

10 E JACK FISH

N-69

62-30-121-15



Well Name Nom du puits		CS IOE Jackfish N-69		Drilling Authority No. Autorisation de forage n°		676	
Field/Area Gisement/Région				Date Issued Date d'émission		Feb. 21, 1973	
Location Emplacement		Unit Unité		Section		Permit or Lease 4369	
		N-69-62-30-121-15					
Latitude		62°28'47"		Longitude		121°27'32"	
U.W.L.R. N.R.U.E.P.		62.47972 -- 121.45889					
U.W.L. No. N.L.P. No.		300N6962301211 50					
File Microfilmed				Rig. Release Date Date de transfert de la tour de forage		19-03-73	
Tour Sheets. Microfilmed				Status Statut		D + A	
				Information Release Date Date de publication autorisée des informations		19-03-75	

CHANGE OF NAME:
CHANGEMENT DE NOM:Change of Location
Changement de emplacement

INDEX	DATE RECEIVED RECU LE		INDEX
Application for a Drilling Authority	26-02-73	K	Demande d'autorisation de forage
Well Completion Data	10-9-73	K	Renseignements sur le forage d'un puits
Well History Report	10-9-73	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	11-4-73	K	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	9-3-73	K	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	16-9-73	K	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			Diagrammes: Grande échelle
Logs - Small Scale			Diagrammes: Petite échelle

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
CS IOE Jackfish N-69		4369	
(Permitter, Licensee, Lessee) - (Défendeur de permis ou de licence, du concessionnaire)		Exploratory Licence No. - N° de licence de sondage	
Imperial Oil Enterprises Ltd.		1510	
(Operator) - (Exécutant)		Exploratory Licence No. - N° de licence de sondage	
Canada-Cities Service, Ltd.			

LOCATION - EMPLACEMENT				
Unit - Unité	Section	Grid - Étendue quadrillée	Latitude	Longitude
N	69	62-30-121-15	62° 28' 47" N	121° 27' 32" W
Unique Well Identifier - Code d'ordinateur			Universal Well Location Reference - Références universelles d'emplacement du puits	
300N696230121150			62.47972°N Lat. 121.45889°W Long.	

	Date	Depth - Profondeur	Pool(s) Gisement(s)
Spudded Début des travaux	Mar. 4/73		Intervall(s) Open to Production Intervalle(s) de production
Suspended Suspension des travaux			
Resumed Operations Reprise des travaux			
Finished Drilling Forage terminé	Mar. 15/73	2623'	
Deepened Approfondissement			
Complete (Gas/Oil) Achèvement (Gaz/Pétrole)			
Abandoned Abandon	Mar. 18/73		Elevation: Gr. 812.0 K.B. 825.5 Altitude du sol du carré d'entraînement
Rig Released Fin des travaux	Mar. 19/73		Rig No. 29 Drilling Contractor Regent Drilling N° de la tour de forage Entrepreneur en forage
			Contractor's Business Licence No. 10907 N° du permis de l'entrepreneur

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 et d'additifs
8-5/8"	K-55	24#	18 Jts.	608 K.B.	380 Sacks
1.					Construction Cement plus 3% CaCl ₂
2.					
3.					
4.					
5.					
6.					

[illegible]

CEMENTING RECORD (Plug, Squeeze, etc.) CIMENTATION (Bouchon, sous pression, etc.)				PERFORATING RECORD (Bullet, Jet) PERFORATION (à balles, à jet)				SERVICING RECORD (Acidizing, Fracing, etc.) ENTRETIEN (acidification, fracturation, etc.)			
Date	From - de	To - à	Remarks - Remarques	Date	From - de	To - à	Remarks - Remarques	Date	From - de	To - à	Remarks - Remarques
Mar. 18/73	2623	2100	Plug # 1 - 203 sacks Construction Cement. No Feel.								
Mar. 18/73	658	558	Plug # 2 - 42 Sacks Construction Cement plus 3% CaCl ₂ Felt Plug # 2 at 536'. Cut off casing 3' below ground level, placed 3 sacks cement on top of casing, welded plate and marker on top.								

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 obstruction (minutes)	F.S.I. Mins. Obstruction définitive (minutes)	I.S.I.B.H.P. Pression de fond à la 1 ^{re} obstruction	F.S.I.B.H.P. Pression de fond à l'obstruction 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 définitive	Remarks - Remarques
1	Mar. 17/73	Ronning	2175	2320	120	60	120	972	972	360	972	1137	1126	Recov. 1900' salt water
2	Mar. 18/73	Lonely Bay	945	1108	60	60	60	442	372	30	42	490	490	Recov. 20' drilling mud
								FIELD FIGURES						

ANALYSIS - ANALYSE				PRESENT STATUS OF WELL ETAT ACTUEL DU PUITS			
Lab. No. N° de laboratoire	Sample Échantillon	From - de	To - à	Source	Remarks - Remarques	Oil Pétrole	(Interval)/(intervalle)
C73-6328	Wtr.	2175	2320	DST #1		Gas	(Interval)/(intervalle)
C73-6329	Wtr.	945	1108	DST #2		Gas	(Interval)/(intervalle)
						Dry Sec	ABAND. MAR. 18, 1973
						Susp. Travaux sus.	

Canada-Cities Service, Ltd.

Company
Société

Signed by
Signé par

Title
Titre

Date

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

Préparer les formulaires remplies à l'ingénieur en conservation du district.



Drilling Authority No. 676

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to Abandon a Well or ~~Suspension of 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..... CS IOE Jackfish N-69
Location: Unit..... N..... Section..... 69..... Grid..... 62-30-121-15
Latitude..... 62°28'47"N..... Longitude..... 121°27'32"W
~~From Established Reference Marker~~ Unique Well Identifier..... 300N69230121150
Universal Well Location Reference..... 62.47972, 121.45889
Permit No..... 4369..... Lease No..... ———

Canada-Cities Service, Ltd.
(Permittee, Licencee, Lessee)

Date of commencement of proposed program..... March 18, 1973

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at..... None
Gas at..... None
Water at..... DST #1 2175' - 2320'
Total Depth..... 2623'..... Date of last operations..... March 19, 1973
Present condition of well..... Plugged and Abandoned, Verbal Approval from R. L. Price,
March 18, 1973.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 8-5/8"	24	618.04	608	380 construction	Nil
2.				cement plus 3%CaCl ₂	
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
1	2623 - 2100	Ronning	203	
2	558 - 658	Hay River - Surface Csg.	40 + 3%CaCl ₂	Tag Plug @536'

The following logs have been run..... IES, SNP, BHCS, & FDC
Other operations proposed..... Cut casing 3' below ground, placed 3 sacks cement, welded on plate and marker.
Operations to be carried out by Regent Drilling Limited Contractor Licence No. 10907
Address..... 1200 Calgary House, Calgary, Alberta Address.....
Responsible Agent in field..... Cliff Jasmin
Dated at..... Calgary..... this..... 4..... Day of April..... 19 73
Signed by..... *R. L. Price*..... Company Canada-Cities Service, Ltd.
Title..... District Superintendent..... Operator's Exploratory Licence No. 1963

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

(For OIL AND MINERAL DIVISION use only)

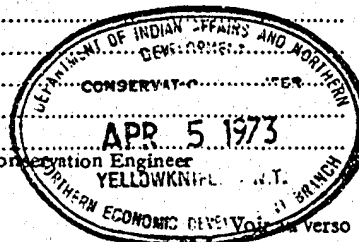
APPROVAL

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

Dated..... 11-APR-73....., 19

R. L. Price

District Conservation Engineer



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION
RIG INSPECTION REPORT

A. Name and number of Well: CS 10E JACKFISH N-64
Location: 62-30 N. 121-15 W. Drilling Authority No: 676
Date of Inspection: MARCH 9 Inspection No: 1
Date of Previous Inspection: —
Contractor: REGENT
Rig No: 25 H Date Spudded 4 MAR 73
Operation in Progress: DRUG Depth: 1099 Projected Total Depth 2500
Last Casing in the Hole: SURF Casing String: — Size 8 7/8 O.D. Depth set: 608 ft.
Liner: —
Toolpusher: W. GUSTAFSON Signature: —
Operator's Rep: CLIFF JASMAN Signature: Cliff Jasman
Cons. Eng: GREG WOOD Signature: Greg Wood

B. BLOWOUT PREVENTION EQUIPMENT

API Classification 900
Stock Arrangement & Specifications Conform to those submitted with D.A. ☒ Yes ☐ No
Present Arrangement of B.O.P. Stack: ☒ Satisfactory ☐ Unsatisfactory
Description and location of Pressure Source and B.O.P. Controls: Hydri control outside
discharge. Accumulator + controls in gen house
Describe B.C.P. & Air Intake Shut-off Tests Witnessed Hydri pipe ram
shut offs OK.

C. MANIFOLD

Manifold Arrangement & Specifications Conform to those submitted with D.A. ☐ Yes ☐ No
Present Arrangement of Manifold Stack: ☒ Satisfactory ☐ Unsatisfactory
Working Pressure Rating of Manifold 3000

D. Satisfactory	Unsatisfactory	I T E M S	Category
☒	☐	1. Posting of Drilling Authority.	Drilling Authority & Report
☒	☐	2. Posting of warning signs (if in H ₂ S area) and no smoking signs.	
☒	☐	3. Recording of all required information in tour reports.	
☒	☐	4. B.O.P. equipment appears to be properly connected	Blowout Prevention Equipment
☒	☐	5. B.O.P. equipment tested daily and tests recorded.	
☒	☐	6. Equipment was adequately pressure tested before drilling out casing shoe.	
☒	☐	7. B.O.P. equipment housed, ventilated & heated for winter operations.	
☒	☐	8. Bleed-off & kill lines adequate and properly tied down.	
☒	☐	9. B.O.P. controls and accumulator adequately and properly located.	
☒	☐	10. Crew properly trained and capable of operating B.O.P. equipment.	Fire Hazards
☒	☐	11. Engine shut-off controls installed and functional.	
☒	☐	12. Engine exhausts properly connected with required safety features.	
☒	☐	13. Smoking regulation being observed.	
☒	☐	14. Boilers, electric generators, accumulator & fuel supplies at required distance from well and from each other.	Personnel Safety
☒	☐	15. Flare pit, flare line & sump adequate and at required distance from well.	
☒	☐	16. Fire fighting equipment adequate and maintained.	
☒	☐	17. Proper electrical wiring and fittings installed and maintained.	
☒	☐	18. Adequate first aid kits, stretchers and blankets available and maintained.	General
☒	☐	19. Radio in 24 hour operation.	
☒	☐	20. Required personnel have valid first aid certificates.	
☒	☐	21. Breathing apparatus - adequate, accessible and maintained.	
☒	☐	22. Other required personnel safety equipment.	General
☒	☐	23. General house keeping and indication of good practice.	
☒	☐	24. Equipment appears to conform with CEC & WCA standards.	
☒	☐	25. Required deviation surveys being run.	
☒	☐	26. Elimination of potential hazardous conditions.	
☒	☐	27. Adequacy of contingency plans, equipment and supplies.	

E. Remarks & Recommendations (Any comments or action required on items listed above and other items detailed in Inspection Guide should be listed here)

Item No.

Rig satisfactory



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 . . . CS IOE . . . Jackfish . . . N-69

Location: Unit . . . N . . . Section . . . 69 . . . Grid 62-30 . . . 121-15
Latitude . . . 62° 28' 47" N . . . Longitude . . . 121° 27' 32" W (Shot Point J70-12104)
Unique Well Identifier . . . 300N696230121150
Universal Well Location Reference . . . 62.47972, . . . 121.45889

Elevation: Ground 812 (Est.) . . . K.B. . . . 827 (Est.) feet above sea-level.
Well is expected to produce from . . . Ordovician . . . Dolomite formation at a depth
of about . . . 2090 feet. Expected total final depth . . . 2600
Area assigned to well . . . EXPLORATORY
(for District Conservation Engineer's use only)

Permit No. . . . 4369 Lease No. Acreage . . . 59310
Permittee, licensee, or lessee . . . Imperial Oil Enterprises Ltd.
Exploratory Licence No. . . . 1510
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. . . . 8 5/8"	24#	K-55	New	600	300
2. . . . 5 1/2"	14#	K-55	New	TD	250
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment. All expected fluid bearing
horizons will be controlled by bentonitic base drilling mud, weighted as
required. 10" Series 900 GK Hydril and 10" Type SS Double Gate Hydraulic
Cameron.

Well will be drilled with Rotary Rig No. . . . 29H . . . by . . . Regency Drilling Ltd.
(Drilling Contractor or company)

Responsible agent of applicant:— Contractor's Business Licence No.
At well . . . Not Known Yet At registered office . . . B. B. Edwards
Address . . . Will Advise Address Box 2727, Calgary, Alta. T2P 2M7
It is understood that if changes become necessary, notice of the change of plan will be submitted.
Dated at . . . Calgary, this . . . 13 day of . . . February 19 73
Signed by . . . [Signature] Company . . . Canada-Cities Service, Ltd.
Title . . . Manager-Production Operator's Licence No. . . . 1963

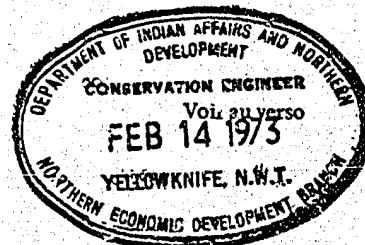
(For Oil and Mineral Division use only)

APPROVED

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

PLEASE SEE ATTACHED SHEET FOR CONDITIONS OF APPROVAL.
Dated . . . FEBRUARY 21, 19 73 [Signature]
District Conservation Engineer

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



WELL CS IOE JACKFISH N-69

1. Copies of this Drilling Authority Form and Daily Drilling Report Preparation Requirements Card, shall be posted, in full view at the drilling rig, in both the doghouse and drilling foreman's office between spud and rig release dates.
2. The company will submit to this office, on Tuesday morning of each week, a day-by-day progress report summary, on the well, for the past week. (See daily drilling report preparation requirements card for pertinent details.) Phoned-in report format shall be in this order - well name, location, present depth, present activity in progress and past day's pertinent details.
3. All shows (small or large) of oil & gas are to be reported immediately.
4. When a fatal accident occurs the District Conservation Engineer is to be notified immediately and drilling ahead must cease. Permission to resume operations must be granted by the District Conservation Engineer after a fatality.
5. All waste materials on and around the wellsite area, shall be disposed of in a manner that will prevent pollution to adjacent areas. Burnables shall be burned and non-burnables shall be buried with adequate cover or hauled away.
6. Prior to moving to drilling site, a Land Use Permit, for access and a Water Use Permit must be obtained from the Water, Forests and Land Division, Yellowknife. We further draw your attention to Sections 95 and 96 of the Canada Oil & Gas Land Regulations.
7. Forward to this office two (2) field prints of all well logs (except Velocity logs) including copies of core analysis and fluid analysis as soon as they are available.
8. Any changes to, or additions to the approved Drilling Authority must have prior approval of the District Conservation Engineer. For example: total depth, casing depths/specs., location coordinates, well name, datum elevations, operator, contractor.
9. Surface casing to be set 50 feet (min.) into a consolidated formation at the approved depth.
10. 3000# W.P. (Ser. 900) B.O.P.'s are required to 12,000 ft. (max.) 5000# W.P. (Ser.1500) B.O.P.'s are required below 12,000.ft.
11. You are required to notify the Yellowknife Office twenty-four (24) hours before spudding.

R. L. Price.

R. L. Price
District Conservation Engineer
District 4

TEST WELL PROGNOSIS

CS IOE JACKFISH N-69

Name of Test:

~~CS IOE Highland Lake N-69~~

Location:

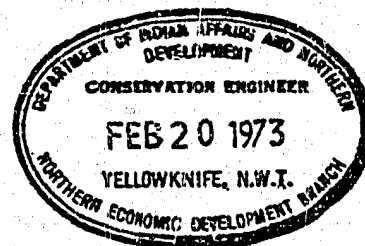
(est) 62°28'47"N; 121°27'32"W

Elevation:

GL 750 (est) KB 765 (est)

Main Objective:

Ordovician Dolomite



Estimated Formation Tops:

Formation	Depth from KB (est)	Subsea
Horn River Shale (shale)	520	+ 230
Lonely Bay (limestone)	600	+ 150
Bear Rock (anhydrite & salt)	990	- 240
Ernestina Lake (dolomite & anhydrite)	1735	- 985
Lotsberg Salt (salt)	1820	-1070
Basal Bear Rock (anhydrite)	1870	-1120
Ordovician (dolomite)	2090	-1340
Cambrian (shale & sst)	2540	-1790
Pre Cambrian (granite)	2580	-1830
FTD	2600	-1850

Casing Program:

Surface: 8 5/8" 24# K. 55 to 300' cemented full length.

Production: 5 1/2" 14# K. 55 ST&C.

Blowout Preventor:

As required under Section 7 of the Canadian Oil and Gas Drilling and Production Regulations. The blowout preventor will be installed before drilling out the surface plug and tested daily thereafter.

Hole Size:

Surface: 12 1/4" to 300'

Main Hole: 7 7/8" 300' to TD.

Drilling Fluid Program:

As determined by the field supervisor.

Deviation Surveys:

Not to exceed 3° from the vertical. Measured every 100' in surface hole, 500' in main hole.

Drillpipe Measurements:

Surface Hole: At least once prior to running of surface casing.

Main Hole: At least every 1,000' and prior to coring and/or drill-stem testing and prior to running production casing and before logging.

Continued

Drilling Time:

To be logged with a geograph or similar instrument.

Coring and Testing:

Testing and coring of all zones left to discretion of the wellsite geologist.

Core Analysis:

All cores to be analyzed for porosity, permeability and residuals.

Fluid Analysis:

Two, one quart samples of formation fluid will be obtained from each test for chemical analyses.

Logging Program:

See attached.

Samples:

Cities Service: 10 foot samples from surface casing to TD.
Imperial Oil: 10 foot samples from surface casing to TD.
DIAND 10 foot samples from surface to TD or as directed by the
Oil Conservation Engineer.

Instructions for Wellsite Geologist:

Maintain at all times an up-to-date strip log, sample descriptions and drilling time log.

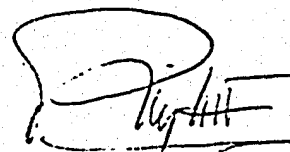
Phone daily report to the Calgary office (263-4330) not later than 9:00 AM each working day. Evenings or weekends call: Mr. P. Meneghetti 271-5080
or: Mr. R. McIntosh 288-8166

Mark the formation tops on a field print log to be left with the engineer before leaving the wellsite. Note the status of the well and sign it.

Distribution of Data:

	<u>Cities</u>	<u>IOE</u>	<u>Total</u>
Logs - Field Prints	3	1	4
- Final Prints	3	2	5
Drill-Stem Test Charts	3	1	4
Fluid Analyses	3	1	4

All data must be sent to the Calgary office of Cities Service, Attn: P. Meneghetti.



P. Meneghetti, Region Geologist



G. Dohy, Division Production Engineer

CANADA - CITIES SERVICE, LTD.

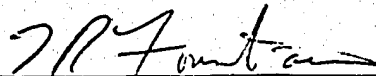
LOGGING PROGRAM

Well Name: CS IOE Highland Lake N-69

<u>Type</u>	<u>Interval</u>	<u>Remarks</u>
DILL	Base of surface casing to TD.	2" & 5" scales. Repeat 5" scale over all zones of apparent porosity development. Run 2" scale on linear presentation. Show all calibrations and zeroes.
BHCSL-GR-Cal	Base of surface casing to TD.	2" & 5" scales. Repeat 5" scale over all zones of porosity development. Use a 40-60-80 microsecond transit time. Show all calibrations and zeroes.
FDC-GR CNL-GR	Base of surface casing to TD.	2" & 5" scales. Repeat 5" scale over all zones of porosity development. Run CNL on limestone porosity. Show FDC compensation curve on 2" scale only. Show all calibrations and zeroes.
Velocity Survey		As directed by geophysicists.

Note:

1. CNL will only be run if reservoir development is present on other logs or in samples.
2. Maximum recording thermometer to be run on each sonde and respective values marked on log heading.


T. R. Fountain

KELLY BUSHINGS
THREE BEAMS

FLOW LINE

FIGURE 1

BLOWOUT PREVENTER
HYDRAULICALLY OPERATED

DOUBLE GATE
PREVENTER
HYDRAULICALLY
OPERATED

DRILL STEM TEST OUTLET

8" 2" SIDE

A

CASING 5000L-8" 2000PSI

8" 2" CASING

To flare Line Size 2 7/8" min.

ADJUSTABLE CHOKER

NOTE: Flanged connections mandatory on Spec. Side - outlets and on in side valves ① and ② all other connections optional whether flanged or threaded. Check-valve to be installed ahead of outside valve on kill side. All valves and fittings 2" min. flange ends 2 7/8" minimum.

BLOWOUT PREVENTER AND MANIFOLD REQUIREMENT

CANADA-CITIES SERVICE

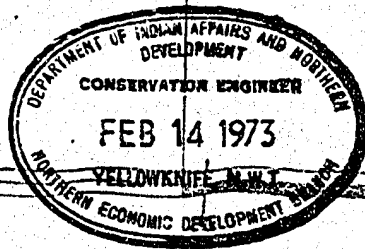
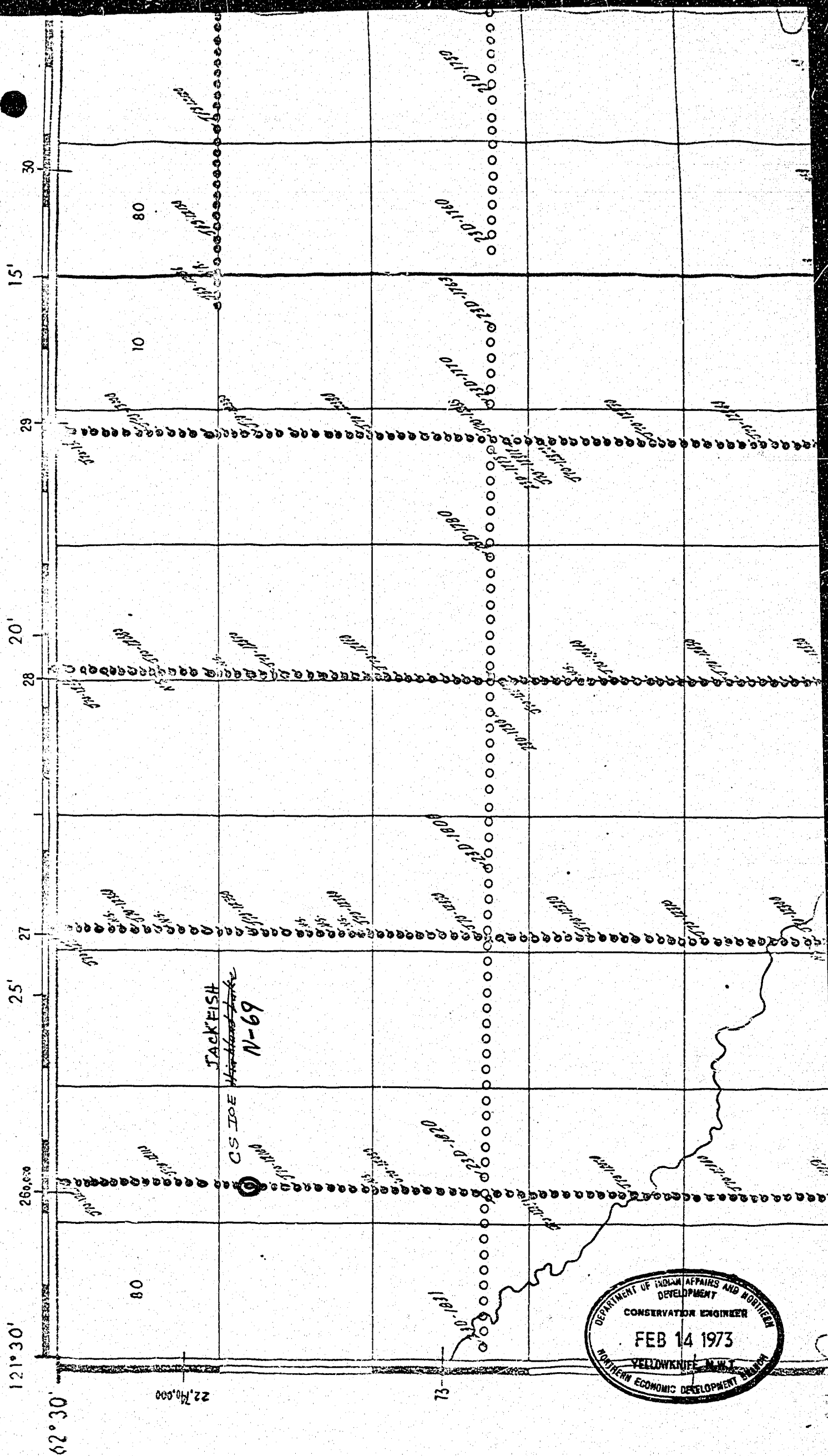
FEB. 1973

CONTINUOUS TO SURVEY ALL EQUIPMENT ABOVE LINE A-A
AS WELL AS ALL EQUIPMENT IN THE MANIFOLD.
BLOWOUT PREVENTER AND MANIFOLD TO BE MINIMUM OF
2000 PSI WORKING PRESSURE.

01 MAR 10

11-14-11

SCALE 1:50,000



062-11-04-033

CS IOE JACKFISH N-69

$62^{\circ} 28' 47''\text{N}$; $121^{\circ} 27' 32''\text{W}$

Ft. Simpson Area, N.W.T.



WELL HISTORY REPORT

on

CS IOE JACKFISH N-69

62° 28' 47"N; 121° 27' 32"W

FT. SIMPSON AREA
NORTHWEST TERRITORIES

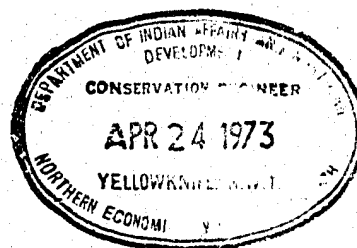


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I. WELL DATA SUMMARY

- (a) Well Name: CS IOE Jackfish N-69
- (b) Permittee, Licencee or Lessee: Imperial Oil Enterprises Ltd.
- (c) Operator: Canada-Cities Service, Ltd., P. O. Box 2727,
CALGARY, Alberta. T2P 2M7
- (d) Location: N-69 62-30-121-15
62° 28' 47"N; 121° 27' 32"W
Unique Well Iden. 300N696230121150
Univ. Well Loc. Ref. 62.47972, 121.45889
- (e) Permit No.: 4369
- (f) Drilling Contractor: Regent Drilling Ltd., Rig No. 29H
- (g) Drilling Authority No.: 676
- (h) Classification: New Field Wildcat
- (i) Elevations: G.L. 812'; K.B. 825.5'
- (j) Spud Date: 6:30 A.M., March 4th, 1973
- (k) Drilling Completed: March 15th, 1973
- (l) Total Depth: 2623'
- (m) Well Status: Plugged and Abandoned
- (n) Rig Release Date: 5:00 P.M., March 19th, 1973
- (o) Hole Sizes: 12¼" Surface to 617'; 7-7/8" 617' to 2623'
- (p) Casing: 8-5/8", 24#/ft., K-55, set @ 608' K.B.

II Geological Summary

(a) Formation Tops

<u>Formation</u>	<u>Sample Top</u>	<u>Log Top</u>
Glacial Drift	75	----
Imperial Fm	180	----
Horn River Shale	535	----
Lonely Bay	698	698
Bear Rock	1123	1113
Salt	1603	1619
Ernestina Lake	1843	1846
Lotsberg Salt	1945	1967
Basal Bear Rock	2018	2020
Ronning	2149	2148
Basal Paleo Clastics	2504	2464
Proterozoic Sediments	2540	2525

Sample Descriptions

500 - 530'

Shale, pale green, firm, slightly calcareous, trace pyritic:
Devonian Imperial Formation Top at 180' depth.

HORN RIVER SHALE: 535' (+229')
(Samples)

530 - 690'

Shale, dark grey to black, bituminous, firm, locally soft, papery,
sparsely pyritic.

LONELY BAY FMN: 698' (+ 66')

690 - 760'

Limestone, dark brown, crypto-crystalline to micro-crystalline,
dense, trace pyritic; veined with calcite and pyrite top 30 feet.

760 - 990'

Limestone, micro-crystalline to very fine and fine crystalline,
buff to dark brown, mottled, dense, slightly calcitic in part.

990 - 1040'

Dolomite, calcareous, buff to brown, crypto to micro-crystalline,
rare green shale partings.

1040 - 1050'

Dolomite, buff to light brown, dull, poor microvug porosity, no
oil stain or fluorescence: 4' net drilling break.

1050 - 1070'

Dolomite, buff to light brown, micro-crystalline, dense, trace
green shale.

1070 - 1080'

Dolomite, buff, dull, micro-crystalline, fair microvug porosity,
no oil stain or fluorescence: 8' net drilling break.

1080 - 1090'

Dolomite, buff, grey, dense, very fine crystalline; trace of white
coarse dolomite rhombs.

1090 - 1100'

Dolomite, buff, dull, fine to medium-grained, relict, oolitic,
calcareous, fairly good microvug porosity, light oil stain and
yellow fluorescence: 3' net drilling break.

1100 - 1120'

Dolomite, buff to medium dark brown, crypto to very fine crystalline,
dense.

BEAR ROCK EVAP.: 1113' (-349')

1120 - 1140'	Dolomite, light to dark brown, dense, oolitic, at top; Anhydrite, buff to brown, bedded, dominant.
1140 - 1150'	Dolomite and Anhydrite, as above.
1150 - 1220'	Anhydrite, brown, white, grey, bedded.
1220 - 1240'	Dolomite, buff, brown, some secondary anhydrite infill, dense, anhydrite, brown, bedded.
1240 - 1270'	Anhydrite, brown, white, grey.
1270 - 1285'	Dolomite, Anhydrite, dense, medium to dark brown.
1285 - 1320'	Anhydrite, white to brown, minor grey.
1320 - 1335'	Anhydrite, as above, and dolomite, buff, oolitic, dense, anhydritic.
1335 - 1360'	Anhydrite, as above.
1360 - 1375'	Anhydrite, as above; Dolomite, light brown, oolitic, dense.
1375 - 1390'	Anhydrite, white to dark brown.
1390 - 1400'	Anhydrite, as above; oolitic dolomite, as above.
1400 - 1455'	Dolomite, micro-crystalline, dark brown to buff, dense, minor secondary anhydrite; with Anhydrite, brown to white.
1455 - 1605'	Anhydrite, buff to brown, grey, bedded, dense, much darker in basal 100 feet.

BEAR ROCK SALT MEMBER 1619' (-855')

1605 - 1840'	Anhydrite, light to medium brown, grey, bedded, with minor to abundant salt hoppers: anhydrite and dolomite.
--------------	--

ERNESTINA LAKE: 1846' (-1082')

1840 - 1890'	Dolomite, buff to brown, dark brown; sugary, very fine crystalline, <u>highly porous, friable</u> , minor secondary anhydrite infill, <u>no oil stain or fluorescence</u> , -- interlensed or lining fractures of dense
--------------	---

rubbly dark brown micro-crystalline dolomite with sparse isolated vugs and microvugs: all drilled slow.

1890 - 1910'

Dolomite, medium brown, micro-crystalline, dense, trace secondary anhydrite; abundant anhydrite, bedded, grey, brown, possibly cavings in part.

1910 - 1940'

Dolomite, sugary, very fine crystalline, buff to brown, fair to good porosity and permeability, in part micro-vuggy, reefoid, trace secondary anhydrite infill; no stains or fluorescence.

LOTSBERG SALT:

1967' (-1203')

1940 - 2010'

Anhydrite, grey, brown, with local salt casts.

BASAL BEAR ROCK EVAP. 2020' (-1256')

2010 - 2140'

Anhydrite, brown, trace grey, bedded; minor occasional beds of dolomite, buff to brown, micro to crypto-crystalline, dense.

RONNING DOLOMITE:

2148' (-1384')

2140 - 2200'

Dolomite, greyish, buff to light brown, micro to crystalline, dense, with minor black films of pyro-bitumen; no stain or fluorescence; trace healed fractures.

2200 - 2290'

Dolomite, as above, very fine crystalline, locally fine crystalline, locally with healed fractures; with fairly good to fair drusy vug porosity throughout in alternating layers of dense and porous dolomite. Vugs lined with black disseminated pyro-bitumen, but no oil stain or fluorescence. No sign of gas inferable in mud system. First porosity occurs in drilling at 2203 feet; the main porous zone, at 2229 foot depth. Drilling, very rough through porous intervals.

2290 - 2350'

Dolomite, as above, grey to buff, brown, micro-crystalline to fine crystalline, dense, minor vug druses, poorly developed bitumen-lined vugs; no oil stain or fluorescence.

2350 - 2500'

Dolomite, light to dark brown, micro to fine crystalline, abundant films, disseminations of pyro-bitumen, no fluorescence or oil stain; minor chert, dull buff, bitumen specks.

CAMBRIAN:

2464' (-1700')

2500 - 2510'

Sandstone, trace coarse-grained, sub-rounded, argillaceous, dark grey, tight; Quartzite, light grey, pale greenish, rose to buff, trace shale, waxy, green, maroon.

2510 - 2540'

Quartzite, shale, as above.

PRECAMBRIAN SEDIMENTS 2525' (-1761')

2540 - 2623'

Sandstone, quartzose, very fine-grained, indurated, sub-rounded, very argillaceous, well-sorted, tight, dark grey to black; Shale, dark grey to black, grading to argillite, locally sub-schistose.

TOTAL DEPTH:

2622 (-1858')

DRILLSTEM TEST REPORT

Page _____

TEST NO. 1WELL: C.S. I.O.E. Jackfish N-69 Date: March 17, 19 73FORMATION: Running INTERVAL 2175 - 2320 TEST TYPE Dual StraddleHOLE SIZE 7 7/8 #, PACKER SIZE 7 ", DRILL PIPE SIZE 4 1/2 14.2 Bbls/ft. 1000'DRILL COLLAR SIZE 6 1/4 X 2 1/4 7.0 Bbls/ft. 1000' CONTRACTOR: Johnston TestersTOOL DESCRIPTION: Dual Straddle, Jars, Safety joint, Pump out sub, fail safe head.STRING WEIGHTS: Before 62M M#, After 71M M#, To Pull Loose 75 M#TIME RECORD:

<u>OPERATION</u>	<u>TIME</u>	<u>MINS. DURATION</u>
Bottom Clock Started	<u>1:00 A.M.</u>	<u> </u>
Tools on Bottom	<u>5:42 A.M.</u>	<u> </u>
Preflow	<u>5:47 A.M.</u>	<u>5</u>
Initial Shut In	<u>6:47 A.M.</u>	<u>60</u>
Valve Open	<u>8:47 A.M.</u>	<u>120</u>
Final Shut In	<u>10:47 A.M.</u>	<u>120</u>
	<u> </u>	<u> </u>
	<u> </u>	<u> </u>

PRESSURE RECORDS (Field Readings)IHP 1137 #, ISIP 972 #, IFP 360 #, FFP 972 #, FSIP 972 #, FHP 1126 #.FLOW DESCRIPTION: G.I.P. on 5 min. preflow. On valve open G.I.B. decreasing to
dead in 120 mins.RECOVERY: 1900' salt water 245M P.P.M. Salt.REMARKS: Good Test. Drilling mud 214M P.P.M. Salt.

JOHNSTON

Schlumberger

JOHNSTON TESTERS

A DIVISION OF SCHLUMBERGER CANADA LIMITED

321 - 50th AVENUE S.E. CALGARY, ALBERTA T2G 2B3

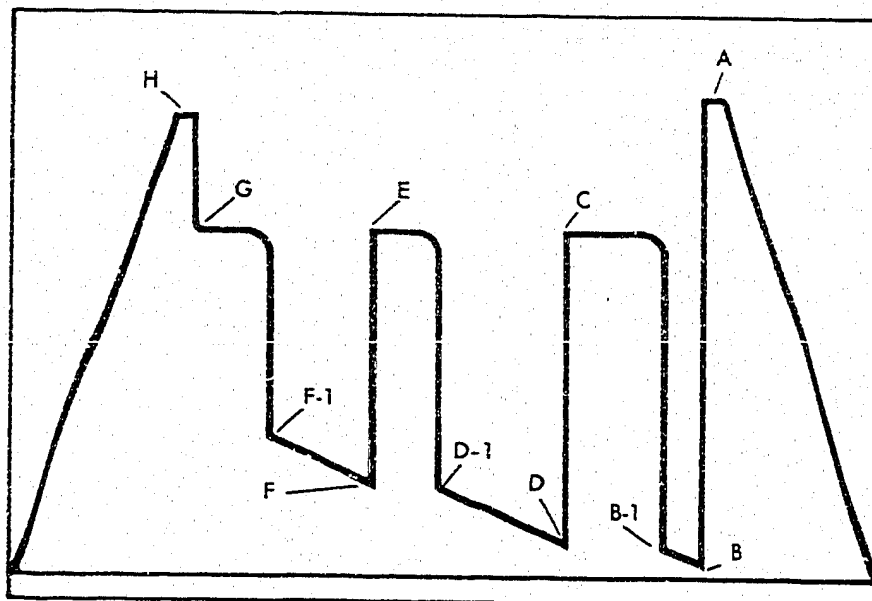
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

FIELD
REPORT NO.

RECORDER NO.

D08319

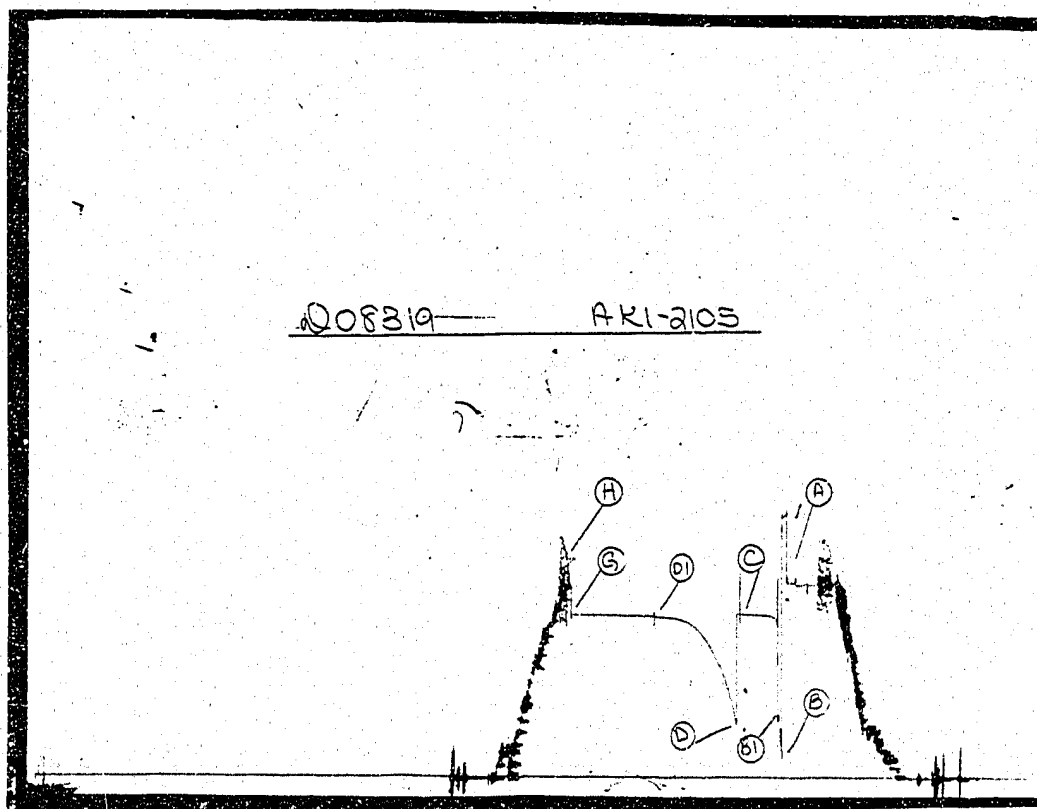
AKI-2105



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

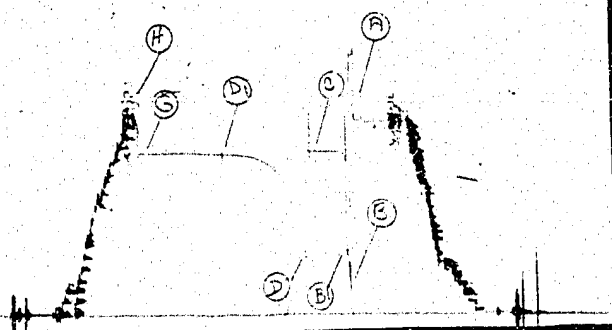
The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- Z — Special pressure points such as pumping pressures recorded for formation breakdown.



008319

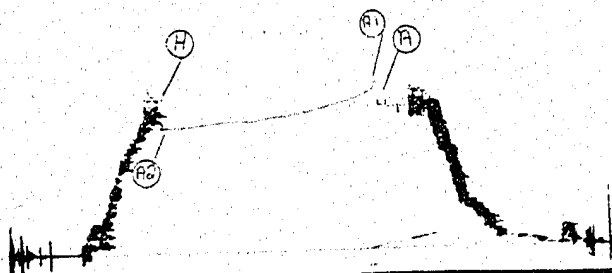
AKI-2108



008319

AKI-1935

Low Below Saddle



DRILLSTEM TEST REPORTPage TEST NO. 2

WELL: C.S. I.O.E. Jackfish N-69 Date: March 18, 19 73
FORMATION: Lonely Bay INTERVAL 945 - 1108 TEST TYPE Dual Straddle
HOLE SIZE 7 7/8 #, PACKER SIZE 7 ", DRILL PIPE SIZE 4 1/2 14.2 Sbls/ft. 1000'
DRILL COLLAR SIZE 6 1/2 X 2 1/2 7.0 Sbls/ft. 1000' CONTRACTOR: Johnston Testers
TOOL DESCRIPTION: Dual Straddle, Jars, Safety Joint, Pump out sub, Fail Safe Head.

STRING WEIGHTS: Before 60 M#, After 62 M#, To Pull Loose 62 M#

TIME RECORD:

<u>OPERATION</u>	<u>TIME</u>	<u>MINS. DURATION</u>
Bottom Clock Started	<u>2:00</u>	<u> </u>
Tools on Bottom	<u>3:50</u>	<u> </u>
Preflow	<u>3:53</u>	<u> 3 </u>
Initial Shut In	<u>4:53</u>	<u> 60 </u>
Valve Open	<u>5:53</u>	<u> 60 </u>
Final Shut In	<u>6:53</u>	<u> 60 </u>

PRESSURE RECORDS (Field Readings)

IHP 490 #, ISIP 442 #, IFP 30 #, FFP 42 #, FSIP 372 #, FHP 490 #.

FLOW DESCRIPTION: W.I.P. on 3 min Preflow. W.I.B. on Valve Open decreasing to
dead in 50 mins.

RECOVERY: 20' Drilling mud.

REMARKS:

JOHNSTON

Schlumberger

JOHNSTON TESTERS

A DIVISION OF SCHLUMBERGER CANADA LIMITED
321 50TH AVENUE S.E. CALGARY, ALBERTA T2G 2B3

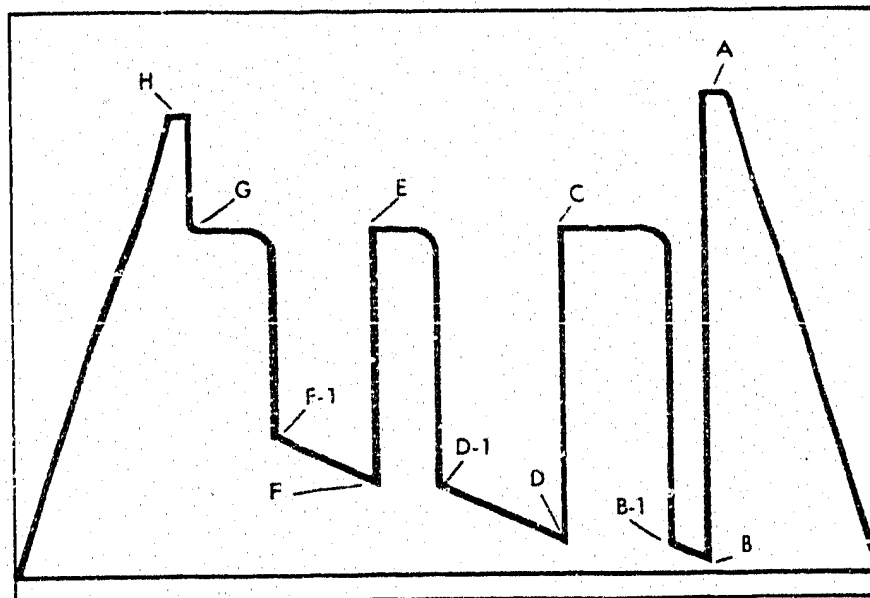
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

FIELD
REPORT NO.

RECORDER NO.

D08320

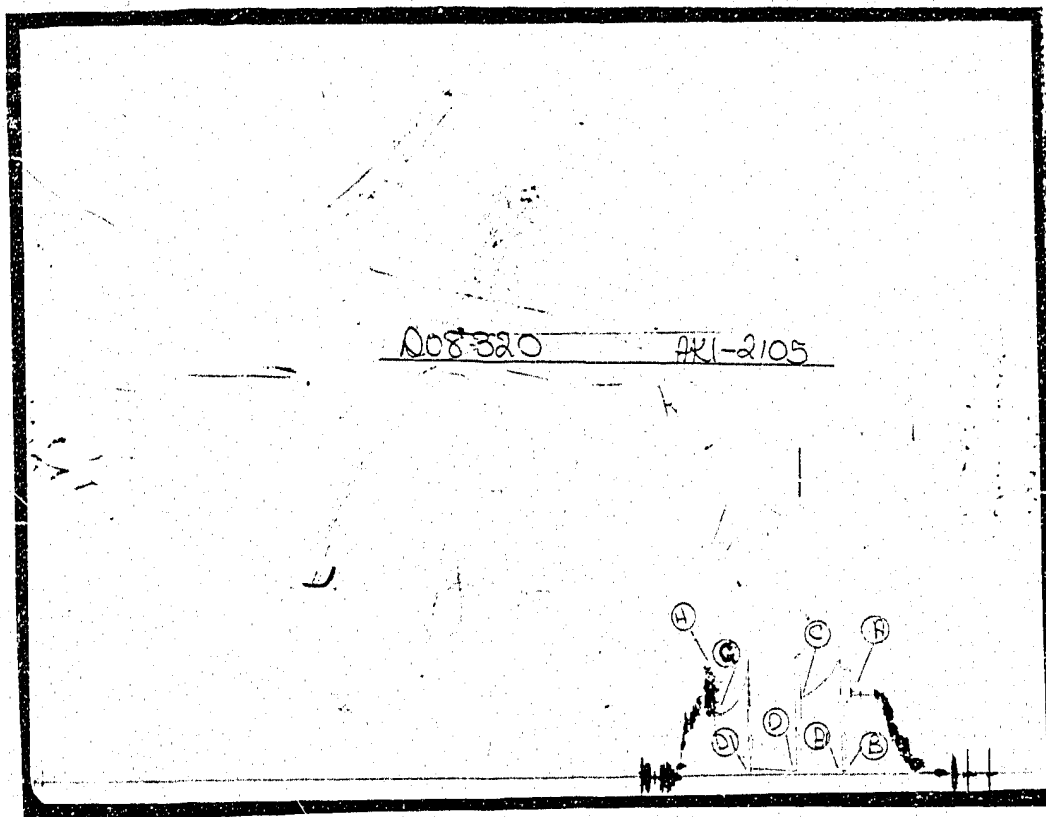
AK1-2105



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

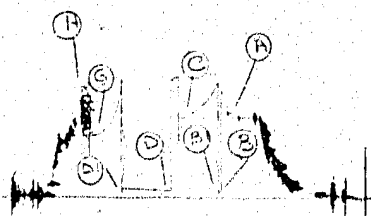
The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.



008320

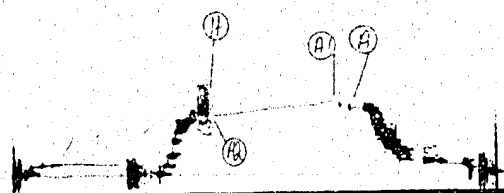
AKI-2108



008320

AKI-1935

Raw Below Straddle



CASING REPORT

WELL: C.S. I.O.E. Jackfish N-69

Date March 6, 1973

Casing OD 8 5/8", Type SMLS, Wt 24 lb/ft, Grade K-55, Range 2, Thd 8rd ST&C
Make Phoenix, Cond. & Remarks NewCASING STRING DETAILS (From bottom-up)

<u>ITEM</u>	<u>LENGTH FT.</u>	<u>DEPTH KB LANDING</u>
<u>Guide Shoe (Baker)</u>	<u>1.20</u>	<u>608</u>
<u>1 ft. Casing</u>	<u>33.04</u>	
<u>Float Collar (Baker)</u>	<u>1.55</u>	<u>572</u>
<u>18 its. Casing</u>	<u>592.25</u>	
<u>K.B. to top casing</u>	<u>13.29</u>	
<u>K.B. to gnd.</u>	<u>13.50</u>	

Centralizer & Scratcher Depths: 1 each on collars of its. #1 and #4, and #10.
Used Baker Centralizers.Casing Hanger: Size 8 3/8 X 10", Make N.T.T., Type screwed, API 3,000CEMENTING DETAILS:OPERATIONPUMP
PRESSTIME
START

<u>10 bbls. of water ahead</u>	<u>100</u>	<u>1:30 P.M.</u>
<u>Start mixing</u>	<u>100</u>	<u>1:33 P.M.</u>
<u>Finish mixing</u>	<u>150</u>	<u>1:57 P.M.</u>
<u>Plug released, Start displacing</u>	<u>nil</u>	<u>2:00 P.M.</u>
<u>Bumped plug</u>	<u>950</u>	<u>2:05 P.M.</u>

Slurry Weights: 14.7 and 15.4lb/USGREMARKS:

Threadlocked first 2 its. Cement casing 1' off bottom. Pull casing up for
screw on bowl. Used top plug only. 20 bbls cement returns. Float held O.K.
Ran 620.29' total casing.

WELL C.S. I.O.E. Jackfish N-69 62° 28' 47" N. 121° 27' 32" W.

DELIVERIES

TICKET NO. _____

MATERIAL

DELIVERIES	TICKET NO.	DATE	MATERIALS											
			100# sx HYDROGEL	100# sx BICARBONATE	50# sx CAUSTIC	1 Gal. DV-68	50# LIME	SAPP	40# SAWDUST	50# C.M.C.	40# REDWOOD FIBRE	50# SX PELTEX	100# SX SODA ASH	
	5981	Feb. 26/73	170	2	10	16	10	2	250	25	10			
	5983	Mar. 4/73	150		15				40			40	20	
	5932	Mar. 11/73			20									

MUD RETURNED:

MUD ON LEASE:

MUD USED:

SHORTAGES:

TOTALS:

REMARKS:

61		32	8		8	2		84	20	8		36	12
249		10	8		2			206	5				6
10	2	3								2		4	2
320	2	45	16		10	2		290	25	10		40	20

**** Show in sags, lbs or gals.**

WELL C.S. I.O.F. Jackfish N-69

773M

DELIVERIES

DELIVERIES						MATERIAL						
TICKET NO.	DATE	30 gal. B. FLEK	5 gal. D-FOAM	50# PLASTER	50# STARCH	100# SALT GEL	5 gal. CORROSION PRES.	50#				
5983	Mar. 4/73	1	2									
5932	Mar. 11/73		3	10	51	200	10					
5940	Mar. 14/73				60							
TOTALS:		1	5	10	112	200	10					

MUD RETURNED:

MUD ON LEASE:

MUD USED:

SHORTAGES:

TOTALS:

REMARKS:

SECTION IV

LOGS

<u>Type</u>	<u>Date Run</u>	<u>Interval</u>
Formation Density	March 16, 1973	620' - 2620'
Sidewall Neutron Porosity	March 16, 1973	620' - 2620'
Borehole Compensated Sonic	March 16, 1973	620' - 2614'
Spherically Focused Induction Log	March 16, 1973	620' - 2619'

Received: March 22, 1973 Reported: March 30, 1973

Well: Location: CS-IOE-Jackfish N-69 62°-28'-47"N 212°-27'-32"W

Operator: CANADA-CITIES SERVICE, LTD.

Field or Area:

Elev.: K.B. 764' Grd.

Zone/Formation: Ronning

Sample Interval: 2175' - 2320'

Method of Production: D.S.T. #1

Sampled from: Bottom

Sampled by: Johnston Testers

Date: March 17, 1973

OTHER PERTINENT DATA

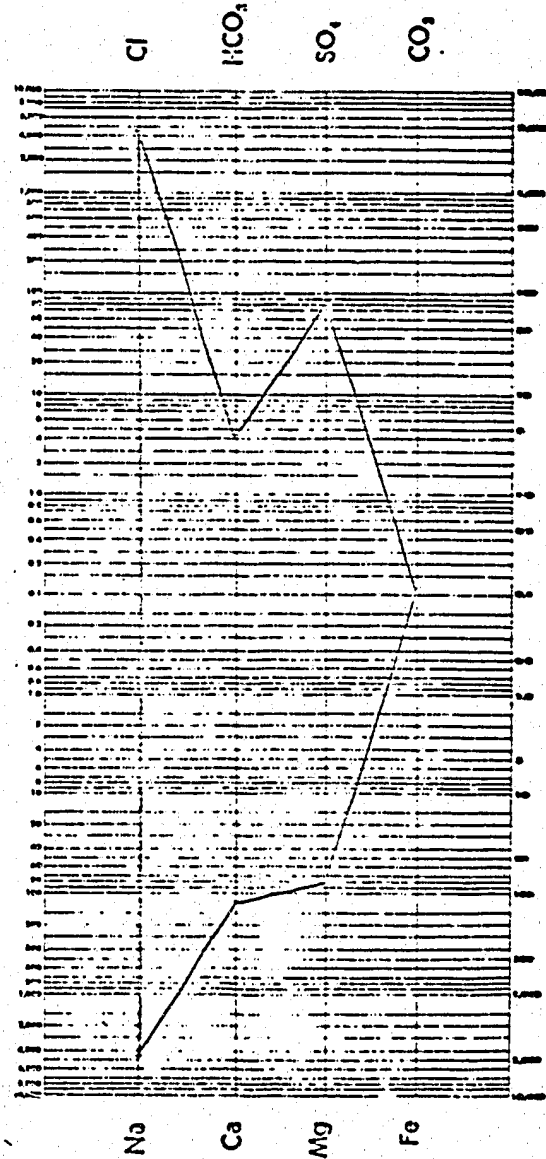
Recovered: 1900' salt water.

(Signed)

	Na & K	Ca	Mg	SO ₄	Cl	CO ₃	HCO ₃	
Mg. /L	104, 232	2603	972	4156	165,000	---	270	
Meq. /L	4534.08	129.89	79.90	86.44	4653.00	---	4.43	
Meq. %	47.79	1.37	0.84	0.91	49.04	---	0.05	

Total Solids Mg/L: By Evaporation 280,880 Fe Nil Specific Gravity 1.181 @60°F Observed pH 8.1 @72 °F
 Calculated 277,233 After Ignition 273,380 H₂S Nil Refractive Index 1.3740 @25°C Resistivity 0.049 ohm meters @68 °F
 Organic matter - Present

Pattern Unit Meq./L



Remarks and Conclusions

Analysis determined on a clear colorless filtrate recovered from water containing a thin layer of sediment.

C73-6328-1: Top. Resistivity determined on a clear colorless filtrate recovered from water containing approximately 10% sediment.

RESISTIVITY: 0.051 OHM meters at 68°F.

C73-6328-2: Middle. Sample description same as -3.

RESISTIVITY: 0.049 OHM meters at 68°F.

Received: March 22, 1973 Reported: April 2, 1973

Well: Location: CS-IOE-Jackfish N-69 62°-28'-47"N 121°-27'-32"W

Operator: CANADA-CITIES SERVICE, LTD. Field or Area:

Elev.: K.B. 764' Grd.

Zone/Formation: Lonely Bay

Sample Interval: 945' - 1108'

Method of Production: D.S.T. #2

Sampled from: D C

Sampled by: Johnston Testers Date: March 17, 1973

OTHER PERTINENT DATA

(Signed)

Na & K	Ca	Mg	SO ₄	Cl	CO ₃	HCO ₃
Mg. 68,429	2402	trace	6303	105,000	84	98
Micq. 2976.65	119.86	---	131.10	2961.00	2.80	1.61
Micq. 48.06	1.94	---	2.12	47.81	0.04	0.02

Total Solids Mg/L:

By Evaporation

187,700

Fe Trace

Specific Gravity 1.124

@60°F

Observed pH

9.6 @ 72°F

Calculated

182,316

After Ignition

H₂S Nil

Refractive Index

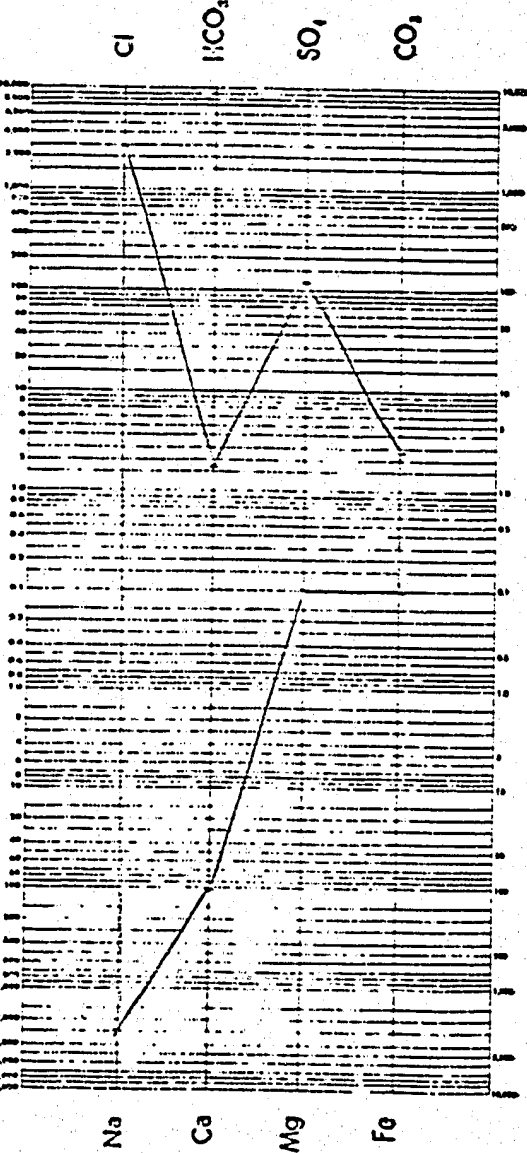
1.3626

@25°C

Resistivity 0.059 ohm meters @ 68°F

Pattern Unit mg./L

Organic matter - Present



Remarks and Conclusions

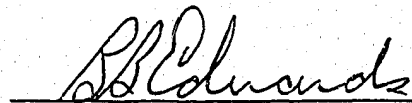
Analysis determined on a clear colorless filtrate recovered from colorless water containing approximately 90% sediment.

SECTION VI

COMPLETION SUMMARY

Well Plugged and Abandoned. No Completion.

Date Prepared: May 2nd, 1973



B. B. Edwards,
Operations Manager.

CS IOE JACKFISH N-69

62-30-121-15

D.A. 676

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1		
NO. 2		

LAST CASING SIZE LAST CASING SET AT

DATE MARCH 19TH 73

WELL NAME CITY SERVICE TOE N. 69

DATE March 19th 73 REPORT NO. 20

PLEASE SHOW FOOTAGE MADE WHILE

"CONTROL DRILLING" AS WELL AS HOURS

AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M. HOURS

DRILLER J. Rat 6

DERRICK R. E. Smith 6

FLOOR D. Cox 4 1/4

FLOOR D. Smith 6

FIREMAN

MECHANIC

INJURIES

FROM		FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREE		
NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAM-ED TO	CONDIT-ION
	STANDS		FT.															
	SINGLES		FT.															
	D.C.'S		FT.															
	SUB		FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS						
	SUB		FT.	WEIGHT								Felt. Plug. #2. @ 630.						
	BIT OR C.B.		FT.	VISCOSITY					ADDITIVES			March 19th @ 536.						
			FT.	PUMP PRESSURE														
	KELLY IN		FT.	R.P.M. PUMP NO. 1														
				R.P.M. PUMP NO. 2														
TOTAL			FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE											

REMARKS	START	STOP	INT VAL
Lay down Drill pipe. Felt plug. @ 536. & lay. down Pipe. Tear out Bops.	1200	700	7
	700	800	1

TOUR NO. 2 8 A.M. TO 4 P.M. HOURS

DRILLER H. Smith 16

DERRICK

FLOOR E. Brangy 13

FLOOR B. Guy 16

FLOOR N. Illegere 13

FIREMAN

MECHANIC

INJURIES

FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM		DRILL PIPE WEIGHT		NO. AND SIZE OF D.C.'S		D.C. WEIGHT		TRIPS		NO OF LINES		TOTAL TON MILES		LINE CUT FEET		AT MILES		FEET LEFT ON SPOOL		DATE OF LAST CUT		AT SURVEYS		DEGREE					
NO.		DRILLING STRING		BITS RUN NO.		SIZE		NOZZLE SIZE		SERIAL NO.		TYPE		WEIGHT		RPM		FOOTAGE FROM		FOOTAGE TO		FOOTAGE		HOURS		CORED FROM		CORED TO		REAMED FROM		REAMED TO		CONDIT-ION	
		STANDS		FT.																															
		SINGLES		FT.																															
		D.C.'S		FT.																															
		SUB		FT.		MUD		8 A.M.		10 A.M.		12 NOON		2 P.M.		WATER LOSS		FILTER CAKE		PH		GENERAL REMARKS .													
		SUB		FT.		WEIGHT																													
		BIT OR C.B.		FT.		VISCOSITY										ADDITIVES																			
				FT.		PUMP PRESSURE												15 gal. Corros Inhibitor TO WASH Down																	
		KELLY IN		FT.		R.P.M. PUMP NO.1												Rig and Pipe . .																	
				FT.		R.P.M. PUMP NO.2																													
TOTAL				FT.		PUMP NO. 1 LINER SIZE				PUMP NO. 2 LINER SIZE																									

REMARKS	START	STOP	INT VAL
Leaving Out B.O.P.s	8:00		
Cut csg haul off & cut csg off 3' below ground level & put 3 sacks of cement in csg & put 3 sacks cement in mouse hole and well			
Run on csg. & well name plate. RIG RELEASED @ 5:00 p.m. MARCH 19/73	4:00	8	
TO EDMONTON			
1 SET 10" 900' SER. BOP'S TO BE SENT BACK			
1 8 1/8" Landing JOINT TO BE SENT BACK			
1 8 7/8 x 10" Csg Bowl w/ VALVE TO SEND BACK.			

TOUR NO. 3 4 P.M. TO MIDNIGHT HOURS

DRILLER D. L. HIRONDELLE 13

DERRICK R. BARDENHAGEN 13

FLOOR A. Mc. Gillis 13

FLOOR D. WACHTER 13

FLOOR

FIREMAN

MECHANIC

INJURIES

FROM		FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREE		
NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAM-ED TO	CONDIT-ION	
	STANDS		FT.																
	SINGLES		FT.																
	D.C.'S		FT.																
	SUB		FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB		FT.	WEIGHT															
	BIT OR C.B.		FT.	VISCOSITY					ADDITIVES										
			FT.	PUMP PRESSURE															
	KELLY IN		FT.	R.P.M. PUMP NO. 1															
			FT.	R.P.M. PUMP NO. 2															
TOTAL			FT.	PUMP NO. 1 LINER SIZE	PUMP NO. 2 LINER SIZE														

REMARKS	START	STOP	INT VAL
TEARING OUT	AM 8:00	9:00 PM	

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
B.O.P.'S TESTED		ELAPSED TIME		PRESSURE	RESULTS	TOTCO RING ON BIT NO.		

TOOLPUSHER Wm Gustafson

APPROVED BY Cliff Jasson

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 <i>WACO</i>	<i>D800</i>	<i>M</i>
NO. 2 <i>WACO</i>	<i>D175</i>	<i>1/2</i>

LAST CASING SIZE	LAST CASING SET AT
<i>604</i>	<i>853</i>

DATE *March 14/73*

WELL NAME *Cities Service IOE W-69*

DATE *March 18/73*

REPORT NO. *F1*

PLEASE SHOW FOOTAGE MADE WHILE

"CONTROL DRILLING" AS WELL AS HOURS

AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

TOUR NO. 1 MIDNIGHT TO 8 A.M. HOURS

DRILLER <i>2 Hats</i>	<i>8</i>
DERRICK <i>B. Esnold</i>	<i>8</i>
FLOOR <i>B. Cox</i>	<i>4</i>
FLOOR <i>P. Lewis</i>	<i>8</i>
FLOOR	
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES		
		262 1/2			14-6 1/4	218.000											
NO.	DRILLING STRING	BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDIT-ION
22	STANDS	205H 45 FT.															
	SINGLES	FT.															
16	D.C.'S	529.75 FT.															
XD	SUB	253 FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS D.S.T #2 945'-1108'						
bit	SUB	264 FT.	WEIGHT								Lovely Bay Formation - W.T.P. on 3 min						
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES			PreFlow - T.S.T. 60 mins, W.O. - 60 mins,						
		FT.	PUMP PRESSURE								EST-60 mins - On Valve open 44.5 B.						
	KELLY IN	34.00 FT.	R.P.M. PUMP NO. 1								and closed in 50 mins. Rec'd 20 ft Duly						
			R.P.M. PUMP NO. 2								mud 177m P.P.M salt. IHR 495, 151P-442						
			PUMP NO. 1 LINER SIZE								150 1/2" 570 1/2" 570 1/2" 570 1/2" 570 1/2"						
	TOTAL	FT.	PUMP NO. 2 LINER SIZE														

REMARKS	START	STOP	INT VAL
<i>make up DST #2</i>	<i>11:00</i>	<i>12:00</i>	<i>2</i>
<i>rig sea & chh Bays</i>	<i>2:00</i>	<i>2:15</i>	<i>1/4</i>
<i>run in w/ test tool</i>	<i>2:15</i>	<i>2:30</i>	<i>1/4</i>
<i>had up to test</i>	<i>3:30</i>	<i>4:00</i>	<i>1/2</i>
<i>Testing #2</i>	<i>4:00</i>	<i>7:00</i>	<i>3</i>
<i>TEAR out hunder + chh sand.</i>	<i>7:00</i>	<i>7:30</i>	<i>1/2</i>
<i>start out w/ DST #2</i>	<i>7:30</i>	<i>8:00</i>	<i>1/2</i>

TOUR NO. 2 8 A.M. TO 4 P.M. HOURS

DRILLER <i>H. Smith</i>	<i>8</i>
DERRICK <i>H. Gibson</i>	<i>8</i>
FLOOR <i>E. Beagay</i>	<i>8</i>
FLOOR <i>B. Gay</i>	<i>8</i>
FLOOR <i>N. Nazare</i>	<i>8</i>
FIREMAN	
MECHANIC	
INJURIES	

FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM		DRILL PIPE WEIGHT		NO. AND SIZE OF D.C.'S		D.C. WEIGHT		TRIPS		NO OF LINES		TOTAL TON MILES		LINE CUT FEET		AT MILES		FEET LEFT ON SPOOL		DATE OF LAST CUT		AT SURVEYS		DEGREES					
NO.		DRILLING STRING		BITS RUN NO.		SIZE		NOZZLE SIZE		SERIAL NO.		TYPE		WEIGHT		RPM		FOOTAGE FROM		FOOTAGE TO		FOOTAGE		HOURS		CORED FROM		CORED TO		REAMED FROM		REAM-ED TO		CONDIT-ION	
		STANDS		FT.																															
		SINGLES		FT.																															
		D.C.'S		FT.																															
		SUB		FT.		MUD		8 A.M.		10 A.M.		12 NOON		2 P.M.		WATER LOSS		FILTER CAKE		PH		GENERAL REMARKS													
		SUB		FT.		WEIGHT																													
		BIT OR C.B.		FT.		VISCOSITY										ADDITIVES		Run Plug #1 2623'-2100' - 523'																	
				FT.		PUMP PRESSURE												Cement w/ 203 SAKS Const Cement																	
		KELLY IN		FT.		R.P.M. PUMP NO.1												in Place @ 8:05 P.M. 3/18/73																	
						R.P.M. PUMP NO.2												NO FEEL																	
TOTAL				FT.		PUMP NO. 1 LINER SIZE				PUMP NO. 2 LINER SIZE																									

REMARKS	START	STOP	INT VAL
<i>Pull out @ D.S.T #2</i>	<i>8:00</i>	<i>8:30</i>	<i>1/2</i>
<i>Break test tools & recover chh</i>	<i>8:30</i>	<i>9:00</i>	<i>1/2</i>
<i>Wait on orders.</i>	<i>9:00</i>	<i>11:00</i>	<i>2</i>
<i>Break down test tools & load</i>	<i>11:00</i>		
<i>out same.</i>		<i>1:00</i>	<i>2</i>
<i>Pull 16 steel drill pipe</i>	<i>1:00</i>	<i>1:45</i>	<i>3/4</i>
<i>Run in D.C. & lay down.</i>	<i>1:45</i>	<i>4:00</i>	<i>2 1/4</i>

TOUR NO. 3 4 P.M. TO MIDNIGHT HOURS

DRILLER <i>DL HIRONDELLE</i>	<i>8</i>
DERRICK <i>R. BAR DENHAGEN</i>	<i>12</i>
FLOOR <i>A. Mc Gillis</i>	<i>8</i>
FLOOR <i>D. WACHTER</i>	<i>8</i>
FLOOR <i>N. Dosorec</i>	<i>5</i>
FIREMAN	
MECHANIC	
INJURIES	

FROM		FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES		
NO.		DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDIT-ION
		STANDS		FT.															
		SINGLES		FT.															
		D.C.'S		FT.															
		SUB		FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS						
		SUB		FT.	WEIGHT								Run Plug # 2 658'-558'-100'						
		BIT OR C.B.		FT.	VISCOSITY					ADDITIVES			Cement w/ 42 SAKS Const Cement						
				FT.	PUMP PRESSURE								3% CACI in Place @ 9:30 pm						
		KELLY IN		FT.	R.P.M. PUMP NO. 1								3/18/73 FEEL IN 8 hrs						
					R.P.M. PUMP NO. 2														
TOTAL				FT.	PUMP NO. 1 LINER SIZE					PUMP NO. 2 LINER SIZE									

REMARKS	START	STOP	INT VAL
<i>LAY DOWN D.C.s</i>	<i>4:00</i>	<i>4:30</i>	<i>1/2</i>
<i>RUN IN 22 STANDS</i>	<i>4:30</i>	<i>5:30</i>	<i>1</i>
<i>CIRC.</i>	<i>5:30</i>	<i>6:00</i>	<i>1/2</i>
<i>Pick up 17 SINGLES</i>	<i>6:00</i>		
<i>AND Rig To Run Plug #1</i>		<i>8:30</i>	<i>2 1/2</i>
<i>Run Plug</i>	<i>8:30</i>	<i>9:00</i>	<i>1/2</i>
<i>TRIP OUT + RUN 6 STD. 2 sample</i>	<i>9:00</i>	<i>9:30</i>	<i>1/2</i>
<i>Plug #2</i>	<i>9:30</i>	<i>10:00</i>	<i>1/2</i>
<i>lay down D.P.</i>	<i>10:00</i>		
<i>AND LAY D.P.</i>		<i>12:00</i>	<i>2</i>

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPIED	FOOTAGE DRILLED SINCE LAST SONOSCOPIED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
B.O.P.S. TESTED		ELAPSED TIME		PRESSURE	RESULTS	TOTCO RING ON BIT NO.		

TOOLPUSHER *Wm. Gustafson*

APPROVED BY *Cliff Jasson*

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1		
NO. 2		

DATE March 17/73

WELL NAME Cities Service JOF M-69

DATE March 17/73 REPORT NO. 18

PLEASE SHOW FOOTAGE MADE WHILE
"CONTROL DRILLING" AS WELL AS HOURS
AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

EACH EMPLOYEE MUST SIGN THIS BOOK
TOUR NO. 1 MIDNIGHT TO 8 A.M. HOURS

DRILLER	<u>2 Pate</u>	8
DERRICK	<u>H. Emsell</u>	8
FLOOR	<u>B. Cox</u>	8
FLOOR	<u>P. Lewis</u>	8
FLOOR		
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREE	
2623																	
NO.	DRILLING STRING	BITS RUN NO	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
21	STANDS	2054 1/4	FT.														
	SINGLES		FT.														
18	D.C.'S	529 75	FT.														
10	SUB	2 53	FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS					
Bit	SUB	2 61	FT.	WEIGHT								① Run I.F.S. Log 2622 TO SURFACE Csg. on 2" and 5" scales.					
	BIT OR C.B.		FT.	VISCOSITY					ADDITIVES			② Run S.W.P. GR. and Caliper Log. 2622 TO SURFACE Csg. 2" and 5" Scales.					
			FT.	PUMP PRESSURE								③ Run F.D.C. GR and Caliper 2622 TO SURFACE Csg. 2" and 5" Scales.					
	KELLY IN	34.00	FT.	R.P.M. PUMP NO.1								④ Run B.H.C.S.L. 2622 TO SURFACE Csg. 2" and 5" Scales.					
TOTAL		2623.	FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE	⑤ Run F.D.C. GR and Caliper 2622 TO SURFACE Csg. 2" and 5" Scales.									

REMARKS	START	STOP	INT VAL
make up DST #1	12:00	2:00	2
rig up & chg Bops	2:00	2:15	1/4
run in slow	2:15	4:00	1 3/4
head up & test	4:00	5:00	1
Testing	5:00	8:00	3

DRILLER	<u>A. Smith</u>	8
DERRICK	<u>A. Gibson</u>	8
FLOOR	<u>E. Brogan</u>	8
FLOOR	<u>B. Cuz</u>	8
FLOOR	<u>N. Boyer</u>	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREE		
18-6 1/4 42,000																	
NO.	DRILLING STRING	BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAM-ED TO	CONDIT-ION
	STANDS	FT.	P.R. 6	7 7/8	2-11 1-12	429669	586										
	SINGLES	FT.															
18	D.C.'S	529.75 FT.															
1.	SUB C/O	2.53 FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS						
1	SUB B/T	2.64 FT.	WEIGHT								D.S.T # 1 2175'-2320'-145' DUAL						
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES			STADDLE TEST. RUNNING FORMATION.						
		FT.	PUMP PRESSURE								G.I.P. ON 5 min PREFLOW, ISI-60 min						
	KELLY IN	FT.	R.P.M. PUMP NO.1								11:00-120 mins, F.S.I-120 mins - G.I.B						
			R.P.M. PUMP NO.2								ON VALVE OPEN AND DEAD IN 120 mins						
TOTAL		FT.	PUMP NO. 1 LINER SIZE	PUMP NO. 2 LINER SIZE													

REMARKS	START	STOP	INT VAL
D.S.T. #1	8:00	11:00	3
Break down chik-saw & handle	11:00	11:30	1/2
Pull out slow @ D.S.T. #1	11:30	1:00	1 1/2
Break down test tool &	1:00		
reconnect charts	2:30		1 1/2
Put on bit & chik B.O.P. set	2:30	2:45	1/4
Run in hole @ 11:00 5 R.R.	2:45	4:00	1 1/4

DRILLER	<u>D. P. HANDELLE</u>	8
DERRICK	<u>P. BARDENHAGEN</u>	8
FLOOR	<u>A. M. GILLIS</u>	8
FLOOR	<u>D. WACHTER</u>	8
FLOOR		
FIREMAN		
MECHANIC		
INJURIES		

DRILLING LOG																	SURVEYS		DEGREE	
FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS		DEGREE			
															2567	1.9				
2623																				
NO.	DRILLING STRING	BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION			
	STANDS	FT.	R. 6	7 7/8	2-12 1-11	429669	586		2587											
	SINGLES	FT.																		
	D.C.'S	FT.																		
	SUB	FT.	MUD	5 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS									
	SUB	FT.	WEIGHT	9.9	9.9	10.1		13.8	3/32	105	Rec'd 1900' SAFE WATER, 245mPPm SALT									
	BIT OR C.B.	FT.	VISCOSITY	45	50	48		ADDITIVES	IHP-1137' JSJP-972' IFP-360'											
		FT.	PUMP PRESSURE	1000	1000	1000			FFP-972' ESIP-972' FHP-1126'											
	KELLY IN	FT.	R.P.M. PUMP NO. 1	68	68	68			Good Test.											
		FT.	R.P.M. PUMP NO. 2																	
TOTAL		FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE														

REMARKS	START	STOP	INT VAL
FINSH TRIP IN BIT & R.R.	4:00	4:30	1/2
BRACK CIRC. WASH TO BOTTOM	4:30	5:00	1/2
CIRC.	5:00	9:30	4 1/2
TRIP OUT	9:30	11:00	1 1/2
STRAP IN 16 STD.	11:00	12:00	1

DRILL PIPE SIZE	<u>4 1/2</u>	TYPE	<u>F.H.</u>	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPIED	FOOTAGE DRILLED SINCE LAST SONOSCOPIED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
B.O.P.'S TESTED		ELAPSED TIME		PRESSURE	RESULTS	TOTCO RING ON BIT NO.				

TOOLPUSHER Wm Gustafson
APPROVED BY Cliff Jansen

DAY WORK RECORD

PU MPS

[illegible]

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS				DATE <u>March 15 73</u>		WELL NAME <u>Cotton Service LDE W-69</u>		DATE <u>March 15 73</u>		REPORT NO. <u>16</u>	
MANUFACTURER	TYPE	STROKE LENGTH	LAST CASING SIZE	LAST CASING SET AT	RIG NO. <u>29-H</u>	LOCATION	LSD.	SEC.	TWP.	RGE.	PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.
NO 1 <u>EMSCO</u>	<u>2300</u>	<u>14"</u>	<u>9 5/8</u>	<u>6.17</u>							
NO 2 <u>R175</u>	<u>12"</u>										
EACH EMPLOYEE MUST SIGN THIS BOOK											
TOUR NO. 1 MIDNIGHT TO 8 A.M.				HOURS	FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
DRILLER	<u>2 Kate</u>	<u>8</u>	<u>2430</u>	<u>7H</u>	<u>2504</u>	<u>7 1/4</u>	<u>71000</u>	<u>18-6 1/4</u>	<u>115000</u>		
DERRICK	<u>R Enroll</u>	<u>4</u>	NO.	DRILLING STRING	BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM
FLOOR	<u>P Cox</u>	<u>4</u>	<u>20</u>	<u>STANDS</u>	<u>192962</u>	<u>5</u>	<u>7 1/4</u>	<u>2-11</u>	<u>218986</u>	<u>588</u>	<u>412</u>
FLOOR	<u>P Lewis</u>	<u>4</u>	<u>2</u>	<u>SINGLES</u>	<u>192962</u>						
FLOOR			<u>18</u>	<u>D.C.'S</u>	<u>52975</u>						
FLOOR			<u>X6</u>	<u>SUB</u>	<u>2.53</u>	<u>FT.</u>	<u>MUD</u>	<u>12 MID.</u>	<u>2 A.M.</u>	<u>4 A.M.</u>	<u>6 P.M.</u>
FIREMAN			<u>2</u>	<u>SUB</u>	<u>2.64</u>	<u>FT.</u>	<u>WEIGHT</u>	<u>10.3</u>	<u>10.3</u>	<u>10.3</u>	<u>10.3</u>
MECHANIC				<u>BIT OR C.B.</u>	<u>FT.</u>	<u>VISCOSITY</u>	<u>38</u>	<u>45</u>	<u>45</u>	<u>43</u>	<u>ADDITIVES</u>
INJURIES					<u>FT.</u>	<u>PUMP PRESSURE</u>	<u>1000</u>	<u>1000</u>	<u>1000</u>	<u>1000</u>	<u>SALT-CEL 1000#</u>
				<u>KELLY IN</u>	<u>4100</u>	<u>FT.</u>	<u>R.P.M.</u>	<u>68</u>	<u>68</u>	<u>64</u>	<u>Hydrogel 500#</u>
						<u>FT.</u>	<u>R.P.M.</u>				<u>C.MC 100#</u>
				<u>TOTAL</u>	<u>250496</u>	<u>FT.</u>	<u>PUMP NO. 1 LINER SIZE</u>	<u>5"</u>	<u>PUMP NO. 2 LINER SIZE</u>	<u>5"</u>	
TOUR NO. 2 8 A.M. TO 4 P.M.				HOURS	FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
DRILLER	<u>H. Smith</u>	<u>8</u>	<u>2504</u>	<u>83</u>	<u>2587</u>	<u>7</u>	<u>71000</u>	<u>18-6 1/4</u>	<u>48000</u>		
DERRICK	<u>H. Gibson</u>	<u>8</u>	NO.	DRILLING STRING	BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM
FLOOR	<u>E. Brozney</u>	<u>8</u>	<u>21</u>	<u>STANDS</u>	<u>2</u>	<u>5</u>	<u>7 1/2</u>	<u>2-11</u>	<u>218986</u>	<u>588</u>	<u>40</u>
FLOOR	<u>B. Gray</u>	<u>8</u>	<u>2</u>	<u>SINGLES</u>	<u>202304</u>						
FLOOR	<u>B. Gray</u>	<u>8</u>	<u>18</u>	<u>D.C.'S</u>	<u>52975</u>						
FLOOR	<u>N. Nazare</u>	<u>8</u>	<u>1</u>	<u>SUB</u>	<u>2.53</u>	<u>FT.</u>	<u>MUD</u>	<u>8 A.M.</u>	<u>10 A.M.</u>	<u>12 NOON</u>	<u>2 P.M.</u>
FIREMAN			<u>1</u>	<u>SUB</u>	<u>2.64</u>	<u>FT.</u>	<u>WEIGHT</u>	<u>10.4</u>	<u>10.3</u>	<u>10.3</u>	<u>10.3</u>
MECHANIC				<u>BIT OR C.B.</u>	<u>FT.</u>	<u>VISCOSITY</u>	<u>40</u>	<u>40</u>	<u>38</u>	<u>45</u>	<u>ADDITIVES</u>
INJURIES					<u>FT.</u>	<u>PUMP PRESSURE</u>	<u>1000</u>	<u>1000</u>	<u>1000</u>	<u>1000</u>	<u>Salt Cel 1000 #</u>
				<u>KELLY IN</u>	<u>30.00</u>	<u>FT.</u>	<u>R.P.M.</u>	<u>68</u>	<u>68</u>	<u>68</u>	<u>Hydrogel 500 #</u>
						<u>FT.</u>	<u>R.P.M.</u>				<u>Hydrogel 500 #</u>
				<u>TOTAL</u>	<u>2587.96</u>	<u>FT.</u>	<u>PUMP NO. 1 LINER SIZE</u>	<u>5"</u>	<u>PUMP NO. 2 LINER SIZE</u>	<u>5"</u>	<u>Rust Inhibitor 2 gal.</u>
TOUR NO. 3 4 P.M. TO MIDNIGHT				HOURS	FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
DRILLER	<u>D. B. HIRONDELLE</u>	<u>8</u>	<u>2587</u>	<u>36</u>	<u>2623</u>	<u>3 3/4</u>	<u>72000</u>	<u>18-6 1/4</u>	<u>48000</u>		
DERRICK	<u>R. BARDENHAGEN</u>	<u>8</u>	NO.	DRILLING STRING	BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM
FLOOR	<u>A. Mc GILLIS</u>	<u>8</u>	<u>22</u>	<u>STANDS</u>	<u>2054.48</u>	<u>6</u>	<u>7 7/8</u>	<u>2-12</u>	<u>429669</u>	<u>586</u>	<u>40</u>
FLOOR	<u>O. WACHTER</u>	<u>8</u>	<u>18</u>	<u>D.C.'S</u>	<u>52975</u>						
FLOOR			<u>SUB</u>	<u>2.53</u>	<u>FT.</u>	<u>MUD</u>	<u>4 P.M.</u>	<u>7 P.M.</u>	<u>8 P.M.</u>	<u>10 P.M.</u>	<u>WATER LOSS</u>
FIREMAN			<u>SUB</u>	<u>2.64</u>	<u>FT.</u>	<u>WEIGHT</u>	<u>10.4</u>	<u>10.4</u>	<u>10.4</u>	<u>10.2</u>	<u>2/32</u>
MECHANIC				<u>BIT OR C.B.</u>	<u>FT.</u>	<u>VISCOSITY</u>	<u>50</u>	<u>47</u>	<u>48</u>	<u>ADDITIVES</u>	<u>STARCH</u>
INJURIES					<u>FT.</u>	<u>PUMP PRESSURE</u>	<u>1000</u>	<u>1000</u>	<u>1000</u>	<u>CEL 600 #</u>	
				<u>KELLY IN</u>	<u>34.00</u>	<u>FT.</u>	<u>R.P.M.</u>	<u>68</u>	<u>68</u>	<u>68</u>	<u>Hydrogel 1200 #</u>
						<u>FT.</u>	<u>R.P.M.</u>				<u>TANKS</u>
				<u>TOTAL</u>	<u>2623.40</u>	<u>FT.</u>	<u>PUMP NO. 1 LINER SIZE</u>	<u>5"</u>	<u>PUMP NO. 2 LINER SIZE</u>	<u>5"</u>	
DRILL PIPE SIZE	<u>4 1/2</u>	TYPE	<u>F.H.</u>	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING	
B.O.P.'S TESTED		ELAPSED TIME		PRESSURE	RESULTS	TOTCO RING ON BIT NO.					
REMARKS											
<u>Drill</u> <u>12:00</u> <u>1:00</u> <u>1</u> <u>rig over chb. Briggs</u> <u>1:00</u> <u>1:15</u> <u>1/4</u> <u>Drill</u> <u>1:15</u> <u>6:15</u> <u>5</u> <u>change over pumps</u> <u>6:15</u> <u>6:45</u> <u>1/2</u> <u>Drill</u> <u>6:45</u> <u>8:00</u> <u>1 1/4</u>											
<u>Big service & check B.O.P.s</u> <u>8:00</u> <u>8:15</u> <u>1/4</u> <u>Drilling 7 1/2 hole</u> <u>8:15</u> <u>10:45</u> <u>2 1/2</u> <u>Change pumps & survey 3/4</u> <u>10:45</u> <u>11:00</u> <u>1/4</u> <u>Drilling 7 1/2 hole</u> <u>11:00</u> <u>3:30</u> <u>4 1/2</u> <u>Deep survey</u> <u>3:30</u> <u>3:45</u> <u>1/4</u> <u>Pull out @ bit #5</u> <u>3:45</u> <u>4:00</u> <u>1/4</u>											
<u>FINSH TRIP OUT</u> <u>4:00</u> <u>5:00</u> <u>1</u> <u>CHANGE BIT CHECK B.O.P.S</u> <u>5:00</u> <u>5:15</u> <u>1/4</u> <u>TRIP IN W/ BIT #6</u> <u>5:15</u> <u>6:15</u> <u>1</u> <u>BREAK CIRC.</u> <u>6:15</u> <u>6:30</u> <u>1/4</u> <u>Drill W/ BIT #6</u> <u>6:30</u> <u>10:15</u> <u>3 3/4</u> <u>CIRC. COND. MUD</u> <u>10:15</u> <u>12:00</u> <u>1 3/4</u>											
TOOLPUSHER <u>Wm. K. Gustafson</u>											
APPROVED BY <u>Cliff Jasman</u>											

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS			DATE <u>March 14/73</u>		WELL NAME <u>Cities Service I.O.E. N-69</u>		DATE <u>March 14/73</u>		REPORT NO. <u>15</u>																																																																																																																																																																																																																																																																																																																					
MANUFACTURER	TYPE	STROKE LENGTH	LAST CASING SIZE		LAST CASING SET AT		RIG NO. <u>29-H</u>		LOCATION LSD. _____ SEC. _____ TWP. _____ RGE. _____																																																																																																																																																																																																																																																																																																																					
NO. 1 <u>EMASEO</u>	<u>B300</u>	<u>14</u>	<u>9 3/4</u>		<u>6 1/7</u>																																																																																																																																																																																																																																																																																																																									
NO. 2 <u>EMASEO</u>	<u>B175</u>	<u>12</u>																																																																																																																																																																																																																																																																																																																												
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TOOLPUSHER <u>Wm Gustafson</u>			APPROVED BY <u>Chf Jansen</u>																																																																																																																																																																																																																																																																																																																											

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS

MANUFACTURER			TYPE		STROKE LENGTH		LAST CASING SIZE		LAST CASING SET AT		DATE		WELL NAME		DATE		REPORT NO.																							
NO. 1			2300		14"		8 7/8		6 1/2		March 13/73		Cotton Service T-62 F W-69		March 13/73		14																							
NO. 2			2175		12"						RIG NO. 29-11		LOCATION LSD.		SEC.		TWP.		RGE.																					
EACH EMPLOYEE MUST SIGN THIS BOOK			TOUR NO. 1 MIDNIGHT TO 8 A.M.		HOURS		FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM		DRILL PIPE WEIGHT		NO. AND SIZE OF D.C.'S		D.C. WEIGHT		TRIPS		NO OF LINES		TOTAL TON MILES		LINE CUT FEET		AT MILES		FEET LEFT ON SPOOL		DATE OF LAST CUT		AT SURVEYS DEGREES		REMARKS		TIME	
DRILLER			2		8		2181		34		2165		5		68000		18-6 1/4		48000		9		15413		90		1945		199		1/5/73				Finish out		12:00 12:30 1/2			
DERRICK			A. Arnold		8		17		STANDS		1615.25		41		7 7/8		2 1/2		44532		0.04		35		65		2131		2165		34		5		Brg		rig on + chx Brgs		12:30 12:45 1/4	
FLOOR			R. Cox		8		1		SINGLES		1615.25		5		7 7/8		2 1/2		218986		588														set up pumps + eat lunch		12:45 1:15 1/2			
FLOOR			P. Lewis		8		18		D.C.'S		529.75																								Drill in slow		1:15 2:45 1 1/2			
FLOOR							20		SUB		253		FT.		MUD		12 MID.		2 A.M.		4 A.M.		6 P.M.		WATER LOSS		FILTER CAKE		PH		GENERAL REMARKS				break circ + clean to BTM		2:45 3:00 1/4			
FIREMAN							20		SUB		261		FT.		WEIGHT		T		8.0		9.9		10.1		10.6		2/32		10.0						Drill 7 7/8 hole -		3:00 3:00 5			
MECHANIC									BIT OR C.B.		FT.		VISCOSITY		R		30		30		32		ADDITIVES																	
INJURIES									KELLY IN		15		FT.		PUMP NO. 1		68		68		64		Hydrogel		1700															
									PUMP NO. 2		on mixer												STARCH		450															
									TOTAL		2165		FT.		PUMP NO. 1 LINER SIZE		5"		PUMP NO. 2 LINER SIZE		5"																			
TOUR NO. 2 8 A.M. TO 4 P.M.			HOURS		FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM		DRILL PIPE WEIGHT		NO. AND SIZE OF D.C.'S		D.C. WEIGHT		TRIPS		NO OF LINES		TOTAL TON MILES		LINE CUT FEET		AT MILES		FEET LEFT ON SPOOL		DATE OF LAST CUT		AT SURVEYS DEGREES		REMARKS					
DRILLER			H. Smith		8		2165		22		2187		3 1/4		78000		18-6 1/4		48000		1		1		5467		45		5467		154		3/13/73				Drilling 7 7/8 hole		8:00 11:15 3 1/4	
DERRICK			H. Gibson		8		17		STANDS		FT.		4		7 7/8		2 1/2		42532		0.04		35		70		2131		2187		56		8 1/4		651		Wrap survey		11:15 11:30 1/4	
FLOOR			E. Brown		8		1		SINGLES		1615.25		5		7 7/8		2 1/2		218986		588														Pull out @ bit #4 (measure out)		11:30 1:00 1 1/2			
FLOOR			B. Gray		8		18		D.C.'S		529.75																								Check blind rams & change bits		1:00 1:15 1/4			
FLOOR			N. Dwyer		8		1		SUB		253		FT.		MUD		8 A.M.		10 A.M.		12 NOON		2 P.M.		WATER LOSS		FILTER CAKE		PH		GENERAL REMARKS				Run in D.C.s.		1:15 1:45 1/2			
FIREMAN							1		SUB		264		FT.		WEIGHT		10.2		10.1																Cut & slip 45' drilling line		1:45 3:00 1 1/4			
MECHANIC																																								

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS				DATE <u>March 12 / 73</u>		WELL NAME <u>Cotton Service L.O.E. N-69</u>		DATE <u>March 12 / 73</u>		REPORT NO. <u>13</u>			
MANUFACTURER	TYPE	STROKE LENGTH	LAST CASING SIZE		LAST CASING SET AT		RIG NO. <u>29-H</u>		LOCATION LSD. _____ SEC. _____ TWP. _____ RGE. _____		PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.		
NO. 1 <u>EMSCO</u>	<u>B200</u>	<u>14</u>	<u>6 5/8</u>		<u>617</u>								
NO. 2 <u>B175</u>	<u>12</u>												
TOUR NO. 1 MIDNIGHT TO 8 A.M.				HOURS		FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM	
DRILLER <u>2 Post</u>				<u>8</u>		<u>1950</u>		<u>75</u>		<u>2025</u>		<u>7</u>	
DERRICK <u>B. Enabel</u>				<u>8</u>									
FLOOR <u>B. Enabel</u>				<u>8</u>									
FLOOR <u>P. Louis</u>				<u>4</u>									
FLOOR													
FIREMAN													
MECHANIC													
INJURIES													
TOUR NO. 2 8 A.M. TO 4 P.M.				HOURS		FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM	
DRILLER <u>H. Smith</u>				<u>8</u>		<u>2025</u>		<u>65</u>		<u>2090</u>		<u>7 3/4</u>	
DERRICK <u>H. H. H. H.</u>				<u>8</u>									
FLOOR <u>E. Brown</u>				<u>8</u>									
FLOOR <u>B. Cruz</u>				<u>8</u>									
FLOOR <u>N. Brown</u>				<u>8</u>									
FIREMAN													
MECHANIC													
INJURIES													
TOUR NO. 3 4 P.M. TO MIDNIGHT				HOURS		FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM	
DRILLER <u>D. L. H. H. H.</u>				<u>8</u>		<u>2090</u>		<u>41</u>		<u>2131</u>		<u>7</u>	
DERRICK <u>R. B. H. H. H.</u>				<u>8</u>									
FLOOR <u>A. Mc. G. H. H.</u>				<u>8</u>									
FLOOR <u>D. W. H. H. H.</u>				<u>8</u>									
FLOOR													
FIREMAN													
MECHANIC													
INJURIES													

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS			MANUFACTURER		TYPE	STROKE LENGTH	LAST CASING SIZE		LAST CASING SET AT		DATE	WELL NAME	DATE	REPORT NO.										
NO. 1			Emaco		B300	14	8 3/4		617		March 11/73	Cetus Service T.O.E. N 69	March 11/73	12										
NO. 2			Emaco		B175	12	8 3/4		617			62°28'47"N. 121°27'32"W.												
RIG NO. 29-H			LOCATION		SEC.	TWP.	RGE.																	
TOUR NO. 1 MIDNIGHT TO 8 A.M.			HOURS																					
DRILLER	2 Prato	8	FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS DEGREES	REMARKS	TIME					
DERRICK	R. Ewald	8	NO.	DRILLING STRING	BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDIT-ION				
FLOOR	R. Cox	8	14	STANDS	2	7 7/8	3/11	392083	5-84	35	40	1133	1457	796	3 1/4					Drill	12:00 12:30 1/2			
FLOOR	R. Lewis	8	2	SINGLES	1306.66	FT.														Drill	12:30 12:45 1/2			
FLOOR			18	D.C.'S	529.75	FT.														Drill	12:45 1:00 1/2			
FLOOR			1	SUB	2.53	FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS									
FIREMAN			1	SUB	2.64	FT.	WEIGHT	9.0	9.0	9.1	9.3													
MECHANIC				BIT OR C.B.		FT.	VISCOSITY	29	29	30	30	ADDITIVES												
INJURIES				PUMP PRESSURE	1000	FT.		1000	1000	1000	1000													
				KELLY IN	3100	FT.	R.P.M.	PUMP NO. 1	68	68	68	50# Caustic												
				R.P.M.	PUMP NO. 2		on tanks					2 1/2 Dr. foam												
				TOTAL	1991.94	FT.	PUMP NO. 1 LINER SIZE	5"	PUMP NO. 2 LINER SIZE	5"														
TOUR NO. 2 8 A.M. TO 4 P.M.			HOURS																					
DRILLER	H. Smith	8	FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS DEGREES	REMARKS	TIME					
DERRICK	H. Gibson	8	NO.	DRILLING STRING	BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDIT-ION				
FLOOR	E. Breyer	8	14	STANDS	2	7 7/8	3x11	393083	584	35	40	1133	1922	789	3 1/4					Drilling 7 7/8 hole	8:00 9:00 1			
FLOOR	B. Guj	8	2	SINGLES	1366.89	FT.														Drill	9:00 9:15 1/4			
FLOOR	N. Bazzari	8	18	D.C.'S	529.75	FT.														Drilling 7 7/8 hole	9:15 11:45 2 1/2			
FLOOR			1	SUB	2.53	FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS									
FIREMAN			1	SUB	2.64	FT.	WEIGHT	101												Repair rotary chain	11:45 12:00 1/4			
MECHANIC				BIT OR C.B.		FT.	VISCOSITY	30	ADDITIVES											Drilling 7 7/8 hole	12:00 3:00 3			
INJURIES				PUMP PRESSURE	1050	FT.		1050												Change pumps & circ.	3:00 4:00 1			
				KELLY IN	21.00	FT.	R.P.M.	PUMP NO. 1	68															
				R.P.M.	PUMP NO. 2																			
				TOTAL	1922.81	FT.	PUMP NO. 1 LINER SIZE	5"	PUMP NO. 2 LINER SIZE	5"														
TOUR NO. 3 4 P.M. TO MIDNIGHT			HOURS																					
DRILLER	D. L'Hirondelle	8	FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS DEGREES	REMARKS	TIME					
DERRICK	R. BARDENHAGEN	8	NO.	DRILLING STRING	BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDIT-ION				
FLOOR	A. Mc Gillis	8	15	STANDS	2	7 7/8	3x11	393083	5-84	35	40	1133	1929	796	39					DRILL 7 7/8 HOLE	4:00 6:00 2			
FLOOR	D. WACHTER	8	18	D.C.'S	529.75	FT.														TRIP OUT w/ BIT #2	6:00 7:30 1 1/2			
FLOOR			1	SUB	9.53	FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS									
FIREMAN			1	SUB	2.64	FT.	WEIGHT	10.0	10.0	T	10.0									SER. RIG CHANGE BIT	7:30 8:00 1/2			
MECHANIC				BIT OR C.B.		FT.	VISCOSITY	30	30	R	31	ADDITIVES												
INJURIES				PUMP PRESSURE	1050	FT.		1050	1050	1050										Run in w/ BIT #3	8:00 9:15 1 1/4			
				KELLY IN	19.00	FT.	R.P.M.	PUMP NO. 1	68	68	P	68												
				R.P.M.	PUMP NO. 2																REAM TO BOTTOM	9:15 9:30 1/4		
				TOTAL	1950.60	FT.	PUMP NO. 1 LINER SIZE	5"	PUMP NO. 2 LINER SIZE	5"														
DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING																
B.O.P.'S TESTED	ELAPSED TIME	PRESSURE	RESULTS	TOTCO RING ON BIT NO.																				

TOOLPUSHER Wm. J. Heston

APPROVED BY Cliff James

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS			MANUFACTURER		TYPE	STROKE LENGTH	LAST CASING SIZE		LAST CASING SET AT		DATE	WELL NAME		DATE		REPORT NO.	
NO. 1			Emsco		D300	14"					March 10/73	Cities Service ToE N69		March 10/73		11	
NO. 2			Emsco		D125	12"						62025' 47" N		121° 27' 32" W			
TOUR NO. 1 MIDNIGHT TO 8 A.M.			HOURS														
DRILLER			J. Rato														
DERRICK			R. F. S. veld														
FLOOR			R. Cox														
FLOOR			P. Lewis														
FLOOR																	
FIREMAN																	
MECHANIC																	
INJURIES																	
TOUR NO. 2 8 A.M. TO 4 P.M.			HOURS														
DRILLER			H. Smith														
DERRICK			H. Nelson														
FLOOR			E. B. Gray														
FLOOR			B. Gray														
FLOOR			N. D. Gray														
FIREMAN																	
MECHANIC																	
INJURIES																	
TOUR NO. 3 4 P.M. TO MIDNIGHT			HOURS														
DRILLER			DON L. HIRONDELLE														
DERRICK			R. B. BARDENHAGEN														
FLOOR			A. Mc Gillis														
FLOOR			D. WACHTER														
FLOOR																	
FIREMAN																	
MECHANIC																	
INJURIES																	

TOOLPUSHER Wm. Gustafson
 APPROVED BY CH. J. J. J.

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS			MANUFACTURER		TYPE	STROKE LENGTH	LAST CASING SIZE		LAST CASING SET AT		DATE	WELL NAME	DATE	REPORT NO.
NO. 1			EMSCO		1200	14"	8 3/4		608		March 9 / 73	CITIES SERVICE T&E N 69	March 9 / 73	10
NO. 2			EMSCO		8175	12"	8 3/4		608			62028' 47" N. 121° 27' 32" W		
EACH EMPLOYEE MUST SIGN THIS BOOK														
TOUR NO. 1 MIDNIGHT TO 8 A.M.			HOURS		886		FOOTAGE		100		TOTAL DEPTH		986	
DRILLER			J. Pratt		8		FROM		FOOTAGE		HOURS ON BOTTOM		7 3/4	
DERRICK			R. Ennells		8		NO.		DRILLING STRING		BITS RUN NO.		1	
FLOOR			R. Cox		8		4		STANDS		45286		FT.	
FLOOR			P. Lewis		8		2		SINGLES		45286		FT.	
FLOOR					8		18		D.C.'S		529.75		FT.	
FLOOR					8		10		SUB		253		FT.	
FIREMAN					8		BIT		SUB		264		FT.	
MECHANIC					8		BIT OR C.B.				FT.		VISCOSITY	
INJURIES					8		KELLY IN		1722		FT.		R.P.M.	
					8		TOTAL		986.78		FT.		PUMP NO. 1	
					8								PUMP NO. 2	
					8								PUMP NO. 1	
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REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 <i>EMSCO</i>	<i>D300</i>	<i>12</i>
NO. 2 <i>D175</i>	<i>D175</i>	<i>12</i>

LAST CASING SIZE	LAST CASING SET AT
<i>8 3/4</i>	<i>617'</i>

DATE *March 8/73*

WELL NAME *CITIES SERVICE JOE W 17*

DATE *March 8/73*

REPORT NO. *9*

PLEASE SHOW FOOTAGE MADE WHILE
"CONTROL DRILLING" AS WELL AS HOURS

AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

EACH EMPLOYEE MUST SIGN THIS BOOK
TOUR NO. 1 MIDNIGHT TO 8 A.M. HOURS

DRILLER <i>J. Proff</i>	<i>8</i>
DERRICK <i>R. Ewald</i>	<i>4</i>
FLOOR <i>R. Cox</i>	<i>8</i>
FLOOR <i>J. Bond</i>	<i>4</i>
FLOOR	
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREE		
659		659			18-6 1/4	48m											
NO.	DRILLING STRING	BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
1	STANDS	9281	FT.	1	7 7/8	2-11 1-12	51578	XIG	20	66	617	659	42	1/2			
	SINGLES		FT.														
18	D.C.'S	6 1/4	529.75 FT.														
1	SUB	10	252	FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS				
1	SUB	BIT	264	FT.	WEIGHT		8.4	8.4									
	BIT OR C.B.			FT.	VISCOSITY		35	35	ADDITIVES								
				FT.	PUMP PRESSURE				2700 psi								
	KELLY IN	32.00	FT.	R.P.M. PUMP NO. 1					1 psi DR. 68								
				R.P.M. PUMP NO. 2	on TANKS												
TOTAL	659.73	FT.	PUMP NO. 1 LINER SIZE	5"	PUMP NO. 2 LINER SIZE	5"											

REMARKS	START	STOP	INT. VAL.
<i>RIG SER -</i>	<i>11:00</i>		
<i>CHK Bags</i>	<i>12:15</i>	<i>8:00</i>	<i>1/4</i>
<i>WAIT FOR REPAIRS</i>	<i>12:15</i>	<i>8:00</i>	<i>7 3/4</i>

DRILLER <i>A. Smith</i>	<i>8</i>
DERRICK <i>A. Gibson</i>	<i>8</i>
FLOOR <i>E. Brogny</i>	<i>8</i>
FLOOR <i>B. Czaj</i>	<i>8</i>
FLOOR <i>P. Lewis</i>	<i>9</i>
FIREMAN	
MECHANIC	
INJURIES	

FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM		DRILL PIPE WEIGHT		NO. AND SIZE OF D.C.'S		D.C. WEIGHT		TRIPS		NO OF LINES		TOTAL TON MILES		LINE CUT FEET		AT MILES		FEET LEFT ON SPOOL		DATE OF LAST CUT		AT SURVEYS DEGREES							
657		107		764		5 1/4		Shung 48,000		18-6 1/4		48,000				8		5325		90'		4945		199'		1/25/73									
NO.	DRILLING STRING			BITS RUN NO.		SIZE		NOZZLE SIZE		SERIAL NO.		TYPE		WEIGHT		RPM		FOOTAGE FROM		FOOTAGE TO		FOOTAGE		HOURS		CORED FROM		CORED TO		REAMED FROM		REAMED TO		CONDIT ION	
2	STANDS			FT.		1		7 7/8		2-11 1-12		51578		XIG		30		120		617		764		141		5 3/4								Only	
1	SINGLES			217.66 FT.										35		95																			
18	D.C.'S			529.75 FT.																															
1	SUB 9%			253 FT.		MUD		8 A.M.		10 A.M.		12 NOON		2 P.M.		WATER LOSS		FILTER CAKE		PH		GENERAL REMARKS													
1	SUB Bit			264 FT.		WEIGHT								8.6																					
	BIT OR C.B.			FT.		VISCOSITY								28		ADDITIVES		Gel-700#																	
				FT.		PUMP PRESSURE								900		D-68-																			
	KELLY IN			12.00 FT.		R.P.M. PUMP NO.1								68		D-Foam-2gal																			
						R.P.M. PUMP NO.2																													
TOTAL				764.58 FT.		PUMP NO. 1 LINER SIZE		5"		PUMP NO. 2 LINER SIZE		5"																							

REMARKS	START	STOP	INT. VAL.
<i>Wait on rotary clutch</i>	<i>8:40</i>	<i>8:30</i>	<i>1/2</i>
<i>Replace rotary clutch</i>	<i>8:30</i>	<i>9:30</i>	<i>1</i>
<i>Back belly back & run in</i>	<i>9:30</i>		
<i>std of pipe, pick up belly</i>			
<i>& break wire</i>		<i>10:15</i>	<i>3/4</i>
<i>Drilling 7 7/8 hole</i>	<i>10:15</i>	<i>12:45</i>	<i>2 1/2</i>
<i>Tighten belly sack</i>	<i>12:45</i>	<i>1:15</i>	<i>1/2</i>
<i>Drilling 7 7/8 hole</i>	<i>1:15</i>	<i>4:00</i>	<i>2 3/4</i>

DRILLER <i>D.L. HIRONDELLE</i>	<i>8</i>
DERRICK <i>R. BARDENHAGEN</i>	<i>8</i>
FLOOR <i>A. Mc.Gillis</i>	<i>8</i>
FLOOR <i>D. WACHTER</i>	<i>8</i>
FLOOR	
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES	
764	122	886	7 1/2	50.000	18-6 1/4	48.000		8	5325	90'	4945	199'	1/25/73		783	BULLSEYE	
NO.	DRILLING STRING	BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDIT-ION
1	STANDS		FT.	1	7 7/8	2-11	51578	XIG	32	95	617	886	269	13 1/4			
3	SINGLES		311.15 FT.														
18	D.C.'S	6 1/4	529.75 FT.														
	SUB	%	2.53 FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS					
	SUB		2.64 FT.	WEIGHT		8.7	8.7	8.8									
	BIT OR C.B.		FT.	VISCOSITY		27	30	32	ADDITIVES	GEL-2100 #							
			FT.	PUMP PRESSURE		900	900	900									
	KELLY IN	41	FT.	R.P.M. PUMP NO.1				70									
				R.P.M. PUMP NO.2													
TOTAL			886	FT.	PUMP NO. 1 LINER SIZE	5"	PUMP NO. 2 LINER SIZE	5"									

REMARKS	START	STOP	INT. VAL.
<i>DRILL 7 7/8 HOLE</i>	<i>4:00</i>	<i>5:30</i>	<i>1 1/2</i>
<i>CIRC. & SURVEY</i>	<i>5:30</i>	<i>6:00</i>	<i>1/2</i>
<i>DRILL 7 7/8 HOLE</i>	<i>6:00</i>	<i>12:00</i>	<i>6</i>

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPIED	FOOTAGE DRILLED SINCE LAST SONOSCOPIED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
<i>B.O.P.'S TESTED</i>		<i>ELAPSED TIME</i>		<i>PRESSURE</i>	<i>RESULTS</i>	<i>TOTCO RING ON BIT NO.</i>	<i>YES.</i>	

TOOLPUSHER *Wm Gustafson*
APPROVED BY *Cliff Jasman*

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS			MANUFACTURER		TYPE		STROKE LENGTH	
NO. 1								
NO. 2								
EACH EMPLOYEE MUST SIGN THIS BOOK								
TOUR NO. 1 MIDNIGHT TO 8 A.M.			HOURS					
DRILLER 2 Photo			12					
DERRICK Ron Enault			12					
FLOOR A Cox			12					
FLOOR 2 Bond			12					
FLOOR								
FIREMAN								
MECHANIC								
INJURIES								
TOUR NO. 2 8 A.M. TO 4 P.M.			HOURS					
DRILLER H. Smith			9					
DERRICK H. Gibson			9					
FLOOR E. Brogan			8					
FLOOR B. Grey			8					
FLOOR								
FIREMAN								
MECHANIC								
INJURIES								
TOUR NO. 3 4 P.M. TO MIDNIGHT			HOURS					
DRILLER D.L. HIRONDELLE			8					
DERRICK R. BARDENHAGEN			8					
FLOOR A. McCallis			11					
FLOOR D. WACHTER			9					
FLOOR								
FIREMAN								
MECHANIC								
INJURIES								
DRILL PIPE SIZE			TYPE		TOTAL NO. OF JOINTS		DATE LAST SONOSCOPIED	
B.O.P.'S TESTED			ELAPSED TIME		PRESSURE		RESULTS	
							TOTCO RING ON BIT NO.	

DATE March 7/73 REPORT NO. 4

PLEASE SHOW FOOTAGE MADE WHILE
"CONTROL DRILLING" AS WELL AS HOURS
AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

REMARKS	START	STOP	INT. VAL.
HEAD UP	12:00	8:00	8
Pressure up blind ram's to 800 PSI O.K.			
CHECK P.P. Ram's to 950 PSI O.K.			
CHECK Hyd. to 1200 PSI O.K.			
CHECK motor shut off's O.K.			
K.B. TO C.F. 12.30			
Pressure up	8:00	11:00	3
Pressure up blind ram's to 800 PSI. Hold O.K. Pressure up to manifold to 800 PSI. Hold O.K.			
Checked motor shut off's O.K.			
Pick up 1 std of collar, run in hole & break top single off & make up bit sub & fish tail bit & dig mouse hole w/ steam.	12:00		1
Top Cement @ 565"			
HEAD UP	4:00	5:00	1
RUN IN D.C. ONE SINGLE	5:00		
PRESSURE UP PIPE RAM AND HYDRILL TO 1000 PSI. O.K.			
W/O HYDRILL LINES			
DRILL FLOAT CEMENT AND SHOE	8:00	9:45	1 3/4
TIGHTEN SWEHILL	9:45	10:00	1/4
DRILL 7/8 HOLE	10:00	10:30	1/2
W/O 9" POTTERY CLUTCH	10:30	12:00	12:00

TOOLPUSHER Wm Davidson

APPROVED BY Cliff Jansen

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 <i>EMSCO</i>	<i>8000</i>	
NO. 2 <i>EMSCO</i>	<i>175</i>	

LAST CASING SIZE LAST CASING SET AT

DATE *March 6/73*

WELL NAME *CITY SERVICE T&E N 69*

DATE *March 6/73*

REPORT NO. *7*

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M. HOURS

DRILLER *J. Pratt* *13*

DERRICK *R. Earned* *13*

FLOOR *R. Cox* *13*

FLOOR *B. Birch* *5*

FLOOR *T. Bond* *9*

FIREMAN

MECHANIC

INJURIES *B. Birch*

Slipped walking across

Floor + felt on Kelly Bushings

Hurt lower back

TOUR NO. 2 8 A.M. TO 4 P.M. HOURS

DRILLER *H. Smith* *9*

DERRICK *H. Gibson* *9*

FLOOR *E. Brongey* *9*

FLOOR *B. Gray* *9*

FLOOR

FIREMAN

MECHANIC

INJURIES

TOUR NO. 3 4 P.M. TO MIDNIGHT HOURS

DRILLER *Don L. H. Andelle* *12*

DERRICK *R. Barden Hagen* *12*

FLOOR *A. Mc. Gillis* *12*

FLOOR *D. Wächter* *12*

FLOOR

FIREMAN

MECHANIC

INJURIES

DRILL PIPE SIZE

TYPE

B.O.P.'S TESTED

FROM FOOTAGE TOTAL DEPTH HOURS ON BOTTOM DRILL PIPE WEIGHT NO. AND SIZE OF D.C.'S D.C. WEIGHT TRIPS NO. OF LINES TOTAL TON MILES LINE CUT FEET AT MILES FEET LEFT ON SPOOL DATE OF LAST CUT AT SURVEYS DEGREES

NO. DRILLING STRING BITS RUN NO. SIZE NOZZLE SIZE SERIAL NO. TYPE WEIGHT RPM FOOTAGE FROM FOOTAGE TO FOOTAGE HOURS CORED FROM CORED TO REAMED FROM REAMED TO CONDIT-ION

STANDS FT. 1 12 1/4 60 50123 0583 25 160 0 617 617 23 1/2

2 SINGLES 62.68 FT. 12 1/4 60 50123 0583 25 160 0 617 617 23 1/2

18 D.C.'S 529.75 FT. 12 1/4 60 50123 0583 25 160 0 617 617 23 1/2

10 SUB 2.53 FT. MUD 12 MID. 2 A.M. 4 A.M. 6 P.M. WATER LOSS FILTER CAKE PH GENERAL REMARKS

10 SUB 2.95 FT. WEIGHT 10.6

BIT OR C.B. 1.00 FT. VISCOSITY 65 76 78 ADDITIVES

10 1.60 FT. PUMP PRESSURE

KELLY IN 17 1/4 FT. R.P.M. PUMP NO. 1

R.P.M. PUMP NO. 2

TOTAL 617.00 FT. PUMP NO. 1 LINER SIZE 7 1/2 PUMP NO. 2 LINER SIZE 5"

FROM FOOTAGE TOTAL DEPTH HOURS ON BOTTOM DRILL PIPE WEIGHT NO. AND SIZE OF D.C.'S D.C. WEIGHT TRIPS NO. OF LINES TOTAL TON MILES LINE CUT FEET AT MILES FEET LEFT ON SPOOL DATE OF LAST CUT AT SURVEYS DEGREES

NO. DRILLING STRING BITS RUN NO. SIZE NOZZLE SIZE SERIAL NO. TYPE WEIGHT RPM FOOTAGE FROM FOOTAGE TO FOOTAGE HOURS CORED FROM CORED TO REAMED FROM REAMED TO CONDIT-ION

STANDS FT. SINGLES FT. D.C.'S FT. SUB FT. MUD 8 A.M. 10 A.M. 12 NOON 2 P.M. WATER LOSS FILTER CAKE PH GENERAL REMARKS

SUB FT. WEIGHT

BIT OR C.B. FT. VISCOSITY ADDITIVES

FT. PUMP PRESSURE

FT. R.P.M. PUMP NO. 1

R.P.M. PUMP NO. 2

TOTAL FT. PUMP NO. 1 LINER SIZE PUMP NO. 2 LINER SIZE

FROM FOOTAGE TOTAL DEPTH HOURS ON BOTTOM DRILL PIPE WEIGHT NO. AND SIZE OF D.C.'S D.C. WEIGHT TRIPS NO. OF LINES TOTAL TON MILES LINE CUT FEET AT MILES FEET LEFT ON SPOOL DATE OF LAST CUT AT SURVEYS DEGREES

NO. DRILLING STRING BITS RUN NO. SIZE NOZZLE SIZE SERIAL NO. TYPE WEIGHT RPM FOOTAGE FROM FOOTAGE TO FOOTAGE HOURS CORED FROM CORED TO REAMED FROM REAMED TO CONDIT-ION

STANDS FT. SINGLES FT. D.C.'S FT. SUB FT. MUD 4 P.M. 6 P.M. 8 P.M. 10 P.M. WATER LOSS FILTER CAKE PH GENERAL REMARKS

SUB FT. WEIGHT

BIT OR C.B. FT. VISCOSITY ADDITIVES

FT. PUMP PRESSURE

FT. R.P.M. PUMP NO. 1

R.P.M. PUMP NO. 2

TOTAL 617.00 FT. PUMP NO. 1 LINER SIZE PUMP NO. 2 LINER SIZE

DATE LAST SONOSCOPIED

FOOTAGE DRILLED SINCE LAST SONOSCOPIED

TOTAL FOOTAGE DRILLED

LAST CALIPER DATE

RESULTS

CODE LETTER OF STRING

ELAPSED TIME

PRESSURE

RESULTS

TOTAL RING ON BIT NO.

REMARKS

TIME START STOP INT VAL

DRILL 12:00 1:00 1

Pipe to card hole 1:00 1:15 1/4

Dummy Trip + Double measure 1:15 3:00 13 1/4

Rig set 3:00 3:15 1/4

Break pipe + clean to bit 3:15 3:30 1/4

DRILL 3:30 6:45 23 1/4

Circ 6:15 6:45 1/4

Trip to Run csg 6:45 8:00 1 1/4

REMARKS

Finish pulling out 8:00 8:30 1/2

Rig up to run csg. 8:30 9:30 1

Run csg. 9:30 12:30 3

Circ csg 12:30 1:15 3/4

Cement csg Plug DN @ 2:00 1:15 2:00 3/4

W.D.E. 2:00 4:00 2

REMARKS

CLEAN MUD TANKS 4:00

CHANGE HEADS & LINERS

IN D-300

SLAKE OFF CASING 10:00 7

Pick up B.O.P. 0:00 12:00 2

REMARKS

K.B TO Gnd 13:50

K.B TO C.F 12:30

TOOLPUSHER *Wm Gustafson*

APPROVED BY *Chiff J. J. J.*

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS			LAST CASING SIZE		LAST CASING SET AT		DATE		WELL NAME		DATE		REPORT NO.	
MANUFACTURER	TYPE	STROKE LENGTH												
NO. 1	EP-100	12					MARCH 5 73		CITY SERVICE JOE N-19		MARCH 5/73		6	
NO. 2	EP-100	12												
EACH EMPLOYEE MUST SIGN THIS BOOK			RIG NO.		LOCATION		LSD.		SEC.		TWP.		RGE.	
TOUR NO. 1 MIDNIGHT TO 8 A.M.			HOURS		FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM		DRILL PIPE WEIGHT	
DRILLER T. MARTO			8		2 1/8		62		310		3		20	
DERRICK R. FINE			8											
FLOOR R. COX			8											
FLOOR R. BIRCH			8											
FLOOR														
FIREMAN														
MECHANIC														
INJURIES														
TOTAL			3 10 13											
TOUR NO. 2 8 A.M. TO 4 P.M.			HOURS		FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM		DRILL PIPE WEIGHT	
DRILLER H. Smith			8		310		154		464		7 1/4		42,000	
DERRICK H. Gibson			8											
FLOOR E. Brogny			8											
FLOOR R. Cox			4											
FLOOR														
FIREMAN														
MECHANIC														
INJURIES														
TOTAL			464.89											
TOUR NO. 3 4 P.M. TO MIDNIGHT			HOURS		FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM		DRILL PIPE WEIGHT	
DRILLER DONALD HIRANDELLE			8		464		84		548		6		48,000	
DERRICK R. BARDENHAGEN			8											
FLOOR A. McGILLIS			8											
FLOOR D. WACHTER			8 1/2											
FLOOR														
FIREMAN														
MECHANIC														
INJURIES														
TOTAL			548											
DRILL PIPE SIZE			TYPE		TOTAL NO. OF JOINTS		DATE LAST SONOSCOPED		FOOTAGE DRILLED SINCE LAST SONOSCOPED		TOTAL FOOTAGE DRILLED		LAST CALIPER DATE	
B.O.P.'S TESTED			ELAPSED TIME		PRESSURE		RESULTS		TOTCO RING ON BIT NO.		RESULTS		CODE LETTER OF STRING	

REMARKS

AG SER

CLAY To Clean hole

REBACK SWIRL

WALK ON 300

BREAK PIPE - MAKE FOR FLUOR

SHORRY

DRILL

CHANGE To 2nd Pump

DRILL

TIME

START STOP INT VAL

12:00 12:15 1/4 ✓

12:15 12:45 1/2

12:45 1:15 2

1:15 1:30 3/4

1:30 1:45 1/2 ✓

1:45 2:00 1/4 ✓

2:00 2:15 1/4

2:15 2:30 2 3/4

REMARKS

Survey @ 310' & High down

Drilling 12 1/4 hole

Survey @ 368'

Drilling 12 1/4 hole

Survey @ 428' Bullseye

Drilling 12 1/4 hole

TIME

START STOP INT VAL

8:00 8:15 1/4 ✓

8:15 8:30 4 1/2

8:30 8:45 1/4 ✓

8:45 9:00 1 3/4

9:00 9:15 1/4 ✓

9:15 9:30 1 1/4

REMARKS

DRILL 12 1/4 HOLE

CON. SURVEY

TIME

START STOP INT VAL

4:00 4:15 3/4

4:15 4:30 1/2

4:30 4:45 1

4:45 5:00 5 1/4

5:00 5:15 1/2 ✓

TOOLPUSHER Wm Gustafson

APPROVED BY Cliff Jansen

TOOLPUSHER

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

MANUFACTURER		TYPE	STROKE LENGTH
No. 1			
No. 2			
EACH EMPLOYEE MUST SIGN THIS BOOK			
TOUR NO. 1 MIDNIGHT TO 8 A.M.			
DRILLER	J Pratt	8	
DERRICK	H Earned	8	
FLOOR	R Cox	8	
FLOOR	R Sankosh	8	
FLOOR			
FIREMAN			
MECHANIC			
INJURIES			
TOUR NO. 2 8 A.M. TO 4 P.M.			
DRILLER	H. Smith	9	
DERRICK	H. Gibson	9	
FLOOR	E. Krozy	9	
FLOOR	D. Halper	8	
FLOOR	B. Birch	8	
FLOOR			
FIREMAN			
MECHANIC			
INJURIES			
TOUR NO. 3 4 P.M. TO MIDNIGHT			
DRILLER	D. WHIRONDELLE	8	
DERRICK	R. BARDENHAGEN	8	
FLOOR	A. MC GILLS	8	
FLOOR	D. WACHTER	8	
FLOOR			
FIREMAN			
MECHANIC			
INJURIES			
TOOLPUSHER			

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS			MANUFACTURER		TYPE		STROKE LENGTH	
NO. 1								
NO. 2								
EACH EMPLOYEE MUST SIGN THIS BOOK			LAST CASING SIZE		LAST CASING SET AT		DATE <u>March 3/73</u>	
TOUR NO. 1 MIDNIGHT TO 8 A.M.			RIG NO. <u>29-H</u>		LOCATION LSD. _____ SEC. _____ TWP. _____ RGE. _____		WELL NAME <u>City Service I.O.E. N-69</u>	
HOURS			FROM		FOOTAGE		TOTAL DEPTH	
DRILLER <u>J. Prato</u>			12					
DERRICK <u>R. Ewald</u>			12					
FLOOR <u>R. Cox</u>			12					
FLOOR <u>R. Lambrecht</u>			8					
FLOOR								
FIREMAN								
MECHANIC								
INJURIES								
TOUR NO. 2 8 A.M. TO 4 P.M.			HOURS		FROM		FOOTAGE	
DRILLER <u>H. Smith</u>			12					
DERRICK <u>H. Gibson</u>			12					
FLOOR <u>E. Brody</u>			12					
FLOOR <u>D. Kelly</u>			12					
FLOOR <u>B. Buel</u>			13					
FLOOR								
FIREMAN								
MECHANIC								
INJURIES								
TOUR NO. 3 4 P.M. TO MIDNIGHT			HOURS		FROM		FOOTAGE	
DRILLER <u>Dee L. HIRSHDELLE</u>			12					
DERRICK <u>Edgar DeHagen</u>			12					
FLOOR <u>A. McGILLIS</u>			12					
FLOOR <u>D. WACHTER</u>			12					
FLOOR								
FIREMAN								
MECHANIC								
INJURIES								
DRILL PIPE SIZE			TYPE		TOTAL NO. OF JOINTS		DATE LAST SONOSCOPIED	
B.O.P.'S TESTED			ELAPSED TIME		PRESSURE		RESULTS	
TOOLPUSHER <u>Wm Gustafson</u>			APPROVED BY		TOTCO RING ON BIT NO.			

DATE March 3/73 REPORT NO. 4

PLEASE SHOW FOOTAGE MADE WHILE
"CONTROL DRILLING" AS WELL AS HOURS
AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

REMARKS	TIME	START	STOP	INT VAL
<u>Rig up</u>	<u>12⁰⁰</u>	<u>12⁰⁰</u>	<u>12</u>	
<u>Rig up & pick up 1 D.C. 8:00</u>				
<u>& swirl & belly & rack</u>				
<u>belly rack back in</u>				
<u>derrick.</u>	<u>8:00</u>	<u>12</u>		
<u>Work on HyDILL LINE</u>	<u>12:00</u>			
<u>SET LINGS CIRC. IN MUD</u>				
<u>TRY TO GET RAT HOLE</u>				
<u>STEAM</u>	<u>12:00</u>			
<u>AND KELLY</u>				

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS			MANUFACTURER		TYPE		STROKE LENGTH	
NO. 1								
NO. 2								
EACH EMPLOYEE MUST SIGN THIS BOOK			LAST CASING SIZE		LAST CASING SET AT		DATE <u>Mar 2/73</u>	
TOUR NO. 1 MIDNIGHT TO 8 A.M.			RIG NO. <u>29-H</u>		LOCATION LSD. _____ SEC. _____ TWP. _____ RGE. _____		WELL NAME <u>City Service S.O.E. N-69</u>	
HOURS			FROM		FOOTAGE		TOTAL DEPTH	
DRILLER <u>J. Prato</u> 9			NO.		DRILLING STRING		BITS RUN NO.	
DERRICK <u>R. Ernold</u> 9			STANDS		FT.		SIZE	
FLOOR <u>R. Cox</u> 9			SINGLES		FT.		NOZZLE SIZE	
FLOOR <u>R. Dombrowski</u> 9			D.C.'S		FT.		SERIAL NO.	
FLOOR			SUB		FT.		TYPE	
FIREMAN			SUB		FT.		WEIGHT	
MECHANIC			BIT OR C.B.		FT.		RPM	
INJURIES			KELLY IN		FT.		PUMP NO. 1	
TOTAL			FT.		PUMP NO. 2		PUMP NO. 1 LINER SIZE	
TOUR NO. 2 8 A.M. TO 4 P.M.			HOURS		FROM		FOOTAGE	
DRILLER <u>H. Smith</u> 16			NO.		DRILLING STRING		BITS RUN NO.	
DERRICK <u>H. Gibson</u> 16			STANDS		FT.		SIZE	
FLOOR <u>E. Brozky</u> 15			SINGLES		FT.		NOZZLE SIZE	
FLOOR <u>D. Ralfer</u> 15			D.C.'S		FT.		SERIAL NO.	
FLOOR <u>B. Birch</u> 14			SUB		FT.		TYPE	
FIREMAN			SUB		FT.		WEIGHT	
MECHANIC			BIT OR C.B.		FT.		RPM	
INJURIES			KELLY IN		FT.		PUMP NO. 1	
TOTAL			FT.		PUMP NO. 2		PUMP NO. 1 LINER SIZE	
TOUR NO. 3 4 P.M. TO MIDNIGHT			HOURS		FROM		FOOTAGE	
DRILLER <u>D. R. Hironaka</u> 16			NO.		DRILLING STRING		BITS RUN NO.	
DERRICK <u>R. Bardenhagen</u> 16			STANDS		FT.		SIZE	
FLOOR <u>A. McElis</u> 16			SINGLES		FT.		NOZZLE SIZE	
FLOOR <u>H. Macbiter</u> 16			D.C.'S		FT.		SERIAL NO.	
FLOOR			SUB		FT.		TYPE	
FIREMAN			SUB		FT.		WEIGHT	
MECHANIC			BIT OR C.B.		FT.		RPM	
INJURIES			KELLY IN		FT.		PUMP NO. 1	
TOTAL			FT.		PUMP NO. 2		PUMP NO. 1 LINER SIZE	
DRILL PIPE SIZE			TYPE		TOTAL NO. OF JOINTS		DATE LAST SONOSCOPE	
B.O.P.'S TESTED			ELAPSED TIME		FOOTAGE DRILLED SINCE LAST SONOSCOPE		PRESSURE	
RESULTS			RESULTS		TOTAL FOOTAGE DRILLED		LAST CALIPER DATE	
TOOLPUSHER <u>Wm. Gustafson</u>			APPROVED BY		RESULTS		TOTCO RING ON BIT NO.	

DATE March 2/73 REPORT NO. 3

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

REMARKS Rigging up 8:00 5:14 9

REMARKS Rigging up 8:00 12:00 16

REMARKS Rigging up 8:00 12:00 16

REGENT DRILLING LIMITED

DAY WORK RECORD

PUMPS	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1			
NO. 2			

LAST CASING SIZE	LAST CASING SET AT

DATE Mar. 1st 1973
Feb 29 / 73
 RIG NO. 29-H

WELL NAME City Service IOE N-69
 LOCATION LSD. _____ SEC. _____ TWP. _____ RGE. _____

DATE March 1st 1973 REPORT NO. 2
 PLEASE SHOW FOOTAGE MADE WHILE
 "CONTROL DRILLING" AS WELL AS HOURS
 AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUNNERS, ETC.

EACH EMPLOYEE MUST SIGN THIS BOOK
 TOUR NO. 1 MIDNIGHT TO 8 A.M. HOURS

DRILLER <u>J Pratt</u>	10
DERRICK <u>R Esmeld</u>	10
FLOOR <u>R Cox</u>	10
FLOOR <u>R Lambrook</u>	10
FLOOR	
FIREMAN	
MECHANIC	
INJURIES	

RIS NO. _____																		LOCATION LSD. _____																		SEC. _____																		TWP. _____																		RGE. _____																	
FROM		FOOTAGE		TOTAL DEPTH		HOURS ON BOTTOM		DRILL PIPE WEIGHT		NO. AND SIZE OF D.C.'S		D.C. WEIGHT		TRIPS		NO OF LINES		TOTAL TON MILES		LINE CUT FEET		AT MILES		FEET LEFT ON SPOOL		DATE OF LAST CUT		AT SURVEYS		DEGREE																																																											
NO.	DRILLING STRING			BITS RUN NO.		SIZE	NOZZLE SIZE	SERIAL NO.		TYPE	WEIGHT	RPM		FOOTAGE FROM		FOOTAGE TO		FOOTAGE		HOURS		CORED FROM		CORED TO		REAMED FROM		REAM-ED TO		CONDIT-ION																																																											
	STANDS			FT.																																																																																					
	SINGLES			FT.																																																																																					
	D.C.'S			FT.																																																																																					
	SUB			FT.		MUD		12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS		FILTER CAKE		PH		GENERAL REMARKS																																																																							
	SUB			FT.		WEIGHT																																																																																			
	BIT OR C.B.			FT.		VISCOSITY						ADDITIVES																																																																													
				FT.		PUMP PRESSURE																																																																																			
	KELLY IN			FT.		R.P.M. PUMP NO.1																																																																																			
				FT.		R.P.M. PUMP NO.2																																																																																			
TOTAL				FT.		PUMP NO. 1 LINER SIZE				PUMP NO. 2 LINER SIZE																																																																															

REMARKS	START	STOP	INT VAL
<u>Rig up</u>	<u>8:00</u>	<u>6:00</u>	<u>10</u>

TOUR NO. 2
 8 A.M. TO 4 P.M. HOURS

DRILLER <u>H. Smith</u>	10
DERRICK <u>H. Gibson</u>	10
FLOOR <u>E. Brozhy</u>	10
FLOOR <u>D. Raffer</u>	10
FLOOR <u>B. Birch</u>	10
FIREMAN	
MECHANIC	
INJURIES	

FROM		FOOTAGE	TOTAL DEPTH	LINER SIZE		LINER SIZE		D.C. WEIGHT		TIMPS		NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREE	
NO.		DRILLING STRING		BITS RUN NO.		SIZE	NOZZLE SIZE	SERIAL NO.		TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAM-ED TO	CONDIT-ION
		STANDS		FT.																	
		SINGLES		FT.																	
		D.C.'S		FT.																	
		SUB		FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS								
		SUB		FT.	WEIGHT																
		BIT OR C.B.		FT.	VISCOSITY					ADDITIVES											
				FT.	PUMP PRESSURE																
		KELLY IN		FT.	R.P.M. PUMP NO.1																
				FT.	R.P.M. PUMP NO.2																
TOTAL				FT.	PUMP NO. 1 LINER SIZE	PUMP NO. 2 LINER SIZE															

REMARKS	START	STOP	INT VAL
<u>Rigging up</u>	<u>8:00</u>	<u>6:00</u>	<u>10</u>

TOUR NO. 3
 4 P.M. TO MIDNIGHT HOURS

DRILLER <u>Don L. Hirondelee</u>	40
DERRICK <u>Bob Barendse</u>	10
FLOOR <u>Art McGillis</u>	10
FLOOR <u>Dennis Wachter</u>	10
FLOOR	
FIREMAN	
MECHANIC	
INJURIES	

FROM		FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES		
NO.		DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDIT-ION
		STANDS	FT.																
		SINGLES	FT.																
		D.C.'S	FT.																
		SUB	FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
		SUB	FT.	WEIGHT															
		BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
			FT.	PUMP PRESSURE															
		KELLY IN	FT.	R.P.M. PUMP NO.1															
			FT.	R.P.M. PUMP NO.2															
TOTAL			FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE												

REMARKS	START	STOP	INT VAL
<u>Rigging up</u>	<u>4:00</u>	<u>6:00</u>	<u>10</u>

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
B.O.P.'S TESTED		ELAPSED TIME		PRESSURE	RESULTS	TOTCO RING ON BIT NO.		

TOOLPUSHER Wm Gustafson
 APPROVED BY _____

REGENT DRILLING LIMITED

WORK RECORD

DATE Feb 24 73 REPORT NO. 1

PUMPS	MANUFACTURER	TYPE	STROKE LENGTH
NO 1			
NO 2			

EACH EMPLOYEE MUST SIGN THIS BOOK
TOUR NO. 1 MIDNIGHT TO 8 A.M. HOURS

DRILLER
DERRICK
FLOOR
FLOOR
FLOOR
FIREMAN
MECHANIC
INJURIES

FROM		FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES		
NO.		DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDIT-ION
		STANDS	FT.																
		SINGLES	FT.																
		D.C.'S	FT.																
		SUB	FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
		SUB	FT.	WEIGHT															
		BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
			FT.	PUMP PRESSURE															
		KELLY IN	FT.	R.P.M. PUMP NO. 1															
				R.P.M. PUMP NO. 2															
TOTAL			FT.	PUMP NO. 1 LINER SIZE	PUMP NO. 2 LINER SIZE														

REMARKS
TIME
START STOP INT VAL

TOUR NO. 2
8 A.M. TO 4 P.M. HOURS

DRILLER H. Smith
DERRICK H. Gibson
FLOOR E. Beagly
FLOOR
FLOOR
FIREMAN
MECHANIC
INJURIES

FROM		FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES	
NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDIT ION
	STANDS		FT.															
	SINGLES		FT.															
	D C.'S		FT.															
	SUB		FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS						
	SUB		FT.	WEIGHT														
	BIT OR C.B.		FT.	VISCOSITY					ADDITIVES									
			FT.	PUMP PRESSURE														
	KELLY IN		FT.	R.P.M. PUMP NO.1														
				R.P.M. PUMP NO.2														
TOTAL			FT.	PUMP NO. 1 LINER SIZE	PUMP NO. 2 LINER SIZE													

REMARKS
8:45 4:00 8

TOUR NO. 3
4 P.M. TO MIDNIGHT HOURS

DRILLER Don L. H. Gaudin
DERRICK
FLOOR ART MC GILLIS
FLOOR DENNIS WACHTER
FLOOR
FIREMAN
MECHANIC
INJURIES

FROM		FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES		
NO.		DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDIT-ION
		STANDS	FT.																
		SINGLES	FT.																
		D.C.'S	FT.																
		SUB	FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
		SUB	FT.	WEIGHT															
		BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
			FT.	PUMP PRESSURE															
		KELLY IN	FT.	R.P.M. PUMP NO. 1															
				R.P.M. PUMP NO. 2															
TOTAL			FT.	PUMP NO. 1	PUMP NO. 2														

REMARKS
8:00 4:00 8

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPIED	FOOTAGE DRILLED SINCE LAST SONOSCOPIED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
B.O.P.'S TESTED	ELAPSED TIME	PRESSURE	RESULTS	TOTCO RING ON BIT NO.				

TOOLPUSHER Don L. H. Gaudin
APPROVED BY _____