

Amoco B-1 East

Flett H - 13

60-40-123-15-



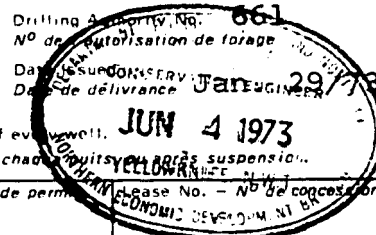
Well Name Nom du puits Amoco B-1 East Flett H-13		Drilling Authority No. Autorisation de forage n° 661	
Field/Area Gisement/Région		Date Issued Date d'émission Jan. 29, 1973	
Location Emplacement	Unit Unité H-13-60-40-123-15	Permit or Lease 6275	
Latitude 60°32'27.54"		Longitude 123°17'15"	
U.W.L.R. N.R.U.E.P. 60.54098 -- 123.28750			
U.W.I. No. N.I.P. No. 300H136040123150			
File Microfilmed		Rig. Release Date Date de transfert de la tour de forage 24-2-73	
Tour Sheets, Microfilmed		Status Statut D+A	
		Information Release Date Date de publication autorisée des informations 24-2-75	

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

INDEX	DATE RECEIVED RECU LE		INDEX
Application for a Drilling Authority	08-02-73	K	Demande d'autorisation de forage
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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
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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	5-11-73	W20	Renseignements sur le forage d'un puits
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Data for Back Pressure Test on Natural Gas Wells			Données de calcul de la capacité de production d'un puits de gaz naturel — Méthode graphique n° 7
Data for Back Pressure Test on Natural Gas Wells			Données de calcul de la capacité de production d'un puits de gaz naturel — Méthode de Vitter
M.P.R. — Oil — Calculations			Calcul du T.M.P. (Taux maximal de production) de pétrole
New Oil Well Report			Rapport sur un nouveau puits de pétrole
New Gas Well Report			Rapport sur un nouveau puits de gaz naturel
Well Inspection Report			Rapport d'inspection de l'emplacement d'un puits
Rig Inspection Report			Rapport d'inspection d'une tour de forage
Battery Inspection Report			Rapport d'inspection d'une batterie de puits
Equipment Report			Rapport d'inspection des compteurs
Well Card	1-11-73	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

DATE RECEIVED RECU LE					
	LOGS: DIAGRAMMES				
	NAME Nom	Type	Run No. Nº du sondage	Interval Intervalle	
	ANALYSES:				
	Sample Échantillon	Lab. No. Lab. nº	Formation	Interval Intervalle	
	A.O.F. Potential Débit maximal absolu d'un puits	Formation	Interval Intervalle	MC.F/D. M.P.C./jour	Test Date Date du test
	DRILL STEM TESTS: — ESSAIS AUX TIGES				
	Nº. NO	Formation	Interval Intervalle		

WELL COMPLETION DATA
RENSEIGNEMENTS SUR LES FORAGES



To be submitted in duplicate within thirty days after the completion, rework, abandonment, recompletion or suspension of 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 AMOCO B-1 EAST FLETT H-13	Permit No. - N° de permis 6275
(Permittee, Licensee, Lessee) - (Défendeur de permis ou de licence, du concessionnaire) AMOCO CANADA PETROLEUM COMPANY LTD.	Exploratory Licence No. - N° de licence de sondage 1465
(Operator) - (Exécutant) AMOCO CANADA PETROLEUM COMPANY LTD.	Exploratory Licence No. - N° de licence de sondage 1465

LOCATION - EMPLACEMENT				
Unit - Unité H	Section 13	Grid - Étendue quadrillée 60-40-123-15	Latitude 60° 32' 27.54"	Longitude 123° 17' 15"
Unique Well Identifier - Code d'ordinateur 300H136040123150			Universal Well Location Reference - Références universelles d'emplacement du puits Lat. 60.54098 N. Long. 123.28750 W.	

	Date	Depth - Profondeur	Pool(s) Gisement(s)
Spudded Début des travaux	Feb. 16/73		NIL
Suspended Suspension des travaux			Intervals Open to Production Intervalles de production
Resumed Operations Reprise des travaux			NIL
Finished Drilling Forage terminé	Feb. 22/73	2910'	
Deepened Approfondissement			
Complete (Gas/Oil) Achèvement (Gaz/Pétrole)			Elevation: Gr. 1000 K.B. 1011.6 Altitude du sol du carré d'entraînement
Abandoned Abandon	Feb. 24/73		Rig No. 11 Drilling Contractor HiTower Drilling N° de la tour de forage Entrepreneur en forage
Rig Released Fin des travaux	Feb. 24/73		Contractor's Business Licence No. N° du permis de l'entrepreneur

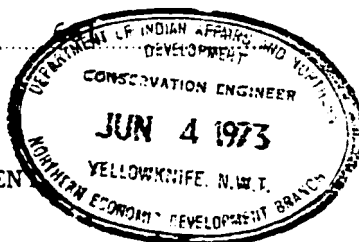
CASING RECORD - TUBAGE					
Casing Size (Inches) Diamètre (en pouces)	Grade Qualité	Weight Poids	Amount Longeur	Set at - Fixation à	Sacks of Cement and Additives Sacs de ciment et d'additifs
1. 19"	NA	16#/ft	1 JT	30	45 sxs neat+3%CACL2
2. 8 5/8"	K-55	24#/ft	14 JT	597	500 sxs neat+3%CACL2
3.					
4.					
5.					
6.					

Geological Tops Sommet des formations	Elevation - Profondeur		Core Record - Carottes					
	Depths Sous le niveau du sol	Sub-Sea Sous le niveau de la mer	From - de	To - à	Rec. Références	From - de	To - à	Rec. Recup.
Cretaceous				Nil				
Ft. St. John	Surface							
Pennsylvanian								
Mattson	Not Present							
Mississippian								
Carbonate	1209	-197						

Log Record - Diagrammes			
Run Série	Type of Log Genre de diagramme	From - De	To - À
1	DIL	2904	599
1	BHCS-GR-CAL	2909	599
1	SND-GR-CAL	2909	1150



Drilling Authority No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

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

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

Name and number of well..... Amoco B-1 East Flett H-13
Location: Unit..... H..... Section..... 13..... Grid..... 60-40-123-15
Latitude..... 60° 32' 54"..... Longitude..... 123° 17' 15"
~~From Established Reference Marker~~ Unique Well Identifier..... 300H136040123150
Universal Well Location Reference..... Lat. 60.54098° N. Long. 123.28750° W.
Permit No..... 6275..... Lease No.....

Amoco Canada Petroleum Company Ltd.
(Permittee, Licencee, Lessee)

Date of commencement of proposed program.....

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at.....
Gas at.....
Water at.....
Total Depth..... 2910..... Date of last operations..... February 24, 1973
Present condition of well.....

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 19"	NA	1 JT	30	45 sxs neat + 3%CACL2	
2. 8 5/8"	24#	14 JTS	597	500 sxs neat + 3%CACL2	
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
1	2910-2810		54 neat	no feel
2	650-550		48 neat+3%CACL2	feel at 498'
3	surface		5 neat	

The following logs have been run... DIL, BHCS-GR-CAL and SNP-GR-CAL

Other operations proposed.....

Operations to be carried out by..... HiTower Drilling..... Contractor Licence No.....
Address..... 10574-100 St., Ft. St. John, B.C..... Address.....
Responsible Agent in field..... Amoco Canada Northern Area
Dated at..... Edmonton, Alberta..... this 29..... Day of..... May..... 1973
Signed by..... J.W. SAVAGE..... Company..... Amoco Canada Petroleum Co.Ltd.
Title..... Supervisor-in-Charge..... Operator's Exploratory Licence No. 1465

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:

Confirming oral approval given February 23, 1973

Dated.....

19 73

District Conservation Engineer



N° de l'autorisation de forage.

MINISTÈRE DES AFFAIRES INDIENNES ET DU NORD CANADIEN
DIVISION DU PÉTROLE ET DES MINÉRAUX

Demande d'abandon d'un puits ou de suspension du forage

Conformément au «Règlement sur les terres pétrolifères et gazifères du Canada», nous demandons l'autorisation d'abandonner le puits ci-après ou de suspendre les travaux de forage

Nom et n° du puits
Emplacement: Unité..... Section..... Étendue quadrillée.....
Latitude..... Longitude.....
Code d'ordinateur.....
Références universelles d'emplacement du puits.....
N° de permis..... N° de concession.....

(Défendeur de permis ou de licence, ou concessionnaire)

Date du début d'exécution du programme projeté.....
PÉTROLE, GAZ ET EAU
(Profondeur)

Pétrole à.....
Gaz à.....
Eau à.....
Profondeur globale..... Date des derniers travaux.....
État actuel du puits.....

TUBAGE

Diamètre extérieur (en pouces)	Poids	Longueur	Fixation à	Sacs de ciment et d'additifs	Longueur récupérée
1.....					
2.....					
3.....					
4.....					
5.....					

PROGRAMME D'ABANDON PROJETÉ

Bouchon		Formation géologique	Nombre de sacs de ciment	Remarques
N°	Profondeur			
.....				
.....				
.....				
.....				
.....				
.....				
.....				
.....				
.....				

Les diagrammes suivants ont été tracés:.....
Autres travaux projetés.....

Les travaux seront exécutés par..... N° de permis de l'entrepreneur.....
Adresse..... Adresse.....
Agent extérieur responsable.....
Fait à..... le..... 19.....
Signé par..... Société.....
Titre..... N° de licence de sondage de l'exécutant.....

Nota: Aviser le bureau de l'ingénieur en conservation du district avant de commencer les travaux
(A l'usage de la Division du pétrole et des minéraux)

APPROBATION

Demande étudiée et programme approuvé, sous réserve des conditions suivantes:

Date....., 19.....
Ingénieur en conservation du district

Présenter les formulaires en triple exemplaire à l'ingénieur en conservation du district
ministère des Affaires indiennes et du Nord canadien.



CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

Application for a Drilling Authority

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

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

Name and number of well ... Amoco B-1 East Flett H-13

Location: Unit ... H ... Section ... 13 ... Grid 60-40-123-15 ...
 Latitude ... 60°32'27.54" ... Longitude ... 123°17'15" ...
 Unique Well Identifier ... 300H136040123150 ...
 Universal Well Location Reference ... Lat. 60.54098° N., Long. 123.28750° W.

Elevation: Ground ... 1000' ... K.B. ... N/A ... feet above sea-level.
 Well is expected to produce from ... Mattson Sand ... formation at a depth
 of about ... 1400 ... feet. Expected total final depth ... 3000 ft.
 Area assigned to well ... Exploratory
 (for District Conservation Engineer's use only)

Permit No. ... 6275 ... Lease No. ... -- ... Acreage ... 62,89 ...
 Permittee, licensee, or lessee ... Amoco Canada Petroleum Company Limited ...
 Exploratory Licence No. ... 1465 ...
 Surface owned by 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	0 - 600	To surface
2. ... 5 1/2	17	K-55	New	0 - 3000	As Required
3. ... Cementing of the 5 1/2" casing to be approved by the Oil Conservation					
4. ... Engineer before the casing is run.					
5. ...					

Expected water, gas, and oil horizons and type of control equipment ...
 Mattson Sand (Oil)
 Drilling mud and blowout preventors ...
 1. Hydril & 1 double gate shaeffer hydril with remote control.
 Well will be drilled with Rotary Rig No. ... 1 ... by ... Hitower Drilling ...
 (Drilling Contractor or company)

7th Floor 630 - 6 Avenue S. W., Calgary, Alta.

Responsible agent of applicant:— Contractor's Business Licence No. ...
 At well ... A. F. Holan ... At registered office ... Same ...
 Address 9916A - Richmond Ave. G. P. Address ... Same ...
 It is understood that if changes become necessary, notice of the change of plan will be submitted.
 Dated at ... Grande Prairie ... this ... 22 ... day of ... January ... 19 73.
 Signed by ... [Signature] ... Company Amoco Canada Petroleum Co. Ltd.
 Title ... Area Superintendent ... Operator's Licence No. ... 1465 ...

(For Oil and Mineral Division use only)

APPROVED

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

Please see attached Conditions of Approval.

Dated Jan 22 19 73 [Signature] District Conservation Engineer

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

LAND 52-90-1 (8-71)



Voir au verso



CANADA

MINISTÈRE DES AFFAIRES INDIENNES ET DU NORD CANADIEN
DIVISION DU PÉTROLE ET DES MINÉRAUX

Demande d'autorisation de forage

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

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

Nom et n° du puits

Emplacement: Unité Section Étendue quadrillée

Latitude Longitude

Code d'ordinateur

Références universelles d'emplacement du puits.

Élévation: du sol du carré d'entraînement pieds au-dessus du niveau de la mer

Production prévue quand les tiges atteindront la formation à une profondeur approximative de

..... pieds. Profondeur totale prévue.

Superficie assignée au puits
(à l'usage de l'ingénieur en conservation du district)

N° de permis N° de concession Superficie

Détenteur de permis ou de licence, ou concessionnaire

N° de permis de prospection

Terres appartenant à la Couronne ou à
(Dans le cas de terres aliénées, donner le nom et l'adresse du propriétaire et de l'occupant)

Détenteur(s) des droits pétroliers et gaziers

Nous prévoyons utiliser les colonnes de tubage suivantes et de les cimenter ou de les sceller, tel qu'il est indiqué ci-dessous: -

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

Nappes d'eau, de gaz et de pétrole prévues et genre de matériel anti-éruption.

Le puits sera foré à l'aide de la tour rotary n° par
(Entrepreneur ou société de forage)

Agent responsable pour le requérant: - N° de permis de l'entrepreneur

Sur le chantier Au siège

Adresse Adresse

Il est entendu que, dans le cas de modifications indispensables, un avis sera soumis.

Datée - le 19

Signé par Société.

Titre N° de licence de sondage de l'exécutant

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

APPROBATION

Demande étudiée et approuvée sous réserve des conditions suivantes:

Date 19 Ingénieur en conservation du district:

Présenter les formules à l'ingénieur en conservation du district,

Ministère des Affaires indiennes et du Nord canadien

WELL Amoco B-1 East Flett H-13

1. Copies of this Drilling Authority, Conditions of Approval and Daily Drilling Report Preparation Requirements card, shall be posted in a conspicuous manner in both the doghouse and drilling foreman's or engineer'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 that is attached for pertinent details.)
3. All shows of oil and gas are to be reported to the District Conservation Engineer immediately.
4. When a fatal accident occurs the District Conservation Engineer is to be notified immediately and drilling activities must cease. Permission to resume operations will be granted by the District Conservation Engineer after a fatality.
5. All waste material on and around the wellsite area shall be disposed of in a manner that will prevent pollution to adjacent areas. Refuse shall be burned and the residue shall be buried with an adequate cover of earth.
6. Forward to his office two (2) field prints of all well logs, copies of Core Analysis and Fluid Analysis as soon as they are available.
7. Prior approval from a District Conservation Engineer is required for any changes to the approved Drilling Authority.
8. You are required to notify the Yellowknife Office twenty-four (24) hours before spudding.



G.E. Blue,
District Conservation Engineer,
Department of Indian Affairs and
Northern Development,
P.O. Box 1500,
Yellowknife, N.W.T.,
XOE 1HO

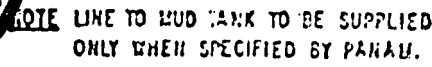
GEOLOGICAL PROGNOSIS

Amoco B-1 East Flett H-13

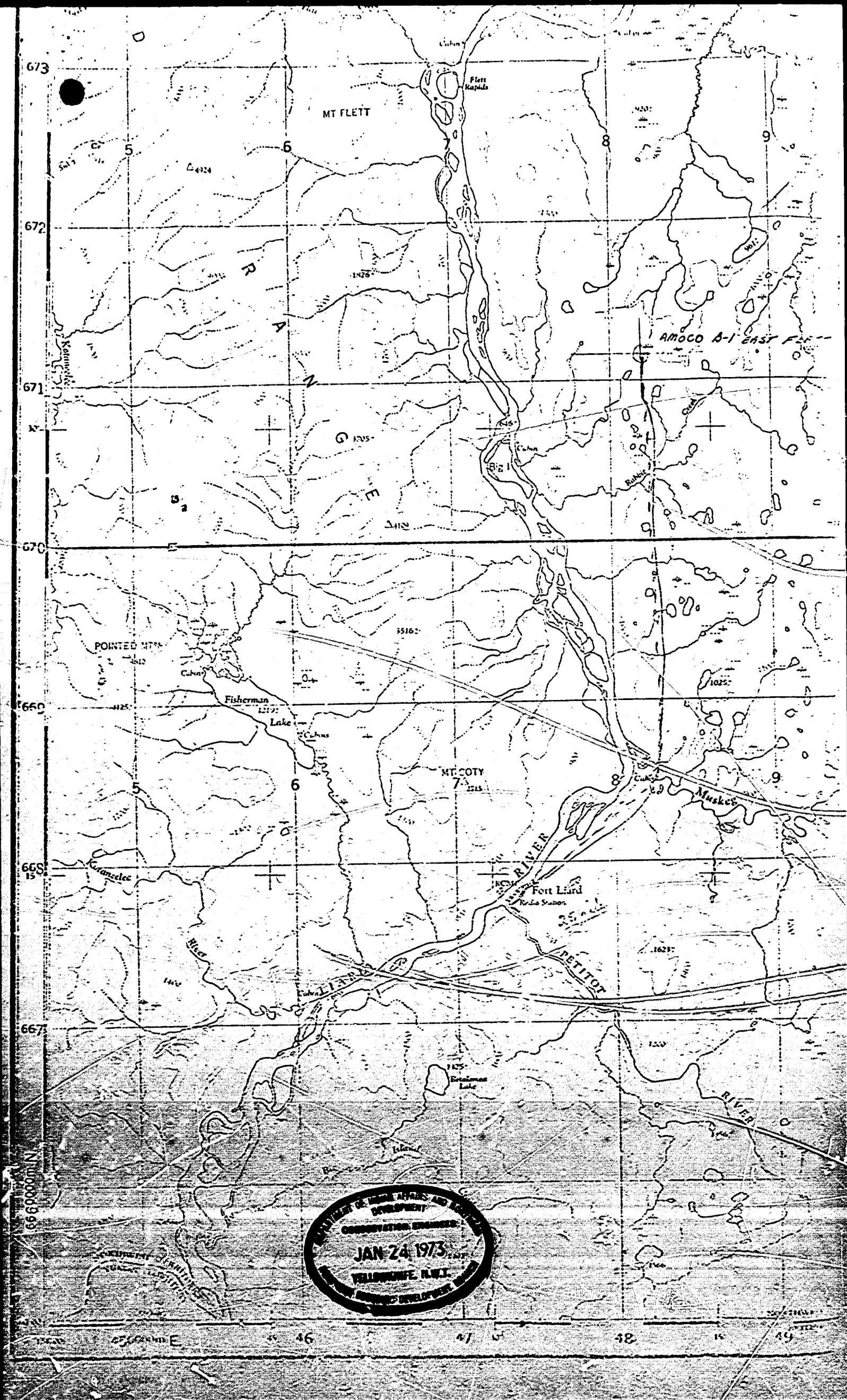
FORMATION TOPS	DEPTHS
Quaternary-Drift Cretaceous	Spud
Ft. St. John	550
Pennsylvanian, Mattson	1400'
Mississippian Rundle	2000'

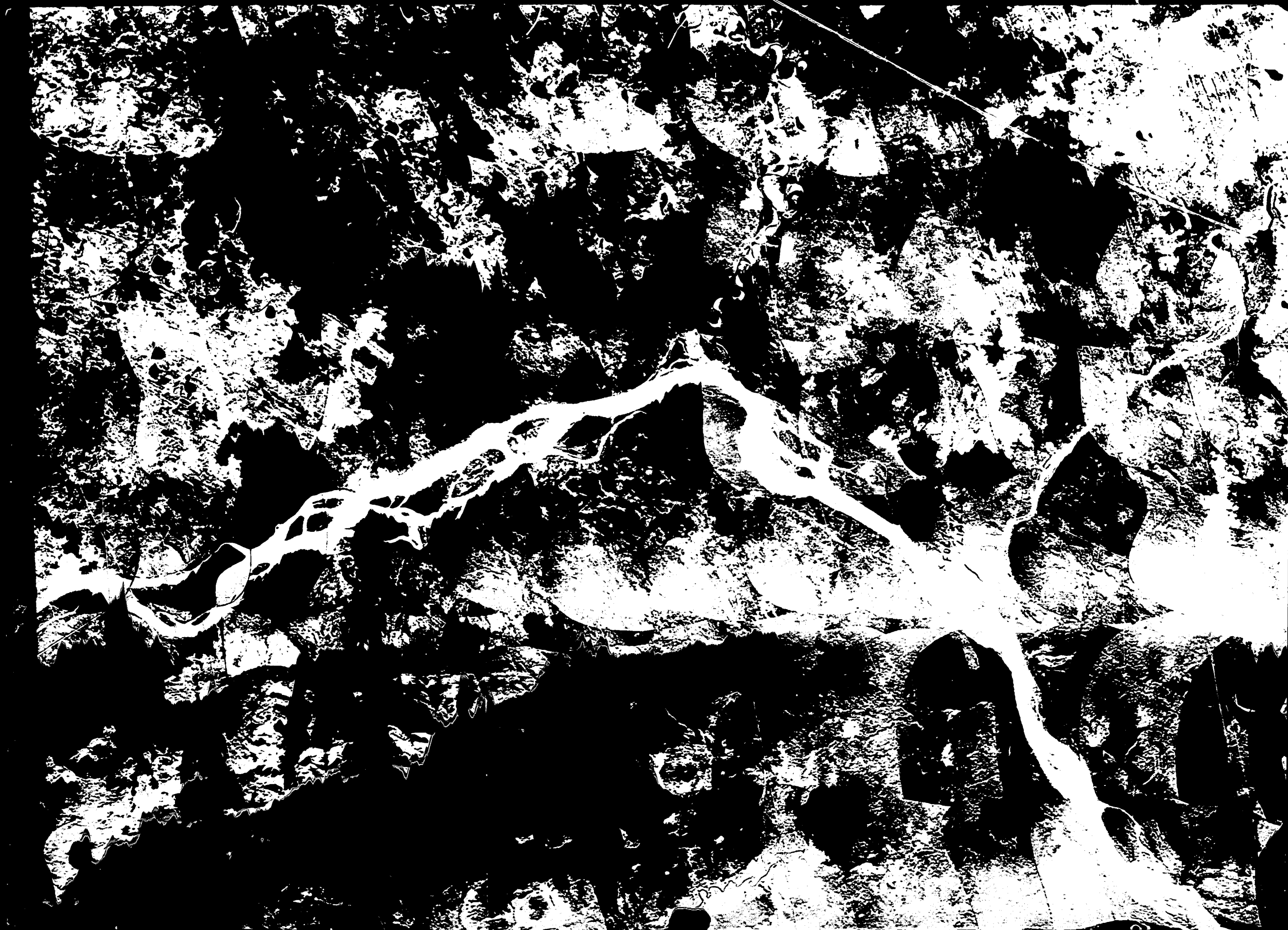


REVISÉ SEP-15 1964



1. Both preventors to be hydraulically operated from an accumulator which will open and close hydril at least twice without recharging.
2. Equipment through which bit must pass must have at least as large ID as casing being drilled through.
3. Kill line and choke connections must be 2" or larger nominal diameter and must be interchangeable with fill line so that kill line can be connected to the standpipe by breaking a union on the fill line and connecting it to an interchangeable union on kill line. Kill line NOT to be used as fill line.
4. A Kelly cock must be use on Kelly.
5. A drill pipe safety valve equivalent to Shaffer Model 55 must be available on the rig floor at all times with proper connections or subs.
6. All equipment mentioned above must be 3000⁷ working pressure or stronger.
7. Two 2" diameter or larger and one 2-7/8" or larger bleed-off lines to be installed without additional fittings or angular bends from chokes to flare pit and shall be securely staked down. Line from adjustable choke to be supplied with half union so that it can be connected to line into mud tank or to flare pit. Floor manifold can be tied into flare line from adjustable choke for Drill Stem Tests if line is tested to 1000 psi.
8. Spool between preventors and spool on choke manifold should be rotated to make lines as straight as possible and allow good access to controls.
9. (a) No screwed, nor screwed and welded, connections will be used upstream from the chokes or relief line valve.
(b) No screwed, nor screwed and welded, connections will be used on or upstream from the check valve on the kill line.







Amoco B-1 East Fleet H-13

M-NMT 661

WELL HISTORY

Amoco B-1 East Flett H-13

H-13-60-40-123-15

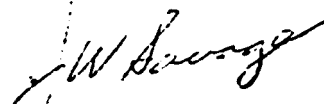
WELL HISTORY REPORT
AMOCO B-1 EAST FLETT
Unit H, Section 13, Grid 60-40-123-15



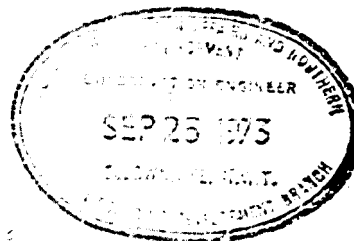
060-11-04-128

by: D.M. Cannon
Petroleum Engineer

Approved by:


J.W. SAVAGE
Supervisor in Charge

Amoco Canada Petroleum Company Ltd.
Northern Area Office
10603 - 107 Avenue
Edmonton, Alberta.



I N D E X

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ATTACHMENTS

Drill Stem Tests

Sample Descriptions

Water Analysis

WELL HISTORY
REPORT

Section I - Summary of Well Data

- (a) Well Name and Number
Amoco B-1 East Flett H-13
- (b) Permittee
Amoco Canada Petroleum
- (c) Name of Operator
Amoco Canada Petroleum Company
444 - 7th Avenue, S.W.
Calgary, Alberta
- (d) Location
Unit H, Section 13, Grid 60-40-123-15
Latitude 60° 32' 27.54" Longitude 123° 17' 15"
Unique Well Identifier 300H136040123150
- (e) Co-ordinates
Nil
- (f) Permit Number
6275
- (g) Drilling Contractor
Name: HiTower Drilling
Rig: Number 11
Type: Rotary
- (h) Drilling Authority
Number 661
- (i) Classification
Exploratory Well
- (j) Elevation
Ground: 1000'
K.B.: 1011.6'
- (k) Spudded
06:30 HRS
February 16, 1973

(l) Completed Drilling
February 22, 1973

(m) Depths
T.D. - 2910'

(n) Well Status
Abandoned

(o) Rig Released
0800 Hours
February 24, 1973

(p) Hole Size
12½" 0 - 597'
7 7/8" 597'-2910'

(q) Casing
Casing Size: 19"
Grade: NA
Weight: 16 lb/ft
Amount: 1 JT
Set at: 30'

Casing Size: 8 5/8"
Grade: K-55
Weight: 24 lb/ft
Amount: 14 JTS
Set at: 597'

Section II - Geological Summary

(a) Formation Tops

Cretaceous
Ft. St. John
Pennsylvanian
Mattson
Mississippian
Carbonate

SAMPLE TOP

E-LOG

Spudded in Ft. St. John Shale

Not present

1209'

1213'

(b) Cored Intervals
Nil

- (c) Core Descriptions
Nil
- (d) Sample Description
see attachments
- (e) Paleontological Determinations
Nil

Section III - Engineering Summary

- (a) Drill Stem Tests
see attachments

- (b) Casing Record

Conductor Pipe

Hole size 26"

Conductor size 19"

Weight 16 lb/ft

Grade N/A

Joints run 1

KB setting depth 30'

Cement & Additives 45 sxs neat + 3% CaCl₂

Date run February 1, 1973

Date cemented February 1, 1973

Surface Casing

Hole size 12½"

Casing size 8 5/8"

Weight 24 lb/ft

Grade K-55

Joints run 14

KB setting depth 597'

Cement & Additives 500 sxs neat + 3% CaCl₂

Date run February 17, 1973

Date cemented February 17, 1973

- (c) Bit Record

<u>BIT</u>	<u>SIZE</u>	<u>TYPE</u>	<u>MAKE</u>	<u>IN</u>	<u>OUT</u>	<u>FT.</u>	<u>HOURS</u>
1	12 ½	OSC3	HW	0	382	382	10 ½
2	12 ½	XDG	HW	382	597	215	4 ¾
3	7 7/8	X3A	HW	597	1210	613	11 ¾
4	7 7/8	J55	HW	1210	2456	1246	48 ½
5	7 7/8	XIG	HW	2456	2503	47	3 ½
6	7 7/8	X55R	HW	2503	2910	407	16 ¾

(d) Mud Report

Type	Gel	Benex	Sawdust	Lime	Kwikseal
Quantity	10,500#	83#	49 sxs	150#	550#

(e) Deviation Record

<u>DEPTH</u>	<u>DEVIATION</u>
100'	¾°
198'	1°
290'	½°
380'	½°
480'	¾°
597'	½°
720'	½°
814'	¾°
1063'	¾°
1500'	¾°
2004'	1 ¾°
2252'	¾°
2503'	1 ½°

(f) Abandonment Plugs

Plug #1	2910'-2810'	45 sxs neat	no feel
Plug #2	650'-550'	48 sxs neat + 3% CaCl ₂	Feel @ 498'
Plug #3	Surface plug	5 sxs neat	

(g) Lost Circulation Zones

Lost circulation while drilling with water on surface hole at 380' in the quaternary drift. Added 6300# gel, 49 sxs sawdust and 550# Kwikseal to recover circulation. This method of treatment was satisfactory.

- (h) Report of Blowouts
Nil

Section IV - Logs

<u>DATE</u>	<u>RUN NO.</u>	<u>TYPE</u>	<u>INTERVAL</u>
February 22, 1973	1	DIL	2904'-599'
February 22, 1973	1	BHCS-GR-CAL	2909'-599'
February 22, 1973	1	SNP-GR-CAL	2909'-1150'

Section V - Analysis

- (a) Core Analysis Nil
(b) Water Analysis see attachments
(c) Gas Analysis Nil
(d) Oil Analysis Nil

Section VI - Completion Summary

- (a) Tubing Record
Nil
- (b) Perforation Record
Nil
- (c) Cementation Record
Nil
- (d) Acidization and Fracturing Record
Nil
- (e) Back Pressure and Production Tests
Nil

DRILL STEM TESTS

LYNES UNITED SERVICES LTD.

TEST DATA				GENERAL INFORMATION			
Formation	Mississippian		T.D.	2910		Company	Amoco Canada
Interval Tested	1185	Ft. to	1350	Ft.	Address		
Interval Tested	165	Ft.	Net Pay Tested	Ft.			
Type of Test	Inflatable Straddle						
Cushion	Amount		Ft.	Well Name	Amoco B-1 East Flett		
Started in Hole at	9:15	Hrs.	Tool Open at	11:10	Hrs.	Well Number	H-13
Pre-Flow	5	Mins.	Initial Shut-in	60	Mins.	K.B. Elevation	Sub-Sea Elevation
2nd Flow		Mins.	Second Shut-in		Mins.	Area	East Flett Province NWT
Final Flow	90	Mins.	Final Shut-in	90	Mins.	Company Rep.	J. Corter
Remarks:							
				Tester	W. Fischer		
				Contractor	HiTower Ria No. 11		
Blow: Very weak air blow throughout the preflow.				Ticket No.	6500	Date	Feb 23/73
Weak air blow decreasing to near nil after 30 min on flow.				Service Reports To:	T. Cunningham		
				Room 1033 Bentall Building			
				Calgary, Alberta			
				7 - above address			
GAS BLOW MEASUREMENTS				MUD AND HOLE DATA			
Measured with				Mud Type Gel Chem			
Time	Surface Choke	Reading Inches	Cubic Feet/Day	Weight	8.8	Viscosity	85 Water Loss
				Filter Coke	2/32"	Bottom Hole Temperature	
				Drill Pipe Size	4 1/2" FH	Weight	
				Drill Collars	4 1/2 H90	I.D.	2 7/8 Feet Run 215
				Main Hole or Casing Size	7 7/8"		
				Rathole or Liner Size		No. of Feet	
				Bottom Hole Choke Size	1"		
				Surface Choke Size			
				Packer Rubber Size	6 x 7 x 72		
				REMARKS	Shut-in pressures suggest virtually no permeability within the interval tested.		
RECOVERY							
TOTAL FLUID RECOVERED 50				Ft. Consisting of:			
50				Ft. of drilling mud			
				Ft. of			
				Ft. of			
				Ft. of			
Test was/was not Reverse Circulated				was-not			
Oil Recovery A.P.I.				Water Specific Gravity			
Solinity							

PRESSURE READINGS

NUMBER KEY:

- 1 - INITIAL HYDROSTATIC
- 2 - PRE-FLOW
- 3 - INITIAL SHUT-IN
- 4a - 2nd INITIAL FLOW
- 4b - 2nd FINAL FLOW
- 4c - 2nd SHUT-IN
- 5 - 3rd INITIAL FLOW
- 6 - FINAL FLOW
- 7 - FINAL SHUT-IN
- 8 - FINAL HYDROSTATIC

Inside X Outside
 Recorder No. 9025
 Capacity 5900
 Depth 1146

recorder malfunctioned

Inside Outside X
 Recorder No. 8884
 Capacity 2900
 Depth 1191

592
 39
 43
 44
 44
 88
 592

Inside Outside X
 Recorder No. 8887
 Capacity 2900
 Depth 1191

556
 36
 50
 40
 40
 88
 556

Inside Outside X
 Recorder No. 5802
 Capacity 5500
 Depth 1356

706
 below straddle
 684

T. No.

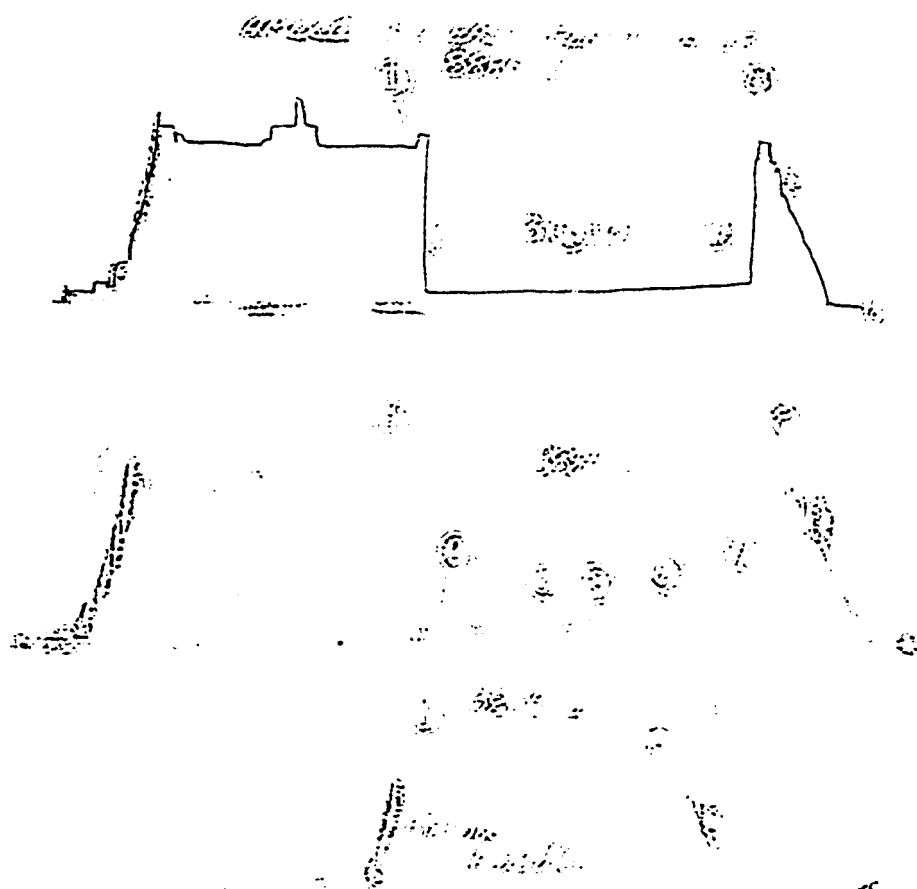
Date of Test

Amoco Canada

Company

Well Name and Description

Amoco B-1 East Flett H-13



GEOLOGICAL SAMPLE DESCRIPTIONS

SAMPLE DESCRIPTION

AMOCO B-1 EAST FLETT G-13

Lat 60° 32' 27.54" N, Long 123° 17' 15" W

K.B. 1,001.6 (est) N.W.T.

0 to 370' NO SAMPLES

370 to 410 - Grey micromicaceous shale (and Grey) silty shale & very fine grained glauconitic quartz sandstone.

410 to 700 Grey micromicaceous shale with a trace of silty shale.

8 5/8" casing landed at 598 feet.

700 to 715 Grey very fine grained glauconitic quartz sand, dirty with trace silty shale.

715 to 750 Grey micaceous shale with 25% glauconitic quartz sand as above.

750 to 830 Grey micromicaceous shale with slight trace of siltstone.

830 to 890 NO SAMPLES

890 to 940 Grey argillaceous siltstone with some grey silty shale.

940 to 1209 Grey micromicaceous shale. Slightly silty with slight traces of siltstone interbeds. Scattered traces of pyrite and dolomitic siltstone.

1209 top of Miss (Carbonate)

1209 to 1300 Light brown very fossiliferous limestone and some grey argillaceous limestone with a trace of grey dolomite. Porosity in this interval is less than 5% (abundant Crinoid & Brachipod fragments)

1300 to 1340 Light brown limestone and grey shale with a slight trace of dolomitic siltstone.

1340 to 1570 Light brown limestone with abundant brown and light brown chert. Trace (of) grey shale.

1570 to 1660 (interbedded) Grey shale and brown limestone 50-50; with a trace of Brown chert.

1660 to 1750 Grey and brown limestone with a trace of interbedded grey shale.

1750 to 1840 Brown and light brown limestone and interbeds of grey shale. Scattered pyrite and dark brown chert. Traces of (sucrosic) dolomite.

1840 to 2440 Light brown and brown micro- xl n. limestone, with scattered traces of crinoid and brachipod fragments, limestone is interbedded with grey shale. Scattered pyrite and

brown chert throughout.

2440 to 2910 TD Grey and light grey slightly calcareous shale, with scattered pyrite. 10 to 20% of sample is grey-brown and brown limestone with scattered crinoid and brachipod fragments.

WATER ANALYSIS



CORE LABORATORIES — CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING



Company Amoco Canada Petroleum Company Ltd. Page 1 of 2
Well Amoco B-1 East Flett H-13 File 921-3202
Field Flett Creek Analyst HH
Location 60° 32' 27.54 N.L.
123° 17' 15.00 W.L. Elevation: K.B. 1011.6' Grd. 1000'
Formation Mississippian Depth 1185' - 1350'
Sampled from DST #1 by High Tower #11
Sampling pressure _____ psig Sampling temp. _____ °F Ambient temp. _____ °F
Date sampled _____ Date received March 5/73 Date analysed March 8/73
Container pressure _____ Mud _____ Water cushion _____
Recovery or flowrate: 50' Mud.

Benzene-Toluene Analysis

Benzene 0.01 ppm
Toluene 0.34 ppm



CORE LABORATORIES — CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING



Company Amoco Canada Petroleum Company Ltd. Page 2 of 2
Well Amoco B-1 East Flett H-13 File 921-3202
Field Flett Creek Analyst LK
Location 60° 32' 27.54 N.L.
123° 17' 15.00 W.L. Elevation: K.B. 1011.6' Grd. 1000'
Formation Mississippian Depth 1185' - 1350'
Sampled from DST #1 by High Tower #11
Sampling pressure _____ psig Sampling temp. _____ °F Ambient temp. _____ °F
Date sampled _____ Date received March 5/73 Date analysed March 13/73
Container pressure _____ Mud _____ Water cushion _____
Recovery or flowrate: 50' Mud.

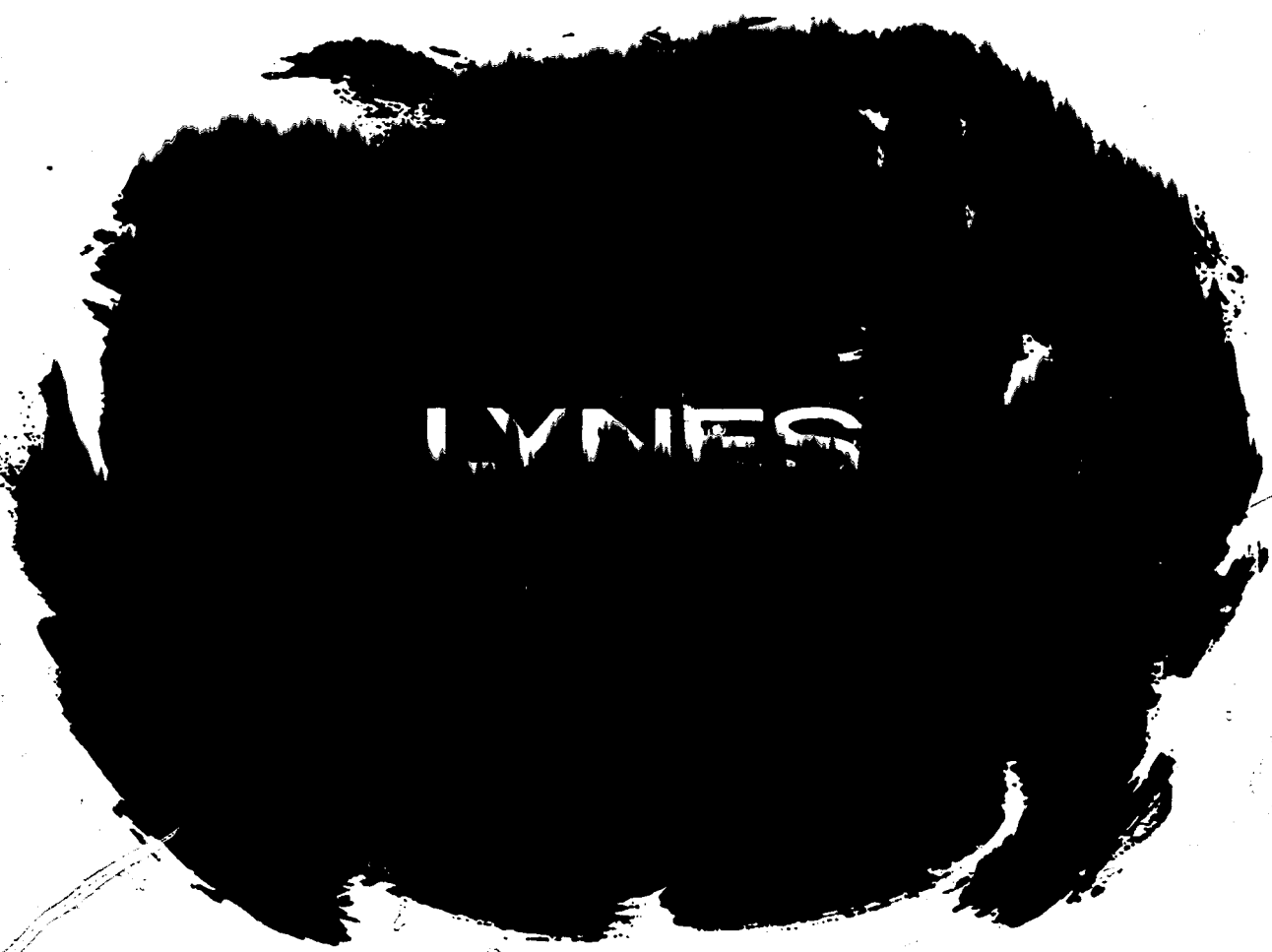
Mud Filtrate Analysis

Resistivity

6.54 Ohm-meters @ 69°F

Chloride

147 mg/liter



LYNIES

**DRILL STEM TEST
TECHNICAL SERVICE REPORT**

NOMENCLATURE (Definition of Symbols)

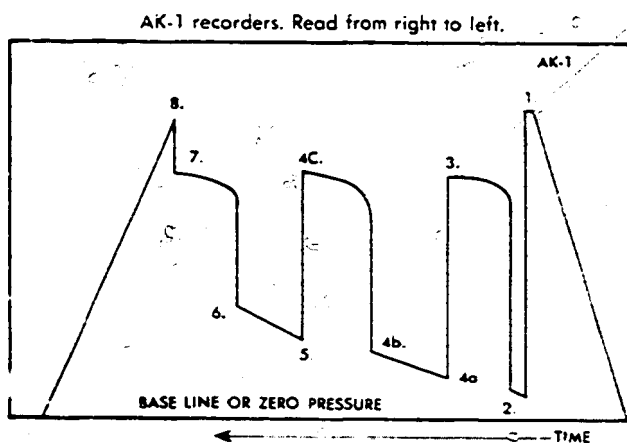
Q	= average production rate during test, bbls./day
Q _g	= measured gas production rate during test, MCF/day
k	= permeability, md
h	= net pay thickness, ft. (when unknown, test interval is chosen)
μ	= fluid viscosity, centipoise
Z	= compressibility factor
T _r	= reservoir temperature, ° Rankine
m	= slope of final SIP buildup plot, psig/cycle (psig ² /cycle for gas)
b	= approximate radius of investigation, feet
r _w	= wellbore radius, feet
t _e	= total flowing time, minutes
P _o	= Extrapolated maximum reservoir pressure, psig
P _f	= final flowing pressure, psig
P.I.	= productivity index, bbls./day/psi
P.I. _u	= theoretical productivity index with damage removed, bbl./day/psi
D.R.	= damage ratio
ED.R.	= estimated damage ratio
AOF	= absolute open flow potential, MCF/D
AOF _u	= theoretical absolute open flow if damage were removed
Z	= subsea depth
W	= water gradient based on salinity
H _o	= potentiometric surface

INTERPRETATION CALCULATIONS (OIL/WATER)	
AVERAGE PRODUCTION RATE DURING TEST $Q = \frac{1440 \text{ (drill collar capacity + recovery + drill pipe cap. + recovery)}}{\text{initial flow time + final flow time}}$ $= \frac{1440 [\dots]}{[\dots]}$ $= \frac{1440 [0.145 \text{ or } .0073] [\dots]}{[\dots]}$ bbl./day Mud Expansion = $\frac{[\dots]}{[\dots]}$ ft. (Drill Collar Conversion is Considered)	
FLUID PROPERTIES API Gravity @ 60° F. = $[\dots]$ Specific Gravity @ 60° F. = $[\dots]$ Est. Viscosity = $[\dots]$ cp Estimated Bottom Hole Temperature = $[\dots]$ °	
TRANSMISSIBILITY $\frac{k}{\mu} = \frac{1440 Q}{m} = \frac{1440 [\dots]}{[\dots]}$ md-ft/cp	
IN SITU CAPACITY $h = [\dots]$ md-ft	
AVERAGE EFFECTIVE PERMEABILITY $k = [\dots]$ md Estimated Pay Thickness = $[\dots]$ Ft. Actual Pay Thickness = $[\dots]$ Ft.	
PRODUCTIVITY INDEX $PI = \frac{Q}{P_o - P_f} = \frac{[\dots]}{[\dots]}$ bbl./day/psi	
DAMAGE RATIO $D.R. = \frac{0.183 (P_o - P_f)}{m} = \frac{0.183 [\dots]}{[\dots]}$	
PRODUCTIVITY INDEX WITH DAMAGE REMOVED $PI_u = PI \cdot D.R. = [\dots]$ bbl./day/psi	
APPROXIMATE RADIUS OF INVESTIGATION $b = \sqrt{r_w^2 + \frac{4.52 \times 10^{-4} k h}{Q}} = \sqrt{[\dots] + [\dots]}$ ft.	
Drawdown Factor = $\frac{ISIP - FSIP}{ISIP} \times 100 = [\dots] \times 100 = [\dots] \%$ (4% to 5% is considered serious or substantial)	
Potentiometric Surface = $H_o = Z + \frac{P_o - P_f}{W} = [\dots]$ ft.	

INTERPRETATION CALCULATIONS (GAS)	
ESTIMATED GAS PROPERTIES Gravity @ 60° F. = $[\dots]$ Visc. = $[\dots]$ cp Estimated Bottom Hole Temperature = $[\dots]$ ° Compressibility Factor (Z) = $[\dots]$	
TRANSMISSIBILITY Measured Q.S.T. Gas Rate = $[\dots]$ mcf/d $\frac{k}{\mu} = \frac{1637 Q_g Z T_r}{m} = \frac{1637 [\dots] [\dots] [\dots]}{[\dots]}$ md-ft/cp	
IN SITU CAPACITY $h = [\dots]$ md-ft	
AVERAGE EFFECTIVE PERMEABILITY $k = [\dots]$ md Estimated Pay Thickness = $[\dots]$ Ft. Actual Pay Thickness = $[\dots]$ Ft.	
APPROXIMATE RADIUS OF INVESTIGATION $b = 0.22 \sqrt{k h P_o} = 0.22 \sqrt{[\dots] [\dots] [\dots]}$ ft.	
ACTUAL CAPACITY $h = \frac{2270 Q_g Z T_r \log(0.472 \frac{b}{r_w})}{P_o^2 - P_f^2} = \frac{2270 [\dots] [\dots] [\dots] \log(0.472 \frac{[\dots]}{[\dots]})}{[\dots] - [\dots]}$ md-ft	
DAMAGE RATIO $D.R. = \frac{\ln \text{In Situ Capacity}}{\text{Actual Capacity}} = \frac{[\dots]}{[\dots]}$ $ED.R. = \frac{(P_o^2 - P_f^2)}{m \log t_e + 2.65}$ $ED.R. = [\dots]$	
ESTIMATED RANGE OF AOF POTENTIAL Max. AOF = $\frac{Q_g P_o^2}{P_o^2 - P_f^2} = \frac{[\dots] [\dots]^2}{[\dots]^2 - [\dots]^2}$ MCF/D Min. AOF = $\frac{Q_g P_o^2}{VP_o^2 - P_f^2} = \frac{[\dots] [\dots]^2}{[\dots]^2 - [\dots]^2}$ MCF/D	
ESTIMATED RANGE OF AOF POTENTIAL DAMAGE REMOVED Max. AOF _u = [Max. AOF] [D.R.] = $[\dots] [\dots]$ MCF/D Min. AOF _u = [Min. AOF] [D.R.] = $[\dots] [\dots]$ MCF/D	
Drawdown Factor = $\frac{ISIP - FSIP}{ISIP} \times 100 = [\dots] \times 100 = [\dots] \%$ (4% to 5% is considered serious or substantial)	
Potentiometric Surface = $H_o = Z + \frac{P_o - P_f}{W} = [\dots]$ ft.	

GUIDE TO INTERPRETATION AND IDENTIFICATION OF LYNES DRILL STEM TEST PRESSURE CHARTS

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inference from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.



1. INITIAL HYDROSTATIC MUD PRESSURE
2. PRE-FLOW
3. INITIAL SHUT-IN
- 4a. 2nd INITIAL FLOW
- 4b. 2nd FINAL FLOW
- 4c. 2nd SHUT-IN
5. 3rd INITIAL FLOW
6. FINAL FLOW
7. FINAL SHUT-IN
8. FINAL HYDROSTATIC MUD PRESSURE

N.B. When only two shut-in and flow periods are run, 4a, 4b and 4c are omitted.

K-K-3 recorders. Read from left to right.

Typical charts for visual field analysis ranging from very low to high permeability.



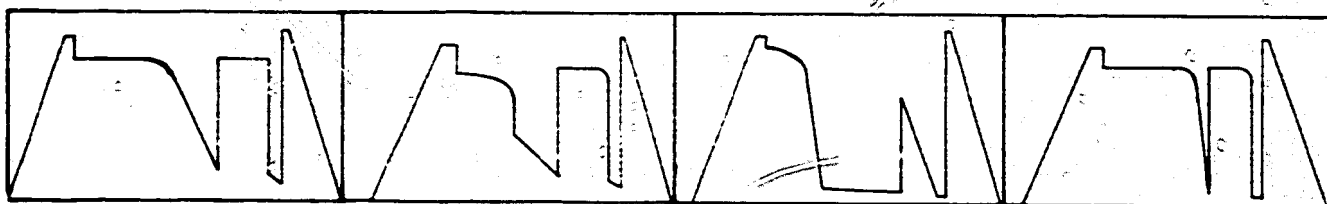
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again usually mud recovered.

Slightly higher permeability. Small recovery, less than 200' ft.

Average permeability. Final and initial shut-ins differ by 50 psi.

Average permeability. Strong damage effect. High shut-in pressure, low flow pressure.



Excellent permeability where final flow final shut-in pressure.

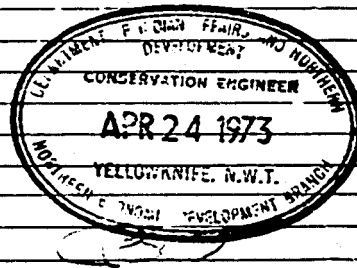
High permeability where ISIP and FSIP are within 10 psi.

Deep well bore invasion or damage. Final shut-in higher than the initial shut-in.

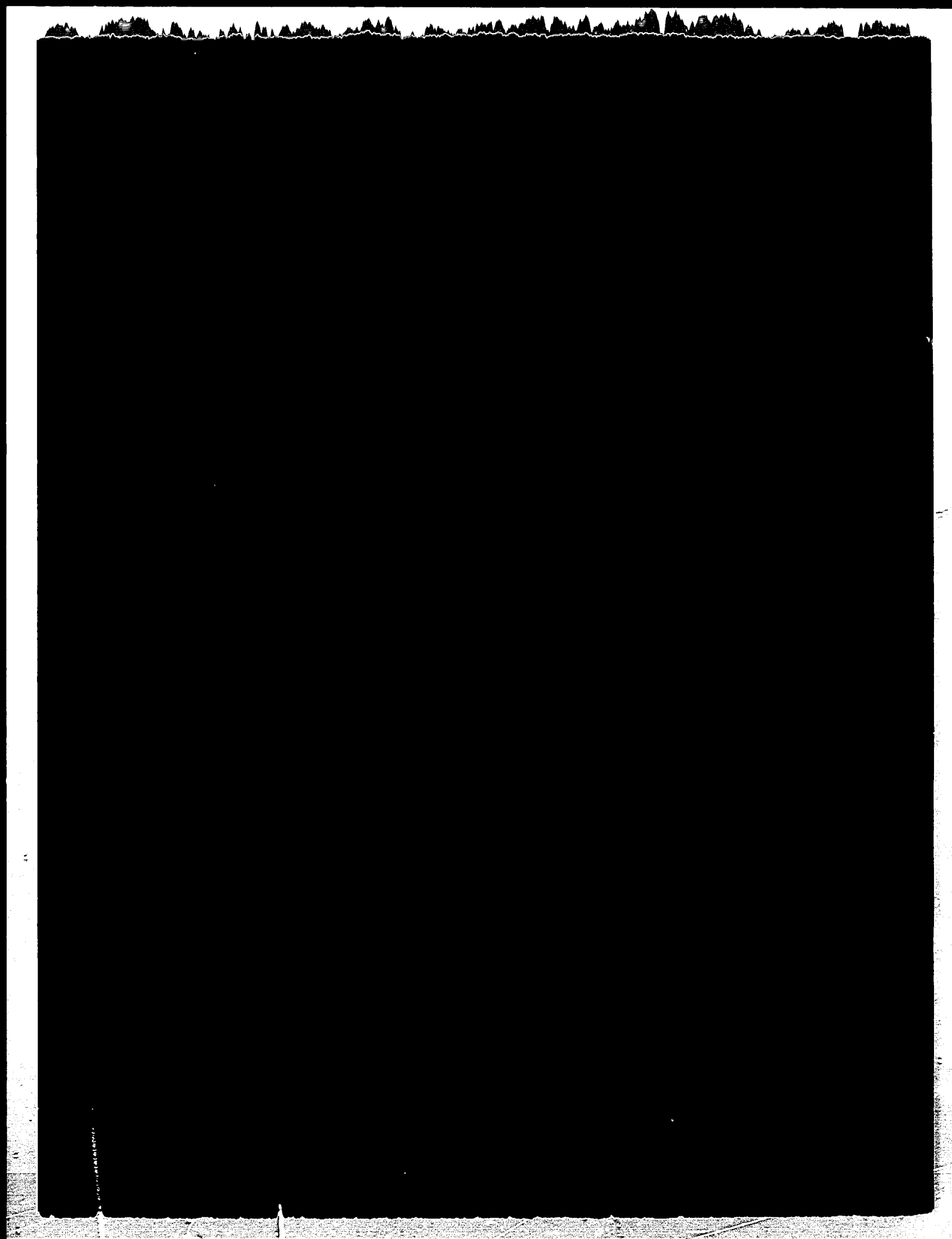
Tight hole chamber tester. Permeability very difficult to interpret unless the recovery is less than chamber length. Flow pressure builds up rapidly if recovery is large, similar to a shut-in.

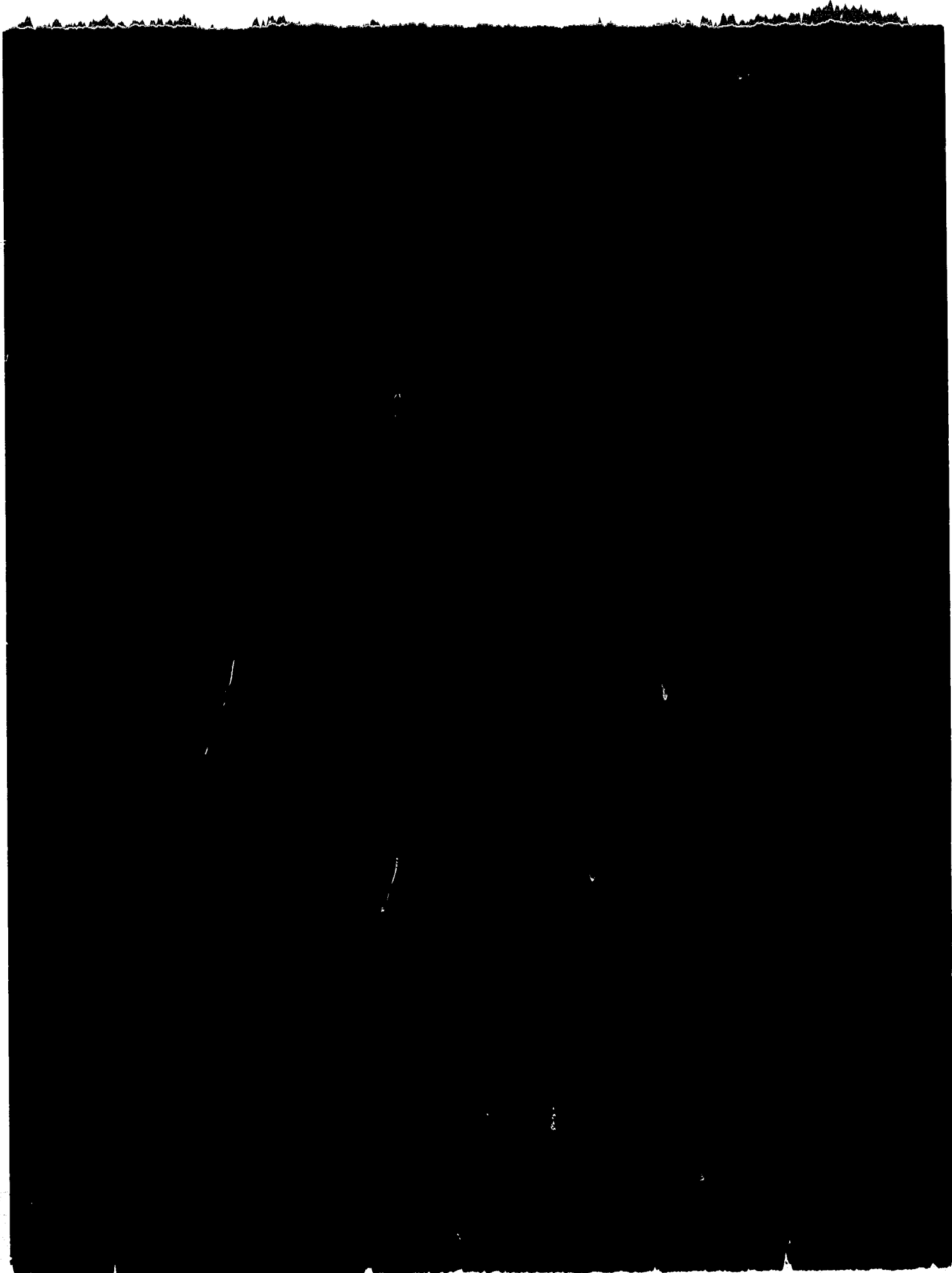
LYNES UNITED SERVICES LTD.

TEST DATA				GENERAL INFORMATION			
Formation	Mississippian		T.D.	2910		Fr. Company	Amoco Canada
Interval Tested	1185	Ft. to	1350	Fr. Address			
Interval Tested	165	Ft. Net Pay Tested					
Type of Test	Inflatable Straddle						
Cushion	Amount		Fr.	Well Name Amoco B-1 East Flett H-13			
Started in Hole at	9:15	Hrs.	Tool Open at	11:10	Hrs.	Well Number H-13	
Pre-Flow	5	Mins.	Initial Shut-in	60	Mins.	K.B. Elevation	Sub-Sea Elevation
2nd Flow		Mins.	Second Shut-in		Mins.	Area	Province NWT
Final Flow	90	Mins.	Final Shut-in	90	Mins.	Company Rep.	J. Cotter
Remarks:	Tester W. Fischer Contractor HiTower Ticket No. 6500 Date Feb 23/73 Service Reports To: T. Cunningham Room 1033 Bentall Building Calgary, Alberta 7 - above address						
Blow: Very weak air blow throughout the preflow. Weak air blow decreasing to near nil after 30 min on flow.							
GAS BLOW MEASUREMENTS							
Measured with				MUD AND HOLE DATA			
Time	Surface Choke	Reading Inches	Cubic Feet/Day	Mud Type	Gel Chem		
				Weight	8.8	Viscosity	85 Water Loss
				Filter Cake	2/32" Bottom Hole Temperature		
				Drill Pipe Size	4 1/2" FH Weight		
				Drill Collars	4 1/2" H90 I.D. 2 7/8 Feet Run 215		
				Main Hole or Casing Size	7 7/8"		
				Rathole or Liner Size	No. of Feet		
				Bottom Hole Choke Size	1"		
				Surface Choke Size			
				Packer Rubber Size	6 x 7 x 72		
				REMARKS	Shut-in pressures suggest virtually no permeability within the interval tested.		
RECOVERY							
TOTAL FLUID RECOVERED 50				Ft. Consisting of:			
50				Ft. of drilling mud			
				Ft. of			
				Ft. of			
				Ft. of			
Test was/was not Reverse Circulated was not							
Oil Recovery A.P.I. Water Specific Gravity							
Salinity							
PRESSURE READINGS							
Inside X Outside		Inside X Outside		Inside X Outside		Inside X Outside	
Recorder No. 9025		Recorder No. 8884		Recorder No. 8887		Recorder No. 5802	
Capacity 5900		Capacity 2900		Capacity 2900		Capacity 5500	
Depth 1146		Depth 1191		Depth 1191		Depth 1356	
NUMBER KEY:							
1 - INITIAL HYDROSTATIC		recorder		592		706	
2 - PRE-FLOW		malfunctioned		39		36	
3 - INITIAL SHUT-IN				43		50	
4a - 2nd INITIAL FLOW							
4b - 2nd FINAL FLOW							
4c - 2nd SHUT-IN							
5 - 3rd INITIAL FLOW				44		40	
6 - FINAL FLOW				44		40	
7 - FINAL SHUT-IN				88		88	
8 - FINAL HYDROSTATIC				592		556	
						below straddle	
						684	



Amoco Canada
Company
Amoco B-1 East Flett H-13
Well Name and Description
#1
Feb 23/73
Date of Test





NAME
NOM

Amoco B-1 Fast Fitter H-13
(60-40-123-15)
D.A. 661

TOUR SHEETS

FABRIQUÉ AU CANADA



MADE IN CANADA

R613T $\frac{1}{2}$ Right/Left Reversible Tab
Onglets reversibles gauche/droite

If Slimtrim Fasteners are to be included, please specify.
Spécifiez si vous voulez des agrafes Slimtrim.

Amoco B-1 East Fleet H-13
(60-40-123-15)

D.A. 661

DAILY DRILLING REPORT REPORT NO.

LEASE <i>Hanna B. East 11-12-13</i>		WELL NO. <i>15-1</i>		API WELL NUMBER		DATE <i>2/24/13</i>			
OPERATOR <i>Pharmacia</i>		CONTRACTOR <i>111 Fawcett</i>		RIG NO. <i>11</i>		LEGAL LAND DESCRIPTION			
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>				SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>					
D.P. SIZE <i>4 1/2</i>	WT./FT. <i>16.1</i>	GRADE <i>E</i>	TOOL JOINT <i>L</i>	TYPE THREAD <i>F.H.</i>	STRING NO.	PUMP NO.	PUMP MANUFACTURER <i>Fawcett</i>	TYPE <i>D-300</i>	STROKE LENGTH <i>14</i>

WIRE LINE RECORD		REEL NO.	
SIZE <i>8 1/2</i>	MAKE <i>S.G.</i>	NO. LINES <i>6</i>	FT. SLIPPED
FT. CUT OFF		PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT			
CUMULATIVE TON MI. OR TRIPS			

DRILLING CREW PAYROLL DATA

DATE *2/24/13*
WELL NAME & NO. *Hanna B. East 11-12-13*
COMPANY *111 Fawcett*
TOOL PUSHER *T. Chaudhary* RIG NO. *11*

TIME DISTRIBUTION - HOURS			
CODE NO.	OPERATION	MORN.	EVE.
1.	RIG UP AND TEAR DOWN	<i>1</i>	<i>8</i>
2.	DRILL ACTUAL		
3.	REAMING		
4.	CORING		
5.	CONDITION MUD & CIRCULATE	<i>4</i>	
6.	TRIPS	<i>1 1/2</i>	<i>8</i>
7.	LUBRICATE RIG		
8.	REPAIR RIG		
9.	CUT OFF DRILLING LINE		
10.	DEVIATION SURVEY		
11.	WIRE LINE LOGS		
12.	RUN CASING & CEMENT	<i>1 1/4</i>	
13.	WAIT ON CEMENT	<i>1 1/4</i>	<i>6</i>
14.	NIPPLE UP B.O.P.		

NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
BIT	FT.	BIT NO.	SIZE	TIME	WEIGHT
STB RMR OD	FT.	FT.	MFG.		PRESSURE GRADIENT
D.C. ID	OD	FT.	TYPE		VISC.-SEC.
STB RMR OD	FT.	JETS 1 3/2"			PV/YP
D.C. ID	OD	FT.	SER. NO.		GELS.
STB RMR OD	FT.	DEPTH OUT			WL.-CC'S
		DEPTH IN			pH
		TOTAL FTG.			SOLIDS %
		TOTAL MRS. RUN			
STANDS DP	FT.	COND. 1/8" T.B. GAGE			MUD & CHEMICALS ADDED
SINGLES DP	FT.	GPM/ PD-PSI			TYPE AMT. TYPE AMT.
KELLY DOWN	FT.				
TOTAL	FT.				
WT. OF STRING	LBS.				

NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
BIT	FT.	BIT NO.	SIZE	TIME	WEIGHT
STB RMR OD	FT.	FT.	MFG.		PRESSURE GRADIENT
D.C. ID	OD	FT.	TYPE		VISC.-SEC.
STB RMR OD	FT.	JETS 1 3/2"			PV/YP
D.C. ID	OD	FT.	SER. NO.		GELS.
STB RMR OD	FT.	DEPTH OUT			WL.-CC'S
		DEPTH IN			pH
		TOTAL FTG.			SOLIDS %
		TOTAL MRS. RUN			
STANDS DP	FT.	COND. 1/8" T.B. GAGE			MUD & CHEMICALS ADDED
SINGLES DP	FT.	GPM/ PD-PSI			TYPE AMT. TYPE AMT.
KELLY DOWN	FT.				
TOTAL	FT.				
WT. OF STRING	LBS.				

TOTALS		<i>8</i>	<i>4</i>	<i>8</i>
DAY WORK TIME SUMMARY (OFFICE USE ONLY)				
MRS. W/CONTR. D.P.				
MRS. W/OPR. D.P.				
MRS. W/D.P.				
MRS. STANDBY				
TOTAL DAY WORK				
NO. OF DAYS FROM SPUD				
CUMULATIVE ROTATING MRS.				
TOTAL MUD COST				

FOOTAGE		DR. D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
2400	04:00	4	5	Circ. on Bottom wait on Cementers							
04:00	05:00	1	12	Rig up + Run plug No. 1							
05:00	06:30	1 1/2	6	Lay down pipe							
06:30	06:45	1 1/4	12	Run plug No. 2							
06:45	08:00	1 1/4	13	W.D.C.							

FOOTAGE		DR. D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
08:00	14:00	6	13	W.D.C.							
14:00	15:00	1	6	Feel plug No. 2 @ 498							
15:00	16:00	1	1	Tear Out							

FOOTAGE		DR. D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00				Cut off casing. Blow Lay down drill pipe Tear Out For Long Move							
Rig back to 900 PM 9-24-13 <i>[Signature]</i>											

MORNING TOUR <i>27.50</i> P.M. <i>08:00</i> A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		<i>L. Kozak</i>	<i>16</i>
DRKMAN		<i>D.C. Smith</i>	<i>16</i>
MTRMAN		<i>T. McCurran</i>	<i>16</i>
FIREMAN			
FLRMAN		<i>H.E. Murray</i>	<i>16</i>
FLRMAN			
FLRMAN			

DAY TOUR <i>08:00</i> A.M. <i>16:00</i> P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER			
DRKMAN			
MTRMAN			
FIREMAN			
FLRMAN		<i>R. Wagner</i>	<i>12</i>
FLRMAN			
FLRMAN			

EVENING TOUR <i>16:00</i> P.M. <i>24:00</i> P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		<i>S. Pyzda</i>	<i>8</i>
DRKMAN		<i>R. Folk</i>	<i>8</i>
MTRMAN		<i>L. Hauser</i>	<i>8</i>
FIREMAN			
FLRMAN		<i>D. Lee</i>	<i>8</i>
FLRMAN			
FLRMAN			



DAILY DRILLING REPORT REPORT NO.

LEASE <i>Hwy 13-1 East Flt H-13</i>	WELL NO. <i>E-1</i>	API WELL NUMBER	DATE <i>2/12/72</i>
OPERATOR <i>Plains Co. Ltd.</i>	CONTRACTOR <i>H. - T. -</i>		
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER	
D.P. SIZE <i>4 1/2</i>	WT. OF PUMP <i>166</i>	GRADE <i>F</i>	JOOL JT. Q.D. <i>EL</i>
TYPE THREAD <i>FH</i>	STRING NO.	PUMP NO.	PUMP MANUFACTURER
TYPE	STROKE LENGTH		

LEGAL LAND DESCRIPTION										WIRE LINE RECORD		REEL NO.
SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKEL TO CSG. HD.	SET AT	SIZE	NO. LINES	FT. SLIPPED			
LAST CASING TUBING OR LINER							FT. CUT OFF		PRESENT LENGTH			
							TON MI. OR TRIPS SINCE LAST CUT					
							CUMULATIVE TON MI. OR TRIPS					

DRILLING CREW PAYROLL DATA

DATE *2/12/72*

WELL NAME & NO. *Hwy 13-1 East Flt H-13*

COMPANY *H. - T. -*

TOOL PUSHER *T. Chaswick* RIG NO. *11*

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	
1	RIG UP AND TEAR DOWN				STB RMR	OD	FT. MFG.	WEIGHT	
2	DRILL ACTUAL				D.C. ID	OD	FT. TYPE	PRESSURE GRADIENT	
3	REAMING				STB RMR	OD	FT. JETS 1 3/2"	VISC.-SEC.	
4	CORING				D.C. ID	OD	FT. SER. NO.	PV/YP	
5	CONDITION MUD & CIRCULATE		2		STB RMR	OD	FT. DEPTH OUT	GELS	
6	TRIPS		13 1/2	3 1/2	STB RMR	OD	FT. DEPTH IN	WL -CC'S	
7	LUBRICATE RIG						FT. TOTAL FTG.	PH	
8	REPAIR RIG						FT. TOTAL HRS. RUN	SOLIDS %	
9	CUT OFF DRILLING LINE				STANDS DP	FT.	COND. 1/8" T/B GAGE	MUD & CHEMICALS ADDED	
10	DEVIATION SURVEY				SINGLES DP	FT.	GPM/ PD-PSI	TYPE	AMT.
11	WIRE LINE LOGS		5 1/2		KELLY DOWN	FT.		TYPE	AMT.
12	RUN CASING & CEMENT				TOTAL	FT.			
13	WAIT ON CEMENT				WT. OF STRING	LBS.			
14	NIPPLE UP B.O.P.								
15	TEST B.O.P.								

FOOTAGE		DR. D. RMR. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
		DEVIATION RECORD								
		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
		TIME LOG								
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
24:00	05:30	5 1/2	1	Velocity Survey						
05:30	09:00	2 1/2	16	Make up Dist. No. 1						

MORNING TOUR 24:00 P.M. 08:00 A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		<i>L. K. K. K.</i>	12
DRKMAN		<i>D. C. Smith</i>	12
MTRMAN		<i>T. M. C. C.</i>	12
FIRMAN			
FLRMAN		<i>R. F. M. M.</i>	12
FLRMAN			
FLRMAN			

NO. DRILLING ASSEMBLY (At end of tour)				BIT RECORD		MUD RECORD	
BIT	FT.	BIT NO.	TIME				
STB RMR	OD	FT. MFG.	WEIGHT				
D.C. ID	OD	FT. TYPE	PRESSURE GRADIENT				
STB RMR	OD	FT. JETS 1 3/2"	VISC.-SEC.				
D.C. ID	OD	FT. SER. NO.	PV/YP				
STB RMR	OD	FT. DEPTH OUT	GELS				
		FT. DEPTH IN	WL -CC'S				
		FT. TOTAL FTG.	PH				
		FT. TOTAL HRS. RUN	SOLIDS %				
STANDS DP	FT.	COND. 1/8" T/B GAGE	MUD & CHEMICALS ADDED				
SINGLES DP	FT.	GPM/ PD-PSI	TYPE	AMT.	TYPE	AMT.	
KELLY DOWN	FT.						
TOTAL	FT.						
WT. OF STRING	LBS.						

FOOTAGE		DR. D. RMR. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
		DEVIATION RECORD								
		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
		TIME LOG								
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
09:00	09:00	1	16	Make up DIST No. 1						
09:00	10:00	1	6	Run in Slime Strap in						
10:00	11:15	1 1/4	16	Head up To Test + Pump up Tool						
11:15	15:15	4	16	DIST No. 1						
15:15	16:00	3/4	6	Pull Out						

DAY TOUR 09:00 A.M. 12:00 P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER			
DRKMAN			
MTRMAN			
FIRMAN			
FLRMAN		<i>R. Wagner</i>	12
FLRMAN			
FLRMAN			

NO. DRILLING ASSEMBLY (At end of tour)				BIT RECORD		MUD RECORD	
BIT	FT.	BIT NO.	TIME				
STB RMR	OD	FT. MFG.	WEIGHT				
D.C. ID	OD	FT. TYPE	PRESSURE GRADIENT				
STB RMR	OD	FT. JETS 1 3/2"	VISC.-SEC.				
D.C. ID	OD	FT. SER. NO.	PV/YP				
STB RMR	OD	FT. DEPTH OUT	GELS				
		FT. DEPTH IN	WL -CC'S				
		FT. TOTAL FTG.	PH				
		FT. TOTAL HRS. RUN	SOLIDS %				
STANDS DP	FT.	COND. 1/8" T/B GAGE	MUD & CHEMICALS ADDED				
SINGLES DP	FT.	GPM/ PD-PSI	TYPE	AMT.	TYPE	AMT.	
KELLY DOWN	FT.						
TOTAL	FT.						
WT. OF STRING	LBS.						

FOOTAGE		DR. D. RMR. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
		DEVIATION RECORD								
		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
		TIME LOG								
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
16:00	16:30	1/2	6	Pull Out						
16:30	19:00	2 1/2	6	Break down Testing Tool + head Out.						
19:00	20:30	1 1/2	6	Run in drill Collars + Lay down						
20:30	22:00	1 1/2	6	Run in pipe pick up 12 singles						
22:00	24:00	2	5	Circ on Bottom wait on Cementers						

EVENING TOUR 16:00 P.M. 24:00 P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		<i>S. Pyzda</i>	12
DRKMAN		<i>R. Falk</i>	12
MTRMAN		<i>L. Hauser</i>	12
FIRMAN			
FLRMAN		<i>D. Lee</i>	12
FLRMAN			
FLRMAN			

DAILY DRILLING REPORT REPORT NO.

LEASE	WELL NO.	API WELL NUMBER	DATE
Amigo B-1 East Fl. H-13	B-1		2/22/73
OPERATOR	CONTRACTOR	RIG NO.	
Amigo Co. Ltd.	H. T. L. Co.	11	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER		
<i>[Signature]</i>	<i>[Signature]</i>		
D.P. SIZE	WT. FT.	GRADE	TOOL JT. Q.D.
4 1/2	16.6	E	6" FH
TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER
			Fisher
TYPE	STROKE LENGTH		
D-200			

LEGAL LAND DESCRIPTION	WIRE LINE RECORD	REEL NO.
	SIZE	NO. LINES
	FT. CUT OFF	FT. SLIPPED
	TON MI. OR TRIPS SINCE LAST CUT	
	CUMULATIVE TON MI. OR TRIPS	

DRILLING CREW PAYROLL DATA

DATE Feb 22, 1973
WELL NAME & NO. Amigo B-1 East Fl. H-13
COMPANY H. T. L. Co.
TOOL PUSHER Jim C. [unclear] RIG NO. 11

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	BIT	FT.	BIT NO.	TIME	WEIGHT	PRESSURE GRADIENT
1	RIG UP AND TEAR DOWN								
2	DRILL ACTUAL	7 1/2	7 1/2	STB RMR	OD	FT. MFG.	4 1/2	4.7	4.7
3	REAMING			D.C. ID	OD	FT. TYPE	13 1/2	2.8	2.8
4	CORING			STB RMR	OD	FT. JETS 1/32"	13 1/2	2.8	2.8
5	CONDITION MUD & CIRCULATE	1 1/4		D.C. ID	OD	FT. SER. NO.	48965		
6	TRIPS	1 1/4		STB RMR	OD	FT. DEPTH OUT			
7	LUBRICATE RIG	1 1/4				DEPTH IN	2503		
8	REPAIR RIG					TOTAL FTG.	397		
9	CUT OFF DRILLING LINE					TOTAL HRS. RUN	16 1/4		
10	DEVIATION SURVEY	1 1/4		40 STANDS DP	2444.50 FT.	COND. 1/8" T/B GAGE			
11	WIRE LINE LOGS	3 1/4	8	SINGLES DP	2400 FT.	GPM/ PD-PSI			
12	RUN CASING & CEMENT			KELLY DOWN	2400 FT.				
13	WAIT ON CEMENT			TOTAL	2490 FT.				
14	NIPPLE UP B.O.P.			WT. OF STRING	70.800 LBS.				

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	BIT	FT.	BIT NO.	TIME	WEIGHT	PRESSURE GRADIENT
15	TEST B.O.P.								
16	DRILL STEM TEST								
17	PLUG BACK								
18	SQUEEZE CEMENT								
19	FISHING								
20	DIR. WORK								
21									
22									
23									
A	PERF. RTN								
B	TBG TRIPS								
C	TREATING								
D	SWABBING								
E	TESTING								
F	ADDITIONAL								
G									
40	STANDS DP			1 STANDS DP	2529.50 FT.	COND. 1/8" T/B GAGE			
1	SINGLES DP			KELLY DOWN	12.55 FT.	GPM/ PD-PSI			
TOTAL				TOTAL	2910.00 FT.				
WT. OF STRING				WT. OF STRING	70.800 LBS.				

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	BIT	FT.	BIT NO.	TIME	WEIGHT	PRESSURE GRADIENT
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40	STANDS DP			1 STANDS DP	2529.50 FT.	COND. 1/8" T/B GAGE			
1	SINGLES DP			KELLY DOWN	12.55 FT.	GPM/ PD-PSI			
TOTAL				TOTAL	2910.00 FT.				
WT. OF STRING				WT. OF STRING	70.800 LBS.				

TOTALS				8 8 8	
DAY WORK TIME SUMMARY (OFFICE USE ONLY)					
HRS. W/CONTR. D.P.					
HRS. W/OPR. D.P.					
HRS. W/O D.P.					
HRS. STANDBY					
TOTAL DAY WORK					
NO. OF DAYS FROM START					
CUMULATIVE DRILLING HRS.					
TOTAL MUD COST					

FOOTAGE		DR. D. RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
2662	2990									
DEVIATION RECORD										
DEPTH										
TIME LOG										
FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										
27:00 29:15 1 1/4 7 Rig Service V B.O.P.										
29:15 08:00 7 1/4 2 Drill T.D. @ 08:45										

FOOTAGE		DR. D. RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
2870	2910									
DEVIATION RECORD										
DEPTH										
TIME LOG										
FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										
08:00 08:15 1 1/2 7 Rig Service V B.O.P.										
08:15 08:45 1 1/2 2 Drill T.D. @ 08:45										
08:45 10:30 1 1/4 5 Core condition check										
10:30 10:45 1 1/4 10 New Service										
10:45 12:30 1 1/4 6 Pull out To Log String Out. Fall 2028.93										
12:30 16:00 3 1/2 11 Logging.										

FOOTAGE		DR. D. RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
DEVIATION RECORD										
DEPTH										
TIME LOG										
FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										
16:00 2400 9 11 Log & Velocity Survey										

MORNING TOUR				P.M.		A.M.	
CREW	SOC. SEC. NO.	NAME	HRS.				
DRILLER		L. K. [unclear]	12				
DRKMAN		D. C. Smith	12				
MTRMAN		J. McCarran	12				
FIREMAN							
FLRMAN		R. E. [unclear]	12				
FLRMAN							
FLRMAN							

DAY TOUR				P.M.		A.M.	
CREW	SOC. SEC. NO.	NAME	HRS.				
DRILLER							
DRKMAN							
MTRMAN							
FIREMAN							
FLRMAN		R. Wagner	12				
FLRMAN							
FLRMAN							

EVENING TOUR				P.M.		P.M.	
CREW	SOC. SEC. NO.	NAME	HRS.				
DRILLER		S. Pyzda	12				
DRKMAN		R. Folk	12				
MTRMAN		L. Hauser	12				
FIREMAN							
FLRMAN		D. Lee	12				
FLRMAN							
FLRMAN							

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

DAILY DRILLING REPORT

LEASE NO.				WELL NO.		API WELL NUMBER		DATE	
Amigo B-1 East Field H-13				B-1				2/22/73	
OPERATOR				CONTRACTOR				RIG NO.	
Amigo Can Ltd				H. Tower				11	
SIGNATURE OF OPERATOR'S REPRESENTATIVE				SIGNATURE OF CONTRACTOR'S TOOL PUSHER					
<i>[Signature]</i>				<i>[Signature]</i>					
D.P. SIZE	WT. FT.	GRADE	TOOL JT. Q.D.	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4"	16.6	E	6"	FH			Fuso	D-300	

LEGAL LAND DESCRIPTION								WIRE LINE RECORD			REEL NO.
LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSC. MD.	SET AT	SIZE	NO. LINES	FT. SLIPPED	
	8 1/2							597	FT. CUT OFF		PRESENT LENGTH
									TON MI. OR TRIPS SINCE LAST CUT		
									CUMULATIVE TON MI. OR TRIPS		

DRILLING CREW PAYROLL DATA

DATE Feb 21 1973

WELL NAME & NO. Proctor 14-111-13

COMPANY Winters

TOOL PUSHER Stewart RIG NO. 11

TIME DISTRIBUTION - HOURS					NO.		DRILLING ASSEMBLY (At end of run)		BIT RECORD				MUD RECORD				
CODE NO.	- OPERATION	MORN.	DAY	EVE.			BIT		FT.	BIT NO.				TIME			
1.	RIG UP AND TEAR DOWN										4				24.00	03.00	06.00
2.	DRILL ACTUAL	7 3/4	7 1/2				STB RMR	OD		SIZE	7 7/8			WEIGHT	3.7	3.7	3.8
3.	REAMING						D.C. ID	OD	36 1/2	MFG.	H.W.			PRESSURE GRADIENT	400	400	457
4.	CORING						STB RMR	OD		TYPE	X5512			VISC.-SEC	28	28	28
5.	CONDITION MUD & CIRCULATE		1 3/4				D.C. ID	OD		JETS 1-32"	13/13			PV-VP	/	/	/
6.	TRIPS		1 1/4				STB RMR	OD		SER. NO.	48905			GELS	/	/	/
7.	LUBRICATE RIG	1 1/2	1 1/2							DEPTH OUT				WL -CC'S			
8.	REPAIR RIG									DEPTH IN	2505			pH			
9.	CUT OFF DRILLING LINE									TOTAL FTG.	387			SOLIDS %			
10.	DEVIATION SURVEY		1 1/4							TOTAL MRS. RUN	16 1/2						
11.	WIRE LINE LOGS	3 3/4	8				40	STANDS DP	2498.50	COND. 1/8" T/B- GAGE							
12.	RUN CASING & CEMENT							SINGLES DP		GPM/ PD-PSI							
13.	WAIT ON CEMENT							KELLY DOWN	24.00					Benex	8#		
								TOTAL	2490.								
								WT. OF STRING	70.000	LBS.							

[illegible][illegible]

14. NIPPLE UP B.O.P.		NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD				MUD RECORD					
15. TEST B.O.P.		BIT		FT.		BIT NO.		4		TIME		18:00 10:00	
16. DRILL STEM TEST		STB RMR		OD		SIZE		7 7/8		WEIGHT		8.8 3.9	
17. PLUG BACK		STB RMR		OD		MFG.		H W		PRESSURE GRADIENT		457 457	
18. SQUEEZE CEMENT		D.C. ID		OD		TYPE		X55-3		VISC.-SEC.		28 85	
19. FISHING		STB RMR		OD		JET 1/32"		13/13/15		PV/VP		/ / /	
20. DIR. WORK		D.C. ID		OD		SER. NO.		48908		GELS		/ / /	
21.		STB RMR		OD		DEPTH OUT		2910		WL.-CC'S			
22.						DEPTH IN		2503		pH			
23.						TOTAL FTG.		407		SOLIDS %			
						TOTAL MRS. RUN		1634					
		40 STANDS DP		FT.		COND. 1/8" T/B/ GAGE		1 2 1					
		1 SINGLES DP		2539.95FT.		GPM/ PD.-PSI		/ /		MUD & CHEMICALS ADDED			
		KELLY DOWN		12:55FT.						TYPE		AMT.	
		TOTAL		2910.50FT.						TYPE		AMT.	
		WT. OF STRING		70.000 LBS.									

[illegible][illegible]

TOTALS				NO. DRILLING ASSEMBLY (At end of tour)				BIT RECORD				MUD RECORD			
DAY WORK TIME SUMMARY (OFFICE USE ONLY)				BIT		FT.	BIT NO.				TIME				
				SIZE			WEIGHT								
MRS. W/CONT. D.P.				STB	OD		FT. MFG.				PRESSURE GRADIENT				
MRS. W/OPR. D.P.				D.C. ID	OD		FT. TYPE				VISC. SEC.				
MRS. WD.D.P.				STB	OD		FT. JETS 1/32"				PV/YP	/	/		
MRS. STANDBY				D.C. ID	OD		FT. SER. NO.				GELS	/	/		
				STB	OD		FT. DEPTH OUT				WL. CC'S				
				DEPTH IN							pH				
				TOTAL FTG.							SOLIDS %				
				TOTAL MRS. RUN											
TOTAL DAY WORK				STANDS DP	FT.	COND. 1/8" 7/8" GAGE					MUD & CHEMICALS ADDED				
				SINGLES DP	FT.	GPM/ PD-PSI					TYPE	AMT.	TYPE	AMT.	
NO. OF DAYS FROM START CUMULATIVE ROTATING MRS.				KELLY DOWN	FT.										
				TOTAL	FT.										
TOTAL MUD COST				WT. OF STRING	LBS.										

[illegible][illegible]

APPROVED



APPROVED

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



APPROVED
(Rev. Jan. 1/71)

DAILY DRILLING REPORT

REPORT NO.

LEASE	WELL NO.	API WELL NUMBER	DATE
OPERATOR	CONTRACTOR		RIG NO.
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER	
D.P. SIZE	WT. FT.	GRADE	TOOL JT. Q.D.
TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER
TYPE	STROKE LENGTH		

LEGAL LAND DESCRIPTION

LAST CASING
TUBING OR LINER

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

WIRE LINE RECORD

REEL NO.	SIZE	NO. LINES	FT. SLIPPER
FT. CUT OFF		PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT			
CUMULATIVE TON MI. OR TRIPS			

DRILLING CREW PAYROLL DATA

DATE	WELL NAME & NO.	COMPANY	TOOL PUSHER	RIG NO.
MORNING TOUR				
CREW	SOC. SEC. NO.	NAME	HRS.	
DRILLER				
DRKMAN				
WTRMAN				
FIREMAN				
FLRMAN				
FLRMAN				
FLRMAN				
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT				

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	
1.	RIG UP AND TEAR DOWN				STB RMR	OD	FT. MFG.	WEIGHT	
2.	DRILL ACTUAL				D.C. ID	OD	FT. TYPE	PRESSURE GRADIENT	
3.	CEILING				STB RMR	OD	FT. JETS 1 3/2"	VISC.-SEC.	
4.	CORING				D.C. ID	OD	FT. SER. NO.	PV YP	
5.	CONDITION MUD & CIRCULATE				STB RMR	OD	FT. DEPTH OUT	GELS.	
6.	TRIPS						DEPTH IN	WL -CC'S	
7.	LUBRICATE RIG						TOTAL FTG.	pH	
8.	REPAIR RIG						TOTAL HRS. RUN	SOLIDS %	
9.	CUT OFF DRILLING LINE				STANDS DP	FT.	COND. 1 1/8" T.B. GAGE	MUD & CHEMICALS ADDED	
10.	DEVIATION SURVEY				SINGLES DP	FT.	GPM/ PD-PSI	TYPE	AMT.
11.	WIRE LINE LOGS				KELLY DOWN	FT.			
12.	RUN CASING & CEMENT				TOTAL	FT.			
13.	WAIT ON CEMENT				WT. OF STRING	LBS.			
14.	HI-PLE UP B.O.P.								

MORNING TOUR

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	
15.	TEST B.O.P.				STB RMR	OD	FT. MFG.	WEIGHT	
16.	DRILL STEM TEST				D.C. ID	OD	FT. TYPE	PRESSURE GRADIENT	
17.	PLUG BACK				STB RMR	OD	FT. JET 1 3/2"	VISC.-SEC.	
18.	SQUEEZE CEMENT				D.C. ID	OD	FT. SER. NO.	PV YP	
19.	FISHING				STB RMR	OD	FT. DEPTH OUT	GELS.	
20.	DIR. WORK						DEPTH IN	WL -CC'S	
21.							TOTAL FTG.	pH	
22.							TOTAL HRS. RUN	SOLIDS %	
23.					STANDS DP	FT.	COND. 1 1/8" T.B. GAGE	MUD & CHEMICALS ADDED	
					SINGLES DP	FT.	GPM/ PD-PSI	TYPE	AMT.
					KELLY DOWN	FT.			
					TOTAL	FT.			
					WT. OF STRING	LBS.			

DAY TOUR

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	
24.	TEST B.O.P.				STB RMR	OD	FT. MFG.	WEIGHT	
25.	DRILL STEM TEST				D.C. ID	OD	FT. TYPE	PRESSURE GRADIENT	
26.	PLUG BACK				STB RMR	OD	FT. JET 1 3/2"	VISC.-SEC.	
27.	SQUEEZE CEMENT				D.C. ID	OD	FT. SER. NO.	PV YP	
28.	FISHING				STB RMR	OD	FT. DEPTH OUT	GELS.	
29.	DIR. WORK						DEPTH IN	WL -CC'S	
30.							TOTAL FTG.	pH	
31.							TOTAL HRS. RUN	SOLIDS %	
32.					STANDS DP	FT.	COND. 1 1/8" T.B. GAGE	MUD & CHEMICALS ADDED	
					SINGLES DP	FT.	GPM/ PD-PSI	TYPE	AMT.
					KELLY DOWN	FT.			
					TOTAL	FT.			
					WT. OF STRING	LBS.			

EVENING TOUR

TOTALS	DAY WORK TIME SUMMARY (OFFICE USE ONLY)			
HRS. W/CONTR. D.P.				
HRS. W/OPR. D.P.				
HRS. W/D.P.				
HRS. STANDBY				
TOTAL DAY WORK				
NO. OF DAYS FROM START				
CUMULATIVE ROTATING HRS.				
TOTAL MUD COST				

FOOTAGE		DR. D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
100	105									
DEVIATION RECORD										
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO									
100	105	1/4	1							
105	110	1/4	2							
110	120	1/2	10	SQUEEZE CEMENT						
120	125	1/2	3	SQUEEZE CEMENT						

FOOTAGE		DR. D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
2105	2305									
DEVIATION RECORD										
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO									
1105	1115	1/4	2	L.C. SQUEEZE CEMENT						
1115	1125	1/4	2	SQUEEZE CEMENT						
1125	1145	1/4	10	SQUEEZE CEMENT						
1145	1200	1/4	2	SQUEEZE CEMENT						

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

LEASE	WELL NO.	API WELL NUMBER	DATE
OPERATOR	CONTRACTOR		RIG NO.
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER	
D.P. SIZE	WT. FT.	GRADE	TOOL JT. Q.D.
4 1/2	1	1	1
TYPE	THREAD	STRING NO.	PUMP NO.
1 1/2	1 1/2		
PUMP MANUFACTURER		TYPE	STROKE LENGTH
		12 3 2	1

LEGAL LAND DESCRIPTION	WIRE LINE RECORD	REEL NO.
SIZE	MAKE	WT. & GR.
NO. JOINTS	FEET	RKB. TO CSG. NO.
SET AT	SIZE	NO. LINES
FT. CUT OFF	PRESENT LENGTH	
TON ML. OR TRIPS SINCE LAST CUT		
CUMULATIVE TON ML. OR TRIPS		

DRILLING CREW PAYROLL DATA			
DATE	WELL NAME & NO.		
COMPANY			
TOOL PUSHER			
RIG NO.			

TIME DISTRIBUTION - HOURS			
CODE NO.	OPERATION	MORN.	DAY
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	4.5	8.5
3	REAMING		7.5
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.G.P.		
15	TEST B.G.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DR. WORK		
21	WIRE LINE LOGS		
22			
23			

NO. DRILLING ASSEMBLY (At end of tour)			
BIT	FT.	BIT NO.	TIME
STB RMR	OD	FT. MFG.	WEIGHT
D.C. ID	OD	FT. TYPE	PRESSURE GRADIENT
STB RMR	OD	FT. JETS 1/32"	VISC-SEC
D.C. ID	OD	FT. SER. NO.	PV/YP
STB RMR	OD	FT. DEPTH OUT	GELS
DEPTH IN			
TOTAL FTG.			
TOTAL HRS. RUN			
COND. 1/8" T/B GAGE			
GPM/ PD-PSI			
KELLY DOWN			
TOTAL			
WT. OF STRING			

NO. DRILLING ASSEMBLY (At end of tour)			
BIT	FT.	BIT NO.	TIME
STB RMR	OD	FT. MFG.	WEIGHT
D.C. ID	OD	FT. TYPE	PRESSURE GRADIENT
STB RMR	OD	FT. JETS 1/32"	VISC-SEC
D.C. ID	OD	FT. SER. NO.	PV/YP
STB RMR	OD	FT. DEPTH OUT	GELS
DEPTH IN			
TOTAL FTG.			
TOTAL HRS. RUN			
COND. 1/8" T/B GAGE			
GPM/ PD-PSI			
KELLY DOWN			
TOTAL			
WT. OF STRING			

COMPLETION			
A. PERF. T'N			
B. TBC TRIPS			
C. TREATING			
D. SWABBING			
E. TESTING			
F. ADIT'WL			
G.			
TOTALS			
DAY WORK TIME SUMMARY (OFFICE USE ONLY)			
HRS. W/CONTR. D.P.			
HRS. W/OPR. D.P.			
HRS. W/D.P.			
HRS. STANDBY			
TOTAL DAY WORK			
NO. OF DAYS FROM START TO END			
TOTAL HRS. DRILLING			
TOTAL HRS. DRILLING			

FOOTAGE			
FROM	TO	DR. D. RMR. CORE. C	CORE NO.
1 3	12 0		
FORMATION (SHOW CORE RECOVERY)			
ROTARY RPM	WT. ON BIT 1000	PUMP PRESS	PUMP NO.
LINEAR SIZE	S.P.M.	LINEAR SIZE	S.P.M.
DEVIATION RECORD			
DEPTH	DEV.	DIRECTION	DEPTH
DEV.	DIRECTION	DEPTH	DEV.
TIME LOG			
FROM	TO	ELAPSED TIME	CODE NO.
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS			

FOOTAGE			
FROM	TO	DR. D. RMR. CORE. C	CORE NO.
12 0	12 0		
FORMATION (SHOW CORE RECOVERY)			
ROTARY RPM	WT. ON BIT 1000	PUMP PRESS	PUMP NO.
LINEAR SIZE	S.P.M.	LINEAR SIZE	S.P.M.
DEVIATION RECORD			
DEPTH	DEV.	DIRECTION	DEPTH
DEV.	DIRECTION	DEPTH	DEV.
TIME LOG			
FROM	TO	ELAPSED TIME	CODE NO.
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS			

FOOTAGE			
FROM	TO	DR. D. RMR. CORE. C	CORE NO.
12 0	12 0		
FORMATION (SHOW CORE RECOVERY)			
ROTARY RPM	WT. ON BIT 1000	PUMP PRESS	PUMP NO.
LINEAR SIZE	S.P.M.	LINEAR SIZE	S.P.M.
DEVIATION RECORD			
DEPTH	DEV.	DIRECTION	DEPTH
DEV.	DIRECTION	DEPTH	DEV.
TIME LOG			
FROM	TO	ELAPSED TIME	CODE NO.
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS			

MORNING TOUR			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER			
DRKMAN			
MTRMAN			
FIREMAN			
FLRMAN			
FLRMAN			
FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			

DAY TOUR			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER			
DRKMAN			
MTRMAN			
FIREMAN			
FLRMAN			
FLRMAN			
FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			

EVENING TOUR			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER			
DRKMAN			
MTRMAN			
FIREMAN			
FLRMAN			
FLRMAN			
FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			



LEASE	WELL NO.	API WELL NUMBER	DATE
OPERATOR	CONTRACTOR		RIG NO.
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER	
D.P. SIZE	WT./FT.	GRADE	TOOL JT. Q.D.
TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER
TYPE	STROKE LENGTH		

LEGAL LAND DESCRIPTION

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO C.S.G. HD.	SET AT
LAST CASING TUBING OR LINER						

WIRE LINE RECORD

REEL NO.	SIZE	NO. LINES	FT. SLIPPED
FT. CUT OFF		PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT			
CUMULATIVE TON MI. OR TRIPS			

DRILLING CREW PAYROLL DATA

DATE	WELL NAME & NO.	COMPANY
TOOL PUSHER		RIG NO.

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	WEIGHT
1.	RIG UP AND TEAR DOWN				STB RMR	OD	FT. MFG.		PRESSURE GRADIENT
2.	DRILL ACTUAL				D.C. ID	OD	FT. TYPE		VISC.-SEC.
3.	REAMING				STB RMR	OD	FT. JETS 1 3/2"		PV/YP
4.	CORING				D.C. ID	OD	FT. SER. NO.		GELS.
5.	CONDITION MUD & CIRCULATE				STB RMR	OD	FT. DEPTH OUT		WL.-CC'S
6.	TRIPS						DEPTH IN		pH
7.	LUBRICATE RIG						TOTAL FTG.		SOLIDS %
8.	REPAIR RIG						TOTAL HRS. RUN		
9.	CUT OFF DRILLING LINE				STANDS DP	FT.	COND. 1/8" T/B. GAGE		MUD & CHEMICALS ADDED
10.	DEVIATION SURVEY				SINGLES DP	FT.	GPM/ PD-PSI		TYPE AMT. TYPE AMT.
11.	WIRE LINE LOGS				KELLY DOWN	FT.			
12.	RUN CASING & CEMENT				TOTAL	FT.			
13.	WAIT ON CEMENT				WT. OF STRING	LBS.			
14.	NIPPLE UP B.O.P.								
15.	TEST B.O.P.								
16.	DRILL STEM TEST								
17.	PLUG BACK								
18.	SQUEEZE CEMENT								
19.	FISHING								
20.	DIR. WORK								
21.									
22.									
23.									

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	WEIGHT
1.	RIG UP AND TEAR DOWN				STB RMR	OD	FT. MFG.		PRESSURE GRADIENT
2.	DRILL ACTUAL				D.C. ID	OD	FT. TYPE		VISC.-SEC.
3.	REAMING				STB RMR	OD	FT. JETS 1 3/2"		PV/YP
4.	CORING				D.C. ID	OD	FT. SER. NO.		GELS.
5.	CONDITION MUD & CIRCULATE				STB RMR	OD	FT. DEPTH OUT		WL.-CC'S
6.	TRIPS						DEPTH IN		pH
7.	LUBRICATE RIG						TOTAL FTG.		SOLIDS %
8.	REPAIR RIG						TOTAL HRS. RUN		
9.	CUT OFF DRILLING LINE				STANDS DP	FT.	COND. 1/8" T/B. GAGE		MUD & CHEMICALS ADDED
10.	DEVIATION SURVEY				SINGLES DP	FT.	GPM/ PD-PSI		TYPE AMT. TYPE AMT.
11.	WIRE LINE LOGS				KELLY DOWN	FT.			
12.	RUN CASING & CEMENT				TOTAL	FT.			
13.	WAIT ON CEMENT				WT. OF STRING	LBS.			
14.	NIPPLE UP B.O.P.								
15.	TEST B.O.P.								
16.	DRILL STEM TEST								
17.	PLUG BACK								
18.	SQUEEZE CEMENT								
19.	FISHING								
20.	DIR. WORK								
21.									
22.									
23.									

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	WEIGHT
1.	RIG UP AND TEAR DOWN				STB RMR	OD	FT. MFG.		PRESSURE GRADIENT
2.	DRILL ACTUAL				D.C. ID	OD	FT. TYPE		VISC.-SEC.
3.	REAMING				STB RMR	OD	FT. JETS 1 3/2"		PV/YP
4.	CORING				D.C. ID	OD	FT. SER. NO.		GELS.
5.	CONDITION MUD & CIRCULATE				STB RMR	OD	FT. DEPTH OUT		WL.-CC'S
6.	TRIPS						DEPTH IN		pH
7.	LUBRICATE RIG						TOTAL FTG.		SOLIDS %
8.	REPAIR RIG						TOTAL HRS. RUN		
9.	CUT OFF DRILLING LINE				STANDS DP	FT.	COND. 1/8" T/B. GAGE		MUD & CHEMICALS ADDED
10.	DEVIATION SURVEY				SINGLES DP	FT.	GPM/ PD-PSI		TYPE AMT. TYPE AMT.
11.	WIRE LINE LOGS				KELLY DOWN	FT.			
12.	RUN CASING & CEMENT				TOTAL	FT.			
13.	WAIT ON CEMENT				WT. OF STRING	LBS.			
14.	NIPPLE UP B.O.P.								
15.	TEST B.O.P.								
16.	DRILL STEM TEST								
17.	PLUG BACK								
18.	SQUEEZE CEMENT								
19.	FISHING								
20.	DIR. WORK								
21.									
22.									
23.									

TOTALS	8	5	8
DAY WORK TIME SUMMARY (OFFICE USE ONLY)			
HRS. W/CONTR. D.P.			
HRS. W/OPR. D.P.			
HRS. W/D.P.			
HRS. STANDBY			
TOTAL DAY WORK			
NO. OF DAYS FROM START OF DRILLING TO END OF DRILLING			
TOTAL MUD COST			

FOOTAGE		DR. D. RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000*	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
DEVIATION RECORD										
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO									

FOOTAGE		DR. D. RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000*	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
DEVIATION RECORD										
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO									

FOOTAGE		DR. D. RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000*	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
DEVIATION RECORD										
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO									

TOTALS	8	5	8
DAY WORK TIME SUMMARY (OFFICE USE ONLY)			
HRS. W/CONTR. D.P.			
HRS. W/OPR. D.P.			
HRS. W/D.P.			
HRS. STANDBY			
TOTAL DAY WORK			
NO. OF DAYS FROM START OF DRILLING TO END OF DRILLING			
TOTAL MUD COST			

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

LEASE Amoco B-1 East 17th B-1	WELL NO. B-1	API WELL NUMBER 11	DATE 11-17-72
OPERATOR Amoco Canada Ltd Co Ltd	CONTRACTOR 11		RIG NO. 11
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>	
D.P. SIZE 1 1/2	WT./FT. 11.6	GRADE 11.6	TOOL JT. Q.D. 11.6
TYPE THREAD 11.6	STRING NO. 11.6	PUMP NO. 11.6	PUMP MANUFACTURER 11.6
TYPE 11.6		STROKE LENGTH 11.6	

LEGAL LAND DESCRIPTION

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
LAST CASING TUBING OR LINER						

WIRE LINE RECORD

REEL NO.	NO. LINES	FT. SLIPPED
FT. CUT OFF		
PRESENT LENGTH		
TON MI. OR TRIPS SINCE LAST CUT		
CUMULATIVE TON MI. OR TRIPS		

DRILLING CREW PAYROLL DATA

DATE	WELL NAME & NO.	COMPANY	TOOL PUSHER	RIG NO.

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	WEIGHT
1	RIG UP AND TEAR DOWN								
2	DRILL ACTUAL								
3	REAMING								
4	CORING								
5	CONDITION MUD & CIRCULATE								
6	TRIPS								
7	LUBRICATE RIG								
8	REPAIR RIG								
9	CUT OFF DRILLING LINE								
10	DEVIATION SURVEY								
11	WIRE LINE LOGS								
12	RUN CASING & CEMENT								
13	WAIT ON CEMENT								
14	RIFFLE UP B.O.P.								
15	TEST B.O.P.								
16	DRILL STEM TEST								
17	PLUG BACK								
18	SQUEEZE CEMENT								
19	FISHING								
20	DIR. WORK								
21	W. H.								
22	A.C. W.U.								
23									

NO. DRILLING ASSEMBLY (At end of tour)				BIT RECORD		MUD RECORD	
BIT	FT.	BIT NO.	TIME	WEIGHT	PRESSURE GRADIENT		
STB RMR	OD	FT.	MFG.				
D.C. ID	OD	FT.	TYPE				
STB RMR	OD	FT.	JETS 1/32"				
D.C. ID	OD	FT.	SER. NO.				
STB RMR	OD	FT.	DEPTH OUT				
DEPTH IN							
TOTAL FTG.							
TOTAL HRS. RUN							
COND. 1/8" T/B GAGE							
GPM/ PD-PSI							
STANDS DP							
SINGLES DP							
KELLY DOWN							
TOTAL							
WT. OF STRING							

NO. DRILLING ASSEMBLY (At end of tour)				BIT RECORD		MUD RECORD	
BIT	FT.	BIT NO.	TIME	WEIGHT	PRESSURE GRADIENT		
STB RMR	OD	FT.	MFG.				
D.C. ID	OD	FT.	TYPE				
STB RMR	OD	FT.	JETS 1/32"				
D.C. ID	OD	FT.	SER. NO.				
STB RMR	OD	FT.	DEPTH OUT				
DEPTH IN							
TOTAL FTG.							
TOTAL HRS. RUN							
COND. 1/8" T/B GAGE							
GPM/ PD-PSI							
STANDS DP							
SINGLES DP							
KELLY DOWN							
TOTAL							
WT. OF STRING							

TOTALS			
DAY WORK TIME SUMMARY (OFFICE USE ONLY)			
HRS. W/ CONTR. D.P.			
HRS. W/ OPER. D.P.			
HRS. W/ D.P.			
HRS. STANDBY			
TOTAL DAY WORK			
HRS. OF DAYS			
TOTAL HRS. RUN			
TOTAL MUD COST			

FOOTAGE		DR. D. RMR. CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000+		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FROM	TO																		
0	15																		

FOOTAGE		DR. D. RMR. CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000+		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FROM	TO																		
65	200																		

FOOTAGE		DR. D. RMR. CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000+		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FROM	TO																		
300	362																		



DAILY DRILLING REPORT

Form with multiple sections: RIG NO., ACCIDENT - FREE DAYS TO DATE, WELL NAME, DATE, DAYS FROM SPUD, REPORT NO., GRAVEYARD TOUR, DEPTH, PROGRESS, SURVEY, BIT RECORD, MUD RECORD, TIME DISTRIBUTION - HOURS, DETAILS OF OPERATIONS, ACCUMULATOR & B.O.P. TEST REPORT, ENGINE HOURS, TON MILES, FUEL, WATER, etc.



D.P. CALIPERED DATE _____ D.C. INSPECTION DATE _____ CASING & B.O.P. PRESSURE TESTED TO 1300 P.S.I. ✓ DATE Feb 18/73 RESULTS Good
CONSERVATION ENGINEER

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 11 LOCATION Amoco B-1 East Flett H-13 AREA Liard DATE Feb 20/73

Tour — Midnight - 8 a.m.		From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS					C.B. Ft.		Subs Ft.		Ft. Up On Kelly										
Specify actual hours worked		Hrs.														No. O. D. I. D. Length Wgt.																			
Driller	L. Kreutzer	12		1630		230		1980		7314		5		1467		12 6 1/4 27 3/8 36 1/2 30									18										
IT IS ESSENTIAL TO RECORD SIZE OF JET NOZZLES OR WATER COURSES																																			
Derrick	D.C. Smith	12		No.		Size		Type & Jet Size		Serial No.		Weight		R.M.		Ft. Drilled		Hrs.		Feet Reamed		Hrs.		CONDITION											
Floor				2		7 7/8		J55		3-15		45168		30		60		650		25%				15											
Floor	R.E. Murray	12		MUD		12 Mm.		2 a.m.		4 a.m.		6 a.m.		Additives		At Surveys Degree		MOTOR HOURS		Next Oil Change		FUEL													
Floor				WEIGHT		2.5		3.5		3.5		3.5		2.5		2.5		1				35" Gels													
Motor	J. McCarrach	12		VISCOSITY		2.5		2.5		2.5		2.5		2.5		2.5		2				WATER													
Mechanic				GEL														3				Bbls													
Extra				Pump Pressure		Model		1.2		1.2		1.2		1.2				4				COAL													
Injuries:				Pump S.P.M.		Model		70		70		70		70		Size		TRIPS		No. Lines		TON MILES		TOTAL MILES		Slip		Feet or		Cut		Feet Left on Spool		Next Slip	
Fires:				Pump Liner Size		Model		2		2		2		2		General																			
W.L. F.C. pH.																																			
Tour — 8 a.m. to 4 p.m.																																			
Specify actual hours worked		Hrs.		From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS					C.B. Ft.		Subs Ft.		Ft. Up On Kelly								
																		No. O. D. I. D. Length Wgt.																	
Driller				1910		345		2105		744		57		27		12 6 1/4 27 3/8 36 1/2 30									22										
IT IS ESSENTIAL TO RECORD SIZE OF JET NOZZLES OR WATER COURSES																																			
Derrick				No.		Size		Type & Jet Size		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed		Hrs.		CONDITION											
Floor				2		7 7/8		J55		3-15		45168		30		60		895		34															
Floor				MUD		8 a.m.		10 a.m.		12 noon		2 p.m.		Additives		At Surveys Degree		MOTOR HOURS		Next Oil Change		FUEL													
Floor	R. Wagner	12		WEIGHT		3.0		3.0		3.0		3.0		2.0		2.0		1				Gels													
Motor				VISCOSITY		3.0		3.0		3.0		3.0		3.0		3.0		2				WATER													
Mechanic				GEL		2.8		2.8										3				Bbls													
Extra				Pump Pressure		Model		600		600		600		600				4				COAL													
Injuries:				Pump S.P.M.		Model		12		12		12		12		Size		TRIPS		No. Lines		TON MILES		TOTAL MILES		Slip		Feet or		Cut		Feet Left on Spool		Next Slip	
Fires:				Pump Liner Size		Model		22		22		22		22		General																			
W.L. F.C. pH.																																			
Tour — 4 p.m. to Midnight																																			
Specify actual hours worked		Hrs.		From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS					C.B. Ft.		Subs Ft.		Ft. Up On Kelly								
																		No. O. D. I. D. Length Wgt.																	
Driller	S. R. R.	12		2105		200		2305		744		65		30		12 6 1/4 27 3/8 36 1/2 30									9										
IT IS ESSENTIAL TO RECORD SIZE OF JET NOZZLES OR WATER COURSES																																			
Derrick	R. Folk	12		No.		Size		Type & Jet Size		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed		Hrs.		CONDITION											
Floor				2		7 7/8		J65		3 1/2		45																							

	REMARKS	Time		
		Start	Stop	Interval
	Rig Service ✓ B.O.D.	12 ⁰⁰	12 ¹⁵	1/4
	Drill	12 ¹⁵	8 ⁰⁰	7 1/4
Company Time	Cont'r Time			
	Rig Service ✓ B.O.D.	8 ¹⁵	8 ¹⁵	1/4
	Drill	8 ¹⁵	12 ³⁰	3 3/4
	BURNEY CLEAN MUD TANK	12 ⁰⁰	12 ³⁰	1/2
	DRILL	12 ³⁰	4 ⁰⁰	3 1/2
Company Time	Cont'r Time			
	RIG SERVICE & B.O.P.	4 ¹⁵	4 ¹⁵	1/4
	Drill	4 ¹⁵	9 ³⁰	5 1/4
	BURNEY	9 ³⁰	9 ⁴⁵	1/4
	DRILL	9 ⁴⁵	12 ⁰⁰	2 1/4
Company Time	Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____
FORM 110 THIS COPY TO CONSERVATION BOARD (MAIL TO CALGARY OFFICE)

Total Contractor Time _____ Hrs. Toolpusher [Signature]
Total Company Time _____ Hrs. Approved by _____



DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 11 LOCATION Alamo B-1 East Flt H-13 AREA Liard DATE Feb 19/73	
Tour — Midnight - 8 a.m.	
Specify actual hours worked	Hrs.
Driller L. Kreutzler	12
Derrick D.C. Smith	12
Floor R.E. Murray	12
Floor R. Wagner	12
Motor J. McCurrah	12
Mechanic	
Extra	
Injuries:	
Fires:	
Tour — 8 a.m. to 4 p.m.	
Specify actual hours worked	Hrs.
Driller	
Derrick	
Floor	
Floor	
Motor	
Mechanic	
Extra	
Injuries:	
Fires:	
Tour — 4 p.m. to Midnight	
Specify actual hours worked	Hrs.
Driller P. Pyzda	12
Derrick R. Polk	12
Floor	
Floor D. KEE	12
Motor L. Hauser	12
Mechanic	
Extra	
Injuries:	
Fires:	

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS				C.B. Ft.	Subs Ft.	Ft. Up On Kelly
No.	Size	Type & Jet Size	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION			
1	7 7/8 X 3 A	3-15	48480	20	140	613	10 3/4			4-3-0 1/2			
2	7 7/8 X 55	2-15	45165	30	50	57	2 3/4			R.			
MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change FUEL 50													
WEIGHT													
VISCOSITY													
GEL													
Pump Pressure	Model												
Pump S.P.M.	Model												
Pump Liner Size	Model												
General													
W.L.	F.C.	pH.											

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS				C.B. Ft.	Subs Ft.	Ft. Up On Kelly
No.	Size	Type & Jet Size	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION			
1	7 7/8 X 55	3-15	45165	30	50	250	10 1/2						
MUD 8 a.m. 10 a.m. 12 noon 2 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change FUEL													
WEIGHT													
VISCOSITY													
GEL													
Pump Pressure	Model												
Pump S.P.M.	Model												
Pump Liner Size	Model												
General													
W.L.	F.C.	pH.											

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS				C.B. Ft.	Subs Ft.	Ft. Up On Kelly
No.	Size	Type & Jet Size	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION			
1	7 7/8 X 55	3-15	45168	30	50	420	18						
MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change FUEL													
WEIGHT 8. 8.3 8.2 8.1 BENEX 12 1500 7/4 1													
VISCOSITY 28 28 28 25 WATER 2													
GEL 3													
Pump Pressure	Model	600 600 600 1111											
Pump S.P.M.	Model												
Pump Liner Size	Model												
General													
W.L.	F.C.	pH.											

REMARKS	Time		
	Start	Stop	Interval
Rig Service 1 B.O.P.	12:00	12:10	1/4
Drill	12:15	2:45	2 1/4
Trip for BIT	2:45	4:00	1 1/4
Clean to Bottom	4:00	4:15	1/4
Drill	4:15	7:20	3 3/4
Drill	7:00	8:00	1
Company Time Cont'r Time			
Rig Service 1 B.O.P.	8:00	8:15	1/4
Drill	8:15	4:00	7 1/4
Company Time Cont'r Time			
Rig Service 1 B.O.P.	4:00	4:12	1/4
DRILL	4:12	6:15	2 0
SURVEY	6:12	6:20	1/4
DRILL	6:30	12:00	5 1/2
Company Time Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____
FORM 110 THIS COPY TO CONSERVATION BOARD (MAIL TO CALGARY OFFICE)

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____



DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 11 LOCATION Amoco B-1 East Flats H-13 AREA Land DATE Feb 17/73

Tour — Midnight - 8 a.m.		From	Footage	To	Mrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS				C.B. Ft.	Subs Ft.	Ft. Up On Kelly		
Specify actual hours worked		Hrs.	382	148	530	3 1/2	37	2	No.	O. D.	I. D.	Length	Wgt.				
Driller	L. Kreutzer	12	IT IS ESSENTIAL TO RECORD SIZE OF JET NOZZLES OR WATER COURSES														
Derrick	D.C. Smith	15	No.	Size	Type & Jet Size	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs.	Feet Reamed	Mrs.	CONDITION				
Floor	R.E. Murray	15	1	2A	12" XDB	2-16	4-242	15	150	148	36						
Floor	R. Wagner	12	MUD 12 Mm. 2 a.m. 4 a.m. 6 a.m. Additives														
Floor			WEIGHT 8.5 6.1 - 1000 = 330 1/2 1														
Motor	J. McCarrach	15	VISCOSITY 45 4.2 - 100 = 400 3/4 2														
Mechanic			GEL 400 3.0 - 100 = 300 3 3														
Extra			Pump Pressure	Model	400 3.0 - 100 = 300 3 3										Next Oil Change	FUEL	
Injuries			Pump S.P.M.	Model	72 3.0 - 100 = 300 3 3										Next Oil Change	FUEL	
Fires			Pump Liner Size	Model	5/8 3.0 - 100 = 300 3 3										Next Oil Change	FUEL	
			W.L.	F.C.	pH.											Next Oil Change	FUEL

Tour — 8 a.m. to 4 p.m.		From	Footage	To	Mrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS				C.B. Ft.	Subs Ft.	Ft. Up On Kelly		
Specify actual hours worked		Hrs.	530	67	597	1 1/4	40	155	No.	O. D.	I. D.	Length	Wgt.				
Driller			IT IS ESSENTIAL TO RECORD SIZE OF JET NOZZLES OR WATER COURSES														
Derrick			No.	Size	Type & Jet Size	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs.	Feet Reamed	Mrs.	CONDITION				
Floor			1	2A	12" XDB	2-16	4-242	15	150	148	36		2-16-1				
Floor			MUD 8 a.m. 10 a.m. 12 noon 2 p.m. Additives														
Floor			WEIGHT 598 1/2 1														
Motor			VISCOSITY 45 4.2 - 100 = 400 3/4 2														
Mechanic			GEL 400 3.0 - 100 = 300 3 3														
Extra			Pump Pressure	Model	400 3.0 - 100 = 300 3 3										Next Oil Change	FUEL	
Injuries			Pump S.P.M.	Model	72 3.0 - 100 = 300 3 3										Next Oil Change	FUEL	
Fires			Pump Liner Size	Model	5/8 3.0 - 100 = 300 3 3										Next Oil Change	FUEL	
			W.L.	F.C.	pH.											Next Oil Change	FUEL

Tour — 4 p.m. to Midnight		From	Footage	To	Mrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS				C.B. Ft.	Subs Ft.	Ft. Up On Kelly		
Specify actual hours worked		Hrs.							No.	O. D.	I. D.	Length	Wgt.				
Driller	S. Hyslop	12	IT IS ESSENTIAL TO RECORD SIZE OF JET NOZZLES OR WATER COURSES														
Derrick	R. Folk	12	No.	Size	Type & Jet Size	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs.	Feet Reamed	Mrs.	CONDITION				
Floor			1														
Floor	D. LEE	12	MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives														
Floor			WEIGHT 1 1														
Motor	H. HAUSER	12	VISCOSITY 1 1														
Mechanic			GEL 1 1														
Extra			Pump Pressure	Model	1 1										Next Oil Change	FUEL	
Injuries			Pump S.P.M.	Model	1 1										Next Oil Change	FUEL	
Fires			Pump Liner Size	Model	1 1										Next Oil Change	FUEL	
			W.L.	F.C.	pH.											Next Oil Change	FUEL

REMARKS	Time		
	Start	Stop	Interval
Wait on Water Max Mud Run Survey 1200	4:15	4:44	
Run Survey - Drill	4:15	6:30	2 1/4
Survey	6:30	6:45	1/4
Drill	6:45	8:00	1 1/4
			8
Company Time	Cont'r Time		
Rig Service	8:00	8:15	1/4
Drill	8:15	9:20	1 1/4
Circ	9:30	10:00	1/2
Drop Survey Pull Out	10:00	11:00	1
Run casing	11:00	12:00	3
Circ casing on Bottom	12:00	12:30	1/2
Wait on Water	12:30	1:00	1/2
Company Time	Cont'r Time		
Cement Casing	4:00	5:00	1
W. D. C.	5:00	12:00	7
Company Time	Cont'r Time		

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____
FORM 110 THIS COPY TO CONSERVATION BOARD (MAIL TO CALGARY OFFICE)

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

Total Contractor Time _____ Mrs. Toolpusher _____
Total Company Time _____ Mrs. Approved by _____



DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 11		LOCATION ARMCO 13-1 EAST PLATT H-13		AREA		DATE FEB. 14 73											
Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS				C.B. Ft.	Subs Ft.	Ft. Up On Kelly		
Specify actual hours worked		Hrs.	No.	Size	Type & Jet Size	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION				
Driller	L. Kretzer	12	IT IS ESSENTIAL TO RECORD SIZE OF JET NOZZLES OR WATER COURSES														
Derrick	D.C. Smith																
Floor	R.E. Murray	8															
Floor	K. Wagner	8															
Floor																	
Motor	M. McCarrach	16	MUD 12 Mm. 2 a.m. 4 a.m. 6 a.m. Additives														
Mechanic			WEIGHT														
Extra			VISCOSITY														
Injuries:			GEL														
Fires:			Pump Pressure Model														
			Pump S.P.M. Model														
			Pump Liner Size Model														
			W.L. F.C. pH.														
Tour — 8 a.m. to 4 p.m.		Specify actual hours worked	Hrs.	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS				C.B. Ft.	Subs Ft.	Ft. Up On Kelly
Driller				No.	Size	Type & Jet Size	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION			
Derrick				IT IS ESSENTIAL TO RECORD SIZE OF JET NOZZLES OR WATER COURSES													
Floor																	
Floor																	
Floor				MUD 8 a.m. 10 a.m. 12 noon 2 p.m. Additives													
Motor				WEIGHT													
Mechanic				VISCOSITY													
Extra				GEL													
Injuries:				Pump Pressure Model													
Fires:				Pump S.P.M. Model													
				Pump Liner Size Model													
				W.L. F.C. pH.													
Tour — 4 p.m. to Midnight		Specify actual hours worked	Hrs.	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS				C.B. Ft.	Subs Ft.	Ft. Up On Kelly
Driller	S. Pyzda			No.	Size	Type & Jet Size	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION			
Derrick	R. Fohl			IT IS ESSENTIAL TO RECORD SIZE OF JET NOZZLES OR WATER COURSES													
Floor	D. LEE																
Floor	S. JENSEN																
Floor	B. JENSEN			MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives													
Motor	L. HAUER	16		WEIGHT													
Mechanic				VISCOSITY													
Extra				GEL													
Injuries:				Pump Pressure Model													
Fires:				Pump S.P.M. Model													
				Pump Liner Size Model													
				W.L. F.C. pH.													

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____
FORM 110 THIS COPY TO CONSERVATION BOARD (MAIL TO CALGARY OFFICE)

THIS COPY TO CONSERVATION BOARD (MAIL TO CALGARY OFFICE)