS
815	400	7¾	CLEAN OUT TIGHT HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
40	STANDS D.P.	3772.78 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/C O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	21.47 FT.
	TOTAL	4340 FT.

WT. OF STRING 92,000 LBS.

BIT RECORD

BIT NO.	4
SIZE	8¾
MFG.	HW
TYPE	XIG
NOZZLE NO.	1 2
NOZZLE SIZE	11 12
SER. NO.	31340
DEPTH OUT	
DEPTH IN	4225
TOTAL FTG.	105'
TOTAL HR. RUN	32½
COND. OF BIT	2/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	600	800	1100
WEIGHT	9.4	9.4	9.4
VISC.-SEC	280	260	230
W.L.-C.C.	6.2	6.2	6.2
FL.TR. CK	2/32	2/32	2/32
PH	8.5	8.5	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1200#		

DRILLER Ray Fosters

FOOTAGE 41'

FROM	TO	DR.-D RM.-R CORE..C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4299	4340	RM			54	5M	1300	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	1¼	RIG SER. & 1 BOPS
415	1200	7¾	CLEAN OUT TIGHT HOLE

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 28 DATE JAN 20/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ET AL TEXACO ARCTIC RED F-41

WELL NO. F-41 | FIELD OR DIST. ARCTIC RED | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 2 SIZE 4½ | TOOL JOINT 6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lucas

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		#36-K-55	23	889		889	750 SKS CEMENT 2% CACL

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	7¾	7¾	5¾
CONDITIONING MUD & CIRCULATING			
TRIPS			2½
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK | HRS. W/DP | HRS. WO/DP | HRS. STANDBY | TOTAL DAY WORK

WIRE LINE RECORD

REEL NO. | NO. OF LINES | SIZE | FEET SLIPPED | FEET CUT OFF | PRESENT LENGTH | TON MI. OR TRIPS SINCE LAST CUT | CUMULATIVE TON MI. OR TRIPS | NO. OF DAYS FROM SPUD | CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
99	STANDS D.P.	3679.74 FT.
	SINGLES D.P.	FT.
18	D.C. I.D. 6 21/64 O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.99 FT.
	KELLY DOWN	10.26 FT.
	TOTAL	4235 FT.
WT. OF STRING	90,000	LBS.

BIT RECORD: BIT NO. 2RR | SIZE 8¾ | MFG. HW | TYPE XIC | NOZZLE NO. 1 2 | SIZE 11 12 | SER. NO. 44644 | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD

TIME	1⁰⁰	3⁰⁰	7⁰⁰
WEIGHT	9.3	9.3	9.3
VISC.-SEC	85	87	90
W.L.-C.C.	8.5	8.5	8.6
FLTR. CK.	3/32	3/32	3/32
PH	9.5	9.5	9.5
SD. CONT. %	DESILTER		
PRESSURE GRADIENT	UNDERFLOW - 9.6		
	OVERFLOW - 9.3		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1200#		

DRILLER: Ray J Lestrup

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4140	4235			FUEL 3'11"								
				BOILERS #1 #2 IN OPERATION 24 HRS.								

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	RIG SERVISE
12¹⁵	8⁰⁰	7¾	CLEAN OUT HOLE

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
38	STANDS D.P.	FT.
2	SINGLES D.P.	364.98 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	20.00 FT.
	TOTAL	4213.75 FT.
WT. OF STRING	90,000	LBS.

BIT RECORD: BIT NO. 2RR | SIZE 8¾ | MFG. HW | TYPE XIC | NOZZLE NO. 1 1 | SIZE 12 11 | SER. NO. 44644 | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD

TIME	8³⁰	12⁰⁰	3³⁰
WEIGHT	9.3	9.3	9.4
VISC.-SEC	96	92	90
W.L.-C.C.	6.3	6.3	6.4
FLTR. CK.	2/32	2/32	2/32
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1500#		

DRILLER: Dave Fayfear

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4235		RM			54	5M	1200	5½	59			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	RIG SER. & V BOP'S
8¹⁵	4⁰⁰	7¾	CLEAN OUT TIGHT HOLE

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO. 2RR | SIZE 8¾ | MFG. HW | TYPE XIC | NOZZLE NO. 3 1 | SIZE 12 11 | SER. NO. 44644 | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD

TIME	5⁰⁰		
WEIGHT	9.4		
VISC.-SEC	78		
W.L.-C.C.	7.2		
FLTR. CK	3/32		
PH	9.5		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ray J Lestrup

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
					54							

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	RIG SER. & V BOP'S
4¹⁵	9³⁰	5¼	CLEAN OUT TIGHT HOLE
9³⁰	12⁰⁰	2½	TRIP OUT OF HOLE - TIGHT

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 27 DATE JAN 19, 1973

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ET AL TEXACO ARTIC RED E-47	E-47	ARTIC RED		NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industr... Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D., TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Rubasenuk

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA500	16
2.	EMSCO	DA500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K-55	23	889		889	750 CEMENT
							2% CA

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7¾	7¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
COLING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK
HRS. W/DP
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.
NO. OF LINES 8 SIZE 1/8
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
35	STANDS D.P.	FT.
1	SINGLES D.P.	3323.60 FT.
18	D.C. I.D. 6¼ O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS XO O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BITSUB	2.97 FT.
	KELLY DOWN	35.00 FT.
	TOTAL	3905 FT.
WT. OF STRING	90.000 LBS.	

BIT RECORD

BIT NO.	5 RR
SIZE	8¾
MFG.	HW
TYPE	X46
NOZZLE NO.	1 2
NOZZLE SIZE	11 12
SER. NO.	44644
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2:00	4:00	6:00
WEIGHT	9	9	9+
VISC.-SEC	60	60	60
W.L.-C.C.	7.6	7.8	7.2
FLTR. CK.	2/32	2/32	2/32
PH	10	10	10
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2500#		

DRILLER: Brian Ladouceur

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3665	3905	RM		FUEL 5½ FT	54	4	1200	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE + CHECK BOPs
12:15	8:00	7¾	CLEAN TIGHT HOLE.
			LOST 2" MUD IN TO FORMATION

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
36	STANDS D.P.	3427.54 FT.
5	SINGLES D.P.	FT.
18	D.C. I.D. 6¼ O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS ⅛ O.D.	1.50 FT.
1	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	6.71 FT.
	TOTAL	3960.00 FT.
WT. OF STRING	95.000 LBS.	

BIT RECORD

BIT NO.	2 RR
SIZE	8¾
MFG.	HW
TYPE	XIC
NOZZLE NO.	1 2
NOZZLE SIZE	11 12
SER. NO.	44644
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:30	11:30	3:00
WEIGHT	9.2	9.2	9.2
VISC.-SEC	62	78	100
W.L.-C.C.	7.8	8.0	6.4
FLTR. CK.	2/32	2/32	2/32
PH	10.	9.5	10.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
4500#			

DRILLER: Ray Lestro

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3905	3960				54	4	1200	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE & CHECK BOPS
8:15	4:00	7¾	CLEAN TIGHT HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
38	STANDS D.P.	3585.04 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS ⅛ O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
1	BIT SUB	2.97 FT.
	KELLY DOWN	10.00 FT.
	TOTAL	4140.00 FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	2 RR
SIZE	8¾
MFG.	H.W.
TYPE	XIC
NOZZLE NO.	1 2
NOZZLE SIZE	11 12
SER. NO.	44644
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:00	8:00	11:00
WEIGHT	9.2	9.3	9.3
VISC.-SEC	90	100	97
W.L.-C.C.	8.4	8.6	8.6
FLTR. CK	2/32	2/32	2/32
PH	10.0	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1200#		

DRILLER: Glenn Fayhee

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3960	4140	RM			54	4	1200	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE & ✓ B.O.P's
4:15	12:00	7¾	CLEAN OUT TIGHT HOLE

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 26 DATE JAN 18, 1973

OPERATOR: CANDEL OIL

LEASE: CANDEL ET AL TEXACO ARTIC RED F-47

WELL NO. F-47 FIELD OR DIST. ARTIC RED COUNTY STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Tchuscewich

DRILL PIPE STRING: NO. A, SIZE 4½ — TOOL JOINT 6¼ O.D., TYPE THD. XH

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA500	16
2.	EMSCO	DA500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K-55	23	889		889	750 CEMENT 27% CA.

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	7¾		
CONDITIONING MUD & CIRCULATING		7	7¾
TRIPS		3¼	
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	1	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1⅛

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD 26

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
30	STANDS D.P.		FT.
1	SINGLES D.P.	2 858.90	FT.
	D.C. 6¼ I.D. O.D.		
18		540.53	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS XO O.D.	1.50	FT.
	BIT ~~OR C.B.~~	.75	FT.
1	BIT SUB	2.97	FT.
	KELLY DOWN	41.00	FT.
	TOTAL	3441	FT.
WT. OF STRING		86,000	LBS.

BIT RECORD

BIT NO.	2 RR
SIZE	8¾
MFG.	HW
TYPE	X16
NOZZLE NO.	1 2
NOZZLE SIZE	11 12
SER. NO.	44644
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2:00	11:00	6:00
WEIGHT	8.4	8.8	8.6
VISC.-SEC	63	60	65
W.L.-C.C.	8.8	8.4	8.2
FL.TR. CK.	2/32		
PH	10.5	10.5	10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Brian Galloway

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
				FUEL 7'								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE + CHECK BOPs
12:15	8:00	7¾	~~REAM~~ CLEANING SLUFFING HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
31	STANDS D.P.	2 987.76	
0	SINGLES D.P.		FT.
18	D.C. 6¼ I.D. O.D.	540.53	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
1	RMR. BIT SUB BODY O.D.	2.97	FT.
1	SUBS XO O.D.	1.50	FT.
1	BIT ~~OR C.B.~~	.75	FT.
			FT.
	KELLY DOWN	28.42	FT.
	TOTAL	3560	FT.
WT. OF STRING		90 000	LBS.

BIT RECORD

BIT NO.	2RR
SIZE	8¾
MFG.	HW
TYPE	X16
NOZZLE NO.	1 2
NOZZLE SIZE	11 11
SER. NO.	44644
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	9:00	2:00	
WEIGHT	8.8	9.0	
VISC.-SEC	62	72	
W.L.-C.C.	7.8	8.0	
FL.TR. CK.	3/32	3/32	
PH	10.5	10.0	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2000#		

DRILLER: Ray Lesters

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3441	3560	Rm										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	8 15	¼	RIG SERVICE + CHECK BOPs
8 15	1 45	5½	CLEAN OUT TIGHT HOLE
1 45	2 30	¾	Dummy Trip 6 STDS. To Clean Hole
2 30	4 00	1½	CLEAN OUT TIGHT HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
32	STANDS D.P.		FT.
2	SINGLES D.P.	3080.06	FT.
18	D.C. 6¼ I.D. O.D.	540.53	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS XO O.D.	.50	FT.
	BIT ~~OR C.B.~~	.75	FT.
1	BIT SUB	2.97	FT.
	KELLY DOWN	41.00	FT.
	TOTAL	3665	FT.
WT. OF STRING		90 000	LBS.

BIT RECORD

BIT NO.	2RR
SIZE	8¾
MFG.	HW
TYPE	X16
NOZZLE NO.	1 2
NOZZLE SIZE	11 11
SER. NO.	44644
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6:30	8:00	10:00
WEIGHT	9.	9	9
VISC.-SEC	70	65	59
W.L.-C.C.	8.6		
FL.TR. CK	3/32		3/32
PH	10.	10	10.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		
DELTEX	100#		
GEL	1000#		

DRILLER: Brian Galloway

FOOTAGE 105

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3560	3665	Rm										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	¼	RIG SERVICE
4 15	12:00	7¾	CLEAN OUT TIGHT HOLE
		8	

APPROVED

APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 25 DATE JAN 17, 1973

OPERATOR: CANDEL OIL

LEASE: CANDEL ET AL TEXACO ARTIC RED F-47

WELL NO. F-47 | FIELD OR DIST. ARTIC RED | COUNTY | STATE ALAST

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Ludwigsen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA500	16
2.	EMSCO	DA500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# K55	23	889		889	750 CEMENT 2% CA.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			2½
CONDITIONING MUD & CIRCULATING	2		
TRIPS			2¾
LUBRICATE RIG	¼		¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE	2		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	3¾		
FISHING			2½
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8		8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1⅛
FEET SLIPPED	1343
FEET CUT OFF	343
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	25
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
41	STANDS D.P.	3867.22 FT.
2	SINGLES D.P.	63.40 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY EZ 8¼ O.D.	4.99 FT.
1	STB. BODY 3D 8 O.D.	5.64 FT.
1	RMR. BODY 6PT O.D.	8.60 FT.
3	SUBS XO O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	4617 FT.

WT. OF STRING 120,000 LBS.

BIT RECORD

BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	
DEPTH IN	1941
TOTAL FTG.	2676
TOTAL HR. RUN	94½
COND. OF BIT	1
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			7:00
WEIGHT			8.6
VISC.-SEC			46
W.L.-C.C.			
FLTR. CK.			
PH			10
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
SODA ASH	200		
GEL	2000		

DRILLER Brian Ladouceur

FOOTAGE

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN
4617				P 4" 3' FUEL								

DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE
12:15	1:30	1¼	WORK STUCK PIPE.
1:30	3:30	2	CUT + SLIP 343 FEET DRILLING LINE.
3:30	6:00	2½	WORK STUCK PIPE WORKED OUT 39 SINGLES
6:00	8:00	2	BREAK CIR + MIX MUD CONDITION HOLE. (LAY DOWN 2 MORE SINGLES)

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. O.D.	58.89 FT.
1	STB. BODY E2T O.D.	4.99 FT.
1	STB. BODY 3PT O.D.	5.64 FT.
1	RMR. BODY 6PT O.D.	8.60 FT.
3	SUBS XO O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	
DEPTH IN	1941
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	10:00	2:00
WEIGHT	8.7	8.7	8.7
VISC.-SEC	40	50	75
W.L.-C.C.			
FLTR. CK.			
PH	10.0	10.5	11.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CELL ASOD	#		
SODA ASH	300 #		
BENNEX	2 #		

DRILLER Ray Chatelain

FOOTAGE

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN
4617												

DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE & CHECK BOPS
8:15	11:00	2¾	CIRC & CONDITION MUD + HOLE - WORK PIPE
11:00	12:30	1½	CIRC TWO SINGLES ADDED TO STRING
12:30	1:00	½	REPAIR WASH PIPE PACKING + WORK PIPE
1:00	2:30	1½	CIRC
2:30	4:00	1½	PULL OUT OF HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
29	STANDS D.P.	FT.
2	SINGLES D.P.	2795.72 FT.
	D.C. I.D. O.D.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS XO O.D.	1.50 FT.
	BIT OR C.B.	.75 FT.
	BIT SUB	2.97 FT.
	KELLY DOWN	10.00 FT.
	TOTAL	3351.4 FT.

WT. OF STRING 84,000 LBS.

BIT RECORD

BIT NO.	2RR
SIZE	8¾
MFG.	HW
TYPE	X16
NOZZLE NO.	2 1
NOZZLE SIZE	12 11
SER. NO.	446494
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			11:00
WEIGHT			8.7
VISC.-SEC			60
W.L.-C.C.			
FLTR. CK			
PH			10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Brian Ladouceur

FOOTAGE

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN
					80	3	1400	5½	58			

DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE
4:15	6:45	2	SERVICE ALL THREAD COMP ON Sq. COLLAR ASSEMBLY
6:45	6:45	0	SURVEY + SET INCLINOMETER. SID Rock Sqc in Dak
6:45	9:30	2¾	RUN IN W/ BIT TO COND. HOLE.
9:30	12:00	2½	BRIDGE AT ~~3350~~ 3247 BREAK CIR + CLEAN TO BOTTOM

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 24 DATE JAN 16, 1973

OPERATOR: CANDEL OIL

LEASE: CANDEL ET AL TEXACO ARTIC RED

WELL NO. F-47 FIELD OR DIST. ARTIC RED COUNTY STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 2 SIZE 4½ TYPE THD. XH

TOOL JOINT 6¼ O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER Joe Labrecque

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA500	16
2.	EMSCO	DA500	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36#K-55	23	889		889	750 CEMENT.
							270 CA.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING—ACTUAL	7¼	3¾	
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	½		
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER STUCK IN HOLE		7	7¾
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1⅛

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS 193

NO. OF DAYS FROM SPUD 24

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
41	STANDS D.P.	3867.72 FT.
1	SINGLES D.P.	31.92 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	DC TELE DRIFT I.D. O.D.	10.97 / 58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3PT BODY O.D.	5.64 FT.
1	RMR. 6PT BODY O.D.	8.60 FT.
3	SUBS X/O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	4586 FT.

WT. OF STRING 120,000 LBS.

BIT RECORD

BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	4586
DEPTH IN	1941
TOTAL FTG.	2645
TOTAL HR. RUN	93¾
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2:00	4:00	6:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH	9.0	9.0	12.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENEX	4#		
LIME	150#		

DRILLER Brian Sadoway

FOOTAGE 176 DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP.-C
4410	4586	D.	FUEL 2 FT.	54	29	1400	5½	58			S.

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	[illegible]	0		4387	4°		4545	4¼	

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE + CHECK BOPs
12:15	12:30	¼	DRILL 8¾" HOLE
12:30	12:45	¼	SURVEY @ [illegible] - 4° @ 4387
12:45	7:45	7	DRILL 8¾" HOLE.
7:45	8:00	¼	SURVEY - @ 4545

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
41	STANDS D.P.	3867.72 FT.
2	SINGLES D.P.	63.40 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	DC TELE DRIFT I.D. O.D.	10.97 / 58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3PT BODY O.D.	5.64 FT.
1	RMR. 6PT BODY O.D.	8.60 FT.
3	SUBS X/O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	40.44 FT.
	TOTAL	4617 FT.

WT. OF STRING 120,000 LBS.

BIT RECORD

BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	
DEPTH IN	1941
TOTAL FTG.	2676
TOTAL HR. RUN	94½
COND. OF BIT	0/3
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	4:00	
WEIGHT	8.4	8.8	
VISC.-SEC	28	65	
W.L.-C.C.			
FLTR. CK.			
PH	11.5	10.5	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	6000		
SODA ASH	300#		
BENNEX	2#		

DRILLER Ray J Leathers

FOOTAGE 31 DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP.-C
4586	4617	D		54	25	1400	5½	60			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE & CHECK BOPS
8:15	9:00	¾	DRILL 8¾" HOLE
9:00	4:00	7	STUCK IN HOLE @ 4617 WORK PIPE
			PULL SINGLES OUT OF TIGHT HOLE
NOTE- HOLE FELL IN WHILE MAKING CONNECTION. WORKED ¼ HR. GOT PARTIAL CIRC. WORKING PIPE = PRESSURED UP ON FORMATION. COULD NOT PUMP. WORKED OUT 9 SINGLES. COULD NOT ROTATE PIPE.			

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
41	STANDS D.P.	3867.72 FT.
2	SINGLES D.P.	63.40 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	DC TELE DRIFT I.D. O.D.	10.97 / 58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3PT BODY O.D.	5.64 FT.
1	RMR. 6PT BODY O.D.	8.60 FT.
3	SUBS X/O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	4611 FT.

WT. OF STRING 120,000 LBS.

BIT RECORD

BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	
DEPTH IN	1941
TOTAL FTG.	2676
TOTAL HR. RUN	94½
COND. OF BIT	1
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6:00		
WEIGHT	8.8		
VISC.-SEC	40		
W.L.-C.C.			
FLTR. CK			
PH	10.5		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2500		

DRILLER Brian Sadoway

FOOTAGE DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP.-C
4617											

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE
4:15	12:00	7¾	WORK PIPE OUT WORKED OUT TOTAL 17 SINGLES
			4.

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 23 — DATE JAN 15, 1973

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ET AL TEXACO ARTIC RED F-47	F-47	ARTIC RED		UT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE —

SIGNATURE OF CONTRACTOR'S TOOLPUSHER: Joe Lukasiewicz

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D., TYPE THD. XH

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 500	16
2.	EMSCO	DA500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# K-55	23	889		889	750 CEMENT 2% CA.Cl2

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¼	7¼	7½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	½	¼	¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER CONSERVATION CHECK		¼	
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1⅛
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	193
NO. OF DAYS FROM SPUD	23
CUMULATIVE ROTATING HRS.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
36	STANDS D.P.	3395.91 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. 2¼ O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 3PT O.D.	5.64 FT.
1	RMR. BODY 6PT O.D.	8.60 FT.
3	SUBS O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	4082 FT.
WT. OF STRING	110,000 LBS.	

BIT RECORD	
BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	4082
DEPTH IN	1941
TOTAL FTG.	2141
TOTAL HR. RUN	71¾
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	2:00	4:00	6:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK.			
PH	11.0	11.0	11.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENEX	6#		

DRILLER: Brian Sadowy

FOOTAGE 158

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3924	4082	D		FUEL 4 FT	54	30	1400	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3955	3°		4050	3°				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE & CHECK BOPs. (30 STROKES = 450PSI)
12:15	1:15	1	DRILL 8¾" HOLE
1:15	1:30	¼	TELEDRIFT - 3° @ 3955.
1:30	6:00	4½	DRILL 8¾" HOLE
6:00	6:15	¼	TELEDRIFT - 3° - @ 4050
6:15	8:00	1¾	DRILL 8¾" HOLE

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
37	STANDS D.P.	3490.41 FT.
2	SINGLES D.P.	63.01 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. 2¼ O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 3PT O.D.	5.64 FT.
1	RMR. BODY 6PT O.D.	8.60 FT.
3	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	39.14 FT.
	TOTAL	4238 FT.
WT. OF STRING	115,000 LBS.	

BIT RECORD	
BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	
DEPTH IN	1941
TOTAL FTG.	2297
TOTAL HR. RUN	79
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	8:00	10:00	2:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK.			
PH	11.5	11.5	11.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENNEX	2#		

DRILLER: Ray J Fortus

FOOTAGE 156

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4082	4238	D			54	30	1400	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	4176	3°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	CHECK BOPS + RIG SERVICE
8:15	1:00	4¾	DRILL 8¾ HOLE
1:00	1:15	¼	TELEDRIFT SURVEY @ 4176
1:15	2:00	¾	DRILL 8¾" HOLE CONSERVATION BOARD
2:00	2:15	¼	CONSERVATION BOARD CHECK CHECK OK. MOTOR SHUT-OFF
2:15	4:00	1¾	DRILL 8¾" HOLE HYDRIL + PIPE RAMS
			CHANGED OIL IN ALL MOTORS

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
39	STANDS D.P.	3679.74 FT.
2	SINGLES D.P.	61.89 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. 2¼ O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 3PT O.D.	5.64 FT.
1	RMR. BODY 6PT O.D.	8.60 FT.
3	SUBS O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	23.00 FT.
	TOTAL	4410 FT.
WT. OF STRING	118,000 LBS.	

BIT RECORD	
BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	4410
DEPTH IN	1941
TOTAL FTG.	2469
TOTAL HR. RUN	86½
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	6:00	8:00	10:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK			
PH	11.5	9	9
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENEX	2#		
CACL	80#		
LIME	50#		

DRILLER: Brian Sadowy

FOOTAGE 172

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4238	4410	D			54	25	1400	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	4221	4°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE + CHECK BOPS
4:15	5:45	1½	DRILL 8¾" HOLE
5:45	6:00	¼	SURVEY - WIRELINE @ 4221
6:00	12:00	6	DRILL 8¾" HOLE

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 22 — DATE JAN 14, 1973

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ET AL TEXACO ARTIC RED E-47	E-47	ARTIC RED		NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 20, SIZE 4½ — TOOL JOINT: 6¼ O.D., TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Lee Kuhnemuth

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 500	16
2.	EMSCO	DA 500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# K-55	23	889		889	750 CEMENT
							2% CA. CL.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¼	7½	6
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	½	¼	½
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			1¼
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE ⅛
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	193
NO. OF DAYS FROM SPUD	22
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
31	STANDS D.P.	2922.31 FT.
2	SINGLES D.P.	63.45 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. 5¼ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3 PT BODY O.D.	5.64 FT.
1	RMR. BODY 6 PT O.D.	8.60 FT.
3	SUBS X O O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	19.00 FT.
	TOTAL	3650 FT.

WT. OF STRING 108,000 LBS.

BIT RECORD

BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	3650
DEPTH IN	1941
TOTAL FTG.	1709
TOTAL HR. RUN	51
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2:00	4:00	6:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	27
W.L.-C.C.			
FL.TR. CK.			
PH	11.5	11.5	11.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENEX	6#	CACL	80#
LIME	50#		
GEL	1000#		

DRILLER: Brian Galloway

FOOTAGE 168

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3482	3650	D		FUEL 5½ FT	54	20	1400	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3545	3°		3608	3°				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE & CHECK BOPs & BLOW OUT DRILL.
12:15	2:45	2½	DRILL 8¾" HOLE
2:45	3:00	¼	TELE DRIFT SURVEY @ 3545 - 3°
3:00	5:30	2½	DRILL 8¾" HOLE.
5:30	5:45	¼	TELE DRIFT SURVEY @ 3608 - 3°
5:45	8:00	2¼	DRILL 8¾" HOLE.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
33	STANDS D.P.	3111.44 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. 5¼ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3PT. BODY O.D.	5.64 FT.
1	RMR. 6PT. BODY O.D.	8.60 FT.
3	SUBS X O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	3797 FT.

WT. OF STRING 110000 LBS.

BIT RECORD

BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	
DEPTH IN	1941
TOTAL FTG.	1856
TOTAL HR. RUN	64½
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	4:00
WEIGHT	8.4	8.4
VISC.-SEC	28	24
W.L.-C.C.		
FL.TR. CK.		
PH	11.5	11.5
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENNEX	4#		

DRILLER: Roy Lastra

FOOTAGE 147

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3650	3797	D			52	20	1400	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3703	2½°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE & CHECK BOPs
8:15	11:00	2¾	DRILL 8¾" HOLE
11:00	11:15	¼	TELEDRIFT SURVEY @ 3703
11:15	4:00	4¾	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
34	STANDS D.P.	3206.22 FT.
1	SINGLES D.P.	31.55 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. 5¼ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3 PT. BODY O.D.	5.64 FT.
1	RMR. 6PT. BODY O.D.	8.60 FT.
3	SUBS X O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	3924 FT.

WT. OF STRING 110,000 LBS.

BIT RECORD

BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	3924
DEPTH IN	1941
TOTAL FTG.	1983
TOTAL HR. RUN	64½
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6:00	8:00	10:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK			
PH	11.5	11.0	11.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENNEX	4#		

DRILLER: Brian Galloway

FOOTAGE 127

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3797	3924	D			52	25M	1400	5½	58			5

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3830	2¾°		3860	3°				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	Rig Service
4:15	5:30	1¼	Replace ~~Valve~~ STD Pipe Valve
5:30	7:00	1½	DRILL 8¾" HOLE
7:00	7:15	¼	SURVEY @ 3830 WIRELINE TOTCO 2¾°
7:15	8:45	1½	DRILL 8¾" HOLE
8:45	9:00	¼	TELEDRIFT SURVEY @ 3860 - 3°
9:00	12:00	3	DRILL 8¾" HOLE

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 21 — DATE Jan 13, 73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARTIC RED F-47

WELL NO.: F-47 — FIELD OR DIST.: ARTIC RED — COUNTY — STATE: N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO.: 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D., TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lubosewich

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D-500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36# J55	23	889		884	750 cement
							2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7	7¼	6¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¾	½	1
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	4	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1/16
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	21
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
25	STANDS D.P.	2354.35 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. 5¾ O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 3PT O.D.	5.64 FT.
1	RMR. BODY 6PT O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
	SHOCK SUB	10.65 FT.
	KELLY DOWN	26.00 FT.
	TOTAL	3025 FT.

WT. OF STRING 86,000 LBS.

BIT RECORD

BIT NO.	3
SIZE	8 3/4
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	
DEPTH IN	1941
TOTAL FTG.	1084
TOTAL HR. RUN	29¾
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1:00	5:00	7:00
WEIGHT	8.4	8.4	84
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH	11.0	11.5	12.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CaCl	4 sks (80#)		
BENEX	4#		
LIME	200#		

DRILLER: David Fryboa

FOOTAGE 235

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2790	3025	D		FUEL 7°	54	30M	1300	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2815	2°		2910	1½°		3005	1½°	

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SER. & V BOP's
12:15	12:45	½	DRILL 8¾" HOLE
12:45	1:00	¼	TELEDRIFT SURVEY @ 2815 - 2°
1:00	3:45	2¾	DRILL 8¾" HOLE
3:45	4:00	¼	TELEDRIFT SURVEY
4:00	7:15	3¼	DRILL 8¾" HOLE
7:15	7:30	¼	TELEDRIFT SURVEY
7:30	8:00	½	DRILL 8¾" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
27	STANDS D.P.	2543.75 FT.
2	SINGLES D.P.	62.56 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	TELEDRIFT	10.97
2	I.D. 5¾ O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 3PT O.D.	5.64 FT.
1	RMR. BODY 6PT O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	24.00 FT.
	TOTAL	3275 FT.

WT. OF STRING 102,000 LBS.

BIT RECORD

BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44815
DEPTH OUT	3275
DEPTH IN	1941
TOTAL FTG.	1334
TOTAL HR. RUN	37
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	10:00	12:00	2:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH	11.0	11.0	11.5
SD. CONT. %			
PRESSURE GRADIENT	P/L 45		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENEX	6#		
CA CL.	320#		
LIME	200#		

DRILLER: Brian Sadoway

FOOTAGE 250

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3025	3275	D			54	30	1350	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3100	1°		3195	2½°				

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE + CHECK BOPs.
8:15	10:00	1¾	DRILL 8¾" HOLE. CHANGE
10:00	10:15	¼	TELE DRIFT SURVEY @ 3100 - 1° WT. INDICATOR
10:15	1:15	3	DRILL 8¾" HOLE
1:15	1:30	¼	TELEDRIFT SURVEY @ 3195 - 2½°
1:30	4:00	2½	DRILL 8¾" HOLE
		8	

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
29	STANDS D.P.	2732.29 FT.
2	SINGLES D.P.	63.44 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELE DRIFT	.97
2	I.D. 5¾ O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB. BODY 3PT O.D.	5.64 FT.
1	RMR. BODY 6PT O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
1	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	3482.10 FT.

WT. OF STRING 104,000 LBS.

BIT RECORD

BIT NO.	3
SIZE	8¾
MFG.	HW
TYPE	J-33
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44915
DEPTH OUT	
DEPTH IN	1941
TOTAL FTG.	1541
TOTAL HR. RUN	43¾
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4:00	8:00	10:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK			
PH	12.0	11.5	11.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENNEX	8#		

DRILLER: Ray Lester

FOOTAGE 207

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3275	3482	D			54	30M	1400	5½	58			
					54	20M	1400	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3293	2°		3355	2½°		3418	3°	

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE & CHECK BOPs
4:15	4:30	¼	DRLG 8¾" HOLE
4:30	4:45	¼	TELEDRIFT SURVEY @ 3293 - 2°
4:45	6:30	1¾	DRLG 8¾" HOLE
6:30	6:45	¼	SURVEY @ 3355
6:45	9:00	2¼	DRLG 8¾" HOLE
9:00	9:15	¼	TELEDRIFT SURVEY @ 3418
9:15	11:45	2½	DRLG 8¾" HOLE
11:45	12:00	¼	TELEDRIFT SURVEY @ 3482 2½°

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 20 — DATE Jan 12/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARTIC RED F-47

WELL NO. F-47 | FIELD OR DIST. ARTIC RED | COUNTY | STATE N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. | RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lubasewich

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 500	16"
2	EMSCO	DA 500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# J55	23	889		885	750 cement 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7	7¼	7¼
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¾	½	1/4
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1/8
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	20
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
16	STANDS D.P.	FT.
1	SINGLES D.P.	1538.08 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. 5¾ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3PT BODY O.D.	5.64 FT.
1	RMR. 6PT BODY O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT O.R.C.B.	75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	37.00 FT.
	TOTAL	2220 FT.

WT. OF STRING 75,000 LBS.

BIT RECORD

BIT NO.		3
SIZE		8 3/4
MFG.		H.W.
TYPE		J-33
NOZZLE	NO.	3
	SIZE	11
SER. NO.		44815
DEPTH OUT		
DEPTH IN		1941
TOTAL FTG.		279
TOTAL HR. RUN		8¼
COND. OF BIT		0/B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1:00	3:00	7:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH	10.0	12.0	12.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
LIME	250 #		
BENEX	4 #		

DRILLER Dave Frykas

FOOTAGE 263

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1957	2220	D		FUEL 7'-10"	54	30M	1300	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2030	1½°		2090	1°		2186	1°	

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SER. & ✓ BOP
12:15	2:30	2¼	DRILL 8¾" HOLE
2:30	2:45	¼	TELEDRIFT SURVEY - 1½°
2:45	4:15	1½	DRILL 8¾" HOLE
4:15	4:30	¼	TELEDRIFT SURVEY - 1°
4:30	7:00	2½	DRILL 8¾" HOLE
7:00	7:15	¼	TELEDRIFT SURVEY - 1°
7:15	8:00	¾	DRILL 8¾" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
19	STANDS D.P.	1788.25 FT.
1	SINGLES D.P.	31.60 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. 5¾ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3PT BODY O.D.	5.64 FT.
1	RMR. 6PT BODY O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT O.R.C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	2506 FT.

WT. OF STRING 78,000 LBS.

BIT RECORD

BIT NO.		3
SIZE		8¾
MFG.		MW
TYPE		J-33
NOZZLE	NO.	3
	SIZE	11
SER. NO.		44815
DEPTH OUT		2506
DEPTH IN		1941
TOTAL FTG.		565
TOTAL HR. RUN		15½
COND. OF BIT		OB
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	10:00	12:00	2:00
WEIGHT	8.33	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH	10.5	10.5	11.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENEX	6#		
CA CL	2 SKS.		

DRILLER Brian Sadoway

FOOTAGE 286

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2220	2506	0			54	30	1300	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2319	1°		2413	1°				

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE + CHECK BOP + REMOTE CONTROL. OK.
8:15	11:00	2¾	DRILL 8¾" HOLE.
11:00	11:15	¼	TELE DRIFT SURVEY @ 2319 - 1°
11:15	1:30	2¼	DRILL 8¾" HOLE
1:30	1:45	¼	TELE DRIFT SURVEY @ 2413 - 1°
1:45	4:00	2¼	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
22	STANDS D.P.	2134.37 FT.
2	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELE DRIFT	10.97
2	I.D. 5¾ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3PT BODY O.D.	5.64 FT.
1	RMR. 6PT BODY O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT O.R.C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	11.00 FT.
	TOTAL	2790 FT.

WT. OF STRING 79,000 LBS.

BIT RECORD

BIT NO.		3
SIZE		8¾
MFG.		MW
TYPE		J-33
NOZZLE	NO.	3
	SIZE	11
SER. NO.		44815
DEPTH OUT		
DEPTH IN		1941
TOTAL FTG.		849
TOTAL HR. RUN		22¾
COND. OF BIT		0/B
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6:00	8:00	10:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK			
PH	10.5	12.0	11.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
$CaCl_2$	4 abo		
BENEX	4#		

DRILLER Dave Frykas

FOOTAGE 284

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2506	2790	D			54	30	1300	5½	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2537	1°		2657	1°				

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE + CHECK BOPS.
4:15	5:00	¾	DRILL 8¾" HOLE
5:00	5:15	¼	TELE DRIFT SURVEY @ 2537 - 1°
5:15	8:15	3	DRILL 8¾" HOLE
8:15	8:30	1¼	TELE DRIFT SURVEY @ 2657
8:30	12:00	3½	DRILL 8¾ HOLE

APPROVED — APPROVED

DAILY DRILLING REPORT — REPORT NO. 19 — DATE Jan 11-1973

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARTIC RED F-47

WELL NO.: F-47 — FIELD OR DIST.: ARTIC RED — COUNTY — STATE: N. W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO.: 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6¼ O.D., TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukasewich

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36# J55	23	889		884	750 SKS CEMENT 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	6¼	5½	3¾
REAMING			
CONDITIONING MUD & CIRCULATING			1
TRIPS	1	1	2
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	½	¼	¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER		1	¾
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 8	SIZE 1⅛
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	19
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
11	STANDS D.P.	FT.
2	SINGLES D.F.	1098.38 FT.
18	D.C. 6 1/4 I.D. O.D.	540.53 FT.
1	D.C. TELE 5¾ I.D. O.D.	10.97 FT.
1	STB. BODY 5¾ O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	RMR. BODY 6 PT O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR SUB	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	14.00 FT.
	TOTAL	1761 FT.
WT. OF STRING	68,000 LBS.	

BIT RECORD

BIT NO.	1
SIZE	8 3/4
MFG.	H.W
TYPE	X3A
NOZZLE NO.	3
NOZZLE SIZE	11 10
SER. NO.	44674
DEPTH OUT	1761
DEPTH IN	900
TOTAL FTG.	861
TOTAL HR. RUN	28½
COND. OF BIT	711
REAMER NO.	—
REAMER TYPE	

MUD RECORD

TIME	12:00	2:00	5:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %	Pill	Vis.	
PRESSURE GRADIENT		90	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENEX	2#		
$CaCl_2$	5 SKS		

DRILLER: Lloyd Frykas

FOOTAGE 131 — DR.-D RM.-R CORE.-C: D

FROM	TO
1630	1761

CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
		80	30	1350	5½	58			

DEVIATION RECORD: DEPTH 1685, DEV. 1°; DEPTH 1750, DEV. 1 1/8; DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SER. & CK B.O.P's
12:15	2:00	1 3/4	DRILL 8 3/4" HOLE
2:00	2:15	¼	TELEDRIFT SURVEY @ 1685' — 1°
2:15	6:45	4½	DRILL 8 3/4" HOLE
6:45	7:00	¼	DROP SURVEY 1⅛°
7:00	8:00	1	TRIP out w/ BIT #1

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
13	STANDS D.P.	1222.85 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELEDRIFT	10.97
2	I.D. 5¾ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99
1	STB. PT BODY O.D.	5.6 FT.
1	RMR. 6PT. BODY O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR SUB	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	32.00 FT.
	TOTAL	1900 FT.
WT. OF STRING	72,000 LBS.	

BIT RECORD

BIT NO.	2
SIZE	8 3/4
MFG.	HW
TYPE	X16
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	44644
DEPTH OUT	1900
DEPTH IN	1761
TOTAL FTG.	139
TOTAL HR. RUN	5½
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	2:00	3:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT	Pill	Vis $	
		55.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CACL	1 SK.		
BENEX	4#		

DRILLER: Brian Sadowsky

FOOTAGE 139 — DR.-D RM.-R CORE.-C: D

FROM	TO
1761	1900

CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
		75	~~30~~ 30	1900	5½	58			
	PLUGGED NOZZEL.								

DEVIATION RECORD: DEPTH 1816, DEV. ½°; DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE CHECK BOPS
8:15	8:45	½	SERVICE TELEDRIFT INSTRUMENTS REC. SURVEY
8:45	9:45	1	RUN IN W/ BIT # 2
9:45	10:15	½	BREAK CIR & CLEAN 20' FILL.
10:15	1:30	3¼	DRILL 8¾" HOLE.
1:30	1:45	¼	TELE DRIFT SURVEY @ 1816 — ½°
1:45	4:00	2¼	DRILL 8¾" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
13	STANDS D.P.	1222.85 FT.
1	SINGLES D.P.	31.56
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELEDRIFT I.D. O.D.	10.97
2	5¾ O.D.	58.89 FT.
1	STB. EZY BODY O.D.	4.99 FT.
1	STB. 3 PT BODY O.D.	5.64 FT.
1	RMR. 6PT BODY O.D.	8.60 FT.
3	SUBS C/O O.D.	4.42 FT.
	BIT OR SUB	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	26.00 FT.
	TOTAL	1957 FT.
WT. OF STRING	73,000 LBS.	

BIT RECORD

BIT NO.	2	3
SIZE	8¾	8¾
MFG.	HW	HW
TYPE	X16	J33
NOZZLE NO.	3	3
NOZZLE SIZE	11	11
SER. NO.	44644	44815
DEPTH OUT	1941	
DEPTH IN	1761	1941
TOTAL FTG.	180	16
TOTAL HR. RUN	8	1¼
COND. OF BIT	401	0/8
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6:00	9:00	12:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK			
PH		9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
LIME	50#		
BENEX	2#		

DRILLER: Dave Frykas

FOOTAGE 57' — DR.-D RM.-R CORE.-C: D

FROM	TO
1900	1957

CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
		46	30	1300	5½	58			

DEVIATION RECORD: DEPTH 1930, DEV. 1⅛°; DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE & CHECK BOPs.
4:15	6:45	2½	DRILL 8¾" HOLE.
6:45	7:00	¼	DROP SURVEY @ 1930 — 1⅛°
7:00	8:00	1	HOIST BIT # 2.
8:00	8:30	½	SERVICE TELEDRIFT & SHOCK SUB
8:30	9:30	1	RUN IN W/ BIT # 3
9:30	9:45	¼	BREAK CIRC CLEAN OUT 10' FILL
9:45	10:30	¾	DRILLING 8¾" HOLE
10:30	11:30	1	CORE SAMPLE
11:30	12:00	½	DRILL 8¾" HOLE

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 18 — DATE Jan 10/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARTIC RED E-47

WELL NO. F-47 | FIELD OR DIST. ARTIC RED | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. | RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Tukaswenuk

DRILL PIPE STRING: NO. 2, SIZE 4½, TYPE THD. XH | TOOL JOINT 6¼ O.D.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA500	16
2.	EMSCO	DA500	16
3.			

LAST CASING / TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9⅝		36 355	23	889	13.35	884	75% Cement 2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7½	9¼
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1		
LUBRICATE RIG	¼	½	¼
DEVIATION SURVEY		½	½
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			

COMPLETION WORK: A. PERFORATING; B. TUBING TRIPS; C. SWABBING; D. TESTING; E. ADDITIONAL

TOTALS 9 8 8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK; HRS. W/DP; HRS. WO/DP; HRS. STANDBY; TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.; NO. OF LINES 8 SIZE ⅛; FEET SLIPPED; FEET CUT OFF; PRESENT LENGTH; TON MI. OR TRIPS SINCE LAST CUT; CUMULATIVE TON MI. OR TRIPS; NO. OF DAYS FROM SPUD 18; CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
5	STANDS D.P.	470.24 FT.
1	SINGLES D.P.	31.49 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
2	D.C. 5½ I.D. O.D.	69.86 FT.
1	STB. BODY ZK O.D.	4.99 FT.
1	STB. BODY 3PT O.D.	5.64 FT.
1	RMR. BODY 6PT O.D.	8.60 FT.
2	SUBS C/B O.D.	2.45 FT.
	BIT OR C.B.	.75 FT.
	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	1188 FT.

WT. OF STRING 59,000 LBS.

BIT RECORD

BIT NO.	1
SIZE	8¾
MFG.	HW
TYPE	X3AS
NOZZLE NO.	2 1
NOZZLE SIZE	11 12
SER. NO.	44674
DEPTH OUT	
DEPTH IN	900
TOTAL FTG.	288
TOTAL HR. RUN	7¾
COND. OF BIT	0/0
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	H2O
FLTR. CK.	
PH	8.5
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENEX	20#		

DRILLER Dave Fryfogle

FOOTAGE 288

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
900	1188	D		FUEL - 8'	80	35/45	1350	5½	58	5½		
				DESILTER IN USE 24 HRS								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1150	½°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	Rig Service — K.B. To G.R. 14.20
12 15	8 00	7¾	Drlg 8¾" Hole — K.B. To Bowl 13.35

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
8	STANDS D.P.	754.15 FT.
2	SINGLES D.P.	63.21 FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	D.C. TELEDRIFT	10.97
2	D.C. 5½ I.D. O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB BODY 6PT O.D.	8.60 FT.
1	RMR. BODY 3PT O.D.	5.64 FT.
3	SUBS XO O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	28 FT.
	TOTAL	1490 FT.

WT. OF STRING 64,000 LBS.

BIT RECORD

BIT NO.	1
SIZE	8¾
MFG.	HW
TYPE	X3A
NOZZLE NO.	2 1
NOZZLE SIZE	11 10
SER. NO.	44674
DEPTH OUT	1490
DEPTH IN	900
TOTAL FTG.	590
TOTAL HR. RUN	15
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	10:00	12:00	2:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH	8.5	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENEX	14#		
GEL	1500#		

DRILLER Brian Soloway

FOOTAGE 302

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1188	1490	D			80	35	1350	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1345	1°		1472	1½°				

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	Rig Service + Check BOPs
8:15	11:30	3¼	Drill 8¾" Hole
11:30	11:45	¼	Survey Teledrift @ 1345 - 1°
11:45	3:00	3¼	Drill 8¾" Hole.
3:00	3:15	¼	Tele Drift Survey @ 1472 - 1½°
3:15	4:00	¾	Drill 8¾" Hole
		8	

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
10	STANDS D.P.	943.68 FT.
	SINGLES D.P.	FT.
18	D.C. 6¼ I.D. O.D.	540.53 FT.
1	TELEDRIFT	10.97
2	D.C. 5½ I.D. O.D.	58.89 FT.
1	STB. BODY EZY O.D.	4.99 FT.
1	STB BODY 6PT O.D.	8.60 FT.
1	RMR BODY 3PT O.D.	5.64 FT.
3	SUBS XO O.D.	4.42 FT.
	BIT OR C.B.	.75 FT.
1	SHOCK SUB	10.65 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	1630 FT.

WT. OF STRING 66,000 LBS.

BIT RECORD

BIT NO.	1
SIZE	8¾
MFG.	HW
TYPE	X3A
NOZZLE NO.	2 1
NOZZLE SIZE	11 10
SER. NO.	44674
DEPTH OUT	
DEPTH IN	900
TOTAL FTG.	730
TOTAL HR. RUN	22¼
COND. OF BIT	0/0
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6:00	8:00	10:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK			
PH	9.0	9.0	
SD. CONT. %	PILL		
PRESSURE GRADIENT			
	45 37	80	90

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BENEX	18#		
GEL	4200#		

DRILLER Dave Fryfogle

FOOTAGE 140

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1490	1630	D			80	25	1350	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1535	1°		1594	1				

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	Rig Service + Check BOPs
4:15	6:30	2¼	Drill 8¾" Hole
6:30	6:45	¼	Tele Drift Survey @ 1535 - 1°
6:45	10 00	3 1/4	Drill 8¾" Hole
10 00	10 15	1/4	Teledrift Survey @ 1594 -
10 15	12 00	1 3/4	Drill 8¾" Hole

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 17 — DATE June 9/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARTIC RED F+7

WELL NO. F-47 — FIELD OR DIST. ARTIC RED — COUNTY — STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4 1/2 — TOOL JOINT 6 1/4 O.D., TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukasewich

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8		36-J55	23	889		884	750 CEMENT
							2% CaCl

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE AMT.
DRILLER	David Fryksa		

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL.-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	8:00	8	Nipple Up BOP's

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE AMT.
DRILLER	Brian Sadowan		

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL.-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:05	1:00	5	Finish Nipple up BOPs/Manifold/Flare Line.
1:00	4:00	3	Repair Std Pipe Valve Install Sample Box.
			Engine Kills OK
			NOTE - Desilter started used 24 hrs

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
18	D.C. I.D. O.D.	540.53 FT.
1	D.C. Tele Drift	10.97 FT.
2	Sq. I.D. O.D.	588.9 FT.
6 1/4	STB. BODY O.D.	4.99 FT.
3 PT	STB. BODY O.D.	5.64 FT.
6 PT	RMR. Btm BODY O.D.	8.60 FT.
3	SUBS XO O.D.	4.42 FT.
	BIT OR C.B.	2.5 FT.
	Shock	10.65 FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	1	
SIZE	8 3/4	
MFG.	HW	
TYPE	X3A	
NOZZLE NO.	2	1
NOZZLE SIZE	11	10
SER. NO.	446744	
DEPTH OUT		
DEPTH IN	900	
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK	1120		
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE AMT.
DRILLER	David Fryksa		

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL.-P COM'D-C
				Top of Plug @ 822								
				Top of Float Collar @ 842								
				Top of Shoe @ 884								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	1/4	Rig Service + Check BOPs
4:15	4:30	1/4	Pres. Test Blind Rams 1550 PSI. 15 mins OK.
4:30	6:00	1 1/2	Pick up & Service Tele Drift Instruments
6:00	7:30	1 1/2	Pick up Sq. Collars/Reamers/Stabilizers/Shock Sub.
7:30	8:30	1	Run in with Bit #1
8:30	8:45	1/4	Pres. Test Pipe Rams 1550 PSI. OK 15 mins
8:45	9:30	3/4	Pres Test Hydril/Manifold 1675 PSI ALL OK.
9:30	12:00	2 1/2	Drill out Plug Float Cement & Shoe

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 16 DATE Jan 9/1972

OPERATOR: Cardel oil

LEASE: Jarco-Cardel Astro Red F #7

WELL NO. F-47 | FIELD OR DIST. Astro Red | COUNTY | STATE N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 7 SIZE 4½ | TOOL JOINT 6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: CM Elliott

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16
2.	"	DA 500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
9 5/8	Maverick	36 J55T	23	889		894	

CEMT AT 5 90-120 off bottom Davis Shoe & Float Collar
CEMENTED w/ 350 SAX CONSTRUCTION 2% cal.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING		½	
WAITING ON CEMENT		7½	
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS		8	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: David Fuglem

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)
				1 SAX CELLO FLACK, N FIRST SHOE
				START CEMENTING
				displaced w/ WATER 65.7 BBLS. Plug down 630 AM
				SLURY 14.5 - 15.
				GOOD RETURNS THROUGH CEMENT JOB

ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

CEMENT FELL IN ANYLOS

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	315	3¼	Rud Casing
315	500	1¾	Circ. Casing WATER BACK MUD
500	630	1½	CEMENT & DISPLACE
630	800	1½	W.O.C.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Brian Sadoway

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)

ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	11:00	3	W O C
11:00	11:30	½	RE-CEMENT FROM TOP W/100 SAX CMT 3% cal OK
11:30	4:00	4½	W.O.C.
		8	

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: David Fuglem

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)

ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	6:30	2½	W O C
6:30	7:15	¾	Cut off Casing
7:15	8:00	¾	Put on Casing Bowl Tightened up studs on OBT Csg Bowl To 150 PSI w/ Torque wrench
8:00	12:00	4	Pick B.O.P + Nipple Up

K.B. To Csg. 14.20
KB To Bowl

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 15 DATE Jan 7/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXACO ARTIC RED F-47

WELL NO. F-47 | FIELD OR DIST. ARTIC RED | COUNTY | STATE NW.T

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 2 SIZE 4½ | TOOL JOINT 6 1/4 O.D. | TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Owen Edwards

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
16					88		

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	7¼	5¾	
CONDITIONING MUD & CIRCULATING			
TRIPS		2	
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼		
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	9	8	9

TIME SUMMARY (OFFICE USE ONLY)

	DAY	EVE
DAY WORK	1	
HRS. W/DP		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 9	SIZE 7/16
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD 15	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
2	STANDS D.P.		FT.
2	SINGLES D.P.	25.63	FT.
18	D.C. 6¼ I.D. O.D.	540.53	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
1	RMR. BODY O.D.	2.25	FT.
1	SUBS c/o O.D.	1.50	FT.
	BIT OR C.B.		FT.
	BELL SUB	3.00	FT.
	KELLY DOWN	22.00	FT.
	TOTAL	820.41	FT.

WT. OF STRING 48,000 LBS.

BIT RECORD

BIT NO.	4A
SIZE	13 3/4
MFG.	REED
TYPE	TRICONE
NOZZLE NO.	
NOZZLE SIZE	CON
SER. NO.	534R
DEPTH OUT	
DEPTH IN	435
TOTAL FTG.	385
TOTAL HR. RUN	54¼
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1:00	3:00	6:30
WEIGHT	9.2	9.2	9.1
VISC.-SEC	92	80	110
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	3000#		
Kwik Seal	14 sks		
LO			

DRILLER: Owen Fayka

FOOTAGE 52

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
768	820	RM		FUEL - 8'	60	15M	550	7	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	740	1½°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE
12:15	2:00	1¾	REAM 8¾ to 13¾ HOLE
2:00	2:15	¼	SURVEY @ 740 - ½°
2:15	8:00	5¾	REAM 8¾" TO 13¾" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
3	STANDS D.P.	283.12	FT.
	SINGLES D.P.		FT.
18	D.C. 6¼ I.D. O.D.	540.53	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
1	RMR. BODY O.D.	2.25	FT.
1	SUBS XO O.D.	1.50	FT.
	BIT OR C.B.		FT.
1	BELL SUB	3.00	FT.
	KELLY DOWN	28.00	FT.
	TOTAL	858	FT.

WT. OF STRING 48,000 LBS.

BIT RECORD

BIT NO.	4A
SIZE	13¾
MFG.	REED
TYPE	TRICONE
NOZZLE NO.	
NOZZLE SIZE	CON
SER. NO.	534R
DEPTH OUT	858
DEPTH IN	435
TOTAL FTG.	423
TOTAL HR. RUN	60
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	10:00	12:00	3:00
WEIGHT	9.2	9.2	9.2
VISC.-SEC	93	89	96
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1100#		

DRILLER: Brian Galloway

FOOTAGE 38

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
820	858				60	15	550	7	58			S

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE
8:15	12:30	4¼	REAM 8¾" TO 13¾.
12:30	2:30	2	DUMMY TRIP (DOUBLE MEASURE) (HOLE GOOD)
2:30	4:00	1½	REAM 8¾" TO 13¾.

TALLY 850.40
STRAP 848.75
DIF 1.65

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
3	STANDS D.P.	283.12	FT.
1	SINGLES D.P.	31.53	FT.
18	D.C. 6¼ I.D. O.D.	540.53	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
1	RMR. BODY O.D.	2.25	FT.
1	SUBS XO O.D.	1.50	FT.
	BIT OR C.B.		FT.
1	BELL SUB	3.00	FT.
	KELLY DOWN	23.00	FT.
	TOTAL		FT.

WT. OF STRING 49,000 LBS.

BIT RECORD

BIT NO.	4A
SIZE	13¾
MFG.	REED
TYPE	TRICONE
NOZZLE NO.	
NOZZLE SIZE	CON
SER. NO.	534R
DEPTH OUT	
DEPTH IN	435
TOTAL FTG.	449
TOTAL HR. RUN	65
COND. OF BIT	4/1
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6:00	8:00	10:00
WEIGHT	9.2	9.2	9.2
VISC.-SEC	110	115	112
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2800#		
SAWDUST	35 sks		
KWIKSEAL	8 sks		

DRILLER: D. Fayka

FOOTAGE 26

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
858	884	RM			60	15	550	7	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE
4:15	9:15	5	REAM 8¾" TO 13¾
9:15	10:00	3/4	CIRC. AND CONDITION HOLE
10:00	11:00	1	TRIP OUT to RUN CASING
11:00	12:00	1	RIG UP to RUN CASING

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 14 — DATE Jan. 6/73

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ETAL TEXACO ARTIC RED F-47	F47	ARTIC RED		N.W.T

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT	SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Jennings International Drilling, Division of Pancana Industries Ltd.	9	2	4½	6 1/4 O.D. TYPE THD. XH		

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
16						88'	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	7¾	7¾	7¼
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			½
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE ⅛
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	22
CUMULATIVE TON MI. OR TRIPS	22
NO. OF DAYS FROM SPUD	11
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
1	STANDS D.P.	94.39 FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
18	D.C. 6 1/4 I.D. O.D.	540.53 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
1	RMR. BODY O.D.	2.25 FT.
1	SUBS c/o O.D.	1.50 FT.
	BIT OR C.B.	FT.
	BELL SUB	3.00 FT.
	KELLY DOWN	39.00 FT.
	TOTAL	680.67 FT.
WT. OF STRING		40,000 LBS.

BIT RECORD

BIT NO.	4A
SIZE	13 3/4
MFG.	REED
TYPE	TRI CONE
NOZZLE NO.	
NOZZLE SIZE	CONE
SER. NO.	534R
DEPTH OUT	
DEPTH IN	435
TOTAL FTG.	235
TOTAL HR. RUN	31¼
COND. OF BIT	0/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	7:00	4:00	7:00
WEIGHT	9.1	9.2	9.2
VISC.-SEC	95	95	90
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		
~~Kwik Seal~~	~~2 SKS~~		

DRILLER David Taylor

FOOTAGE 581 — DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
612	670	RM	FUEL —	60	15M	500	7"	68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	RIG SERVICE
12 15	8 00	7¾	REAM 8¾" to 13¾" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
1	STANDS D.P.	94.11 FT.
2	SINGLES D.P.	63.43 FT.
	D.C. 6¼ I.D. O.D.	
18	D.C.	540.63 FT.
	I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
1	RMR. BODY O.D.	2.25 FT.
1	SUBS XO O.D.	1.50 FT.
	BIT OR C.B.	FT.
1	BELL SUB	3.00 FT.
	KELLY DOWN	18.00 FT.
	TOTAL	723 FT.
WT. OF STRING		48,000 LBS.

BIT RECORD

BIT NO.	4A
SIZE	13¾
MFG.	REED
TYPE	TRI CONE
NOZZLE NO.	
NOZZLE SIZE	CONE
SER. NO.	534R
DEPTH OUT	723
DEPTH IN	435
TOTAL FTG.	288
TOTAL HR. RUN	39
COND. OF BIT	0B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	10:00	12:00	2:00
WEIGHT	9.3	9.3	9.3
VISC.-SEC	110	80	94
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	3000#	LOST MUD	
SAWDUST	38 BAGS	TO FORATION	
KWIK SEAL	10 BAGS		

DRILLER Bruce Lodewyk

FOOTAGE 53 — DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
670	723	RM		60	15	500	7	58			S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE
8:15	4:00	7¾	REAM 8¾" HOLE TO 13¾
			CHECK CASING BOWL OK
			CHECK ESCAPE BUGGY OK
		8	

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
2	STANDS D.P.	188.72 FT.
	SINGLES D.P.	FT.
	D.C.	
18	D.C. 6¼ I.D. O.D.	540.63 FT.
	I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
1	RMR. BODY O.D.	2.25 FT.
1	SUBS XO O.D.	1.50 FT.
	BIT OR C.B.	FT.
1	BELL SUB	3.00 FT.
	KELLY DOWN	33.00 FT.
	TOTAL	768 FT.
WT. OF STRING		48,000 LBS.

BIT RECORD

BIT NO.	4A
SIZE	13¾
MFG.	REED
TYPE	TRI CONE
NOZZLE NO.	
NOZZLE SIZE	CONE
SER. NO.	534R
DEPTH OUT	
DEPTH IN	435
TOTAL FTG.	333
TOTAL HR. RUN	46½
COND. OF BIT	0/0
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6:00	8:00	10:00
WEIGHT	9.2	9.2	9.2
VISC.-SEC	115	100	90
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1100#		

DRILLER Dave Taylor

FOOTAGE 45 — DR.-D RM.-R CORE.-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
723	768	RM		60	15	500	7	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE
4:15	6:30	2¼	REAM 8¾" HOLE TO 13¾"
6:30	7:00	½	REPAIR ROTARY CHAIN
7:00	12 00	5	REAM 8¾" HOLE TO 13¾"

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 13 — DATE Jan. 5/73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL TEXICO MOBIL ARTIC RED E-47

WELL NO.: E-47

FIELD OR DIST.: ARTIC RED

COUNTY:

STATE: N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO.: 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Cam Ehrett

DRILL PIPE STRING: NO. 2, SIZE 4½, TYPE THD. X H

TOOL JOINT: 6¼ O.D.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	DA 500	16"
2.	Emsco	DA 500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
13"				88		88	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	7 3/4	7 1/2	7 3/4
CONDITIONING MUD & CIRCULATE			
TRIPS			
LUBRICATE RIG	1/4	1/4	1/4
DEVIATION SURVEY		1/4	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
2	SINGLES D.P.	63.2	FT.
	D.C. I.D. O.D.		FT.
13	D.C. 6 1/4 I.D. O.D.	391.48	FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	2.60	FT.
1	BIT OR C.B.	2.25	FT.
1	SEE SUB	3.00	FT.
	KELLY DOWN	41.00	FT.
	TOTAL	503	FT.
WT. OF STRING		42,000	LBS.

BIT RECORD

BIT NO.	4A
SIZE	13 3/4
MFG.	REED
TYPE	TRI CONE
NOZZLE NO.	
NOZZLE SIZE	EOD
SER. NO.	534R
DEPTH OUT	503
DEPTH IN	435
TOTAL FTG.	63
TOTAL HR. RUN	8 1/4
COND. OF BIT	O/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2:00	4:00	7:00
WEIGHT	9.3	9.2	9.0
VISC.-SEC	95	85	85
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2600#		
FIBRE SEAL	3 SKS		

DRILLER: David Tyska

FOOTAGE 63'

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
440	503	RM		FUEL 6' 7"	60	15M	4[illegible]	7"	58			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	1/4	Rig Service
12:15	8:00	7 3/4	Ream 8 3/4" to 13 3/4"

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
2	SINGLES D.P.	63.05	FT.
	D.C. 6 1/4 I.D. O.D.		FT.
16	D.C.	480.16	FT.
	I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
1	RMR. BODY O.D.	2.60	FT.
1	SUBS C/O O.D.	2.25	FT.
1	BIT OR C.B.	3.00	FT.
1	SEE SUB	17.00	FT.
	KELLY DOWN	566	FT.
	TOTAL	46,000	LBS.
WT. OF STRING			

BIT RECORD

BIT NO.	4A
SIZE	13 3/4
MFG.	REED
TYPE	TRI CONE
NOZZLE NO.	
NOZZLE SIZE	CONE
SER. NO.	534R
DEPTH OUT	568
DEPTH IN	435
TOTAL FTG.	133
TOTAL HR. RUN	15 3/4
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	10:00	12:00	2:00
WEIGHT	9.2	9.2	9.2
VISC.-SEC	200	150	126
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1400#		
SAWDUST	14 BAGS		
FIBRE SEAL	2 BAGS		

DRILLER: Brian Hadaway

FOOTAGE 65

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
503	568	RM			60	15M	500	7	58			S

DEVIATION RECORD: DEPTH 490 | DEV. 1/2° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	1/4	Rig Service
8:15	11:00	2 3/4	Ream 8 3/4 to 13 3/4.
11:00	11:15	1/4	Survey @ 490 1/2°
11:15	4:00	4 3/4	Ream 8 3/4 to 13 3/4

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
1	SINGLES D.P.	31.37	FT.
	D.C. 6 1/4 I.D.	540.53	FT.
18	D.C.		FT.
	I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
1	RMR. BODY O.D.	2.25	FT.
1	SUBS C/O O.D.	1.50	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	37.00	FT.
	TOTAL	612	FT.
WT. OF STRING		45,000	LBS.

BIT RECORD

BIT NO.	4A
SIZE	13 3/4
MFG.	REED
TYPE	TRI CONE
NOZZLE NO.	
NOZZLE SIZE	CONE
SER. NO.	534R
DEPTH OUT	
DEPTH IN	435
TOTAL FTG.	177
TOTAL HR. RUN	23 1/2
COND. OF BIT	O/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6:00	8:00	10:00
WEIGHT	9.3	9.2	9.2
VISC.-SEC	120	110	98
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL			
RUNSEAL			

DRILLER: David Tyska

FOOTAGE 44'

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
568	612	RM			50	15M	500	7	58			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	1/4	Rig Service
4:15	12:00	7 3/4	Ream 8 3/4" Hole to 13 3/4

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 13 — DATE Jan. 5/73

OPERATOR: CANDEL OIL

LEASE: CANDEL FTAC (TEXICO / MOBIL) ARTIC RED E-47

WELL NO.: E-47 — FIELD OR DIST.: ARTIC RED — COUNTY — STATE: N.W.T.

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO.: 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Cam Ephcott

DRILL PIPE STRING: NO. 3, SIZE 4½ — TOOL JOINT 6 1/4 O.D., TYPE THD. XH

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	Da 500	16"
2.	Emsco	Da 500	16"
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
15"				88		88	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	7¾	7½	7¾
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE ⅛
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
2	SINGLES D.P.	62.2	FT.
	D.C. I.D. O.D.		FT.
13	D.C. 6 1/4 I.D. O.D.	391.45	FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	2.60	FT.
1	BUMPER	2.25	FT.
1	BELL SUB	3.00	FT.
	KELLY DOWN	41.00	FT.
	TOTAL	503	FT.

WT. OF STRING 42,000 LBS.

BIT RECORD

BIT NO.	4A
SIZE	13 3/4
MFG.	REED
TYPE	TKI CONE
NOZZLE NO.	
NOZZLE SIZE	COND
SER. NO.	534R
DEPTH OUT	503
DEPTH IN	435
TOTAL FTG.	63
TOTAL HR. RUN	8¼
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2:00	4:00	7:00
WEIGHT	9.3	9.3	9.0
VISC.-SEC	95	85	85
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	260#		
FIBRE SEAL	3 SKS		

DRILLER: David Tupkas

FOOTAGE 63' — DR.-D RM.-R CORE.-C: RM — CORE NO.

FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL-P COM'D-C
440	503	FUEL 6' 7"	60	15M	400	7"	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	Rig Service
12:15	9:00	7¾	Ream 8¾" to 13¾"

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
2	SINGLES D.P.	63.05	FT.
	D.C. I.D. O.D.		FT.
16	D.C. 6¼ I.D. O.D.	480.16	FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
1	RMR. BODY O.D.	2.60	FT.
1	SUBS C/O O.D.		FT.
1	BUMPER	2.25	FT.
1	BELL SUB	3.00	FT.
	KELLY DOWN	17.00	FT.
	TOTAL	568	FT.

WT. OF STRING 46,000 LBS.

BIT RECORD

BIT NO.	4A
SIZE	13¾
MFG.	REED
TYPE	TKI CONE
NOZZLE NO.	
NOZZLE SIZE	COND
SER. NO.	534R
DEPTH OUT	568
DEPTH IN	435
TOTAL FTG.	133
TOTAL HR. RUN	15¾
COND. OF BIT	OB
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	10:00	12:00	2:00
WEIGHT	9.2	9.2	9.2
VISC.-SEC	200	160	176
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1400#		
SAWDUST	14 BAGS		
FIBRE SEAL	2 BAGS		

DRILLER: Brian Sadaway

FOOTAGE 65 — DR.-D RM.-R CORE.-C: RM — CORE NO.

FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL-P COM'D-C
503	568	RM	60	15M	500	7	58			S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
490	½°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	Rig Service
8:15	11:00	2¾	Ream 8¾ to 13¾.
11:00	11:15	¼	Survey @ 490 ½°
11:15	4:00	4¾	Ream 8¾ to 13¾.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
1	SINGLES D.P.	31.37	FT.
	D.C. I.D. O.D.		FT.
18	D.C. 6¼ I.D. O.D.	540.53	FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
1	RMR. BODY O.D.	2.25	FT.
1	SUBS C/O O.D.	1.60	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	37.00	FT.
	TOTAL	612	FT.

WT. OF STRING 48,000 LBS.

BIT RECORD

BIT NO.	4A
SIZE	13¾
MFG.	REED
TYPE	TRI CONE
NOZZLE NO.	
NOZZLE SIZE	COND
SER. NO.	534R
DEPTH OUT	
DEPTH IN	435
TOTAL FTG.	177
TOTAL HR. RUN	23½
COND. OF BIT	O/B
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6:00	8:00	10:00
WEIGHT	9.3	9.2	9.2
VISC.-SEC	120	110	98
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	—		
RUBBISH	—		

DRILLER: David Tupkas

FOOTAGE 44' — DR.-D RM.-R CORE.-C: RM — CORE NO.

FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL-P COM'D-C
568	612	RM	50	15M	500	7"	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	Rig Service
4:15	12:00	7¾	Ream 8¾" HOLE TO 13¾".

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 12 — DATE Jan 4 19

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ETAL MOBIL ARCTIC RED	47	ARCTIC RED		N W T

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
Jennings International Drilling, Division of Pancana Industries Ltd.	9	2	4½	6¼	XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Tool Pusher

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 500	16
2.	EMSCO	DA 500	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
16						48	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	¼	¼	
REAMING	3¾	7½	5½
CONDITIONING MUD & CIRCULATING			
TRIPS	2½		1½
LUBRICATE RIG	¼		
DEVIATION SURVEY	¼		¼
TEST B.O.P.			
CUT OFF DRILLING LINE	1		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			3½
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 9	SIZE 1¼
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			FT.
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
10	D.C. 6¼ I.D. 2¼ O.D.		301.63 FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.		2.60 FT.
1	REAMER BIT OR C.B.		2.25 FT.
	SUB		3.00 FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	5-A	3-A	
SIZE	8¾	13½	
MFG.	HW	REED	
TYPE	XOV		
NOZZLE NO.	3		
NOZZLE SIZE	20		
SER. NO.	47293	140054	
DEPTH OUT	900		
DEPTH IN	766	291	
TOTAL FTG.	493		
TOTAL HR. RUN	28		
COND. OF BIT	5-4-1		
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	12⁰⁰	5⁰⁰	10⁰⁰
WEIGHT	12	11	12
VISC.-SEC	60	55	75
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2400#		
SAWDUST	16 SKS		
GUM	4 SKS		

DRILLER: Lon & Lester

FOOTAGE 5

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
895	900	DR		FUEL 5 4	60	20M	500	7	58			
291	96	RM			40	10M	300	7				
				1 - 72 BOILERS IN OPERATION								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	900	½°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	RIG SERVICE
12¹⁵	12³⁰	¼	DRILL 8¾ PILOT HOLE
12³⁰	12⁴⁵	¼	SURVEY @ 900'
12⁴⁵	2⁰⁰	1¼	STRAP OUT OF HOLE
2⁰⁰	3⁰⁰	1	SLIP + CUT 84' LINE
3⁰⁰	4¹⁵	1¼	MAKE UP REAMER - RUN IN
4¹⁵	8⁰⁰	3¾	REAM OUT 8½ PILOT HOLE TO 13½

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			FT.
	STANDS D.P.		FT.
6	SINGLES D.P.	63.12	FT.
10	D.C. 6¼ I.D. 2¼ O.D.	301.63	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	2.60	FT.
1	BIT OR C.B.	2.25	FT.
			FT.
	KELLY DOWN	30.00	FT.
	TOTAL	402.00	FT.
WT. OF STRING		70,000	LBS.

BIT RECORD

BIT NO.	3 RR		
SIZE	13¾		
MFG.	HTC		
TYPE	J-22		
NOZZLE NO.	20		
NOZZLE SIZE			
SER. NO.	[illegible]		
DEPTH OUT			
DEPTH IN	291		
TOTAL FTG.	402		
TOTAL HR. RUN	12½		
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	10⁰⁰	12⁰⁰	2⁰⁰
WEIGHT	9.2	9.2	9.2
VISC.-SEC	90	100	92
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2000#		
GUM	10 SKS		

DRILLER: Lloyd Santos

FOOTAGE 76

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
321	402	RM			60	12-20	500	7	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7⁰⁰	8¹⁵	1¼	RIG SER.
8¹⁵	4⁰⁰	7¾	REAM 13¾" I.D. 13¾"

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			FT.
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
12	D.C. 6¼ I.D. 2¼ O.D.	391.45	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS C/O O.D.	1.60	FT.
1	REAMER BIT OR C.B.	4.05	FT.
	PILE SUB		FT.
	KELLY DOWN	41.00	FT.
	TOTAL	440.30	FT.
WT. OF STRING		42,000	LBS.

BIT RECORD

BIT NO.	3-A	4-A	
SIZE	13¾	13¾	
MFG.	HTC	HTC	
TYPE	J-22	J-22	
NOZZLE NO.	20	20	
NOZZLE SIZE			
SER. NO.	[illegible]	[illegible]	
DEPTH OUT	433		
DEPTH IN	291	433	
TOTAL FTG.	142	5	
TOTAL HR. RUN	43¾	¼	
COND. OF BIT	2-1-1	OB	
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	4⁰⁰	8⁰⁰	
WEIGHT	9.3	13	
VISC.-SEC	94	100	
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1400#		
[illegible]	1 DRUM		

DRILLER:

FOOTAGE 38

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
402	440	RM			60	12-20	500	7	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7⁰⁰	7¹⁵	¼	RIG SERVICE
7¹⁵	9¹⁵	2	REAM 13¾ to 13¾
9:15	10:00	¾	MAKE UP REAMER
10.00	10:30	½	[illegible]
10:30	11:30	1	[illegible]
11:30	12:00	½	REAM SD. - 1.23

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 11 — DATE JAN 2 [illegible]

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ET AL MOBIL ARCTIC [illegible]	F-77	ARCTIC RED		NWT

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
Jennings International Drilling, Division of Pancana Industries Ltd.	9	4	4½	6 1/4	XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: James Hooker

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA 500	16
2.	EMSCO	DA 500	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
6				46		41	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL		23½	½
REAMING	6¾	1½	
CONDITIONING MUD & CIRCULATING		¾	
TRIPS	1	14	
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. STABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	46	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 4	SIZE ½
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
4	D.C. 6 1/2 I.D. O.D.	242.40 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
1	RMR. BODY O.D.	1.25 FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	FT.
1	BIT 3	3.00 FT.
	KELLY DOWN	10.85 FT.
	TOTAL	1100.00 FT.
WT. OF STRING	30000 LBS.	

BIT RECORD

BIT NO.	RERUN	3-A
SIZE		13¾
MFG.		REED
TYPE		HUGHES
NOZZLE NO.		20N
NOZZLE SIZE		
SER. NO.		400530
DEPTH OUT		
DEPTH IN		90
TOTAL FTG.		260
TOTAL HR. RUN		22½
COND. OF BIT		1/1
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	2 PM	[illegible]	4 A.M.
WEIGHT	9.0		1.7
VISC.-SEC	150		125
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICAL ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Ray Lester

FOOTAGE 25

FROM	TO	DR. RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
235	260	RM		FUEL CO 8	40	10M	300	7	54			
				#1 + #2 BOILERS IN OPERATION 24 HRS.								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	RIG SERVICE
1215	215	2	REAM 4¾" HOLE TO 13¾" HOLE
215	315	1	TRIP OUT TO CHECK REAMER - DRY - RUN IN
315	800	4¾	REAM 8½ PILOT HOLE TO 13¾" OD HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
2	STANDS D.P.	189.76 FT.
1	SINGLES D.P.	31.38 FT.
18	D.C. 6" I.D. O.D.	540.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
1	BIT OR C.B. SUB	2.98 FT.
		FT.
	KELLY DOWN	41.04 FT.
	TOTAL	806.07 FT.
WT. OF STRING	45,000	LBS.

BIT RECORD

BIT NO.		RR 1
SIZE	12¼	8½
MFG.	HW	HW
TYPE	XDV	XDV
NOZZLE NO.	1-12	1
NOZZLE SIZE	12	12
SER. NO.	1400516	1400516
DEPTH OUT	241	
DEPTH IN	10	206
TOTAL FTG.	291	399
TOTAL HR. RUN	24	20½
COND. OF BIT	2-2-I	1/8
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1700	[illegible]	500
WEIGHT	9.0	1	10
VISC.-SEC	70	70	85
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	5100#		
SAWDUST	66 SKS		
KWIK SEAL	16 SKS		
DRILLER	[illegible]		

FOOTAGE

FROM	TO	DR. RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
260	291	RM	31				300	7				
766	806	D	40		70	15M	500	7	52			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
200	815	¼	RIG SER.
815	945	1½	REAM 4¾ to 13¾ HOLE
945	1045	1	TRIP OUT W/ 13¾" REAMER LAY DOWN SAME
1045	1130	¾	RUN IN W/ 8¾"
1130	1215	¾	BREAK CIR. CLEAN FILL 60'
1215	400	3¾	DRILL 8¾" PILOT HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
3	STANDS D.P.	283.26 FT.
1	SINGLES D.P.	30.77 FT.
19	D.C. 6" I.D. O.D.	570.53 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS C/O O.D.	1.50 FT.
	BIT OR C.B.	FT.
1	BIT 3	1.44 FT.
	KELLY DOWN	35.96 FT.
	TOTAL	923.73 FT.
WT. OF STRING	50000	LBS.

BIT RECORD

BIT NO.	1	RR-3-A
SIZE	12¼	
MFG.	HW	
TYPE	XDV	
NOZZLE NO.	2	
NOZZLE SIZE	12	
SER. NO.	457913	
DEPTH OUT		
DEPTH IN	716	
TOTAL FTG.	448	
TOTAL HR. RUN	27½	
COND. OF BIT	0/2	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	500	900	1100
WEIGHT	8.9	9.0	9.0
VISC.-SEC	85	90	85
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	5600#		
SAWDUST	31 SKS		
QUIK-SEAL	8 SKS		
DRILLER	[illegible]		

FOOTAGE 39

FROM	TO	DR. RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
806	845	D			110	15M	545	7	54			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
806	42°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	RIG SER.
415	645	2½	DRILL 8¾" PILOT HOLE
645	700	¼	SURVEY @ 806 -
700	1100	5	DRILL 8¾" PILOT HOLE

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 10 DATE JAN 24 83

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ET AL MOBIL ARCTIC RED #1	F-41	ARCTIC RED		NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT: O.D. — TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T. [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-600	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
16"				XX		82	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	4		
REAMING		5	3¼
CONDITIONING MUD & CIRCULATING		½	
TRIPS		11	
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	½		
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT	WOC	3¾	1½
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
2	STANDS D.P.	1911	FT.
	SINGLES D.P.		FT.
19	D.C. I.D. O.D.	5¼ 6¼	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS O.D.	6½	FT.
	BIT OR C.B.		FT.
1	12¼ HW3	744	FT.
	KELLY DOWN	39.73	FT.
	TOTAL	7[illegible]	FT.
WT. OF STRING	50,000	LBS.	

BIT RECORD		
BIT NO.	5-A	
SIZE	9 7/8	
MFG.	HW	
TYPE	XDV	
NOZZLE NO.	3	
NOZZLE SIZE	20	
SER. NO.	45743	
DEPTH OUT		
DEPTH IN	407	
TOTAL FTG.	359	
TOTAL HR. RUN	16½	
COND. OF BIT	2/3	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	100	300	500
WEIGHT	9.4	14	14
VISC.-SEC	60	70	75
W.L.-C.C.			
FL TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	8000#		
QUIK SEAL	14 SKS.		
SAWDUST	41 SKS.		

DRILLER [illegible]

FOOTAGE 114 — DR.-D RM.-R CORE-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
642	766	D	FUEL 9'	70	15M	400	7	38			
				120	15M						
			1 + 2 BOILERS IN OPERATION 24 HRS.								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	608	¾°		703	⅛°				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	RIG SERVICE
12 15	12 30	¼	SURVEY @ 608'
12 30	3 45	3½	DRILL 8¾" PILOT HOLE
3 45	4 00	¼	SURVEY @ 703' ⅛°
4 00	4 45	¾	DRILL 8¾" PILOT HOLE
4 45	8 00	3¼	W/O WATER LOST CIRC

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
1	SINGLES D.P.	1,313	FT.
3	D.C. I.D. O.D.		FT.
	D.C. BULL T.D.500	3.00	FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
	REAMER	2.25	FT.
	KELLY DOWN	31.00	FT.
	TOTAL	160.00	FT.
WT. OF STRING	18,000	LBS.	

BIT RECORD		
BIT NO.	5A	
SIZE	9 7/8	
MFG.	HW	
TYPE	XDV	
NOZZLE NO.	3	
NOZZLE SIZE	20	
SER. NO.	45743	
DEPTH OUT	766	
DEPTH IN	407	90
TOTAL FTG.	359	70
TOTAL HR. RUN	16½	
COND. OF BIT	3/3	
REAMER NO.	2	
REAMER TYPE		

MUD RECORD			
TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	8000#		
SAWDUST	84 SKS		
KWIK SEAL	19 SKS		

DRILLER [illegible]

FOOTAGE 901 — DR.-D RM.-R CORE-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
766		D		70	15M		7				
90	160	RM		70	15M	2[illegible]	7				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	8 15	¼	RIG SERVICE
8 15	9 45	1½	WAIT ON WATER MIX LOST CIRC MATERIAL + CIRC
9 45	10 15	½	TRIP OUT W/ 9¾" D.J
10 15	11 00	¾	PICK U/D 13¾ REAMER RUN IN & REAM
11 00	4 00	5	REAM 9¾ TO 13¾

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
9	STANDS D.P.		FT.
1	SINGLES D.P.	31.37	FT.
20	D.C. I.D. O.D.	142.81	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS O.D.	1.50	FT.
1	BIT OR C.B.	1.64	FT.
1	REAMER	2.25	FT.
	KELLY DOWN	41.00	FT.
	TOTAL	324.57	FT.
WT. OF STRING	[illegible]	LBS.	

BIT RECORD		
BIT NO.	3A	
SIZE	13¾	
MFG.	REED	
TYPE	[illegible]	
NOZZLE NO.	CONVENT	
NOZZLE SIZE		
SER. NO.	[illegible]	
DEPTH OUT		
DEPTH IN	90	
TOTAL FTG.	795	
TOTAL HR. RUN	15¾	
COND. OF BIT	1/2	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	10 PM		
WEIGHT	9.0		
VISC.-SEC	41.0		
W.L.-C.C.			
FL TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	65.0#		
SAWDUST	41 SKS		
KWIK SEAL	19 SKS		

DRILLER [illegible]

FOOTAGE 75' — DR.-D RM.-R CORE-C

FROM	TO	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
160	225	RM		70	15M	300	7	54			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	¼	RIG SER.
4 15	12 00	7¾	REAM 8¾' to 13¾

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 9 — DATE JAN 1 73

OPERATOR: CANDEL OIL

LEASE: CANDEL ETAL MOBIL ARCTIC RED

WELL NO. E-47 | FIELD OR DIST. ARCTIC MAC | COUNTY | STATE NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 1 SIZE 4 1/2 — TYPE THD. XH — TOOL JOINT 6 1/4 O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DB500	16
2.	EMSCO	D-500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
10				48		47	250 SKS CEMENT

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL		11	7 3/4
REAMING			
CONDITIONING MUD & CIRCULATING	7 3/4	5 1/4	
TRIPS	3/4		
LUBRICATE RIG	1/4	1/4	1/4
DEVIATION SURVEY			1/4
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER — P Pull		1 1/2	
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	4	24	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 9	SIZE 1 1/8
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
16	D.C. I.D. 6 1/2	O.D. 6 1/2	440.16 FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	FT.
	SUBS	O.D.	FT.
	BIT OR C.B.		FT.
	DRILLED		FT.
	KELLY DOWN	37 1/2	FT.
	TOTAL	517.25	FT.

WT. OF STRING 48000 LBS.

BIT RECORD

BIT NO.		G.A
SIZE		9 3/4
MFG.		HTC
TYPE		XDV
NOZZLE NO.		3
NOZZLE SIZE		20
SER. NO.		422713
DEPTH OUT		
DEPTH IN		407
TOTAL FTG.		
TOTAL HR. RUN		2 1/2
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1900			
WEIGHT	9.3			
VISC.-SEC	45			
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1400 LBS	KWIK SEAL	400 LBS
CAUSTIC	10 LBS		
LIME	7 SKS		

DRILLER Bob Latour

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
517				FUEL &								
				#1 & #2 BOILERS IN OPERATION 24 HRS.								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1900	1915	1/4	RIG SERVICE
1915	115	1	CIRC PU 90 OFF BOTTOM (RETURNS)
115	700	5 3/4	MIX ANOTHER GEL OIL - LOSE SIRC MATERIAL
700	715	1/4	RUN STRING TO BOTTOM
715	800	1/4	CIRC MUD PU ON BOTTOM - RETURNS

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
16	D.C. I.D. 6 1/2	O.D. 6 1/2	440.16 FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	FT.
1	SUBS	O.D. 6 1/2	1.50 FT.
1	BIT OR C.B.		0.90 FT.
			FT.
	KELLY DOWN	37 1/2	FT.
	TOTAL	521	FT.

WT. OF STRING 48000 LBS.

BIT RECORD

BIT NO.		7A
SIZE		9 3/4
MFG.		HTC
TYPE		XDV
NOZZLE NO.		3
NOZZLE SIZE		20
SER. NO.		422713
DEPTH OUT		
DEPTH IN		407
TOTAL FTG.		114
TOTAL HR. RUN		5
COND. OF BIT		1-8
REAMER NO.		1
REAMER TYPE		

MUD RECORD

TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	800 LBS		76
CAUSTIC	10 LBS		
LIME	10 SKS		

DRILLER Bob Latour

FOOTAGE 4'

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
517	521	D			40	15M	300	7"	40			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 AM	8 15	1/4	RIG SERVICE
8 15	8 30	1/4	DRILL 8 3/4" PILOT HOLE
830	5-5	1/4	SURVEY (PU OFF BOTTOM)
5 15	230	5 3/4	DRILL 8 3/4" PILOT HOLE
230	3 45	1 1/4	PUMP DOWN PULL (OUT RETURNS) SLOW
345	400	1/4	DRILL 8 3/4" PILOT HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
1	SINGLES D.P.		124.71 FT.
18	D.C. I.D. 6 1/2	O.D. 6 1/2	540.53 FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	FT.
1	SUBS	O.D. 6 1/2	1.50 FT.
1	BIT OR C.B.		1.09 FT.
			FT.
	KELLY DOWN	41	FT.
	TOTAL	713	FT.

WT. OF STRING 52000 LBS.

BIT RECORD

BIT NO.		7B
SIZE		9 3/4
MFG.		HTC
TYPE		XDV
NOZZLE NO.		3
NOZZLE SIZE		20
SER. NO.		422713
DEPTH OUT		
DEPTH IN		407
TOTAL FTG.		341
TOTAL HR. RUN		11 1/2
COND. OF BIT		0-3
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1 00	900	1000	
WEIGHT	9.3	9.5	9.4	
VISC.-SEC	46	75	75	
W.L.-C.C.				
FLTR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	800 LBS		
KWIK SEAL	200 LBS		

DRILLER Bob Latour

FOOTAGE 117

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
521	1644	D			110	15M	500	7"				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
540	3/4°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	1/4	RIG SERVICE
415	815	4	DRILL 8 3/4" PILOT HOLE
815	830	1/4	SURVEY 540' 3/4°
830	1700	2 1/2	DRILL 8 3/4" PILOT HOLE

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 4 — DATE Dec 31, 12

OPERATOR: CANDEL OIL

LEASE: CANDELET AL MOBIL ARCHERED [illegible]

WELL NO.: F-47 — FIELD OR DIST.: [illegible] — COUNTY: WISE — STATE:

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO.: 9

DRILL PIPE STRING: NO. 8 SIZE 4½ — TOOL JOINT O.D. [illegible] — TYPE THD. [illegible]

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	12
2.	EMSCO	DA-500	12
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
16				42'		42'	150 SKS

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	4¼		
REAMING			
CONDITIONING MUD & CIRCULATING	3½	8¼	7¾
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼		
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	4	4	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE 1½
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	8
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C.	
16	I.D. 2¼ O.D.	440.16 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS 5½ O.D.	1.50 FT.
	BIT OR C.B.	FT.
1	Bit Subs	1.98 FT.
	KELLY DOWN	37.34 FT.
	TOTAL	517.00 FT.

WT. OF STRING 45000 LBS.

BIT RECORD

BIT NO.	5-A
SIZE	4¾
MFG.	HW
TYPE	J44
NOZZLE NO.	2
NOZZLE SIZE	20
SER. NO.	47403
DEPTH OUT	
DEPTH IN	407
TOTAL FTG.	110
TOTAL HR. RUN	4¼
COND. OF BIT	0/3
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	2:00	6:00
WEIGHT	9.1	9.1	9.1
VISC.-SEC	47	46	48
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CEL	9700#		
SAWDUST	94 SKS		
FIBERSEAL	0 SKS		

DRILLER: Danny Hastings

FOOTAGE

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
407	517	D		SAND 6'3"	90	15M	600	7"	45			
				1=½ BOILERS IN OPERATION WHEN								

DEVIATION RECORD: DEPTH 421 — DEV. ¼° — DIRECTION — DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
11:00	12:15	¼	RIG SERVICE
12:15	12:45	½	DRLG 4¾" HOLE
12:45	2:15	1½	MIX RED DYE + SAWDUST FOR LOSS OF CIRC.
2:15	3:45	1½	DRLG 4¾" HOLE
3:45	4:00	¼	SURVEY @ 421'
4:00	6:00	2	DRLG 4¾" HOLE
6:00	8:00	1¾	MIX LOSS CIRC. MATERIAL + GEL (LOST 200 bbls)

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C.	
	I.D. O.D.	FT.
	D.C.	
	I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS 5½ O.D.	1.5 FT.
	BIT OR C.B.	FT.
1	Bit Subs	1.98 FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	5A
SIZE	4¾
MFG.	HW
TYPE	J44
NOZZLE NO.	3
NOZZLE SIZE	20
SER. NO.	47142
DEPTH OUT	
DEPTH IN	407
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	5400#		
SAWDUST	143 SKS		
FORE SEAL	40 SKS		

DRILLER: Danny Hastings

FOOTAGE

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
517		D										

DEVIATION RECORD: DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:00	8:15	¼	RIG SERVICE
8:15	11:00	1¾	MIX LOSS CIRC MATERIAL + FILL
11:00	11:30	½	PUMP PATCH DOWN (NO RETURNS)
11:30	4:00	5½	MIX MUD + LOSS CIRC MATERIAL, W/O WATER

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C.	
	I.D. O.D.	FT.
	D.C.	
	I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	5-A
SIZE	4¾
MFG.	HW
TYPE	J44
NOZZLE NO.	3
NOZZLE SIZE	20
SER. NO.	47142
DEPTH OUT	
DEPTH IN	407
TOTAL FTG.	
TOTAL HR. RUN	1¼
COND. OF BIT	0/3
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00		
WEIGHT	9.3		
VISC.-SEC	47		
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Danny Hastings

FOOTAGE

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD: DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE
4:15	5:00	¾	MIX GEL + LOSS CIRC MATERIAL W/O WATER
5:00	6:00	1	PUMP DOWN PIPE (NO RETURNS) (LOST 140 BBLS)
6:00	12:00	6	MIX LOST CIRC MATERIAL + GEL.
			RETURNS @ 12 PM

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 7 — DATE Dec 30/12

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ET AL MOBIL ARCTIC RED F-47	F-47	ARCTIC RED		NWT

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D. / TYPE THD.
Jennings International Drilling, Division of Pancana Industries Ltd.	9			

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jason Bridson

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16"
2.	EMSCO	DA-500	16"
3.			

LAST CASING / TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
16"	UNK			84'		KB	250 SKS

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			1 3/4
CONDITIONING MUD & CIRCULATING			5 3/4
TRIPS			1/4
LUBRICATE RIG	1/4	1/4	1/4
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT	17 1/4		
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	18	24	6

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE 1/4
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

NO. 2

DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.		FT.
SINGLES D.P.		FT.
D.C. I.D. O.D.		FT.
D.C. I.D. O.D.		FT.
STB. BODY O.D.		FT.
STB. BODY O.D.		FT.
RMR. BODY O.D.		FT.
SUBS O.D.		FT.
BIT OR C.B.		FT.
		FT.
KELLY DOWN		FT.
TOTAL		FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR. RM. CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
				FUEL 16½'								
				#1 - #2 BOILERS IN OPERATION 24 HRS.								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE
12:15	8:00	7¾	WOC

DAY TOUR

NO.

DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.		FT.
SINGLES D.P.		FT.
D.C. I.D. O.D.		FT.
D.C. I.D. O.D.		FT.
STB. BODY O.D.		FT.
STB. BODY O.D.		FT.
RMR. BODY O.D.		FT.
SUBS O.D.		FT.
BIT OR C.B.		FT.
		FT.
KELLY DOWN		FT.
TOTAL		FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2 SK		

DRILLER Glen Fortune

FOOTAGE

FROM	TO	DR. RM. CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	R.G. SERVICE
8:15	1:15	5	T.O.O.H.
1:15	1:30	¼	RUN IN W/ 13¾" REAMER ASSEMBLY
1:30	2:30	1	DRILL OUT CEMENT & HI-TEMP CEMENT @ 651'
2:30	3:30	1	TREAT OUT CON MUD
3:30	4:30	1	DRILL OUT CEMENT W/ REAMER

EVENING TOUR

NO. 3

DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.		FT.
SINGLES D.P.		FT.
D.C. 8 1/4 I.D. O.D.	391.64	FT.
D.C. I.D. O.D.		FT.
STB. BODY O.D.		FT.
STB. BODY O.D.		FT.
RMR. BODY O.D.		FT.
SUBS O.D.	1.50	FT.
BIT OR C.B.		FT.
13¾" REAMER	7.96	FT.
KELLY DOWN	11.37	FT.
TOTAL	411.47	FT.
WT. OF STRING	40000	LBS.

BIT RECORD

BIT NO.	5
SIZE	12¼
MFG.	HW
TYPE	HDV
NOZZLE NO.	3
NOZZLE SIZE	20
SER. NO.	45483
DEPTH OUT	
DEPTH IN	409
TOTAL FTG.	0
TOTAL HR. RUN	0
COND. OF BIT	4/4
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1:00			
WEIGHT	9.6			
VISC.-SEC	47			
W.L.-C.C.				
FLTR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Glen Fortune

FOOTAGE

FROM	TO	DR. RM. CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE
4:15	6:00	1¾	REAM 90' W/ 13¾" REAMER & 13¾ BIT
6:00	6:15	¼	RUN W/ 12¼ BIT HIT BRIDGE @ 498'
6:15	12:00	5¾	CLEAN HOLE TO BOTTOM 50' FILL

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 6 DATE Dec 24/77

OPERATOR: CANDEL OIL

LEASE: CANDEL ET AL MOBIL ARCTIC RED

WELL NO. F-07 | FIELD OR DIST. BEAUFORT SEA | COUNTY NWT | STATE

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 3 SIZE 4½ | TOOL JOINT 4½ O.D. | TYPE THD. XH

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D4-500	14
2.	EMSCO	D4-500	14
3.			

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T. [illegible]

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	CEMENT LINER						
	CEMENT PLUG						
	COMPLETED @ 4PM						

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			½
DRILLING ACTUAL	–		
REAMING	½		3½
CONDITIONING MUD & CIRCULATING			9½
TRIPS		1½	
LUBRICATE RIG	½	1½	½
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			3
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER		1½	
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 4 SIZE ¼	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
1	SINGLES D.P.	315'	FT.
1	D.C. I.D.	O.D. 9¼ 1'	FT.
	D.C. I.D.	O.D. 3 90	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
1	RMR. BODY	9 O.D.	FT.
1	SUBS	9 O.D. 1 5 3	FT.
	BIT OR C.B.		FT.
1	BIT	3 30	FT.
	KELLY DOWN	2 70	FT.
	TOTAL	9 0 0	FT.

WT. OF STRING 19 0 2 0 LBS.

BIT RECORD

BIT NO.		RR MEA
SIZE		17 "
MFG.		[illegible]
TYPE		
NOZZLE NO.		11
NOZZLE SIZE		5/16
SER. NO.		
DEPTH OUT		90'
DEPTH IN		0
TOTAL FTG.		90
TOTAL HR. RUN		4½
COND. OF BIT		0/3
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	100	300	500
WEIGHT	9 0	9 0	9 0
VISC.-SEC	60	50	47
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	300		

DRILLER [illegible]

FOOTAGE 90

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL. S PAR'EL-P CON'D-C
0	90	90		FUEL 5'7"	40	50	1200	7"	40			S
		#1	#1	BOILERS IN OPERATION 24 HRS								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	D.C SERVICE
1215	1245	½	C.C. 0 RIMMER = [illegible]
1245	515	4½	R.I.H. TO [illegible]
515	0000	9	CIRC & CONDITION MUD

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D.	O.D.	FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	FT.
	SUBS	O.D.	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.		
SIZE		17½
MFG.		[illegible]
TYPE		HTC J-22
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		102687
DEPTH OUT		70'
DEPTH IN		0
TOTAL FTG.		90
TOTAL HR. RUN		4½
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	7		
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER [illegible]

FOOTAGE

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL. S PAR'EL-P CON'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0900	0915	¼	RIG SERVICE
0915	1200	2¾	[illegible]
1200	130	½	[illegible] TRIP
130	230	1	CIRC & [illegible]
230	100	½	DUMMY TRIP
100	200	1	CIRC & [illegible]
200	230	½	TRIP OUT W/ 12¼" REAMER @ 850'
230	400	1½	[illegible]

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D.	O.D.	FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	FT.
	SUBS	O.D.	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1200 M		
WEIGHT	93		
VISC.-SEC	63		
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER [illegible]

FOOTAGE

FROM	TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL. S PAR'EL-P CON'D-C
				RUN 88 JOINTS 15 3/4" LINER				7"				
				CEMENT 180 SKS INSIDE (AND RETURNS)								
				CEMENT 110 SKS OUTSIDE = 20' DOWN								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2100	0415	7¼	RIG SERVICE
0415	100	13¼	REAM [illegible]
100	800	7	[illegible] LINER — 84 Jnts
800	830	½	WELD ON 7" CIRC HEAD ON TOP OF LINER
830	1100	2½	CIRC LINER
1100	1130	½	PUMP CEMENT 180 SKS IN LINER AS ABOVE
1130	1200	½	CEMENT [illegible]

APPROVED APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 5 DATE Dec 24/72

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CANDEL OIL	CANDEL ETAL MOBIL ARCTIC HEC FM	C-47	ARCTIC RED		NWT

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
Jennings International Drilling, Division of Pancana Industries Ltd.	9	2	4½	6¼	XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Tom Reilly

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO-DB	DB 500	16
2.	EMSCO	DB 500	16
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING	12	½	9½
CONDITIONING MUD & CIRCULATING		½	2½
TRIPS	¼	3¼	1
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT	6.1		9
DRILL STEM TEST			
OTHER W/O WATER	½		
FISHING		7¼	
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	9	9	6

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
11	D.C. 6¼ I.D.	O.D.	3316.4 FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	FT.
1	SUBS C/O	O.D.	1.50 FT.
	BIT OR C.B.		FT.
1	BIT #3		7.00 FT.
	KELLY DOWN		40 FT.
	TOTAL		357 FT.
WT. OF STRING	20,000		LBS.

BIT RECORD

BIT NO.		3A
SIZE		12¼
MFG.		HW
TYPE		XV
NOZZLE	NO.	3
	SIZE	20
SER. NO.		43997
DEPTH OUT		
DEPTH IN		193
TOTAL FTG.		164
TOTAL HR. RUN		5
COND. OF BIT		2/2
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1:00
WEIGHT	86
VISC.-SEC	40
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL			
SAWDUST			

DRILLER: Tom & Tim

FOOTAGE

FROM	TO	DR. D RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SOL.-S PART.EL-P COM'D-C
352		D		EMEL 5'								
		F 1-2		BOILERS IN USE 24 HRS								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	RIG SERVICE
12 15	12 45	½	W/O WATER + MIX GEL MUD
12 45	1 15	½	TRIP OUT WITH BIT 2A PLUGGED BIT
1 15	1 30	¼	RUN IN 60' - UNABLE TO BREAK THROUGH SAND
1 30	6 30	5	PULL BACK ON RACK + MIX GEL PILL + W/O WATER
6 30	8 00	1½	REAM OUT HOLE TO BOTTOM 120m 60 FT.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
12	SINGLES D.P.		FT.
1	D.C. 6¼ I.D.	O.D.	361.4 FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	FT.
	SUBS	O.D.	FT.
	BIT OR C.B.		FT.
1	BIT #2A		5.92 FT.
	KELLY DOWN		40 FT.
	TOTAL		407.00 FT.
WT. OF STRING	20,000		LBS.

BIT RECORD

BIT NO.		2A
SIZE		12¼
MFG.		HW
TYPE		XV
NOZZLE	NO.	3
	SIZE	20
SER. NO.		43997
DEPTH OUT		407
DEPTH IN		296
TOTAL FTG.		111
TOTAL HR. RUN		12½
COND. OF BIT		2/2
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9:00
WEIGHT	90
VISC.-SEC	40
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2000#		
SAWDUST	10 SKS		

DRILLER: Ken Lafferty

FOOTAGE 55

FROM	TO	DR. D RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SOL.-S PART.EL-P COM'D-C
352	407	D			80	20/30	900	7	60			
D		F 1-2										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9 00	9 15	¼	RIG SER
9 15	9 45	½	TRIP IN W/ BIT #2A
9 45	9 60	½	REAM 40' FILL
9 45	12 45	3½	DRILL 12¼" HOLE 111'
12 45	1 30	2 3/4	TRIP OUT & P.U. 13 3/4" REAMER
			W/O BIT ON 1
12 30	4 00	1½	REAM 13¾ HOLE & 13 3/4

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
2	D.C. 6¼ I.D.	O.D.	58.82 FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	2.5 FT.
	SUBS	O.D.	2.50 FT.
	BIT OR C.B.		FT.
	REAMER		5.00 FT.
	KELLY DOWN		21.45 FT.
	TOTAL		90.17 FT.
WT. OF STRING	25,000		LBS.

BIT RECORD

BIT NO.		3A
SIZE		13¾
MFG.		HW
TYPE		XV
NOZZLE	NO.	3
	SIZE	20
SER. NO.		43997
DEPTH OUT		0
DEPTH IN		0
TOTAL FTG.		90
TOTAL HR. RUN		3
COND. OF BIT		1/1
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	10:00
WEIGHT	90
VISC.-SEC	90+
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1200#		

DRILLER: Ken Lafferty

FOOTAGE 49

FROM	TO	DR. D RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SOL.-S PART.EL-P COM'D-C
41	90	F 1-2			80	30/40	900					

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	¼	RIG SER
4 15	1 45	2½	REAM HOLE & 13¾
1 45	9 00	2¼	RIG
9 00	10 00	1	TRIP OUT LAY 5 COLLARS DOWN
10 00	12 00	2	W/O 17" 13.1 + LINER

APPROVED APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 4 DATE Dec

OPERATOR: Shell Oil

LEASE:

WELL NO. | FIELD OR DIST. | COUNTY | STATE: Utah

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. | SIZE

TOOL JOINT O.D. 6 1/4 TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Tom Neiler

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Ideco	H-60	16
2.	Ideco	H-60	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL		3 3/4	
REAMING		1/2	
CONDITIONING MUD & CIRCULATING			
TRIPS		3 1/4	
LUBRICATE RIG		1/4	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER Mo		3/4	
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS		4	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	1
SIZE	9 7/8
MFG.	HW
TYPE	V-1
NOZZLE NO.	3
NOZZLE SIZE	20
SER. NO.	23967
DEPTH OUT	193
DEPTH IN	193
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel		Lignite	

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
				Fuel 6"								
				" 1 Clayey Silt								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
11:00	11:15	1/4	Rig Repairs
11:15	1:00	1 3/4	Drill 193' - 345'
1:00	8:00	6 3/4	Mix Gel Sweep & Circ. Hole Clean, Mud + Wait on Water

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
10	D.C. I.D. 6 1/4 O.D.	301.63 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS 6 5/8 O.D.	1.00 FT.
	BIT OR C.B.	FT.
	2 1/2 I.D.	1.00 FT.
	KELLY DOWN	38.04 FT.
	TOTAL	345.67 FT.

WT. OF STRING 40,000 LBS.

BIT RECORD

BIT NO.	1A
SIZE	9 7/8
MFG.	HW
TYPE	V-1
NOZZLE NO.	3
NOZZLE SIZE	20
SER. NO.	25901
DEPTH OUT	
DEPTH IN	193
TOTAL FTG.	59
TOTAL HR. RUN	4 1/2
COND. OF BIT	0-1-3
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2:00
WEIGHT	9.4
VISC.-SEC	41
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel			

DRILLER Ron Lee

FOOTAGE 52

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 3 LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
193	345	D			80	Mm	1200	5 1/2	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	1/4	Rig Service
8:15	11:00	2 3/4	W/O Water
11:00	11:45	3/4	Trip in Hole
11:45	12:15	1/2	Ream to Bottom 10' Fill
12:15	4:00	3 3/4	Drill 43' Dirty Hole

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
11	D.C. 6 1/4 I.D. O.D.	330.84 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS 6 5/8 O.D.	1.50 FT.
	BIT OR C.B.	FT.
	B.S.	2.98 FT.
	KELLY DOWN	FT.
	TOTAL	352 FT.

WT. OF STRING 30,000 LBS.

BIT RECORD

BIT NO.	2A
SIZE	9 7/8
MFG.	HW
TYPE	V-1
NOZZLE NO.	3
NOZZLE SIZE	20
SER. NO.	23999
DEPTH OUT	
DEPTH IN	293
TOTAL FTG.	66
TOTAL HR. RUN	5
COND. OF BIT	0-1-3
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	4100#		
Soda Ash	4 sks		

DRILLER Ron Taylor

FOOTAGE 7

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. S.P.M.	PUMP NO. 1 LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
345	352	D			90	15	275	5	60			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
345	1/4°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	1/4	Rig Ser
4:15	4:30	1/4	Survey
4:30	11:30	7	Lost Circ. - Mix Mud & Water
11:30	12:00	1/2	Drill 7' Dirty Hole

APPROVED

APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 3 DATE Dec 2

OPERATOR

LEASE

WELL NO. 2-7 FIELD OR DIST. COUNTY STATE ALBERTA

CONTRACTOR
Jennings International Drilling
Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 3 SIZE 4½ TYPE THD. XH

TOOL JOINT 6¼ O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER Terry Parker

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-500	16
2.	EMSCO	D-500	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			3½
REAMING		1	1½
CONDITIONING MUD & CIRCULATING			4¾
TRIPS		1	½
LUBRICATE RIG	¼	¼	½
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT	7½	5¾	
DRILL STEM TEST			
OTHER Logs			1
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	0		

WIRE LINE RECORD

REEL NO.

NO. OF LINES 4 SIZE ½

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		FT.
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
	WT. OF STRING		LBS.

BIT RECORD		
BIT NO.	2	
SIZE	8¾	
MFG.	HW	
TYPE	XV	
NOZZLE NO.	3	
NOZZLE SIZE	20	
SER. NO.	23997	
DEPTH OUT		
DEPTH IN	196	
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD				
TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FL TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
DRILLER				

FOOTAGE FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
196				Fill 7'								
				Surface Casing 10¾ @ 196								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
10:00	10:15	¼	Rig Service
10:15	9:00	7¾	[illegible]

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		FT.
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
8	D.C. 6¼ I.D. O.D.	2424.83	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
1	STB. BODY 8¾ O.D.	2.44	FT.
	RMR. BODY O.D.		FT.
1	SUBS 6¼ O.D.	1.12	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	39.17	FT.
	TOTAL	286'	FT.
	WT. OF STRING	32000	LBS.

BIT RECORD		
BIT NO.	2A	
SIZE	8¾	
MFG.	HW	
TYPE	XV	
NOZZLE NO.	3	
NOZZLE SIZE	20	
SER. NO.	23997	
DEPTH OUT		
DEPTH IN	286	
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD				
TIME		10:00	7:00	
WEIGHT		74	74	
VISC.-SEC		55	55	
W.L.-C.C.				
FL TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
	GEL	20 bbl		
	CAUSTIC	50#		
DRILLER				

FOOTAGE FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
286												

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERVICE
8:15	2:00	5¾	W/O WATER
2:00	2:45	¾	RUN IN HOLE
2:45	3:45	1	REAM 90' TIGHT HOLE
3:45	4:00	¼	DRILLING 8¾" HOLE WITH PLUGGED BIT #2
~~4:45~~	~~4:45~~	~~½~~	~~HANDLE BIT = CLEAN OUT~~
~~4:45~~	~~6:30~~	~~1¾~~	~~RUN IN~~

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		FT.
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
9	D.C. 6¼ I.D. O.D.	274.20	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
1	STB. BODY 8¾ O.D.	2.94	FT.
	RMR. BODY O.D.		FT.
1	SUBS 6¼ O.D.	1.51	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	11.00	FT.
	TOTAL	290.2	FT.
	WT. OF STRING	32000	LBS.

BIT RECORD		
BIT NO.	2A	
SIZE	8¾	
MFG.	HW	
TYPE	XV	
NOZZLE NO.	3	
NOZZLE SIZE	20	
SER. NO.	23997	
DEPTH OUT		
DEPTH IN	286	
TOTAL FTG.	7	
TOTAL HR. RUN	¾	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD				
TIME	4:00			
WEIGHT	74			
VISC.-SEC	55			
W.L.-C.C.				
FL TR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
	GEL	10 bbl	FINE SEAL	200#
	LIME	50#		
	CAUSTIC	50#		
DRILLER				

FOOTAGE FROM	TO	7	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
286	290		D			90	10K	500	7"		5½		S

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE
4:15	4:45	½	HANDLE BIT = CLEAN OUT
4:45	5:15	½	TRIP FOR HOLE
5:15	6:30	1¼	REAM 90' BOTTOM TO FILL
6:30	7:15	¾	DRILL 8¾" PILOT HOLE
7:15	11:00	4¾	DIG CIR MIX LOST CIR MATERIAL

APPROVED

APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 2 DATE DEC 2C 1972

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
BANDEL OIL	BANDEL ETAL MOOSE ARTIC RED	E-47	ARTIC RED		NWT

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 2, SIZE 4½ — TOOL JOINT 6½ O.D. — TYPE THD. XH

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	DA-500	16
2.	EMSCO	DA-500	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Lorne Bailey

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	6	½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			1½
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼	¼	¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			5½
DRILL STEM TEST			
OTHER RIG UP & DOWN		1½	
FISHING WORK TIGHT HOLE			½
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
6	D.C. 6¼ I.D. O.D.	189 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
1	SUBS XO O.D.	150 FT.
	BIT OR C.B.	FT.
1	BIT SUB	2.98 FT.
	KELLY DOWN	41.00 FT.
	TOTAL	379.98 FT.
WT. OF STRING	91,000 LBS.	

BIT RECORD	
BIT NO.	1A
SIZE	8¾
MFG.	HW
TYPE	X16
NOZZLE NO.	2
NOZZLE SIZE	20
SER. NO.	45467
DEPTH OUT	379
DEPTH IN	0
TOTAL FTG.	379
TOTAL HR. RUN	17½
COND. OF BIT	02
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	2:00	4:00	6:00
WEIGHT	9.6	9.9	9.8
VISC.-SEC	48	49	47
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DRILLER: Brian Watanabe

FOOTAGE 109		DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
FROM	TO											
120	229	D		TILL 4 FT	100	8	560	5½	58			
				#1 - 2 ROLLERS IN USE 24 HRS.								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	120	¼							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE
12:15	1:45	1½	DRILL 8¾" PILOT HOLE
1:45	2:00	¼	SURVEY @ 120' ¼°
2:00	8:00	6	DRILL 8¾" PILOT HOLE

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
8	D.C. I.D. 8¼ O.D.	709.47 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
1	STB. BODY O.D.	7.94 FT.
	RMR. BODY O.D.	FT.
1	SUBS XO O.D.	150 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	38.19 FT.
	TOTAL	705.00 FT.
WT. OF STRING	94,000 LBS.	

BIT RECORD	
BIT NO.	1
SIZE	8¾
MFG.	HW
TYPE	XIC
NOZZLE NO.	3
NOZZLE SIZE	20
SER. NO.	45467
DEPTH OUT	
DEPTH IN	0
TOTAL FTG.	705
TOTAL HR. RUN	22¾
COND. OF BIT	0/0
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	8:00	12:00	2:00
WEIGHT	9.8	9.8	9.8
VISC.-SEC	67	65	65
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DRILLER: Ron Lofting

FOOTAGE 568		DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
FROM	TO											
229	295	D				10M	500	7"	54	5½		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	187	½							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9:00	9:15	¼	RIG SERVICE
9:15	9:30	¼	SURVEY @ 187
9:30	1:30	5	DRILL 8¾" PILOT HOLE
1:30	3:00	1½	RIG UP CELLAR JET - HOLE WASHED OUT AROUND CONDUCTOR
3:00	4:30	1	DRILL 8¾" PILOT HOLE

Menu Checkout 4

BARREL

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
8	D.C. 6¼ I.D. O.D.	709.47 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
1	STB. BODY O.D.	7.94 FT.
	RMR. BODY O.D.	FT.
1	SUBS XO O.D.	150 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	40.00 FT.
	TOTAL	707.00 FT.
WT. OF STRING	96,000 LBS.	

BIT RECORD	
BIT NO.	1
SIZE	8¾
MFG.	HW
TYPE	XIC
NOZZLE NO.	4
NOZZLE SIZE	20
SER. NO.	45467
DEPTH OUT	401
DEPTH IN	0
TOTAL FTG.	401
TOTAL HR. RUN	9¼
COND. OF BIT	2-4-0
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	5:00		
WEIGHT	9.8		
VISC.-SEC	65		
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron Lofting

FOOTAGE 1		DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
FROM	TO											
295		D			70	10M	500	7	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	351	¾°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE
4:15	4:30	¼	DRILL 8¾ HOLE
4:30	4:45	¼	SURVEY @ 352'
4:45	5:15	½	WORK TIGHT HOLE
5:15	6:15	1	C/O WATER
6:15	7:30	1¼	TRIP OUT - TIGHT HOLE
7:30	11:00	4½	WAIT ON WATER

APPROVED — APPROVED

DAILY DRILLING REPORT

REPORT NO. 1 DATE DEC 24 [illegible] 2

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
DAVIDEL OIL	[illegible]	1-97	[illegible]		WYO

CONTRACTOR: Jennings International Drilling, Division of Pancana Industries Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 1 — SIZE 4½ — TYPE THD. XH — TOOL JOINT 4½ O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Duncan Ross Leys

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-700	16
2.	EMSCO	D-700	16
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL		2½	6¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG		¼	¼
DEVIATION SURVEY		¼	¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG		1	¾
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER W/water		4	
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS		4	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	STANDS D.P.	FT.	BIT NO.	1A
	SINGLES D.P.	FT.	SIZE	8¾
	D.C. I.D. O.D.	FT.	MFG.	HW
	D.C. I.D. O.D.	FT.	TYPE	X1C
	STB. BODY O.D.	FT.	NOZZLE NO.	3
	STB. BODY O.D.	FT.	NOZZLE SIZE	20
	RMR. BODY O.D.	FT.	SER. NO.	45647
	SUBS O.D.	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	DEPTH IN	0
		FT.	TOTAL FTG.	
	KELLY DOWN	FT.	TOTAL HR. RUN	
	TOTAL	FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER NO.	
			REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER [illegible]

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL.-P COM'D.-C
				FILL CP 2 UP								
				BOILER #1 + 2 IN USE 24 HRS.								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE
12:15	1:45	1½	DRILL RAT HOLE
1:45	4:00	2¼	WAIT ON WATER
4:00	8:00	4	DRILL RAT HOLE (11-20)

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	STANDS D.P.	FT.	BIT NO.	1
	SINGLES D.P.	FT.	SIZE	8¾
1	D.C. 4½ I.D. O.D.	31.72 FT.	MFG.	HW
	D.C. I.D. O.D.	FT.	TYPE	X1C
1	STB. BODY O.D.	4.94 FT.	NOZZLE NO.	3
	RMR. BODY O.D.	FT.	NOZZLE SIZE	20
1	SUBS O.D.	1.50 FT.	SER. NO.	45647
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	DEPTH IN	0
	KELLY DOWN	24.24 FT.	TOTAL FTG.	60
	TOTAL	10.00 FT.	TOTAL HR. RUN	3½
WT. OF STRING	3500	LBS.	COND. OF BIT	0/3
			REAMER NO.	
			REAMER TYPE	

MUD RECORD

TIME	2:00		
WEIGHT	9.0		
VISC.-SEC	45		
W.L.-C.C.			
FLTR. CK.	10.0		
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	300#		
[illegible]	[illegible]	100	
[illegible]	[illegible]	50	

DRILLER Ron Lichtenberg

FOOTAGE 19

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL.-P COM'D.-C
41	60	D			80	5M	400	7	58	5½		S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
60	¾°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	9:15	¼	RIG SERVICE
9:15	12:15	4	W/O WATER
12:15	2:45	2½	DRILL 8¾" HOLE
2:45	3:00	¼	SURVEY @ 60'
3:00	4:00	1	WORK ON PUMP

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	STANDS D.P.	FT.	BIT NO.	1
	SINGLES D.P.	FT.	SIZE	8 3/4
3	D.C. 6¼ I.D. O.D.	93.33 FT.	MFG.	HW
	D.C. I.D. O.D.	FT.	TYPE	X1C
1	STB. BODY O.D.	2.98 FT.	NOZZLE NO.	3
	RMR. BODY O.D.	FT.	NOZZLE SIZE	20
1	SUBS O.D.	1.50 FT.	SER. NO.	45647
	BIT OR C.B.	FT.	DEPTH OUT	120
		FT.	DEPTH IN	0
	KELLY DOWN	22.00 FT.	TOTAL FTG.	120
	TOTAL	120.00 FT.	TOTAL HR. RUN	10½
WT. OF STRING	35000	LBS.	COND. OF BIT	0B
			REAMER NO.	
			REAMER TYPE	

MUD RECORD

TIME	6:00	9:00	11:00
WEIGHT	9.0	9.1	9.1
VISC.-SEC	50	50	50
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	700#		

DRILLER Brian Lafferty

FOOTAGE 60

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL.-P COM'D.-C
60	120	D			110	7	400	7	58			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
90	¾							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE
4:15	5:00	¾	W/O PUMP
5:00	9:15	4¼	DRLG 8¾ PILOT HOLE
9:15	9:30	¼	SURVEY @ 90'
9:30	11:00	1½	DRILL 8¾" PILOT HOLE

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 1 DATE DEC 2

OPERATOR: CAN DEL OIL

LEASE: SPIDEL ET AL MOBIL ARTIC KLD

WELL NO. 17 | FIELD OR DIST. NITOR RED NAIT | COUNTY | STATE ALTA

CONTRACTOR: Jennings International Drilling
Division of Pancana Industries Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. 8 SIZE 4½ | TOOL JOINT 6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Jason Bailey

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	TMSCO	BA 500	16
2.			
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	STANDS D.P.	FT.	BIT NO.		TIME	
	SINGLES D.P.	FT.	SIZE		WEIGHT	
	D.C. I.D. O.D.	FT.	MFG.		VISC.-SEC	
	D.C. I.D. O.D.	FT.	TYPE		W.L.-C.C.	
	STB. BODY O.D.	FT.	NOZZLE NO.		FLTR. CK.	
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH	
	RMR. BODY O.D.	FT.	SER. NO.		SD. CONT. %	
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT	
	BIT OR C.B.	FT.	DEPTH IN			
		FT.	TOTAL FTG.		MUD & CHEMICALS ADDED	
	KELLY DOWN	FT.	TOTAL HR. RUN		TYPE / AMT. / TYPE / AMT.	
	TOTAL	FT.	COND. OF BIT			
WT. OF STRING		LBS.	REAMER NO.			
			REAMER TYPE		DRILLER	

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	STANDS D.P.	FT.	BIT NO.	1A	TIME	
	SINGLES D.P.	FT.	SIZE	8¾	WEIGHT	
	D.C. I.D. O.D.	FT.	MFG.	H.O	VISC.-SEC	
	D.C. I.D. O.D.	FT.	TYPE	XIGT	W.L.-C.C.	
	STB. BODY O.D.	FT.	NOZZLE NO.	3	FLTR. CK.	
	STB. BODY O.D.	FT.	NOZZLE SIZE	20	PH	
	RMR. BODY O.D.	FT.	SER. NO.	45687	SD. CONT. %	
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT	
	BIT OR C.B.	FT.	DEPTH IN			
		FT.	TOTAL FTG.		MUD & CHEMICALS ADDED	
	KELLY DOWN	FT.	TOTAL HR. RUN		TYPE / AMT. / TYPE / AMT.	
	TOTAL	FT.	COND. OF BIT		GEL 2600 #	
WT. OF STRING		LBS.	REAMER NO.		CAUSTIC 50 #	
			REAMER TYPE		DRILLER	

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	STANDS D.P.	FT.	BIT NO.	1	TIME	
	SINGLES D.P.	FT.	SIZE	8¾	WEIGHT	
	D.C. I.D. O.D.	FT.	MFG.	HO	VISC.-SEC	
	D.C. I.D. O.D.	FT.	TYPE	XIG	W.L.-C.C.	
	STB. BODY O.D.	FT.	NOZZLE NO.	3	FLTR. CK	
	STB. BODY O.D.	FT.	NOZZLE SIZE	20	PH	
	RMR. BODY O.D.	FT.	SER. NO.	45687	SD. CONT. %	
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT	
	BIT OR C.B.	FT.	DEPTH IN	0		
		FT.	TOTAL FTG.	41	MUD & CHEMICALS ADDED	
	KELLY DOWN	40 FT.	TOTAL HR. RUN	1	TYPE / AMT. / TYPE / AMT.	
	TOTAL	41 FT.	COND. OF BIT			
WT. OF STRING		LBS.	REAMER NO.			
			REAMER TYPE		DRILLER Ron Curtis	

MORNING TOUR

FOOTAGE FROM / TO | DR.-D RM.-R CORE.-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE / S.P.M. | PUMP NO. 2 LINER SIZE / S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C

				SPUD IN 4:15 PM				7		5½		S

DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM / TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

DAY TOUR

FOOTAGE FROM / TO | DR.-D RM.-R CORE.-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE / S.P.M. | PUMP NO. LINER SIZE / S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	4:00	7	FILL MUD TANKS WITH WATER & MIX MUD.
			REPAIR LAMKOIN VALVES.
			FINISH RIGGING UP

EVENING TOUR

FOOTAGE 41 FROM 0 / TO 41 | DR.-D RM.-R CORE.-C D | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM 40 | WT. ON BIT 1000 # 5M | PUMP PRESS 400 | PUMP NO. 1 LINER SIZE 7 / S.P.M. 30 | PUMP NO. 2 LINER SIZE 3½ / S.P.M. 30 | METHOD RUN SGL.-S PAR'EL-P COM'D-C D

DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERVICE
4:15	5:15	1	SPUD IN : DRILL 8¾ PILOT HOLE
5:15	7:00	1¾	RIG UP CELLAR SET TO DRILL OUT RATHOLE
7:00	12:00	5	DRILL OUT RATHOLE & W/O WATER

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. _____ DATE Dec 2 1/12

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
CAUDER OIL	MOBIL FEE MOBIL-FEE-D F-47	F-7			

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D. / TYPE THD.
Jennings International Drilling Division of Pancana Industries Ltd.	9			

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
	Tom Trailer

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
COMPLETION WORK B. TUBING TRIPS			
COMPLETION WORK C. SWABBING			
COMPLETION WORK D. TESTING			
COMPLETION WORK E. ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	FT.
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD		
BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD				
TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.

DRILLER _____

FOOTAGE FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
				STARTED No 2 BOILER			10 AM					

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	10 00	14	PUT ON HEAD + LINERS ON PUMPS
			RIG UP PUMPS
			START #2 PUMP MOTOR
			FILL PUMPS WITH OIL
			START UP #1 BOILER

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	FT.
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD		
BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD				
TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.

DRILLER Glen Lester

FOOTAGE FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9 00	10 00	14	RIG UP FLOOR
			PUT UP PREFABS
			FINISH HOOKING UP WATER LINES
			PRESSURE UP HYDRO LINES
			SET IN PIPE RACKS - SET COLLARS - CASING SAFETY

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	FT.
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD		
BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD				
TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FLTR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.

DRILLER _____

FOOTAGE FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

APPROVED

APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

Indian and Northern Affairs Affaires indiennes et du Nord

Well Name
Nom du puits: CanDel et al Texaco Arctic Red F-47

Field/Area
Gisement/Région:

Location Unit Section
Emplacement Unité: F-47-65-40-130-45

Drilling Authority No.
Autorisation de forage n°: 635

Date Issued
Date d'émission: Dec. 4, 1972

Permit to Drill
257-67

Latitude: 65°36'25"

Longitude: 130°53'53"

U.W.I.L.R.
N.R.U.E.P.: 65.60694 -- 130.89805

U.W.I. No.
N.I.P. No.: 300F476510130450

File Microfilmed

Tour Sheets, Microfilmed

Rig Release Date
Date de l'achèvement de l'essai de forage: 07-03-73

Status
Statut: D & A

Information Released on
Date de publication de l'information: 07-03-75

CHANGE OF NAME
CHANGEMENT DE NOM

Change of Location
Changement de emplacement

INDEX	DATE RECEIVED / REÇU LE		INDEX
Application for a Drilling Authority	12-12-72	K	Demande d'autorisation de forage
Well Completion Data	25-04-73	K	Renseignements sur le forage d'un puits
Well History Report	25-04-73	K	Données chronologiques sur le puits
Application to Amend a Drilling Authority			Demande de modification d'une autorisation de forage
Application to Change a Well Name			Demande de changement du nom d'un puits
Application to Abandon a Well or Suspend Drilling			Demande d'abandon d'un puits ou de suspension du forage
Application to Alter Condition of a Well			Demande d'autorisation de modifier l'état d'un puits
Well History Supplement			Supplément aux données chronologiques sur le puits
Well Completion Data			Renseignements sur le forage d'un puits
Work-Over Report No.			Rapport de reconditionnement n°
Application to Commingle Production before Measurement			Demande d'autorisation de mélanger la production avant jaugeage
Data for Back Pressure Test on Natural Gas Wells			Données de calcul de la capacité de production d'un puits de gaz naturel - Méthode graphique n° 7
Data for Back Pressure Test on Natural Gas Wells			Données de calcul de la capacité de production d'un puits de gaz naturel - Méthode de Vitter
M.P.R. – Oil – Calculations			Calcul du T.M.P. (Taux maximal de production) de pétrole
New Oil Well Report			Rapport sur un nouveau puits de pétrole
New Gas Well Report			Rapport sur un nouveau puits de gaz naturel
Well Inspection Report			Rapport d'inspection de l'emplacement d'un puits
Rig Inspection Report			Rapport d'inspection d'une tour de forage
Battery Inspection Report			Rapport d'inspection d'une batterie de puits
Equipment Report			Rapport d'inspection des compteurs
Well Card			Fiche de puits
New Service Well Report			Rapport sur un nouveau puits de service
Strat Service Logs			Rapport mensuel des injections d'eau
Logs – Large scale	25-04-73	K	Diagrammes: Grande échelle
Logs – Small scale			Diagrammes: Petite échelle

AND 52-90 (6-72)

DATE RECEIVED
RECU LE

LOGS: DIAGRAMMES

NAME Nom	Type	Run No. N° du sondage	Interval Intervalle

ANALYSES:

Sample Échantillon	Lab. No. Lab. n°	Formation	Interval Intervalle

A.O.F. Potential Débit maximal absolu d'un puits	Formation	Interval Intervalle	MC.F/D. M.P.C./jour	Test Date Date du test

DRILL STEM TESTS: – ESSAIS AUX TIGES

No. N°	Formation	Interval Intervalle