Indian and Northern Affairs Affaires indiennes et du Nord

Well Name / Nom du puits: Aquit Highland L I-23	Drilling Authority No. / Autorisation de forage n° 648
Field/Area / Gisement/Région: Highland Lake	Date Issued / Date d'émission: Jan. 8, 1973
Location / Emplacement — Unit / Unité: I-23-62-40-122-15 — Section	Permit or Lease: 4413

Latitude 62°32'44.66" Longitude 122°19'08"

U.W.L.R. / N.R.U.E.P. 62.54574 -- 122.31889

U.W.I. No. / N.I.P. No. 300I236240122150

File Microfilmed

Rig. Release Date / Date de transfert de la tour de forage: March 17, 1973

Tour Sheets, Microfilmed

Status / Statut: Plugged for Thermal Recovery Obsrvn Well

Information Release Date / Date de publication autorisée des informations: March 17, 1975

CHANGE OF NAME:
CHANGEMENT DE NOM:

Change of Location
Changement de emplacement

INDEX	DATE RECEIVED / RECU LE		INDEX
Application for a Drilling Authority	15-01-73	K	Demande d'autorisation de forage
Well Completion Data			Renseignements sur le forage d'un puits
Well History Report			Données chronologiques sur le puits
Application to Amend a Drilling Authority			Demande de modification d'une autorisation de forage
Application to Change a Well Name			Demande de changement du nom d'un puits
Application to Abandon a Well or Suspend Drilling			Demande d'abandon d'un puits ou de suspension du forage
Application to Alter Condition of a Well			Demande d'autorisation de modifier l'état d'un puits
Well History Supplement			Supplément aux données chronologiques sur le puits
Well Completion Data			Renseignements sur le forage d'un puits
Work-Over Report No.			Rapport de reconditionnement n° . . . . .
Application to Commingle Production before Measurement			Demande d'autorisation de mélanger la production avant jaugeage
Data for Back Pressure Test on Natural Gas Wells			Données de calcul de la capacité de production d'un puits de gaz naturel — Méthode graphique n° 7
Data for Back Pressure Test on Natural Gas Walls			Données de calcul de la capacité de production d'un puits de gaz naturel — Méthode de Vitter
M.P.R. – Oil – Calculations			Calcul du T.M.P. (Taux maximal de production) de pétrole
New Oil Well Report			Rapport sur un nouveau puits de pétrole
New Gas Well Report			Rapport sur un nouveau puits de gaz naturel
Well Inspection Report			Rapport d'inspection de l'emplacement d'un puits
Rig Inspection Report			Rapport d'inspection d'une tour de forage
Battery Inspection Report			Rapport d'inspection d'une batterie de puits
Equipment Report			Rapport d'inspection des compteurs
Well Card			Fiche de puits
New Service Well Report			Rapport sur un nouveau puits de service
Strat Service Logs			Rapport mensuel des injections d'eau
Logs – Large scale			Diagrammes: Grande échelle
Logs – Small scale			Diagrammes: Petite échelle

IAND 52-90 (6-72)

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

OIL & MINERAL DIVISION
DIVISION DU PÉTROLE ET DES MINÉRAUX

WELL COMPLETION DATA
RENSEIGNEMENTS SUR LES FORAGES

Drilling Authority No. / *N° de l'autorisation de forage*: 648
Date Issued / *Date de délivrance*: Jan. 8/73

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*
Aquit Highland L I-23	4413	

(Permittee, License, Lessee) – *(Détenteur de permis ou de licence, du concessionnaire)*	Exploratory Licence No. – *N° de licence de sondage*
Aquitaine Company of Canada Ltd.	1974
(Operator) – *(Exécutant)*	Exploratory Licence No. – *N° de licence de sondage*
Aquitaine Company of Canada Ltd.	1974

LOCATION – *EMPLACEMENT*

Unit – *Unité*	Section	Grid – *Étendue quadrillée*	Latitude	Longitude
I	23	62-40, 122-15	62°32'44.66"	122°19'08"

Unique Well Identifier – *Code d'ordinateur*	Universal Well Location Reference – *Références universelles d'emplacement du puits*
3001236240122150	62.54574° N Lat and 122.31889° W Long

	Date	Depth – *Profondeur*
Spudded / *Début des travaux*	Mar 4/73	
Suspended / *Suspension des travaux*		
Resumed Operations / *Reprise des travaux*		
Finished Drilling / *Forage terminé*	Mar 13/73	2,735'
Deepened / *Approfondissement*		
Completed (Gas/Oil) / *Achèvement (Gaz/Pétrole)*		
Abandoned / *Abandon*		
Rig Released / *Fin des travaux*	Mar 17/73	2,735'

Pool(s) / *Gisement(s)*

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

Elevation: Gr. / *Altitude du sol* 1507' K.B. / *du carré d'entraînement* 1520'

Rig No. / *N° de la tour de forage* 4

Drilling Contractor / *Entrepreneur en forage* Guthrie McLaren

Contractor's Business Licence No. / *N° du permis de l'entrepreneur* 10895

CASING RECORD – *TUBAGE*

Casing Size (Inches) / *Diamètre (en pouces)*	Grade / *Qualité*	Weight / *Poids*	Amount / *Longueur*	Set at – / *Fixation à*	Sacks of Cement and Additives / *Sacs de ciment et d'additifs*
1. Casing 8-5/8"	K-55	24#	493'	506' K.B.	375 sx Oilwell + 2% $CaCl_2$ + 102 sx Oilwell C + 3% $CaCl_2$ in annulus to surface. approx. ¼ bbl returns
2.					
3.					
4.					
5. Tubing 2-3/8"	-	4.7#	1519.81'	1533' K.B.	350 sx Oilwell + 8% Gel + 35 sx neat cmt. Good returns.
6.					

Note: The well has been completed for temperature surveys for the Earth Physics Branch of the Department of Energy Mines and Resources, Ottawa.

Geological Tops / *Sommet des formations*	Elevation – *Profondeur*: Depths / *Sous le niveau du sol*	Sub-Sea / *Sous le niveau de la mer*
Horn River	1,740'	- 220'
Nahanni	1,850'	- 330'
Headless Shale	2,246'	- 726'
Landry	2,273'	- 753'
Manetoe	2,293'	- 773'
Bear Rock Anhydrite	2,445'	- 925'

Core Record – *Carottes*

From – *de*	To – *à*	Rec. / *Récupérés*	From – *de*	To – *à*	Rec. / *Récup.*
2342'	2372'	30'			

Log Record – *Diagrammes*

Run / *Série*	Type of Log / *Genre de diagramme*	From – *De*	To – *À*
1	DIL	2728'	450'
1	BHCS	2721'	460'
1	FDC	2727'	1,400'
1	SNP	2727'	1,400'

52-90-2 (7-71)

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
March 17	2735	2300	Bear Rock Formation 165 sacks oilwell C								
March 17	2300	1730	Nahanni Formation 210 sacks oilwell C								

DRILL STEM TESTS — ESSAIS AUX TIGES

No. — N°	Date	Formation	From — de	To — à	V.O. Mins. Vanne ouverte (minutes)	I.S.I. Mins. Première obturation (minutes)	F.S.I. Mins. Obturation définitive (minutes)	I.S.I.B.H.P. Pression de fond à la 1re obturation	F.S.I.B.H.P. Pression de fond à l'obturation définitive	I.F.B.H.P. Pression de fond au jaillissement	F.F.B.H.P. Pression de fond à l'écoulement définitif	L.H.P. Pression hydrostatique de début	F.H.P. Pression hydrostatique définitif	Remarks — Remarques
1	Mar. 15	Manetoe	2280	2340	90	60	90	--	478	37	220	1138	1138	Recovery: 200' salt water cut mud + 234' salt water

ANALYSIS — ANALYSE

Lab. No. N° de laboratoire	Sample Echantillon	From — de	To — à	Source	Remarks — Remarques
E73-3492-1	Water	2280	2340	Manetoe	Recovery 200' salt water cut mud + 234' salt water

PRESENT STATUS OF WELL
ETAT ACTUEL DU PUITS

Oil Pétrole		(Interval)(Intervalle)
Gas Gaz		(Interval)(Intervalle)
Dry Sec	x	heat flow ~~observation~~ well
Susp. Travaux sus.		

Company Société: Aquitaine Company of Canada Ltd.

Signed by Signé par: [signature]

Title Titre: G. Kuhn de Chizelle, Drilling Superintendent

Date: August 30, 1973

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

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

Drilling Authority No. 648

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

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

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

Name and number of well: Aquit Highland L I-23

Location: Unit: I Section: 23 Grid: 62-40 – 122-15

Latitude: 62°32'44.66" N Longitude: 122°19'08" W

~~From Established Reference Marker~~ Unique Well Identifier 300I236240122150

Universal Well Location Reference: 62.54574°N Lat. and 122.31889°W Long.

Permit No. 4413 Lease No.

Aquitaine Company of Canada Ltd.
(Permittee, Licencee, Lessee)

Date of commencement of proposed program: March 16, 1973

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at: N/A

Gas at: N/A

Water at: 2,280' - 2,340'

Total Depth: 2,735' Date of last operations: Rig Released @ 8:00 p.m., March 17/73.

Present condition of well: completed for temperature surveys for the Earth Physics Branch of the Department of Energy Mines and Resources, Ottawa.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. Csg 8-5/8"	24# K-55	493'	506' KB	375 sx Oilwell + 3%	None
2.				$CaCl_2$ + 102 sx in the annulus.	
3. Tbg 2-3/8"	4.7#	1519.81'	1533' KB	550 sx Oilwell + 8%	None
4.				Gel + 35 sx Neat	
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	2735' - 2300'	Bear Rock	165 sacks	Plug down 0230 March 16, no feel.
2	2300' - 1730'	Nahanni	210 sacks	Plug down 0345 March 16

The following logs have been run: DIL, FDC, SNP, BHCS

Other operations proposed:

Operations to be carried out by: Guthrie McLaren Drlg Contractor Licence No. 10895

Address: 14630 - 119 Ave., EDMONTON, Alberta Address:

Responsible Agent in field: L. Mulholland

Dated at CALGARY, Alberta, this 20th Day of March 19 73

Signed by: G. Kuhn de Chizelle Company: Aquitaine Company of Canada Ltd.

Title: Drilling Superintendent Operator's Exploratory Licence No. 1974

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:

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
CONSERVATION ENGINEER
MAR 22 1973
YELLOWKNIFE, N.W.T.
NORTHERN ECONOMIC DEVELOPMENT BRANCH

Dated 28-MAR-73, 19

R. L. Price.
District Conservation Engineer

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

IAND 52-90-5 (7-71)

Voir au verso

Drilling Authority No. ....648.....
Project No. .....

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 ...Aquit Highland L I-23.....

Location: Unit .....I..... Section ....23..... Grid ..62-40 — 122-15....
Latitude ...62°32'44.66" N..... Longitude ...122°19'08" W.....
Unique Well Identifier....300I236240122150.....
Universal Well Location Reference. .62.54574°.N. Lat. & .122.31889°.W. Long.

Elevation: Ground ...1,505'..... K.B. ...1,515' (est.)..... feet above sea-level.
Well is expected to produce from ..Exploratory..... formation at a depth of about ..... feet. Expected total final depth ...3,450'.....
Area assigned to well ..Exploratory.....
(for District Conservation Engineer's use only)

.....

Permit No. ....4413..... Lease No..... Acreage .....58980.....
Permittee, licensee, or lessee ...Aquitaine Co. of Canada Ltd.....
Explanatory Licence No. .....1974.....
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	500	275 (to surface)
2.					
3.					
4.					
5.					

o.k. MKE

Expected water, gas, and oil horizons and type of control equipment. Manetoe 2,280'. Ronning 3,150'. To be controlled by drilling fluid and blow out prevention equipment consisting of an annular preventer and a double gate preventer.....

Well will be drilled with Rotary Rig No. ...4..... by ...Guthrie McLaren Drilling Ltd.....
(Drilling Contractor or company)

.....

Responsible agent of applicant:— Contractor's Business Licence No. Will advise...
At well.... D. Moore..... At registered office... W. M. Bogert.....
Address 540 - 5 Ave S.W., CALGARY .. Address . 540 - 5 Ave. S.W., CALGARY, Alta.
It is understood that if changes become necessary, notice of the change of plan will be submitted.
Dated at ..CALGARY, Alberta ...., this ...18th .... day of ...December 19 72
Signed by . W. M. Bogert..... Company . Aquitaine Company of Canada Ltd.
Title ..Drilling Superintendent .... Operator's Licence No. .... 1974.....

(For Oil and Mineral Division use only)

APPROVED

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

...See attached list of Conditions of Approval.....

Dated.... 8-JAN-73 ..... 19..... R. L. Price.
District Conservation Engineer

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

IAND 52-90-1 (7-71)

D.I.A.N.D. - CONDITIONS OF APPROVAL FOR DRILLING AUTHORITY No. 648

WELL Aquit. Highland L I-23

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.

AQUITAINE COMPANY
OF CANADA LTD.

PROGRAM & PROGNOSIS

HIGHLAND LAKE PROJECT

December 8, 1972

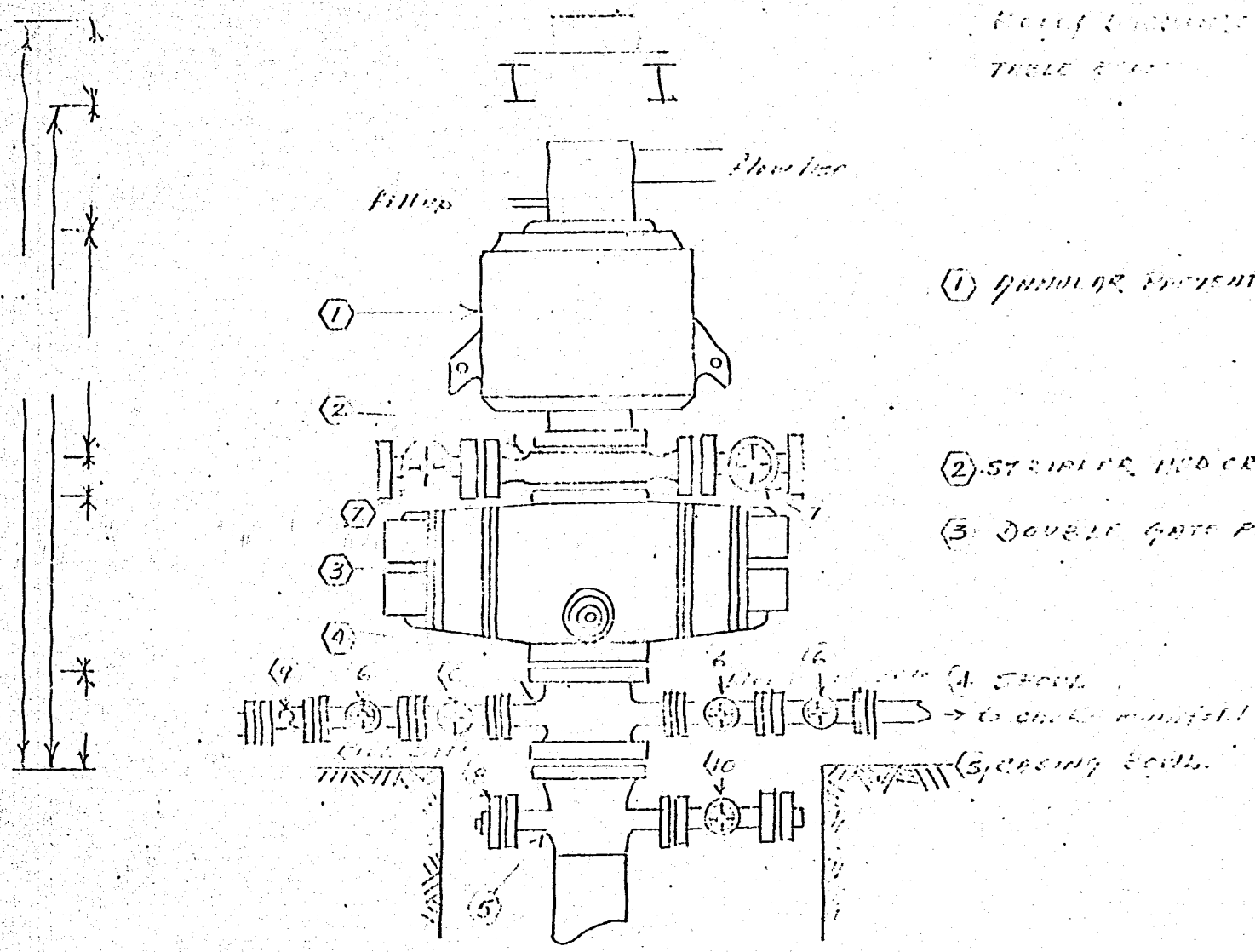
Well Name		Aquit Highland Lk K-42	Aquit Highland Lk I-23	Aquit Highland Lk O-61
Location:	Lat.	62°31'09.87"	62°32'44.66"	62°30'53.55"
	Long.	122°23'36.18"	122°19'08"	122°26'48.89"
Elevations:	Ground	1173'	1505'	1170'
	K.B.	1183'	1515'	1180'
AFE Number:		6302	6312	6312

Geological Prognosis

Formation	Depth	Subsea	Depth	Subsea	Depth	Subsea
Upper Devonian						
Ft. Simpson (sh)	100'		100'		100'	
Middle Devonian						
Horn River (sh)	1,405'		1,700'		1,500'	
Nahanni (ls)	1,485'		1,780'		1,580'	
Headless (sh ls)	1,950'		2,250'		2,070'	
Manetoe (dol)	1,980'		2,280'		2,100'	
Landry (ls)					2,210'	
Bear Rock (dol)	2,090'		2,340'		2,270'	
(anhyd)	2,220'		2,430'		2,380'	
Silur/Ordovician						
Ronning (dol)	2,980'		3,150'		3,100'	
Cambrian (sh & sd)						
Basal Clastics	3,400'					
Projected Total Depth	3,500'		3,450'		3,400'	

Hole Size: Surface: 12-1/4"
Main: 7-7/8"

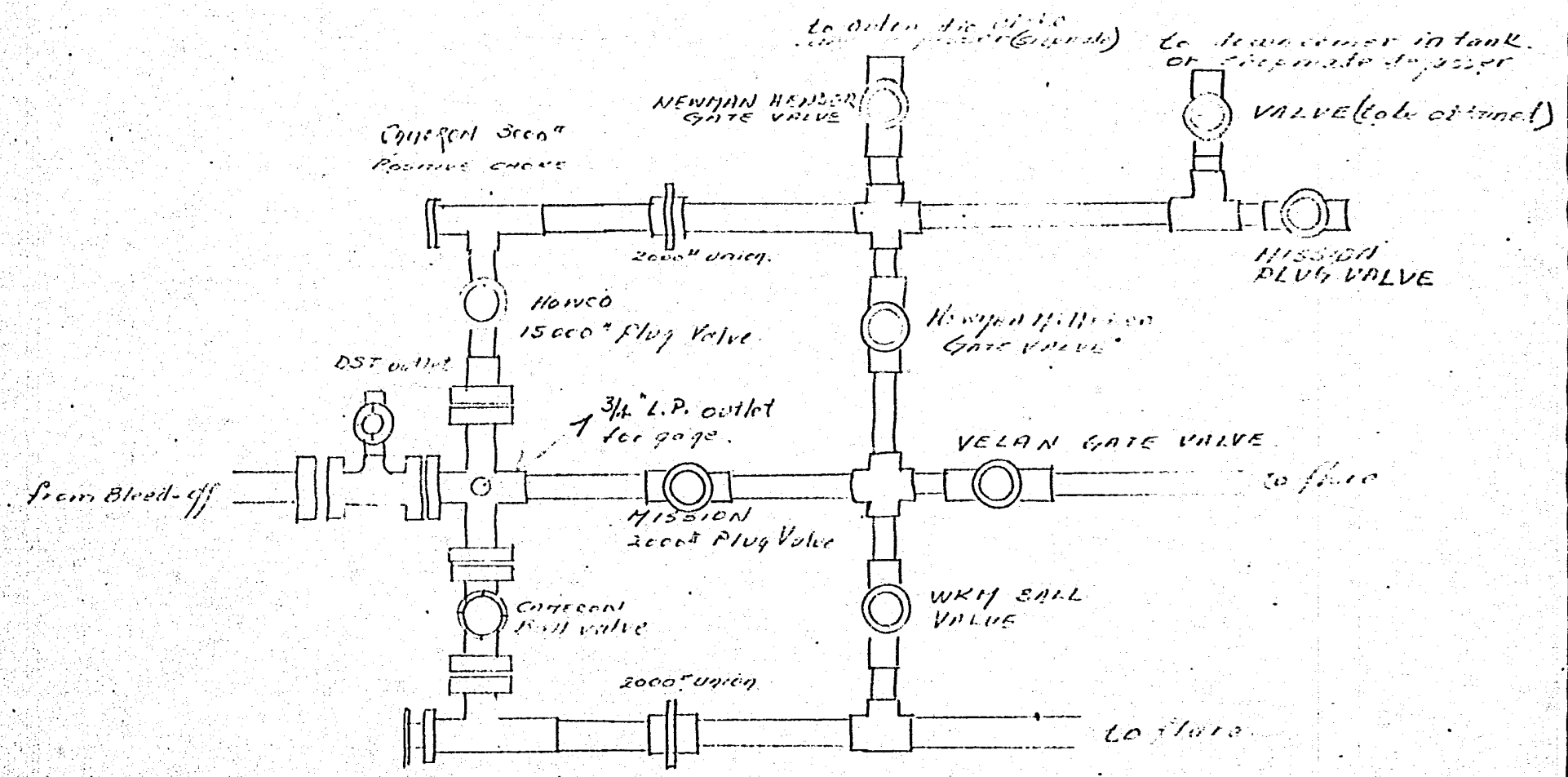
Zones of Interest: Manetoe Dolomite, Ronning and Basal Clastics.

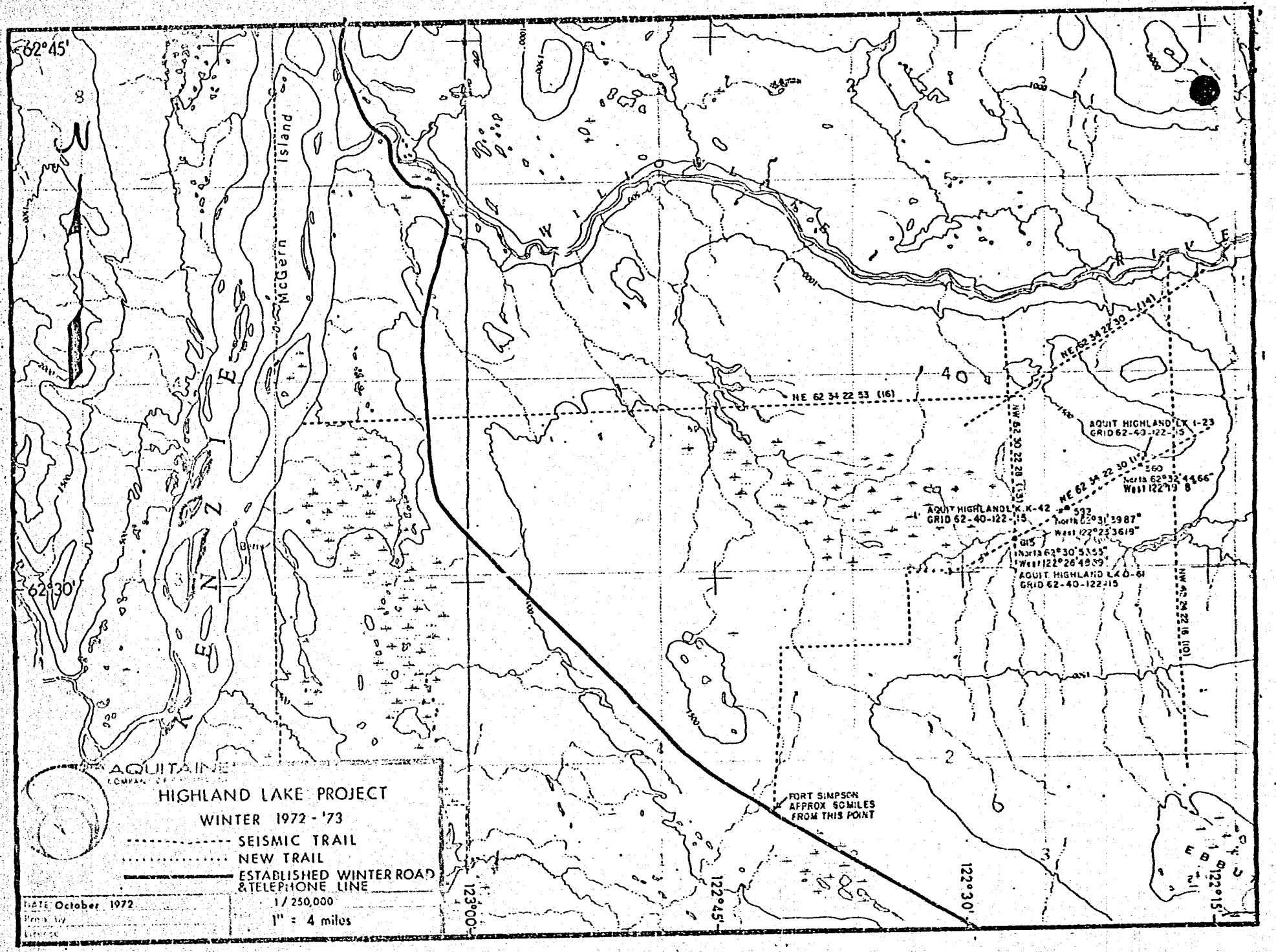


10" - 3000 psi B.O.P. STACK.
AQUITAINE
AUG., 1972.

2" - 2000 psi [illegible]

NOTE: Automatic choke has 2" Female L.P. inlet and 2" female L.P. outlet.




62°45'
62°30'
N
McGern Island
W I L D
R I V E R
NE 62 34 22 53 (16)
NE 62 34 22 30 (14)
NW 62 30 22 28 (13)
NW 62 34 22 16 (10)
AQUIT HIGHLAND LK I-23
GRID 62-40-122-15
AQUIT HIGHLAND LK K-42
GRID 62-40-122-15
AQUIT HIGHLAND LK O-61
GRID 62-40-122-15
FORT SIMPSON
APPROX 50 MILES
FROM THIS POINT
123°00'
122°45'
122°30'
122°15'
AQUITAINE
HIGHLAND LAKE PROJECT
WINTER 1972 - '73
SEISMIC TRAIL
NEW TRAIL
ESTABLISHED WINTER ROAD
& TELEPHONE LINE
DATE October 1972
1/250,000
1" = 4 miles

673-11-04-070

WELLSITE HISTORY REPORT

Aquit Highland Lake I-23

June 1973

AQUITAINE COMPANY
OF CANADA LTD.

673-11-04-070

Well History Report

Aquit Highland Lake I-23

Table of Contents

SECTION I	Summary of Well Data
SECTION II	Geological Summary
SECTION III	Engineering Summary
SECTION IV	Logs
SECTION V	Analysis
SECTION VI	Completion Summary

AQUITAINE COMPANY
OF CANADA LTD.

Aquit Highland Lake I-23

SECTION I - Summary of Well Data

(a) Well Name and Number: Aquit Highland L I-23

(b) Permittee: Aquitaine Company of Canada Ltd. - 100%

(c) Operator: Aquitaine Company of Canada Ltd.
540 - 5th Avenue S.W.
CALGARY, Alberta
T2P OM4

(d) Location: Unit I, Section 23, Grid 62-40-122-15
Unique Well Identifier: 3001236240122150
Universal Location Reference: Lat. 62.54574°N
Long. 122.31889°W

(e) Co-ordinates: Latitude: 62°32'44.66"
Longitude: 122°19'.08"

(f) Permit No.: 4413

(g) Drilling Contractor: Guthrie McLaren Drilling
14630 - 119 Ave.
EDMONTON, Alberta

Rig No. 4

(h) Drilling Authority: No. 648
Date ssued January 8th, 1973

(i) Classification: Exploratory Wildcat

(j) Elevations: Ground 1507'
K.B. 1520'

(k) Spudded: March 4, 1973

(l) Completed Drilling: March 13, 1973

(m) Total Depth: 2735'

(n) Well Status: Plugged for Thermal Recovery Observation Well

(o) Rig Released: March 17, 1973

(p) Hole Sizes: 12¼" to 228; 7 7/8" to 2735'

(q) Casing: 8 5/8" to 506; 2 3/8" to 1533'

AQUITAINE COMPANY
OF CANADA LTD.

SECTION II - Geological Summary

(a) Formation Tops: See "Geological Marker Report" attached.

(b) Cored Intervals: See "Core Report" attached.

(c) Core Descriptions: See "Geological Sample Descriptions" attached.

(d) Sample Descriptions: See "Geological Sample Descriptions" attached.

(e) Paleontological Determinations: Not Applicable.

AQUIT HIGHLAND LAKE I-23

FORMATION TOPS

Horn River	1740
Nahanni	1850
Headless	2246
Landry	2273
Manetoe/Bear Rock Dol	2293
Bear Rock Anh.	2446

FORM 5161-3

CORE REPORT

AQUITAINE
COMPANY OF CANADA LTD.

Aquit Highland Lk. I-23

CORE No.	INTERVAL FROM	INTERVAL TO	RECOVERY	COREHEAD SIZE	CORE SIZE	FORMATION
1	2342	2372	30'	6 3/16"	3½"	Man. Dol.

AQUITAINE
COMPANY OF CANADA LTD.

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. 1

Aquit. Highland Lk. I-23

GR - 1506.5
KB - 1519.87

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
30	40	D		10		Sh. (100%) med/dk grey, fissile w trace sh, red.
40	50	D		10		Sh. (100%) med/dk grey, mic-mica, fissile tr. pyrite
50	60	D		10		Sh. (100%) as above w trace Ss, tan, very fine grain, tight
60	90	D		30		Sh. (100%) med/dk grey, fissile, mic-mica
90	130	D		40		Sh. (100%) as above platy
130	150	D		20		Sh. (100%) med grey, fissile, in part mic-mica
150	190	D		40		Sh. (100%) as above w trace mudstone, brown
190	200	D		10		Sh. (100%) as above w trace siltstone, med brown, hard
200	300	D		100		Sh. (100%) med grey, fissile, in part mic-mica
300	320	D		20		Sh. (100%) as above w trace siltstone, dk brown, hard, tight
320	330	D		10		Sh. (100%) med/dk grey, fissile, in part mic-mica
330	350	D		20		Sh. (100%) as above w trace siltstone, dark brown
350	450	D		100		Sh. (100%) med/dk grey, fissile, in part mic-mica
450	480	D		30		Sh. (100%) as above w trace mudstone, dk brown
480	500	D		20		Sh. (100%) as above w trace pyrite
500	510	D		10		Sh. (70%) med/dk grey, in part mic-mica w cement (30%)
510	530	D		20		Sh. (90%) as above w cement (10%)
530	550	D		20		Sh. (100%) med/dr grey black, fissile, in part mic-mica
550	590	D		40		Sh. (100%) med grey w trace dk grey, fissile, in part mic-mica, trace pyrite
590	600	D		10		Sh. (100%) as above w trace pyrite
600	610	D		10		Sh. (100%) as above w trace pyrite plant stems
610	640	D		30		Sh. (100%) med grey w trace dk grey, fissile, in part mic-mica
640	650	D		10		Sh. (100%) as above w trace pyrite plant stems
650	660	D		10		Sh. (100%) as above
660	670	D		10		Sh. (100%) as above w in part silty, glauc.
670	680	D		10		Sh. (100%) as above w trace pyrite
680	690	D	1	10		Sh. (100%) as above w trace shell frags
690	700	D		10		Sh. (100%) as above w trace pyrite
700	730	D		30		Sh. (100%) med grey w trace black, in part mic-mica, glauc., trace pyrite
730	740	D		10		Sh. (100%) as above

SAMPLES NOT LAGGED

SAMPLES LAGGED AT 100 FT. PER MIN.

(Delete as Appropriate)

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. 2

Aquit. Highland Lk. I-23

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
740	750	D		10		Sh. (100%) as above, in part silty, pyrc
750	770	D		20		Sh. (100%) as above, in part silty, glauconitic, tr. pyrite
770	810	D		40		Sh. (100%) as above, abundant pyrite
810	820	D		10		Sh. (100%) med grey w trace Ss, dk grey, very fine grain, glauc.
820	830	D		10		Sh. (100%) med grey, fissile, in part mic-mica, trace pyrite
830	860	D		30		Sh. (50%) as above w Sh. (50%) light grey, fissile
860	870	D		10		Sh. (100%) light grey, fissile, in part silty, mic-mica
870	980	D		110		Sh. (100%) light grey, fissile, in part mic-mica
980	1020	D		40		Sh. (100%) as above, in part silty
1020	1030	D		10		Sh. (100%) light grey, ifssile, in part mic-mica
1030	1040	D		10		Sh. (100%) as above w trace Ss, light grey, very fine grain, tight
1040	1090	D		50		Sh. (100%) as above
1090	1130	D		40		Sh. (100%) light grey, fissile, in part mic-mica, in part silty
1130	1140	D		10		Sh. (50%) as above w sh. (50%) dk grey black, bit.
1140	1150	D		10		Sh. (80%) as above w Sh. (20%) dk grey blk, bit.
1150	1190	D		40		Sh. (20%) light grey, fissile, in part mic-mica w Sh (80%) dk grey blk, bit.
1190	1210	D		20		Sh. (50%) as above w Sh. (50%) dk grey blk, bit.
1210	1250	D		40		Sh. (100%) light grey fissile, in part mic-mica w trace shale, dk grey blk, bit.
1250	1260	D		10		Sh. (100%) light grey, fissile, in part mic-mica
1260	1270	D		10		Sh. (100%) as above w trace pyrite
1270	1290	D		10		Sh. (100%) as above
1290	1300	D		10		Sh. (100%) as above w trace sh., blk, bit.
1300	1410	D		110		Sh. (100%) light grey, fissile in part mic-mica
1410	1420	D		10		Sh. (100%) as above w tr. pyrite
1420	1450	D		30		Sh. (100%) as above w tr. sh., blk, bit.
1450	1640	D		190		Sh. (100%) light grey fissile, in part mic-mica
1640	1650	D		10		Sh. (60%) as above w Sh. (40%) med grey/dk grey blk, in part bit.
1650	1660	D		10		Sh. (60%) dk grey blk, bit. w Sh. (40%) light grey, fissile

SAMPLES NOT LAGGED

SAMPLES LAGGED AT 100 FT. PER MIN.

(Delete as Appropriate)

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. 3

Aquit. Highland Lk. I-23

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
						in part mic-mica
1660	1670	D		10		Sh. (70%) dk grey blk, bit. w Sh. (30%) light grey as above
1670	1680	D		10		Sh. (50%) as above w Sh. (50%) light grey as above
1680	1700	D		20		Sh. (20%) dk grey blk, as above w sh. (80%) light grey as above
1700	1730	D		30		Sh. (50%) light grey, fissile, in part mic-mica w Sh. (50%) med/dk grey trace pyrite
1730	1740	D		10		Sh, as above w trace siltstone, light grey trace pyrite
1740	1750	D		10		Sh. (50%) light/ med grey w Sh. (50%) blk, bit, in part mic-mica, trace pyrite
						HORN RIVER SHALE 1749 (-229)
1750	1770	D		20		Sh. (30%) light/med grey w Sh. (70%) blk., bit, in part mic-mica, trace pyrite
1770	1790	D		20		Sh. (90%) blk, bit as above w Sh. (10%) light/med grey
1790	1820	D		30		Sh. (100%) blk, bit, mic-mica, trace pyrite
1820	1850	D		30		Sh. (100%) as above w trace secondary calc. frac. infill
1850	1860	D		10		Sh. (70%) as above w Ls. (30%) buff brown blk, mottley, crpxl, argill, tight, trace secondary calc. as above
						NAHANNI Ls 1856 (-336)
1860	1870	D		10		Ls. (80%) bf/argill. to brown blk crpxl, hard, tight, trace hairline fracs filled w secondary calc. w Sh. (20%) blk, bit.
1870	1890	D		20		Ls. (100%) buff, argill to dk brn blk, crpxl, hard tight
1890	1900	D		10		Ls. (100%) bf, argill to light/dk brn, mottley, crpxl/ mcxl, tight
1900	1920	D		20		Ls. (100%) buff, argill to med/dk brown, crpxl/mcxl tight
1920	1930	D		10		Ls. (100%) as above, in part bit.
1930	1940	D		10		Ls. (100%) as above w trace dk brn cherty ls.
1940	1960	D		20		Ls. (100%) bf, argill to med/dk brn, crpxl/mcxl, tight
1960	1970	D		10		Ls. (100%) bf, argill to med/dk brn, crpxl/ very fine grain, tight trace bit. fill, tr. secondary calc.
1970	1980	D		10		Ls. (100%) as above w trace chert, light smokey grey trace pyrite
1980	1990	D		10		Ls. (100%) as above

SAMPLES NOT LAGGED

SAMPLES LAGGED AT 100 FT. PER MIN.

(Delete as Appropriate)

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. 4

Aquit. Highland Lk. I-23

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
1990	2030	D	tr	40		Ls. (100%) as above w tr. poor intxl. por. bit. filled trace pyrite, trace secondary calc. frac. infill
2030	2190	D	tr	160		Ls. (100%) as above crpxl/ fgr.
2190	2200	D	1	10		Ls. (100%) med brn/med grey brn, crpxl, hard, tight, trace argill, sl. pyrc
2200	2230	D		30		Ls. (100%) as above w trace brn blk ls
2230	2240	D		10		Dol. (100%) med brn/med grey brn, crpxl/mcxl, hard, tight, sl. pyrc, trace secondary calc.
2240	2250	D		10		Dol. (100%) as above w trace sh, light blue grey, sl. dolc. ab. diss pyrite
						HEADLESS SH. 2249 (-729)
2250	2260	D		10		Dol. (90%) as above w sh. (10%) as above
2260	2270	D		10		Dol. (80%) as above w sh (20%) as above
2270	2280	D		10		Dol. (60%) as above w sh (40%) as above
						LANDRY LS 2284 (-764)
2280	2290	D		10		Ls. (90%) med grey brn, crpxl, in part chalky, pyrc w sh (10%) as above
2290	2300	D		10		Ls. (80%) as above w dol. (20%) light tan, crpxl/mcxl, hard tight, ab. secondary calc.
						MANETOE 2301 (-791)
2300	2310	D		10		Dol. (90%) light/med brn, crpxl/mcxl, hard, tight w trace pyrite intxl por ab. secondary calc.
2310	2330	D		20		Dol. (10%) light/med brn, trace brn blk, crpxl/ very fine grain, tight w trace pyrite intxl por ab. secondary calc.
2330	2342	D	tr	12		Dol. (100%) as above w trace fair intxl por
						CORE # 12342 - 2372 Rec. 30'
2342	2372	C	18'	12		Dol. light brn/dk brn, crpxl/very fine grain, in part hard tight in part bit,, trace micro faults, abund. secondary calc. in fill, no vugs, faint H_2S on fresh break, poor intxl por in approx 18' of core. Core covered w salt crystals upon drying. abund. sucrosic dolomite
2342	2380	D		8		Dol. (100%) as above
2380	2390	D		10		Dol. (100%) buff/light grey brn, cpxl/mcxl, hard, tight, ab. hairline fracs w bit. infill, trace secondary calc.
						BEAR ROCK DOL 2383?
2390	2400	D		10		Dol. (100%) as above w trace dol, med brn, f/ med grain, ti.

SAMPLES NOT LAGGED

SAMPLES LAGGED AT 100 FT. PER MIN.

(Delete as Appropriate)

FORM 5121-1

AQUITAINE
COMPANY OF CANADA LTD.

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. 5

Aquit. Highland Lk. I-23

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
2400	2410	D		10		Dol. (100%) buff/dk brn, mottley, cpxl/mcxl, hard, tight, ab. spar calc, tr. bit., tr. poor por
2410	2420	D		10		Dol. (100%) buff/light brn/ trace dk brn blk, cpxl/ mclx, tight, tr. poor intxl por ab. bit, tr. spar calc
2420	2430	D		10		Dol. (100%) as above w tr. dol. buff, fine grain.
2430	2440	D		10		Dol. (100%) as above w tr. pyrite
2440	2450	D		10		Dol. (100%) as above w tr. anhy, white
2450	2460	D		10		Dol. (100%) as above w tr anhy, light tan
2460	2470	D		10		Sh (90%) cavings after trip w dol. (10%) as above w anhy (tr) white/light tan
2470	2480	D		10		Anhy (40%) white light brn w Sh. (40%) cavings w dol. (20%) light/dk brn, cpxl, hard, tight
2480	2490	D		10		Anhy (50%) as above w dol. (30%) as above w Sh (20%) cavings as above
2490	2500	D		10		Dol. (70%) buff/light brn/dk brn blk, cpxl/very fine grain, hard, tight w Anhy (20%) light tan/white w Sh. (10%) cavings
2500	2510	D		10		Dol. (80%) buff/med brn grey/dk brnsh grey, cpxl/fine grain, in part sucrosic, hard, tight, w tr. secondary calc. w Anhy (20%) as above
2510	2520	D		10		Dol. (50%) as above w Anhy (50%) as above
2520	2530	D		10		Dol. (60%) as above, in part, brn blk, bit, w anhy (40%) as above
2530	2540	D		10		dol. (70%) as above w anhy (30%) as above
2540	2550	D		10		Dol. (80%) as above w Anhy (20%) as above
2550	2560	D		10		Dol. (90%) light grey/dk grey brn/brn blk, cpxl/mcxl, in part sucrosic, hard tight tr. secondary calc. w Anhy (10%) as above
2560	2570	D		10		Dol. (40%) as above w Anhy (60%) as above
2570	2580	D		10		Dol. (90%) as above, w Anhy (10%) as above
2580	2600	D		10		Dol. (100%) as above w Anhy (tr) as above
2600	2610	D		10		Anhy (80%) buff/light, tan/grey/brn, w dol. (20%) light brn/dk grey brn/ grey, cpxl/mcxl, hard ti, in pt very anhyc
2610	2620	D		10		Anhy (20%) as above w dol. (80%) as above
2620	2640	D		20		Anhy (80%) as above w dol. (20%) as above
2640	2650	D		10		Anhy (90%) as above w dol (10%) as above

SAMPLES NOT LAGGED

SAMPLES LAGGED AT 100 FT. PER MIN.

(Delete as Appropriate)

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. 6

Aquit. Highland Lk. I-23

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
2650	2660	D		10		Anhy (100%) as above, in pt very dolc w dol (tr) as above, grey/dk brn cpxl, hard, tight, in part very anhyc
2660	2680	D		20		Anhy (100%) as above w dol (tr) as above
2680	2690	D		10		Anhy (100%) as above w dol (tr) as above
2690	2700	D		10		Anhy (60%) as above w dol. (40%) light brn/dk grey brn/grey, cpxl/mcxl hard, tight, very anhyc
2700	2735	D		35		Anhy (100%) buff/light tan/dk brn, dk grey, w dol (tr) as above

TOTAL DEPTH DRILLED 2735

SAMPLES NOT LAGGED

SAMPLES LAGGED AT 100 FT. PER MIN.

(Delete as Appropriate)

AQUITAINE COMPANY
OF CANADA LTD.

SECTION III - Engineering Summary

(a) Report of Drill Stem Tests: See "Drill Stem Test Data Sheet" and "Lynes Technical Service Report" attached.

(b) Casing Record: See "Casing Information" and Engineering Pipe Tally".

(c) Bit Record: See "Bit Record" and "Bit Hydraulics" attached.

(d) Mud Record: See "Mud and Additions Summary" attached.

(e) Deviation Record: Se "Deviation Survey Report" attached.

(f) Abandonment Plugs: See "Plug Back and Abandonment Report" attached.

(g) Lost Circulation Zones: not applicable

(h) Report of Blowouts: not applicable

FORM 3109-2

DRILLSTEM TEST DATA SHEET

AQUITAINE COMPANY OF CANADA LTD.

TEST NO. 1

DATE March 15/16, 1973

WELL NAME Aquit Highland Lake I-23 LOCATION N.62°32'4466" W.122°19'8"

TEST DATA:

INTERVAL 2280 - 2340 SUB-SEA 760 - 820 FORMATION Bear Rock Dol.

BLOW: (Describe) Weak initial airpuff continuing weak Airblow during preflow

Gas to Surface Nil Mins. Max. Rate (Measure) ..... (Est.) ..... Mcf/day

Describe Gas: Sweet ..... Sour ..... Was Flare Lit .....

Describe Build-up, etc. Weak airblow when valve was opened Slightly increasing then dying after 60 mins.

FLUID TO SURFACE: (Record Times & Describe Fluid) Nil

RECOVERY: (Record amount & whether Gassy, Salty, Fresh, Sulphurous, Etc.)

Mud: 200' salt water cut mud

Water: 234' salt water - 35,400 ppm by refractometer

Oil: -

Remarks: (Special Samples, Sampling Points, Samples Retained, Etc.) 3 samples taken of recovery - 1 top, 1 centre and 1 bottom.

RECORD OF FIELD PRESSURES AND TIMES:

Started in Hole	15:00		Out of Hole	05:00	
Initial Hydrostatic			Pressure	1136	psi.
Valve Open (Initial)	5	Mins.	Pressure	779	psi.
Initial Shut-in	60	Mins.	Pressure	No press recorded	psi.
Valve Open	90	Mins.	Pressure (initial) 47	(final) 214	psi.
Final Shut-in	90	Mins.	Pressure	474	psi.
Final Hydrostatic			Pressure	1099	psi.

Temperature 68° Recorders No. ..... Depth ..... No. ..... Depth ..... No. ..... Depth .....

Remarks .....

HOLE DATA:

Hole Size & Depth 7-7/8" - 2735 Mud: Wt. 9.4 Visc. 76 W.L. 8.6

TESTING EQUIPMENT:

Testing Co. Lynes United Ticket No. 6391

Packer(s): No 4 Size 7" Choke (B.H.) 1"

Drill Pipe Size: 4½" Drill Collars: Amit 533.71' I.D. 2-7/8"

Recorders: (No. & Type) AKI # 2561 C2275', #2234 C2270'

Special Equipment: (Underline) MFE Tool, Jars, Safety Joint, Pump Out, Sub, Straddle By-Pass, Etc.

REMARKS ON TEST: (Misrun, Disposition of Samples - Charts, Hole Problems, etc.)

BH Sampler & Recovery Samples to L&G Labs/Edmonton By Lynes United.

COMPANY REPRESENTATIVE L.G. Mulholland

FORM 5115-2

CASING INFORMATION

AQUITAINE COMPANY OF CANADA LTD.

SURFACE CASING
INTERMEDIATE CASING O.D. 2 3/8"
PRODUCTION CASING
LINER

WELL Aquit Highland Lake I-23 LOCATION N.62°32'44.66" W.122°19'8" DATE March 17, 1973

JTS. ON LOC.	FT. ON LOC.	CSG. WT.	GR.	RGE.	THD.	T & C	MAKE	JTS. RUN	DEPTH LANDED	FT. RUN IN WELL
51	1614.90	4.7	J55	2	8RD	EUE		48		1519.81
	Collar on Bottom									
Omega latch Down Baffle on Top of 1st Joint										nil

ACCESSORIES

CENTRALIZERS MAKE _____ No. 2
POSITIONS on 1st & 5th Joint

SCRATCHERS MAKE nil No. ____
POSITIONS _____

No. OF COLLARS WELDED nil

SHOE: MAKE	TYPE	nil
COLLAR: MAKE	TYPE	nil
LANDING JOINT LENGTH (WHEN USED)		-
OVERALL LENGTH OF STRING		1519.81
~~FEET UP FROM K.B. (SUBTRACT)~~	K.B.	13.50
DEPTH SET - DRILLER	TALLY	1533.31
SHOE JOINT OVERALL (SUBTRACT)		
COLLAR DEPTH - DRILLER	TALLY	

REMARKS _____

RUNNING AND CEMENTING

RUNNING

POWER TONGS Tubing Hand Tongs TORQUE: MAX ____ NOM ____ MIN ____

TIMES: STARTED IN: 10:30 am ON BOTTOM ____ CIRCULATED MIN ____

FILL UP POINTS open ended

CEMENTING

CEMENT COMPANY Halliburton

TYPES AND QUANTITY OF CEMENT 350 sacks oilwell cement
plus 8% Gel & 35 sacks neat oilwell cement

SLURRY WT. 14.5 & 16 WATER AHEAD 5 BBLS

TIMES: START MIX 3:15 pm FINISH 4:10 pm START DISP. 4:20 pm FINISH 4:25 pm

CALC. DISP. 6 BBLS PRESSURES: MAX. PUMP 800 psi BUMP 1600 psi

CEMENT RETURNS YES/NO No. OF BBLS 8

LANDING

TIME String landed in tubing hanger before cementing. DATE ____ WT. OF STRING (LESS BLOCKS) 7000

WT. LANDED IN SLIPS Bowl. 7000 LANDING BOWL (SIZE × SERIES × TYPE Newman McEvoy 2000 # Types

REMARKS Cemented Full Length.

FORM 5115-2

CASING INFORMATION

AQUITAINE COMPANY OF CANADA LTD.

SURFACE CASING
INTERMEDIATE CASING O.D. 8 5/8"
PRODUCTION CASING
LINER

WELL Aquit Highland Lake I-23 LOCATION N.62°32'44.66" W.122°19'8" DATE March 6, 1973

JTS. ON LOC.	FT. ON LOC.	CSG. WT.	GR.	RGE.	THD.	T & C	MAKE	JTS. RUN	DEPTH LANDED	FT. RUN IN WELL
14	591.15	24#	K.55	3	8RD	S	NKK	12	506'	506.30

ACCESSORIES

CENTRALIZERS MAKE Wotco No. 2
POSITIONS 5' above shoe & over collar on top of 2nd joint
SCRATCHERS MAKE nil No. ____
POSITIONS ____

SHOE: MAKE Wotco	TYPE Reg/Float	1.90
COLLAR: MAKE Wotco	TYPE Reg/Float	1.52
LANDING JOINT LENGTH (WHEN USED)		
OVERALL LENGTH OF STRING		509.72
FEET UP FROM K.B. (SUBTRACT)		3.7
DEPTH SET - DRILLER	TALLY	506'
SHOE JOINT OVERALL (SUBTRACT)		46'
COLLAR DEPTH - DRILLER	TALLY	460

No. OF COLLARS WELDED 2 (Floatshoe & Collar)

REMARKS 100% circulation during entire cement job.

RUNNING AND CEMENTING

RUNNING

POWER TONGS Rig Tongs TORQUE: MAX ____ NOM ____ MIN ____

TIMES: STARTED IN: 6:00 am ON BOTTOM 8:30 am CIRCULATED MIN 75

FILL UP POINTS 80', 160', 240', 320', 400', 500'.

CEMENTING

CEMENT COMPANY Halliburton

TYPES AND QUANTITY OF CEMENT Oilwell Cement

375 Sacks + 2% $CaCl_2$

SLURRY WT. 15.2 WATER AHEAD 5 BBLS

TIMES: START MIX 10:25 am FINISH 10:45 am START DISP. 10:50 am FINISH 11:00 am

CALC. DISP. 29.3 BBLS PRESSURES: MAX. PUMP 100 BUMP 1000

CEMENT RETURNS YES / NO No. OF BBLS Nil*

LANDING

TIME 10:30 pm DATE March 6, 1973 WT. OF STRING (LESS BLOCKS) 13,000 lbs.

WT. LANDED IN SLIPS N.A. LANDING BOWL (SIZE × SERIES × TYPE 8"-2000 psi - weld on

REMARKS * Felt top of cement with 1" pipe at 75'. Recemented from surface through 1" pipe at 75' with 102 sacks oilwell cement + 3% $CACl_2$ before cement returned. Job completed at 2:45 pm.

FORM 5116-1

PIPE TALLY

AQUITA[illegible]E COMPANY OF CANA[illegible] LTD.

SHEET No. 1 OF 1

SIZE 8 5/8" " O.D. WT. 24 PPF. GRADE K-55 THREAD 8RD MAKE NKK

ON LOCATION 14 JOINTS 591.15 FT. LEFT OUT 2 JOINTS 84.85 FT. IN HOLE 12 JOINTS 50630 FT.

REMARKS Threads off measurement

	A			C			E			G			I			K			M			O			Q		
1	42	80	21			41			61			81			101			121			141			161		
2	42	80	22			42			62			82			102			122			142			162		
3	41	15	23			43			63			83			103			123			143			163		
4	42	80	24			44			64			84			104			124			144			164		
5	42	80	25			45			65			85			105			125			145			165		
6	42	80	26			46			66			86			106			126			146			166		
7	42	80	27			47			67			87			107			127			147			167		
8	42	50	28			48			68			88			108			128			148			168		
9	42	40	29			49			69			89			109			129			149			169		
10	41	35	30			50			70			90			110			130			150			170		
1/10	424	20	21/30			41/50			61/70			81/90			101/110			121/130			141/150			161/170		

	B			D			F			H			J			L			N			P			R		
11	40	48	31			51			71			91			111			131			151			171		
12	41	62	32			52			72			92			112			132			152			172		
13	42	80	33	out		53			73			93			113			133			153			173		
14	42	05	34	out		54			74			94			114			134			154			174		
15			35			55			75			95			115			135			155			175		
16			36			56			76			96			116			136			156			176		
17			37			57			77			97			117			137			157			177		
18			38			58			78			98			118			138			158			178		
19			39			59			79			99			119			139			159			179		
20			40			60			80			100			120			140			160			180		
11/20	166	95	31/40			51/60			71/80			91/100			111/120			131/140			151/160			171/180		

TOTALS		
A	424	20
B	166	95
C		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
N		
O		
P		
Q		
R		
	591	15

FORM 5116-1

PIPE TALLY

AQUITAINE COMPANY OF CANADA LTD.

SHEET No. 1 OF 1

SIZE 2 3/8 " O.D. WT. 4.7 PPF. GRADE J55 THREAD 8RD-EUE MAKE

ON LOCATION 51 JOINTS 1614.90 FT. LEFT OUT 3 JOINTS 95.09 FT. IN HOLE 48 JOINTS 1519.81 FT.

REMARKS Treads off Tally

A			C			E			G			I			K			M			O			Q		
1	31	86	21	30	83	41	31	78	61			81			101			121			141			161		
2	31	88	22	31	88	42	31	74	62			82			102			122			142			162		
3	31	80	23	31	82	43	31	84	63			83			103			123			143			163		
4	31	48	24	31	75	44	31	73	64			84			104			124			144			164		
5	31	54	25	31	85	45	31	82	65			85			105			125			145			165		
6	31	76	26	31	75	46	31	81	66			86			106			126			146			166		
7	31	79	27	31	85	47	31	54	67			87			107			127			147			167		
8	31	79	28	31	79	48	31	21	68			88			108			128			148			168		
9	31	80	29	31	21	49	31	59	69			89			109			129			149			169		
10	31	78	30	31	72	50	31	75	70			90			110			130			150			170		
1/10	317	48	21/30	316	45	41/50	316	81	61/70			81/90			101/110			121/130			141/150			161/170		
B			D			F			H			J			L			N			P			R		
11	31	84	31	31	10	51	31	75	71			91			111			131			151			171		
12	31	56	32	31	71	52			72			92			112			132			152			172		
13	31	79	33	30	80	53			73			93			113			133			153			173		
14	31	80	34	31	85	54			74			94			114			134			154			174		
15	31	81	35	31	76	55			75			95			115			135			155			175		
16	31	81	36	31	73	56			76			96			116			136			156			176		
17	31	80	37	31	81	57			77			97			117			137			157			177		
18	31	82	38	31	76	58			78			98			118			138			158			178		
19	30	45	39	31	85	59			79			99			119			139			159			179		
20	31	72	40	31	64	60			80			100			120			140			160			180		
11/20	316	40	31/40	316	01	51/60	31	75	71/80			91/100			111/120			131/140			151/160			171/180		

TOTALS		
A	317	48
B	316	40
C	316	45
D	316	01
E	31	75
F		
G		
H		
I		
J		
K		
L		
M		
N		
O		
P		
Q		
R		
	1614	90

5112-2

BIT RECORD

AQUITAINE COMPANY OF CANADA LTD.

PAGE 1 OF 1

WELL NAME: Aquit Highland Lake I-23
LOCATION: N62°32'44.66" W122°19'8"
CONTRACTOR: Guthrie McLaren Drilling Co.
RIG No.: 4
DATE SPUDDED: March 4, 1973
DATE RIG RELEASED: March 17, 1973

DRILL PIPE: SIZE O.D. 4½ WT. 16.6# TYPE T.J. 4½"FH
SIZE O.D. ____ WT. ____ TYPE T.J. ____
DRILL COLLARS: No. ____ O.D. ____ I.D. ____ TYPE T.J. 4½"H90
No. ____ O.D. ____ I.D. ____ TYPE T.J. " "
No. ____ O.D. ____ I.D. ____ TYPE T.J. ____
No. ____ O.D. ____ I.D. ____ TYPE T.J. ____

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	NOZZLE SIZES	DEPTH OUT	FEET	HOURS	CUM. HOURS	NO. of D.C.'s	WT. 1000#	RPM	DULL COND T	DULL COND B	DULL COND G	REMARKS
1	7-7/8	Sec.	S44	913649	-	106'	106'	2	2		5	150	2	1	1	Drill Pilothole
2	12 ¼	Smith	DGH.J	LN084	3½"	506'	R106 D400	2 13 3/4	15 3/4		10/15	150	3	2	1	
1	7 7/8	Sec.	S44	913650	2-11 1-10	1707'	1201	26¼	42	12/18	20/13	90/85	5	4	1	
2	7 7/8	Smith	3JSG	MC889	2-10 1-11	2342	635	36	78	18	30	50	2	4	1	
RR1	6-3/16	Wes-drill	◇	NDSER NR	-	2372	30	8		18	11	80	Good			
RR3	7-7/8	Sec.	S86	420984	3-11	2607	R-30 D-235	24 3/4	102 3/4	18	6/30	50	6	8	1	
RR4	7-7/8	3JSG	Smith	MC889	3-11	2735	128	11½	114¼	18	30	50	5	5	1	

FORM 5113-1

BIT HYDRAULICS

AQUITAINE COMPANY OF CANADA LTD.

PAGE 1 OF 1

WELL NAME: Aquit Highland Lake I-23
LOCATION: N62°32'44.66" W122°19'8"
CONTRACTOR: Guthrie McLaren Drilling Co.
RIG No.: 4
DATE SPUDDED: March 4, 1973
DATE RIG RELEASED: March 17, 1973

PUMP No. 1
MAKE: National TYPE: L-250

PUMP No. 2
MAKE: TYPE:

BIT NO.	PUMP No. 1		PUMP No. 2		G.P.M.	PUMP PRESSURE	ANNULAR VELOCITY	MUD				HHP AT BIT	REMARKS
	LINER	SPM	LINER	SPM				WT	VIS.	YP	PV		
1	7¼ x 15	40	-	-	360	500	280	8.5	70				-7-7/8" pilothole
2	7¼ x 15	66			600	350	115	8.8	95				12¼" surface hole
1	5 x 15	65			260	1100/700	153	8.7	37	8	10		
2	5 x 15	62			250	900	145	9.5	65	15	18		
RR3	5 x 15	59			235	700	138	9.4	65	14	20		
RR4	5 x 15	62			250	700	145	9.4	78	14	20		

AQUITAINE COMPANY
OF CANADA LTD.

Mud & Additive Report

Aquit Highland Lake I-23

DATE	DEPTH	WEIGHT	VISCOSITY	ADDITIVES
Mar. 4, 1973	76'	8.3	37	1700 lbs Gel. 50 lbs lime
Mar. 5, 1973	278'	8.5	70	2500 lbs Gel 125 lbs lime 4000 lbs salt gel 150 lbs caustic
Mar. 6, 1973	506'	8.8	95	2000 lbs gel 100 lbs caustic
Mar. 8, 1973	866'	8.7	37	5000 lbs gel 100 lbs bicarb
Mar. 9, 1973	1700'	9.5	50	1500 lbs gel 500 lbs salt gel 50 lbs caustic
Mar. 10, 1973	1963'	9.3	46	1500 lbs gel 1500 lbs salt gel 50 lbs CMC
Mar. 11, 1973	2330'	9.4	52	1700 lbs gel 1700 lbs salt gel 100 lbs caustic
Mar. 12, 1973	2372'	9.5	65	200 lbs gel 100 lbs salt gel
Mar. 13, 1973	2607'	9.4	65	2400 lbs gel 2000 lbs salt gel 400 lbs caustic 100 lbs CMC 1150 lbs peltex 200 lbs soda ash
Mar. 14, 1973	2735'	9.4	78	3800 lbs gel 700 lbs salt gel 250 lbs caustic 100 lbs CMC 750 lbs peltex 500 lbs plastex

FORM 5162

BANFF OIL LTD.

DEVIATION SURVEY REPORT

WELL NAME: Aquit Highland Lake I-23 LOCATION: N.62°32'44.66" W.122°19'8"

DEPTH	DEVIATION	DEPTH	DEVIATION
76'	1°		
136'	7/8°		
193'	½°		
278'	½°		
368'	¼°		
492'	¼°		
614'	½°		
709'	½°		
803'	½°		
1020'	3/4°		
1200'	1°		
1398'	3/4°		
1614'	2°		
1644'	1-3/4°		
1700'	1½°		
1893'	2½°		
1956'	2°		
2050'	2°		
2145'	1½°		
2268'	1½°		
2340'	1°		
2735'	½°		

FORM 5120-1

PLUG-BACK AND ABANDONMENT REPORT

AQUITAINE COMPANY OF CANADA LTD.

Well: Aquit Highland Lake I-23

Location: N.62°32'44.66" W.122°19'8"

Hole Size	7-7/8"			
Depth	2735			

Casing in Hole	Size	Set at	Top of Cement
Surface Casing	8-5/8"	506"	surface
Production String			

K.B. Elev. 1520'

F.T.D. 2735'

Fluid in Hole: Mud

Plug Back String: 4½" drillpipe

Service Company: Halliburton

Cons. Bd. Officer: Not present

	Plug #1	Plug #2	Plug #3	Plug #4	Plug #5	Plug #6
Date	3/17/73	3/17/73				
Interval — Top Bottom	2300 2735	1730 2300				
Formation — Name Depth						
Calipered Hole Size (Average)	7-7/8"	7-7/8"				
Type of Cement	Oilwell	Oilwell				
Number of Sacks	165	210				
Additives	nil	nil				
Bbls. of Water Ahead	10	10				
Displacement — Bbls. Water Bbls. Mud	2 28	2 22				
Slurry Weight	15.6	15.4				
Mixing Times — Start Finish	2:05 am 2:15 am	3:40 am 3:15 am				
Displacing Times — Start Finish	2:20 am 2:30 am	3:25 am 3:45 am				
Felt Plug Time	Not Req'd	Not Req'd				
Felt Plug Depth	-	-				

Surface Casing Cut: Not cut Ft. Below Grd. Surface Plugs: - Sacks. Plate Welded Yes/No.

CASING SALVAGE: Shot off at: - No. of Jts. Recovered:

Remarks:

Agent of Operator: L.G. Mulholland

AQUITAINE COMPANY
OF CANADA LTD.

SECTION IV - Logs

DATE RUN	RUN NUMBER	INTERVAL	TYPE
March 14, 1973	1	2728 - 450	Dual Induction - Laterolog
March 14, 1973	1	2721 - 460	Borehole Compensated Sonic Log
March 14, 1973	1	2727 - 1400	Formation Density plus caliper.
March 14, 1973	1	2727 - 1400	Sidewall Neutron Porosity Log.

SECTION V - ANALYSIS

(a) Water: See "Water Analysis" by Chem. & Gio. Laboratories
Lab. no. E73 - 3492 - 1 attached.

SECTION VI - Completion Summary

Not Applicable

SUBMITTED BY AQUITAINE COMPANY OF CANADA LTD.

DATE: June 6/73

BY: G. Kuhn de Chizelle

[illegible] L U GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E73[illegible],2-1

WF

Received: Mar. 19, 1973 Reported: Apr. 10, 1973 Well: Location: Aquit Highland Lk I-23

Operator: AQUITAINE COMPANY OF CANADA LTD. Field or Area: Wildcat

Elev.: K.B. 1520' Grd. 1506.5' Zone/Formation: Manetoe Sample Interval: 2280' - 2340'

Method of Production: D.S.T. #1 Sampled from: 2280' Sampled by: Lynes United Services Ltd. Date: Mar. 15, 1973

OTHER PERTINENT DATA

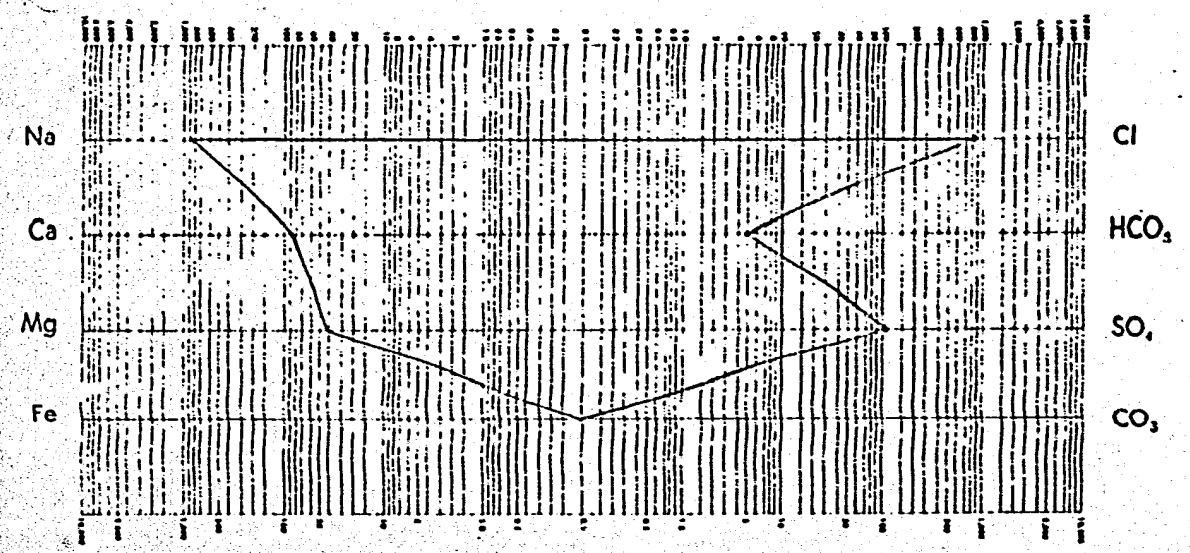
(Signed)

	Na & K	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3	OH
Mg./L	19,039		1,714	532					4,919	30,150			Nil	300	Nil
Meq./L	828.21		85.53	43.73					102.32	850.23			---	4.92	---
Meq. %	43.25		4.47	2.28					5.34	44.40			---	0.26	---

Total Solids Mg/L: By Evaporation 61,660 Fe Present Specific Gravity 1.048 @60°F Observed pH 7.9 @70 °F

Calculated 56,654 After Ignition 55,860 H_2S Nil Refractive Index 1.3438 @25°C Resistivity 0.153 ohm meters @68 °F

Pattern Unit Meq./L



ORGANIC MATTER: Much

Remarks and Conclusions

Sample consisted of muddy water with a brown coloured filtrate.

E73-3492-2: 2046'

RESISTIVITY: 0.186 Ohm-Meters @ 68°F.

Muddy water with a brown coloured filtrate.

E73-3492-3: 1846'

RESISTIVITY: 0.236 Ohm-Meters @ 68°F.

Muddy water with a brown coloured filtrate.

NO TRACE OF BENZENE INDICATED

NO TRACE OF TOLUENE INDICATED.

Sample was received in a 1 quart plastic containe without a foil insert present in the screw cap. Container was full, water was muddy, and appeared to be a good sample.

CHEMICAL & GEOLOGICAL LABORATORIES LTD. WATER ANALYSIS Lab No. E73-3492-1

Received: Mar. 19, 1973 Reported: Apr. 10, 1973 Well: Location: Aquit Highland Lk I-23

Operator: AQUITAINE COMPANY OF CANADA LTD. Field or Area: Wildcat

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(Signed)

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Meq./L	828.21		85.53	43.73					102.32	850.23			---	4.92	---	
Meq. %	43.25		4.47	2.28					5.34	44.40			---	0.26	---	

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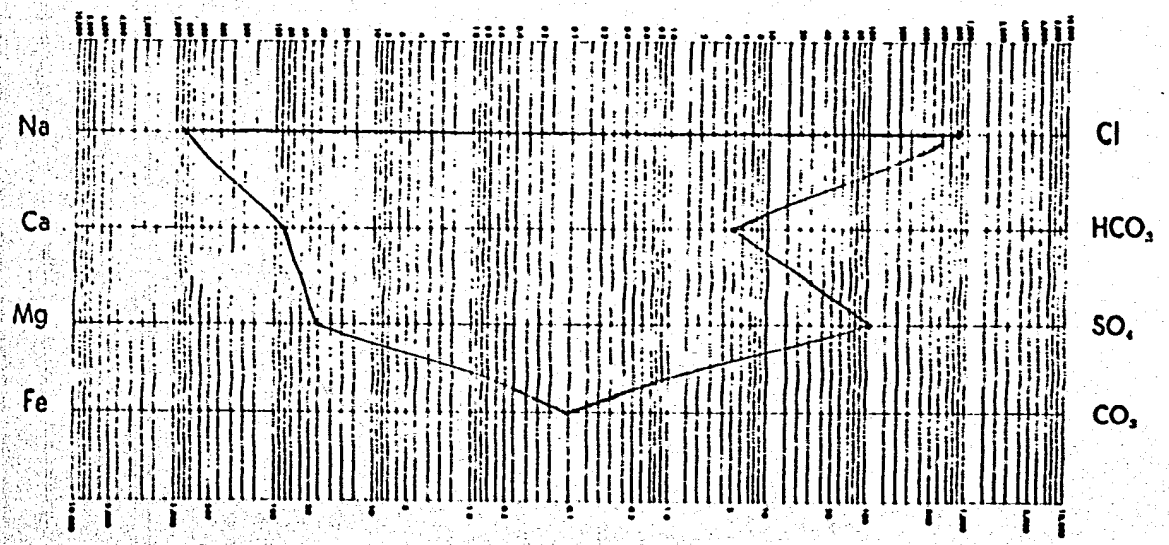

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NO TRACE OF TOLUENE INDICATED.

Sample was received in a 1 quart plastic container without a foil insert present in the screw cap. Container was full, water was muddy, and appeared to be a good sample.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E73-3492-1

Received: Mar. 19, 1973 Reported: Apr. 10, 1973 Well: Location: Aquit Highland Lk I-23

Operator: AQUITAINE COMPANY OF CANADA LTD. Field or Area: Wildcat

Elev.: K.B. 1520' Grd. 1506.5' Zone/Formation: Manetoe Sample Interval: 2280' - 2340'

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(Signed)

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Meq./L	828.22		85.53	43.73					102.32	850.23			---	4.92	---	
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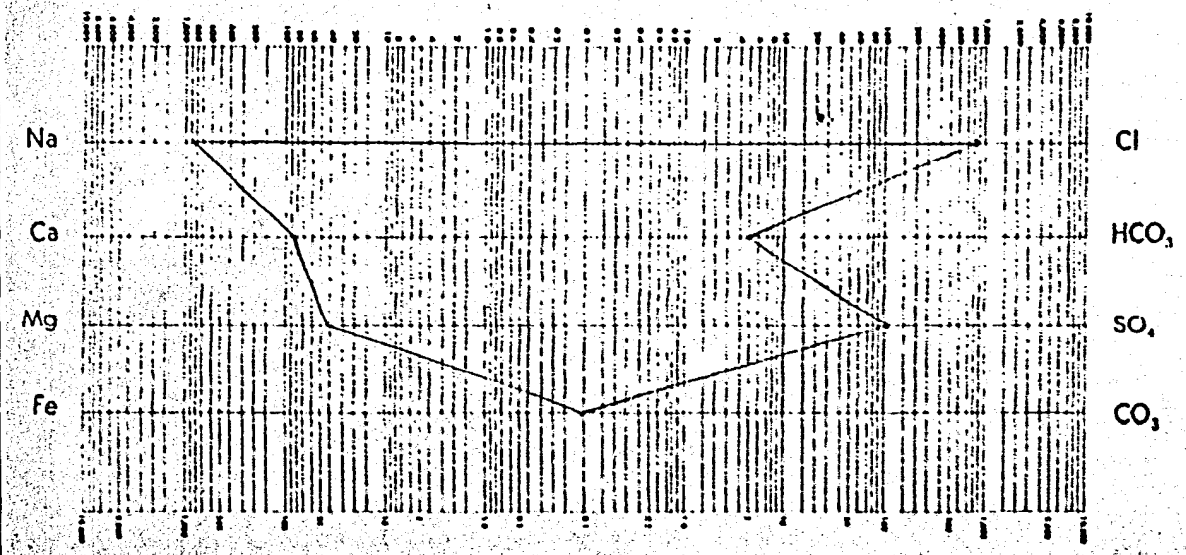

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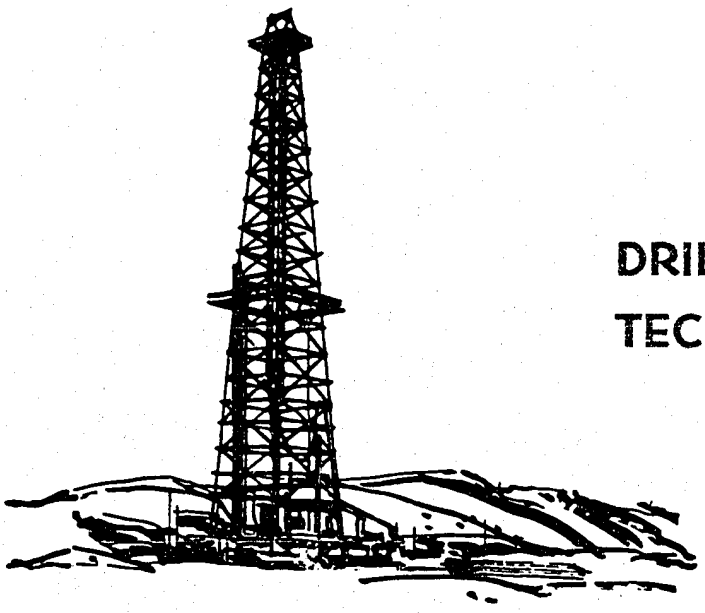
NO TRACE OF TOLUENE INDICATED.

Sample was received in a 1 quart plastic container without a foil insert present in the screw cap. Container was full, water was muddy, and appeared to be a good sample.

LYNES

BRIGHT NAME IN THE OIL PATCH

Inflatable and Conventional Packer Tools



DRILL STEM TEST
TECHNICAL SERVICE REPORT

LYNES UNITED SERVICES LTD.

WELL NAME - AQUIT HIGHLAND

LOCATION - I-23

DST NUMBER - 1

INTERVAL TESTED - 2280 TO 2340

RECORDER NO. - 2561

DEPTH - 2267

FINAL SHUT IN PRESSURE

TIME(MIN) Φ	T + Φ / Φ	PSIG
0	0.0000	220
9	11.5556	350
18	6.2778	426
27	4.5185	427
36	3.6389	433
45	3.1111	455
54	2.7593	456
63	2.5079	463
72	2.3194	468
81	2.1728	474
90	2.0556	473

EQU. FITTED LINE IS LOG((T0+Φ)/Φ)= -0.00647 PSIG + 3.40445

EXTRAPOLATION OF FINAL SHUT-IN = 526.38 M= 154.62

LYNES UNITED SERVICES LTD.

WELL NAME - AQUIT HIGHLAND

LOCATION - I-23

DST NUMBER - 1

INTERVAL TESTED - 2280 TO 2380

RECORDER NO. - 2501

DEPTH - 2267

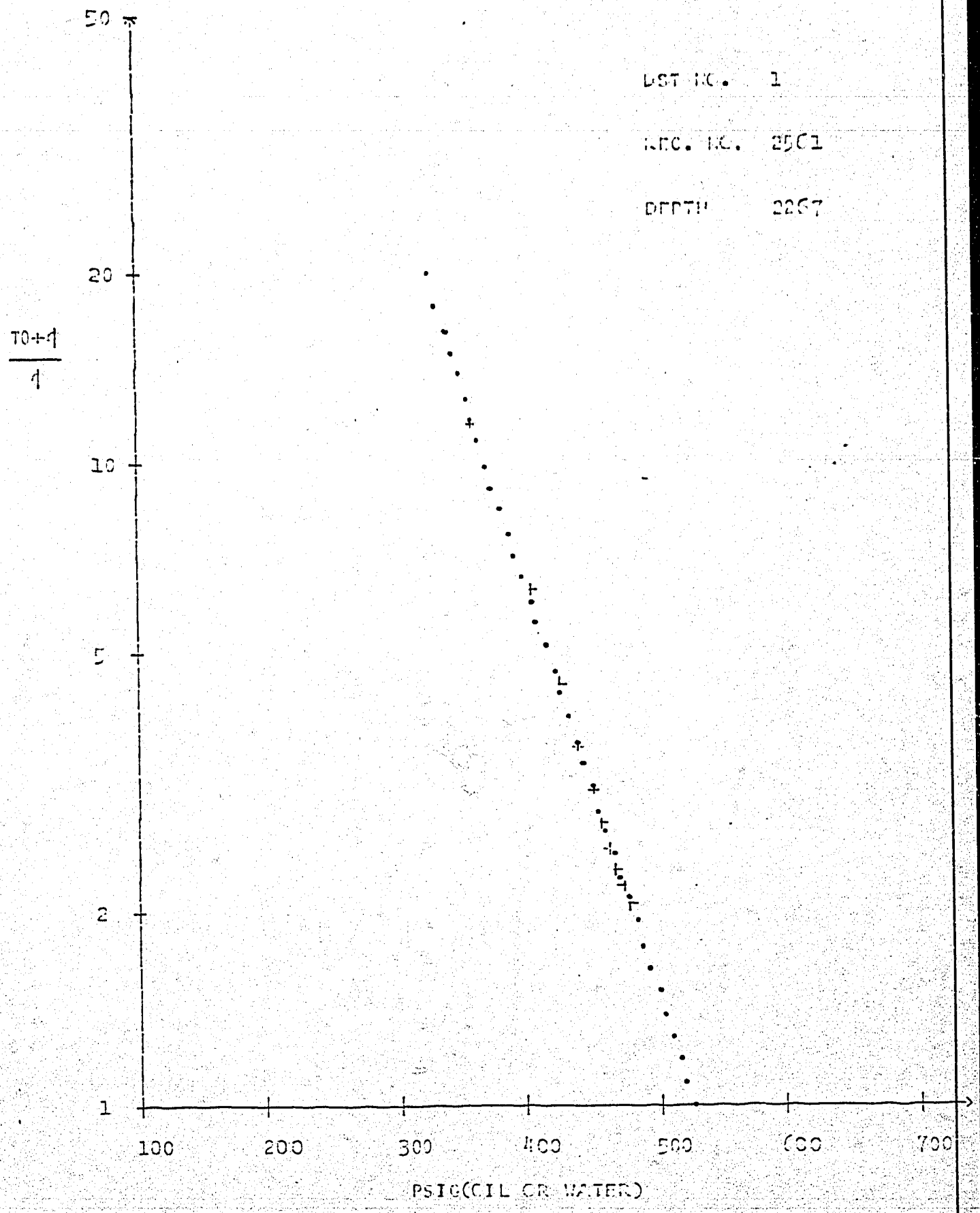
FINAL SHUT IN PRESSURE

TIME(MIN) Φ	T + Φ / Φ	PSIG
0	0.0000	220
9	11.5556	352
18	6.2778	400
27	4.5185	427
36	3.6389	433
45	3.1111	450
54	2.7593	456
63	2.5079	462
72	2.3194	466
81	2.1728	474
90	2.0556	472

EQU. FITTED LINE IS LOG((TO+Φ)/Φ)= -0.00647 PSIG + 3.40445

EXTRAPOLATION OF FINAL SHUT-IN = 526.38 M= 154.62

LYNES UNITED SERVICES LTD.



PRESSURE EXTRAPOLATION PLOT

LYNES UNITED SERVICES LTD.

TEST DATA

Test No. L — Lynes Test 1

Formation — T.D. 2731 Ft.

Interval Tested 2280 Ft. to 2340 Ft.

Interval Tested 60 Ft. Net Pay Tested Ft.

Type of Test Straddle By-pass Conv

Cushion — Amount Ft.

Started in Hole at 1500 Hrs. Tool Open at 910 Hrs.

Pre-Flow 5 Mins. Initial Shut-in 60 Mins.

2nd Flow Mins. Second Shut-in Mins.

Final Flow 90 Mins. Final Shut-in 90 Mins.

Remarks:

Blow: Weak initial puff (air). Medium blow building on final flow to strong and remaining constant then dying after 60 minutes.

GAS BLOW MEASUREMENTS

Measured with

no gas to surface.

Time	Surface Choke	Reading Inches	Cubic Feet/Day

RECOVERY

TOTAL FLUID RECOVERED 434 Ft. Consisting of:

200 Ft. of drilling mud

234 Ft. of salt water

Ft. of

Ft. of

Test was/was not Reverse Circulated

Oil Recovery A.P.I. Water Specific Gravity

Salinity 55,400 PPM

GENERAL INFORMATION

Company Aquitaine Co. of Canada Ltd.

Address

Well Name Aquit Highland

Well Number I-23

K.B. Elevation Sub-Sea Elevation

Area Highland Lake Province N.W.T.

Company Rep. L. Mulholland

Tester L. Rausch

Contractor Guthrie McLaren Rig No. 4

Ticket No. 6391 Date March 15/73

Service Reports To:

12 - above address

MUD AND HOLE DATA

Mud Type Gel

Weight 9.4 Viscosity 78 Water Loss 8.6

Filter Cake 2/32" Bottom Hole Temperature

Drill Pipe Size 4 1/2 Weight

Drill Collars 6 1/2 I.D. 2 7/8 Feet Run 533

Main Hole or Casing Size 7 7/8"

Rathole or Liner Size No. of Feet

Bottom Hole Choke Size 1"

Surface Choke Size 1"

Packer Rubber Size 7"

REMARKS

Pipe pulled very tight for 60 feet or past top of interval

Shut-in pressures suggest relatively low permeability within the interval tested. Recorder 909 stepping.

PRESSURE READINGS

	Inside ___ Outside X	Inside ___ Outside X	Inside ___ Outside X	Inside ___ Outside ___
Recorder No.	2561	2234	909	
Capacity	3750	3350	4000	
Depth	2267	2265	2727	

NUMBER KEY:

1 - INITIAL HYDROSTATIC	1138	1150	1221	
2 - PRE-FLOW	300 (false)	342(false)		
3 - INITIAL SHUT-IN			below	
4a - 2nd INITIAL FLOW			straddle	
4b - 2nd FINAL FLOW				
4c - 2nd SHUT-IN				
5 - 3rd INITIAL FLOW	37	50		
6 - FINAL FLOW	220	230		
7 - FINAL SHUT-IN	478	480	883	
8 - FINAL HYDROSTATIC	1138	1150	1221	

Company: Aquitaine Co. of Canada Ltd.

Well Name and Description: Aquit Highland I-23

Test No.: #1

Date of Test: March 15/73

№ 7565

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Aquitaine Highland L 1-23
Location — Lsd. ..... Sec. 23 Twp. 62 Rge. 40 W. 12 M.
Date: MAR 17 1973

Weather Condition: Cold Road Conditions: Rough Nearest Town: Ft. Simpson
Water - Source: LAKE Miles Hauled: 12 Pumped: .....
Camp Distance from Rig: 200 YDS Reason for Extra L. Plant: Camp

OPERATOR: Aquitaine

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L Muchalland

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: H Bangsen

Rig No.	Drill Pipe String No.	Drill Pipe String Size	Tool Joint	Type Thd.
4 DWKS 11-34	2	4½	5¾ O.D.	F.H.

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C-250	15"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	8⅝	NEW	24 J55	12	605		605	

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig			
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals			

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No.
No. of Lines Size
Feet Slipped
Feet Cut Off
Present Length
Ton Mi. or Trips Since Last Cut
Cumulative Ton Mi. or Trips
No. of Days From Spud
Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	Stands D.P.	Ft.
	Singles D.P.	Ft.
	D.C. I.D. O.D.	Ft.
	D.C. I.D. O.D.	Ft.
	Stb. Body O.D.	Ft.
	Stb. Body O.D.	Ft.
	Rmr. Body O.D.	Ft.
	Subs O.D.	Ft.
	Bit or C.B.	Ft.
	Kelly Down	Ft.
	Total	Ft.
Wt. of String		Lbs.
Pipe in Hole		Jts.
Pipe on Racks		Jts.
Total Pipe on Lease		Jts.

BIT RECORD: Bit No. / Size / Mfg / Type / Nozzle No. / Nozzle Size / Ser. No. / Depth Out / Depth In / Total Ftg. / Total Hr. Run / Cond. of Bit / Reamer No. / Reamer Type

Water Charges — Reg. Hrs. O.T. Hrs.: Trucker / Trucker / Trucker

MUD RECORD: Time / Weight / Visc.-Sec. / W.L.-C.C. / FL TR. CK. / PH / SD. Cont. % / Pressure Gradient

Mud & Chemicals Added: Type / Amt. / Type / Amt.

Driller: Ross Collings

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record: Depth / Dev. / Direction / Depth / Dev. / Direction / Depth / Dev. / Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	2:00	2						CIRC & WAIT ON CEMENTERS
2:00	2:30	½						Rig Up Cementers
2:30								RAN PLUG No 1 - TD - 2300'
								WITH 165 SACKS OILWELL CEMENT
								Plug DOWN 2:30 AM
								RAN PLUG No. 2 2300' TO 1730'
	3:45	1¼						WITH 210 SACKS OF CEMENT
								PLUG DOWN 3:45 AM.
3:45								Pulled DrillPipe TO 1650' - CIRC.
	8:00	4¼						FOR 30 MINS. LAYED DOWN DRILLPIPE.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	Stands D.P.	Ft.
	Singles D.P.	Ft.
	D.C I.D. O.D.	Ft.
	D.C. I.D. O.D.	Ft.
	Stb. Body O.D.	Ft.
	Stb. Body O.D.	Ft.
	Rmr. Body O.D.	Ft.
	Subs O.D.	Ft.
	Bit or C.B.	Ft.
	Kelly Down	Ft.
	Total	Ft.
Wt. of String		Lbs.
Pipe in Hole		Jts.
Pipe on Racks		Jts.
Total Pipe on Lease		Jts.

BIT RECORD: Bit No. / Size / Mfg. / Type / Nozzle No. / Nozzle Size / Ser. No. / Depth Out / Depth In / Total Ftg. / Total Hr. Run / Cond. of Bit / Reamer No. / Reamer Type

Water Charges — Reg. Hrs. O.T. Hrs.: Trucker / Trucker / Trucker

MUD RECORD: Time / Weight / Visc.-Sec. / W.L.-C.C. / FL TR. CK. / PH / SD. Cont. % / Pressure Gradient

Mud & Chemicals Added: Type / Amt. / Type / Amt.

Driller: Allan Cooper

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record: Depth / Dev. / Direction / Depth / Dev. / Direction / Depth / Dev. / Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	9:15	1¼						LAY DOWN D.P
9:15	11:30	2¼						RAN TUBING
11:30	3:15	3¾						CIRC TUBING
3:15	4:00	¾						CEMENT TUBING.

RAN 48 JTS OF 2 3/8" - 4.7# - J55 - EUE TUBING (1519.81')
WITH 2 3/8" HALLIBURTON OMEGA LATCH DOWN ~~[illegible]~~ BAFFLE
IN COLLAR ON TOP OF FIRST JOINT. LANDED TUBING IN
CASING BOWL ON TUBING HANGER WITH BOTTOM AT 1533'.
CEMENTED BY HALLIBURTON WITH 350 SACKS OF

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	Stands D.P.	Ft.
	Singles D.P.	Ft.
	D.C. I.D. O.D.	Ft.
	D.C. I.D. O.D.	Ft.
	Stb. Body O.D.	Ft.
	Stb. Body O.D.	Ft.
	Rmr. Body O.D.	Ft.
	Subs O.D.	Ft.
	Bit or C.B.	Ft.
	Kelly Down	Ft.
	Total	Ft.
Wt. of String		Lbs.
Pipe in Hole		Jts.
Pipe on Racks		Jts.
Total Pipe on Lease		Jts.

BIT RECORD: Bit No. / Size / Mfg. / Type / Nozzle No. / Nozzle Size / Ser. No. / Depth Out / Depth In / Total Ftg. / Total Hr. Run / Cond. of Bit / Reamer No. / Reamer Type

Water Charges — Reg. Hrs. O.T. Hrs.: Trucker / Trucker / Trucker

MUD RECORD: Time / Weight / Visc.-Sec. / W.L.-C.C. / FL TR. CK. / PH / SD. Cont. % / Pressure Gradient

Mud & Chemicals Added: Type / Amt. / Type / Amt.

Driller

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record: Depth / Dev. / Direction / Depth / Dev. / Direction / Depth / Dev. / Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼						CEMENT TUBING
4:15	12:00	7¾						TEAR OUT BOP.

OILWELL CEMENT + 8% GEL. STARTED MIXING CEMENT
AT 3:15 PM, MIXING COMPLETE AT 4:10 PM WITH
GOOD CEMENT RETURNS AT SURFACE.

FOOTAGE: From / To / Ftge. — DR-D RM-R Core-C — Core No. — FORMATION (SHOW CORE RECOVERY) — Rotary RPM — Wt. on Bit 1000 Lbs. — Pump Press — Pump No. 1 Liner Size / S.P.M. — Pump No. 2 Liner Size / S.P.M. — Method Run SGL-S Par'el-P Com'd-C

Deviation Record: Depth / Dev. / Direction / Depth / Dev. / Direction / Depth / Dev. / Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
								INSERTED OMEGA LATCH DOWN PLUG AND PUMPED
								PLUG DOWN WITH 6 BBLS OF DIESEL FUEL.
								FINAL PRESSURE 1600 psi. BLED OFF PRESSURE
								PLUG HELD. PLUG DOWN @ 4:25 PM MAR 17/73.
								RIG RELEASED 8:00 PM MAR 17/73

№ 7564

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Lease Well Name: Apsit Highland L I-23
Location — Lsd. 23 Sec. 62 Twp. 40 Rge. 22 W. 15 M.
Date: 1 MAR 16 1973

Weather Condition: Cold | Road Conditions: Rough | Nearest Town: Pt. Lupton
Water - Source: Lake | Miles Hauled: 12 | Pumped: | Camp Distance from Rig: 200 yds | Reason for Extra L. Plant: Camp

OPERATOR: Apitine

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. McCullen

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Bampton

Rig No. 4 DWKS 66-34 | Drill Pipe String: No. 2, Size 4½ | Tool Joint: 5¾ O.D., Type Thd. F.H.

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT.	C-250	15"
2.			
3.			

	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
LAST CASING	8⅝	NEW	24 J55	12	506		506	
TUBING OR LINER								

TIME DISTRIBUTION — HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Running Reaming Log Down		2¼	
Conditioning Mud & Circulating			
Trips	3½	1½	
Lubricate Rig		¼	
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring Wait for Halliburton		3½	8
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test	1½		
Other Break Test Tool	2		
Fishing W.O.O.	1		
COMPLETION WORK A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No.	E716
No. of Lines	8 Size 1 1/8
Feet Slipped	380
Feet Cut Off	380
Present Length	
Ton Mi. or Trips Since Last Cut	2455.24
Cumulative Ton Mi. or Trips	
No. of Days From Spud	12
Cumulative Rotating Hrs.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	Stands D.P.	Ft.	Bit No.	
	Singles D.P.	Ft.	Size	
	D.C. I.D. O.D.	Ft.	Mfg.	
			Type	
	D.C. I.D. O.D.	Ft.	Nozzle No. / Size	
	Stb. Body O.D.	Ft.	Ser. No.	
	Stb. Body O.D.	Ft.	Depth Out	
	Rmr. Body O.D.	Ft.	Depth In	
	Subs O.D.	Ft.	Total Ftg.	
	Bit or C.B.	Ft.	Total Hr. Run	
	Kelly Down	Ft.	Cond. of Bit	
	Total	Ft.	Reamer No.	
Wt. of String		Lbs.	Reamer Type	
Pipe in Hole		Jts.	Water Charges Reg. Hrs. O.T. Hrs.	
Pipe on Racks		Jts.	Trucker	
Total Pipe on Lease	121	Jts.	Trucker	
			Trucker	

MUD RECORD

Time	
Weight	
Visc.-Sec.	
W.L.-C.C.	
FL. TR. CK.	
PH	
SD. Cont. %	
Pressure Gradient	

Mud & Chemicals Added: Type | Amt. | Type | Amt.

Driller: Ross Cadings

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1:30	1½						Testing Apsit Test Tool & Recover Charts
1:30	5:00	3½						~~5:00~~. Break out Test Tool 416 Ft. Fluid
5:00	7:00	2						
7:00	8:00	1						W.O.O.
								Fuel 1'10"

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	Stands D.P.	Ft.	Bit No.	
	Singles D.P.	Ft.	Size	
	D.C. I.D. O.D.	Ft.	Mfg.	
			Type	
	D.C. I.D. O.D.	Ft.	Nozzle No. / Size	
	Stb. Body O.D.	Ft.	Ser. No.	
	Stb. Body O.D.	Ft.	Depth Out	
	Rmr. Body O.D.	Ft.	Depth In	
	Subs O.D.	Ft.	Total Ftg.	
	Bit or C.B.	Ft.	Total Hr. Run	
	Kelly Down	Ft.	Cond. of Bit	
	Total	Ft.	Reamer No.	
Wt. of String		Lbs.	Reamer Type	
Pipe in Hole		Jts.	Water Charges Reg. Hrs. O.T. Hrs.	
Pipe on Racks		Jts.	Trucker	
Total Pipe on Lease		Jts.	Trucker	
			Trucker	

MUD RECORD

Time	
Weight	
Visc.-Sec.	
W.L.-C.C.	
FL. TR. CK.	
PH	
SD. Cont. %	
Pressure Gradient	

Mud & Chemicals Added: Type | Amt. | Type | Amt.

Driller: Allan Gingers

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Ser.
8:15	11:00	2¾						Run DCs In Hole & Lay Down.
11:00	12:30	1½						Run Hole & Pick Up Singles
12:30	4:00	3½						Wait for Cementers & Circ.

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	Stands D.P.	Ft.	Bit No.	
	Singles D.P.	Ft.	Size	
	D.C. I.D. O.D.	Ft.	Mfg.	
			Type	
	D.C. I.D. O.D.	Ft.	Nozzle No. / Size	
	Stb. Body O.D.	Ft.	Ser. No.	
	Stb. Body O.D.	Ft.	Depth Out	
	Rmr. Body O.D.	Ft.	Depth In	
	Subs O.D.	Ft.	Total Ftg.	
	Bit or C.B.	Ft.	Total Hr. Run	
	Kelly Down	Ft.	Cond. of Bit	
	Total	Ft.	Reamer No.	
Wt. of String		Lbs.	Reamer Type	
Pipe in Hole		Jts.	Water Charges Reg. Hrs. O.T. Hrs.	
Pipe on Racks		Jts.	Trucker	
Total Pipe on Lease		Jts.	Trucker	
			Trucker	

MUD RECORD

Time	
Weight	
Visc.-Sec.	
W.L.-C.C.	
FL. TR. CK.	
PH	
SD. Cont. %	
Pressure Gradient	

Mud & Chemicals Added: Type | Amt. | Type | Amt.

Driller

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	12:00	8						Circ + Wait On Cementers

№ 7563

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Aquit Highland L I-23
Location — Lsd. ___ Sec. ___ Twp. 23 Rge. 62 W. 40 M. 122 - 15
Date: MAR 15 1973

Weather Condition: Cool | Road Conditions: Rough | Nearest Town: Ft. Simpson | Water - Source: Lake | Miles Hauled: 12 | Pumped: | Camp Distance from Rig: 200'D | Reason for Extra L. Plant: Camp

OPERATOR: Aquitaine

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E Mulholland

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: H Bamford

Rig No.	Drill Pipe String No.	Drill Pipe String Size	Tool Joint	Type Tbd.
4 DWKS 11-34	2	4½	5¾ O.D.	F.H.

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C-250	15"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	8 5/8	New	24 K 55	12	506		506	

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming			
Conditioning Mud & Circulating			
Trips			1½
Lubricate Rig			
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging	8	7½	
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			3
Other: Make up DST		½	2½
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No. E 716
No. of Lines 8 Size 1 1/8
Feet Slipped 380
Feet Cut Off 380
Present Length
Ton Mi. or Trips Since Last Cut 18398
Cumulative Ton Mi. or Trips
No. of Days From Spud 11
Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
35	Stands D.P.	2186.56	Ft.
	Singles D.P.		Ft.
18	D.C. 2 2/3 6¼ I.D. O.D.	533.71	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Subs Bit O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	9.13	Ft.
	Total	2735	Ft.
	Wt. of String	65000	Lbs.
	Pipe in Hole	70	Jts.
	Pipe on Racks	51	Jts.
	Total Pipe on Lease	121	Jts.

BIT RECORD: Bit No. | Size | Mfg. | Type | Nozzle No. | Nozzle Size | Ser. No. | Depth Out | Depth In | Total Ftg. | Total Hr. Run | Cond. of Bit | Reamer No. | Reamer Type

Water Charges: Reg. Hrs. O.T. Hrs. Trucker ___ Trucker ___ Trucker ___

MUD RECORD: Time | Weight | Visc.-Sec. | W.L.-C.C. | FL TR. CK. | PH | SD. Cont. % | Pressure Gradient

Mud & Chemicals Added: Type | Amt. | Type | Amt.

Driller: Ron Collins

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2735													

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	5:00	8						Logging
								Logs Run. D.I.L. 2729 to 450'
								Schlumberger B.H.C.S. 2729 to 460
								F.D.C. 2729 to 1400'
								S.N.P. 2729 to 1400.
								Fuel 2' 2"

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
35	Stands D.P.	2186.56	Ft.
	Singles D.P.		Ft.
18	D.C. 2 2/3 6¼ I.D. O.D.	533.71	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
2	Subs O.D.	5.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	9.13	Ft.
	Total	2735.00	Ft.
	Wt. of String		Lbs.
	Pipe in Hole	70	Jts.
	Pipe on Racks	51	Jts.
	Total Pipe on Lease	121	Jts.

BIT RECORD: Bit No. | Size | Mfg. | Type | Nozzle No. | Nozzle Size | Ser. No. | Depth Out | Depth In | Total Ftg. | Total Hr. Run | Cond. of Bit | Reamer No. | Reamer Type

Water Charges: Reg. Hrs. O.T. Hrs. Trucker ___ Trucker ___ Trucker ___

MUD RECORD: Time | Weight | Visc.-Sec. | W.L.-C.C. | FL TR. CK. | PH | SD. Cont. % | Pressure Gradient

Mud & Chemicals Added: Type | Amt. | Type | Amt.

Driller: Allan Singer.

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2735.													

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	3:30	7½						LOGGING.
3:30	4:00	½						MAKE UP DST

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
34	Stands D.P.	2123.66	Ft.
	Singles D.P.		Ft.
18	D.C. 2 2/3 6¼ I.D. O.D.	533.71	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.	118.85	Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Subs Bit O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	9.13	Ft.
	Total	2769.34	Ft.
	Wt. of String	64000	Lbs.
	Pipe in Hole	68	Jts.
	Pipe on Racks	53	Jts.
	Total Pipe on Lease	121	Jts.

BIT RECORD: Bit No. | Size | Mfg. | Type | Nozzle No. | Nozzle Size | Ser. No. | Depth Out | Depth In | Total Ftg. | Total Hr. Run | Cond. of Bit | Reamer No. | Reamer Type

Water Charges: Reg. Hrs. O.T. Hrs. Trucker ___ Trucker ___ Trucker ___

MUD RECORD: Time | Weight | Visc.-Sec. | W.L.-C.C. | FL TR. CK. | PH | SD. Cont. % | Pressure Gradient

Mud & Chemicals Added: Type | Amt. | Type | Amt.

Driller

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	6:00	2.						MAKE UP DST
6:00	7:30	1½						RUN TO HOLE W/ DST #1
7:30	9:00	1½						REG UP TO TEST
9:00	12:00	3						TESTING

DST #1 - LYNES UNITED - INTERVAL 2280 - 2340
W. 4 - 7" STRADDLE BYPASS PACKERS. V.O. INITIAL 5 MINS, ISI 60 MINS. V.O. 90 MINS FSI 90 MINS.
WEAK INITIAL PUFF ON PREFLOW, WEAK AIRBLOW WHEN VALVE WAS OPENED SLIGHTLY INCREASING THEN DYING AFTER 60 MINS
RECOVERED 200' SALT WATER CUT MUD, 234' SALT WATER (35,400 ppm)
IHP 1136 psi FHP 1098 psi No ISIP, FSIP 474 IFP 27 FFP 214 psi

LM

№ 7562

GUTHRIE McLAREN Drilling Co.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Aquit Highland LT-23

Location — Lsd. 23 Sec. 62 Twp. 40 Rge. 22-15 W. M.

Date: March 14 1973

Weather Condition: Cold | Road Conditions: Poor | Nearest Town: Ft. Simpson | Water - Source: LK | Miles Hauled: — | Pumped: | Camp Distance from Rig: 200 yd | Reason for Extra L. Plant: Camp

OPERATOR: Aquitain

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

Rig No.	Drill Pipe String No.	Size	Tool Joint	Type Thd.
4 DWKS 11-34	2	4 1/2	5 3/4 O.D.	F.H.

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Nat	C-250	15
2.			
3.			

LAST CASING, TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	8 5/8		24# K-55	12	506		506	

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming			
Conditioning Mud & Circulating			
Trips	4	3/4	
Lubricate Rig	1/4	1/4	
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Circulate	2 1/2		
Service Rig			
E.L. Coring Sample	1/4		
Wire Line Logging		1	8
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No. E716

No. of Lines 8 Size 1 1/8

Feet Slipped 380

Feet Cut Off 380

Present Length

Ton Mi. or Trips Since Last Cut 153.35

Cumulative Ton Mi. or Trips

No. of Days From Spud 10

Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
35	Stands D.P.		Ft.
	Singles D.P.	2186.56	Ft.
	D.C. I.D. O.D.		Ft.
18	D.C. 6 1/4 I.D. O.D.	533.71	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.	2.00	Ft.
	Subs 3 O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	9.13	Ft.
	Total	2735.00	Ft.
Wt. of String	68,000		Lbs.
Pipe in Hole	70		Jts.
Pipe on Racks	51		Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD	
Bit No.	5A
Size	7 7/8
Mfg.	Smith
Type	3JS-G
Nozzle No.	3
Nozzle Size	11
Ser. No.	MC879
Depth Out	
Depth In	2607
Total Ftg.	128
Total Hr. Run	11 1/2
Cond. of Bit	
Reamer No.	
Reamer Type	

Water Charges Reg. Hrs. O.T. Hrs.

Trucker

Trucker

Trucker

MUD RECORD	
Time	3.00
Weight	9.4
Visc.-Sec.	75
W.L.-C.C.	5.8
FL TR. CK.	2/32
PH	10.5
SD. Cont. %	
Pressure Gradient	

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Mud	220 bbl		
Caustic			

Driller: Henry Lavoie

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
								700	5	62			

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	1/4						Rig Serv + Oops
12.15	12.30	1/4						Circulate sample
12.30	3.30	3						Circulate + Condition Mud
3.30	5.30	2						Pull 10 stand Dummy trip Tight hole 2314
5.30	6.15	3/4						Run in 10 stand Dummy trip
6.15	6.45	1/2						Circulate
6.45	8.00	1 1/4						TRIP OUT + Drop survey Fuel - 10"

FUEL 10"

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
35	Stands D.P.	2186.56	Ft.
	Singles D.P.		Ft.
18	D.C. 6 1/4 I.D. O.D.	533.71	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Subs 3 O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	9.13	Ft.
	Total	2735	Ft.
Wt. of String	68,000		Lbs.
Pipe in Hole	70		Jts.
Pipe on Racks	51		Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD	
Bit No.	5A
Size	7 7/8
Mfg.	Smith
Type	3JS-G
Nozzle No.	3
Nozzle Size	11
Ser. No.	
Depth Out	2735
Depth In	2607
Total Ftg.	128
Total Hr. Run	11 1/2
Cond. of Bit	5 5 1
Reamer No.	
Reamer Type	

Water Charges Reg. Hrs. O.T. Hrs.

Trucker

Trucker

Trucker

MUD RECORD	
Time	
Weight	
Visc.-Sec.	
W.L.-C.C.	
FL TR. CK.	
PH	
SD. Cont. %	
Pressure Gradient	

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Ross Collings

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2735													

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	1/4						~~Hoist Tools~~ Rig Ser Rope + Motor Shut off
8.15	9.00	3/4						Hoist To Log
9.00	9.30	1/2						Rig Up Loggers
9.30	4.00	6 1/2						Logging

CHANGE OIL, OIL + FUEL FILTERS FOR ALL MOTORS

DP TALLY 2186.56 STRAP 2186.29 DIFF .47

DC STRAP 533.71 TALLY 533.71 .00

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
35	Stands D.P.	2186.56	Ft.
	Singles D.P.		Ft.
18	D.C. I.D. O.D.	533.71	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
2	Subs O.D.	5.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	9.13	Ft.
	Total	2735.00	Ft.
Wt. of String			Lbs.
Pipe in Hole	70		Jts.
Pipe on Racks	51		Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD	
Bit No.	
Size	
Mfg.	
Type	
Nozzle No.	
Nozzle Size	
Ser. No.	
Depth Out	
Depth In	
Total Ftg.	
Total Hr. Run	
Cond. of Bit	
Reamer No.	
Reamer Type	

Water Charges Reg. Hrs. O.T. Hrs.

Trucker

Trucker

Trucker

MUD RECORD	
Time	
Weight	
Visc.-Sec.	
W.L.-C.C.	
FL TR. CK.	
PH	
SD. Cont. %	
Pressure Gradient	

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Allan Anger

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	12.00	8						LOGGING.

№ 7561

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Aquitain Highlands LJ-23 (62-40-122-15)
Location — Lsd. 1 Sec. 23 Twp. ___ Rge. ___ W. ___ M.
Date: March 13 1973

Weather Condition: Cold Road Conditions: Poor Nearest Town: Ft. Simpson Water - Source: Lk. Miles Hauled: 2 Pumped: ___ Camp Distance from Rig: 200 yd. Reason for Extra L. Plant: Camp

OPERATOR: Aquitain

Rig No. 4 DWKS 4-34 | Drill Pipe String No. 2 Size 4½ | Tool Joint 5¾ O.D. | Type Thd. F.H.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Nat.	C-250	15
2.			
3.			

	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
LAST CASING TUBING OR LINER	8⅝		24# K-55	12	506		506	

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	6¾	3¾	7¾
Reaming			
Conditioning Mud & Circulating			
Trips	½	3½	
Lubricate Rig	¼	¼	¼
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig		½	
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Circ. Other Sample	½		
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	

TIME SUMMARY (Office Use Only)

Day Work	
Hrs. W/DP	
Hrs. WO/DP	
Hrs. Standby	
Total Day Work	

WIRE LINE RECORD

Reel No.	E 176
No. of Lines	8 Size 1⅛
Feet Slipped	380
Feet Cut Off	380
Present Length	
Ton Mi. or Trips Since Last Cut	92.09
Cumulative Ton Mi. or Trips	
No. of Days From Spud	9
Cumulative Rotating Hrs.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
33	Stands D.P.		Ft.
	Singles D.P.	2060.89	Ft.
	D.C. I.D. O.D.		Ft.
18	D.C. I.D. O.D.	533.71	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Subs Bit O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	5.40	Ft.
	Total	2607.00	Ft.
Wt. of String		60.000	Lbs.
Pipe in Hole		66	Jts.
Pipe on Racks		55	Jts.
Total Pipe on Lease		121	Jts.

BIT RECORD		
Bit No.	4 R.R.	
Size	7⅞	
Mfg.	Sec	
Type	S-86	
Nozzle No.	2 1	
Nozzle Size	4 12	
Ser. No.	420964	
Depth Out		
Depth In	2369	
Total Ftg.		
Total Hr. Run		
Cond. of Bit		
Reamer No.		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD			
Time	6:00	3:00	7:00
Weight	9.1	9.3	9.4
Visc.-Sec.	62	63	65
W.L.-C.C.	10.0	9.5	
FL TR. CK.	2/32	2/32	
PH	10.5	11.0	10.5
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	400#		
C.M.C.	100#		
Caustic	50#		
Peltex	100#		

Driller: Henry Pierson

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2556	2607	51	R.W.S.			50	30	700	5	58			

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
11:00	12:15	¼						Rig Ser + B.O.P. ✓
12:15	7:00	6¾						Drill
7:00	7:30	½						Circulate sample 2607'
7:30	8:00	½						Trip for Bit.
								Fuel 1' 4"

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
33	Stands D.P.		Ft.
1	Singles D.P.	2092.11	Ft.
18	D.C. I.D. O.D.	533.71	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Subs Bit O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	19.18	Ft.
	Total	2650.00	Ft.
Wt. of String		62.000	Lbs.
Pipe in Hole		67	Jts.
Pipe on Racks		54	Jts.
Total Pipe on Lease		121	Jts.

BIT RECORD		
Bit No.	4-RR	5A
Size	7⅞	7⅞
Mfg.	Sec	Smith
Type	S-86	3TS-G
Nozzle No.	2 1	3
Nozzle Size	11 12	11
Ser. No.	420964	MC889
Depth Out	2607	
Depth In	2369	2607
Total Ftg.	238	43
Total Hr. Run	20¾	3¾
Cond. of Bit	6 8	
Reamer No.		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD			
Time	1:00	3:00	
Weight			
Visc.-Sec.			
W.L.-C.C.			
FL TR. CK.			
PH			
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	300#		
Salt Gel	200#		
C.M.C.	100#		
Peltex	750#		
Caustic	150#		

Driller: Ross Collings

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2607	2650	43	D			50	30	700	5"				

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Ser. Bops + Motor Shut ✓
8:15	8:45	½						Hoist for Bit Tight 2422-To 2600'
8:45	9:15	½						Repair Low Chain in Draw works
9:15	12:15	3						Finish Trip.
12:15	4:00	3¾						Drill.

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
35	Stands D.P.		Ft.
	Singles D.P.	2786.56	Ft.
18	D.C. 2⅞ 6¼ I.D. O.D.	533.71	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Subs Bit O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	9.73	Ft.
	Total	2735.00	Ft.
Wt. of String		68.000	Lbs.
Pipe in Hole		70	Jts.
Pipe on Racks		41	Jts.
Total Pipe on Lease		121	Jts.

BIT RECORD		
Bit No.	5A	
Size	7⅞	
Mfg.	Smith	
Type	3TS-G	
Nozzle No.	3	
Nozzle Size	11	
Ser. No.	MC889	
Depth Out		
Depth In	2607	
Total Ftg.	128	
Total Hr. Run	11½	
Cond. of Bit		
Reamer No.		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD			
Time	5:00	8:00	12.00
Weight	9.4	9.2	9.3
Visc.-Sec.	50	58	60
W.L.-C.C.	8.5	8.3	8.4
FL TR. CK.	2/32	2/32	2/32
PH	11.00	10	11.
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Plastop	500#		
Gel	120#		
Salt Gel	500#		
Caustic	50#		

Driller

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2650	2735	85	D			50	30	700	5	62			

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼						Rig Ser Bops ✓
4:15	12:00	7¾						Drill

№ 7560

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: Aguitt Highland Ln 1-23

Location — Lsd. 1 Sec. 23 Twp. (62-40-122-15) Rge. ___ W. ___ M.

Date: March 12 19 72

Weather Condition: Cold | Road Conditions: Poor | Nearest Town: Ft. Simpson | Water - Source: Lake | Miles Hauled: 17 | Pumped: | Camp Distance from Rig: 200 yd. | Reason for Extra L. Plant: Camp

OPERATOR: Aguitwin

Rig No. 4 | DWKS 4-34 | Drill Pipe String No. 3 Size 4½ | Tool Joint 5¾ O.D. | Type Thd. FH.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	C-250	Nat	15
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	8⅝		24 & 55	12	506		506	

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual		6¼	7¾
Reaming	3	1	
Conditioning Mud & Circulating		½	
Trips	3¼		
Lubricate Rig	¼	¼	¼
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Recover core / Coring / Lay down Barrel	1		
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other	½		
Rig Repair / Testing	3	3	
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No. E176

No. of Lines 8 Size 1⅛

Feet Slipped 380

Feet Cut Off 380

Present Length

Ton Mi. or Trips Since Last Cut 9209

Cumulative Ton Mi. or Trips 38.60

No. of Days From Spud 9

Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
28	Stands D.P.	174 986 Ft.
1	Singles D.P.	31.63 Ft.
	D.C. I.D. O.D.	Ft.
18	D.C. 2⅞ I.D. 6¼ O.D.	533.71 Ft.
	Stb. Body O.D.	Ft.
	Stb. Body O.D.	Ft.
1	Rmr. Body O.D.	2.00 Ft.
1	Subs B.C. O.D.	3.00 Ft.
	Bit or C.B.	Ft.
	Kelly Down	40.85 Ft.
	Total	2361.00 Ft.
Wt. of String	58,000 Lbs.	
Pipe in Hole	56 Jts.	
Pipe on Racks	65 Jts.	
Total Pipe on Lease	121 Jts.	

BIT RECORD		
Bit No.	4-Reruns	
Size	7⅞	
Mfg.	Sec	
Type	S 86	
Nozzle No.	2 1	
Nozzle Size	11 12	
Ser. No.	420984	
Depth Out		
Depth In	2345	
Total Ftg.		
Total Hr. Run		
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD			
Time		5:00	7:00
Weight		9.5	9.4
Visc.-Sec.		65	47
W.L.-C.C.		9	9
FL TR. CK.		2/32	2/32
PH		10.0	10.0
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	200#		
Salt Gel	200#		

Driller: Henry Cousins

FOOTAGE From	To	Fige.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2342	2361	19	RM-R			50	6000	700	5	59			

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼						Rig Ser. + BOP ✓
12:15	1:00	¾						Pull Core No. 1
1:00	1:30	½						Recover Core No 1
1:30	2:00	½						Lay down Core barrel
2:00	4:30	2½						Run in hole with bit
4:30	5:00	½						Break circulation + work to bottom
5:00	8:00	3						Ream Rathole

Fuel 2'1"

Strap - 533.71 } correction 3.06 ft.
Tally - 536.76

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
30	Stands D.P.	Ft.
1	Singles D.P.	1906.63 Ft.
18	D.C. 2⅞ I.D. 6¼ O.D.	533.71 Ft.
	D.C. I.D. O.D.	Ft.
	Stb. Body O.D.	Ft.
	Stb. Body O.D.	Ft.
1	Rmr. Body O.D.	2.00 Ft.
1	Subs B.C. O.D.	3.00 Ft.
	Bit or C.B.	Ft.
	Kelly Down	10.61 Ft.
	Total	2456.00 Ft.
Wt. of String	60,000 Lbs.	
Pipe in Hole	60 Jts.	
Pipe on Racks	61 Jts.	
Total Pipe on Lease	121 Jts.	

BIT RECORD		
Bit No.	4-RR	
Size	7⅞	
Mfg.	Sec	
Type	S-86	
Nozzle No.	2 1	
Nozzle Size	11 12	
Ser. No.	420984	
Depth Out		
Depth In	2319	
Total Ftg.	37	
Total Hr. Run	6¼	
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD			
Time	9:00	12:00	3:00
Weight	9.5	9.5	9.5
Visc.-Sec.	47	70	70
W.L.-C.C.	9	7.8	
FL TR. CK.	2/32	2/32	
PH	10	9.5	9.5
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
GEL	500#		
SALT GEL	500#		
PELTEX	100#		
CAUSTIC	200#		
SODA ASH	100#		

Driller: Ross Cochrane

FOOTAGE From	To	Fige.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2661	2672	11	RM			50	6	700	5"	59			
2369	2456	87	D			50	30	700	5"	59			

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Ser + Bops. + Motor Shut off ✓
8:15	9:15	1						Ream Rathole
9:15	3:00	5¾						Drill
3:00	3:30	½						Mud Contaminated with Anhydrite Mix Peltex
3:30	4:00	½						Drill.

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
32	Stands D.P.	1998.25 Ft.
	Singles D.P.	Ft.
	D.C. I.D. O.D.	Ft.
18	D.C. 2⅞ I.D. 6¼ O.D.	533.71 Ft.
	Stb. Body O.D.	Ft.
	Stb. Body O.D.	Ft.
1	Rmr. Body O.D.	2.00 Ft.
1	Subs B.C. O.D.	3.00 Ft.
	Bit or C.B.	Ft.
	Kelly Down	19.04 Ft.
	Total	2556.00 Ft.
Wt. of String	60,000 Lbs.	
Pipe in Hole	64 Jts.	
Pipe on Racks	57 Jts.	
Total Pipe on Lease	121 Jts.	

BIT RECORD		
Bit No.	4-RR.	
Size	7⅞	
Mfg.	Sec	
Type	S86	
Nozzle No.	2 1	
Nozzle Size	11 12	
Ser. No.	420984	
Depth Out		
Depth In	2319	
Total Ftg.	237	
Total Hr. Run	14	
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD			
Time	5:00	7:00	10:00
Weight	9.4	9.4	9.1
Visc.-Sec.	40	64	65
W.L.-C.C.		9.0	
FL TR. CK.		2/32	
PH	9.5	11.0	
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
GEL	1500#		
SALT GEL	1500#		
CAUSTIC	150#		
Peltex	50#		
SODA ASH	100#		

Driller

FOOTAGE From	To	Fige.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2456	2556	100	D			50	30	700	5	59			

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼						Rig Ser. Bop ✓
4:15	12:00	7¾						Drill

№ 7559

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Aquitaine Highlands 1-23

Location — Lsd. 1 Sec. 23 Twp. 12 Rge. 22.15 W. M.

Date: March 11, 1973

Weather Condition: Cold | Road Conditions: Poor | Nearest Town: Ft. Simpson | Water - Source: L.K. | Miles Hauled: 12 | Pumped: | Camp Distance from Rig: 200 yd. | Reason for Extra L. Plant: Camp.

OPERATOR: Aquitaine

Rig No. 4 | DWKS 4-34 | Drill Pipe String: No. 2 Size 4½ | Tool Joint 5 3/4 O.D. | Type Tld. F.H.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: H. Bayford

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Nat.	C-250	15
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	8 5/8		24# K-55	12	506		506	

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down	~~3/4~~		
Drilling Actual	7½	½	
Reaming			
Conditioning Mud & Circulating			
Trips		3¾	3¼
Lubricate Rig	¼	¼	¼
Deviation Survey	¼	¼	
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring		1	1
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other Circ Sample		¾	
Fishing SER CORE BRL.		1¼	
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	9	8

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No.	E 176
No. of Lines	8 Size 1/8
Feet Slipped	380
Feet Cut Off	380
Present Length	
Ton Mi. or Trips Since Last Cut	9209
Cumulative Ton Mi. or Trips	38.60
No. of Days From Spud	8
Cumulative Rotating Hrs.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
28	Stands D.P.	1749.81	Ft.
	Singles D.P.		Ft.
	D.C. I.D. O.D.		Ft.
18	D.C. 2 7/8 6¼ I.D. O.D.	536.76	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Sub Bit O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	38.43	Ft.
	Total	2330.00	Ft.
Wt. of String	58.000		Lbs.
Pipe in Hole	56		Jts.
Pipe on Racks	65		Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD		
Bit No.	2	
Size	7⅞	
Mfg.	Smith	
Type	355-G	
Nozzle No.	2	1
Nozzle Size	10	11
Ser. No.	MC889	
Depth Out		
Depth In	1707	
Total Ftg.	623	
Total Hr. Run	35½	
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD			
Time	12:00	3.00	6.00
Weight	9.3	9.4	9.4
Visc.-Sec.	46	48	52
W.L.-C.C.	8.4	8.6	
FL TR. CK.	2/32	2/32	
PH	9.5	9.0	11.5
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Caustic	50#		

Driller: Henry Evans

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2224	2330	106	D			50	30	900	5	62			
								475		46			
								200		33			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2268	1½°							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼						Rig Ser. B.O.P. ✓
12:15	3:30	3¼						Drill
3:30	3:45	¼						Survey
3:45	8:00	4¼						Drill Fuel 21' 6"

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
28	Stands D.P.		Ft.
1	Singles D.P.	1781.44	Ft.
18	D.C. 2 7/8 6¼ I.D. O.D.	536.76	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Subs Bit O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	18.80	Ft.
	Total	2342.00	Ft.
Wt. of String	58.000		Lbs.
Pipe in Hole	57		Jts.
Pipe on Racks	64		Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD		
Bit No.	2	3
Size	7⅞	6¾ x 3½
Mfg.	Smith	
Type	355-G	WESDRILL
Nozzle No.	2	1
Nozzle Size	10	11
Ser. No.	MC889	
Depth Out	2342	
Depth In	1707	2342
Total Ftg.	635	3
Total Hr. Run	36	1
Cond. of Bit	241	
Reamer No.		
Reamer Type		

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD		
Time	9:00	3:00
Weight	9.5	9.4
Visc.-Sec.	54	53
W.L.-C.C.	9.4	9.4
FL TR. CK.	2/32	2/32
PH	10.5	10.5
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Ross Collings

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2230	2342	12	D			50	30	900	6.2				
2342	2345	3	C	1		80	6-8	400	5.8				

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2340	1½°							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Ser. Bops + Motor Shut off. ✓
8:15	8:45	½						Drill
8:45	9:30	¾						Circ. Sample
9:30	9:45	¼						Drop Survey
9:45	10:30	¾						Hoist To Core. Strap out
10:30	12:45	2¼						Pick up Core Bbl. + Ser.
12:45	2:45	2						Run In W/ Core Bbl.
2:45	3:00	¼						Circ. Core Bbl.
3:00	4:00	1						Coring No. 1
								DP. 1781.44 Tally DC 536.76 Tally
								1781.25 Strap 533.71 Strap
								Diff. .19 Diff. 3.05

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
28	Stands D.P.	1749.44	Ft.
	Singles D.P.		Ft.
18	D.C. 2 7/8 6¼ I.D. O.D.	536.76	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Subs Bit O.D.	3.00	Ft.
1	Bit or C.B.	68.02	Ft.
	Kelly Down	12.78	Ft.
	Total		Ft.
Wt. of String	56.000		Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD		
Bit No.	3	
Size	6¾ x 3½	
Mfg.		
Type	WESDRILL	
Nozzle No.		
Nozzle Size		
Ser. No.		
Depth Out	2372	
Depth In	2342	
Total Ftg.	30	
Total Hr. Run		
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD		
Time	6:00	8:00
Weight	9.5	9.4
Visc.-Sec.	53	53
W.L.-C.C.	9	
FL TR. CK.	2/32	
PH	10.5	10
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	200#		
Salt Gel	100#		

Driller

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2345	2372	30	C	1	Recovered 30'	80	11.	400	5"	58			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼						~~Coring Core No. 1~~
4:15	11:15	~~6¾~~						Rig Ser. B.O.P. ✓
11:15	12:00	~~¾~~						Coring Core No. 1
								Pull Core No. 1
								Core # 1 2342 - 2372
								Cut 30'
								Recovered 30'

№ 7558

GUTHRIE McLAREN Drilling Co.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: Aquitain Highland LJ F-23

Location — Lsd. 1 Sec. 23 (62-40 - 122-15) Twp. Rge. W. M.

Date: March 10th 19[illegible]

Weather Condition: Cold | Road Conditions: Poor | Nearest Town: Ft. Simpson | Water - Source: Lk. | Miles Hauled: 12 | Pumped | Camp Distance from Rig: 200 yd | Reason for Extra L. Plant: Camp

OPERATOR: Aquitain

Rig No. 4 DWKS 4-34 | Drill Pipe String: No. 2 Size 4½ | Tool Joint 5¾ O.D. | Type Thd. F.H.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: G. Mcholland

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: H. Bergman

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Nat	C-250	15
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	9⅝		24# H-40	12	506		506	

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	6¼	7½	7
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig	¼	¼	¼
Deviation Survey	½	¼	¼
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Clean Shaker Tank	¾		½
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No.	E176
No. of Lines	8 Size 1⅛
Feet Slipped	380
Feet Cut Off	380
Present Length	
Ton Mi. or Trips Since Last Cut	38
Cumulative Ton Mi. or Trips	38.60
No. of Days From Spud	7
Cumulative Rotating Hrs.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
22	Stands D.P.	1374.72	Ft.
	Singles D.P.	31.32	Ft.
	D.C. I.D. O.D.		Ft.
18	D.C. 2⅞ 6¼ I.D. O.D.	536.76	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Sub Bit O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	15.20	Ft.
	Total	1963.00	Ft.
	Wt. of String	52,000	Lbs.
	Pipe in Hole	45	Jts.
	Pipe on Racks	76	Jts.
	Total Pipe on Lease	121	Jts.

BIT RECORD		
Bit No.	2	
Size	7⅞	
Mfg.	Smith	
Type	355-6	
Nozzle No.	2 1	
Nozzle Size	10 11	
Ser. No.	MC889	
Depth Out		
Depth In	1707	
Total Ftg.	256	
Total Hr. Run	13½	
Cond. of Bit	10	
Reamer No.		
Reamer Type		

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD			
Time	2:00	4:00	6:00
Weight	9.1	9.3	9.3
Visc.-Sec.	38	40	46
W.L.-C.C.	9.8	10.2	8.6
FL TR. CK.	2/32	2/32	2/32
PH	10	9.5	9.5
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	1000#		
Salt Gel	1000#		
C.M.C.	50#		

Driller: Henry Larsen

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1890	1963	73	D			48	28/30	900	5	57			
								400		43			
								200		27			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	1893	2½°		1956	2°				

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼						Rig service + B.O.P. ✓
12:15	12:30	¼						Survey
12:30	1:15	¾						Clean Shaker Tank
1:15	7:00	5¾						Drill
7:00	7:15	¼						Survey
7:15	8:00	¾						Drill

Fuel 1'-4"

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
24	Stands D.P.		Ft.
1	Singles D.P.	1531.64	Ft.
	D.C. I.D. O.D.		Ft.
18	D.C. 2⅞ 6¼ I.D. O.D.	536.76	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Sub Bit	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	29.59	Ft.
	Total	2103	Ft.
	Wt. of String	54,000	Lbs.
	Pipe in Hole	49	Jts.
	Pipe on Racks	72	Jts.
	Total Pipe on Lease	121	Jts.

BIT RECORD		
Bit No.	2	
Size	7⅞	
Mfg.	Smith	
Type	355-6	
Nozzle No.	2 1	
Nozzle Size	10 11	
Ser. No.	MC 889	
Depth Out		
Depth In	1707	
Total Ftg.	396	
Total Hr. Run	21	
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD			
Time	9:00	12:00	5:00
Weight	9.3	9.3 -	9.3
Visc.-Sec.	43	50	47
W.L.-C.C.	9.0	8.8	8.8
FL TR. CK.	2/32	2/32	2/32
PH	9.5	10.5	10.5
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gell	1000#		
Salt Gell	1000#		
Caustic	50		

Driller: Ross Collings

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1963	2103	140	D			50	30	900	5"	62			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2050	2°							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Ser + Bops + Motor shut off ✓
8:15	1:00	4¾						Drill
1:00	1:15	¼						Survey
1:15	4:00	2¾						Drill

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
26	Stands D.P.	1625.57	Ft.
1	Singles D.P.	31.42	Ft.
	D.C. I.D. O.D.		Ft.
18	D.C. 2⅞ 6¼ I.D. O.D.	536.76	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Sub Bit O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	27.25	Ft.
	Total	2224.00	Ft.
	Wt. of String	56,000	Lbs.
	Pipe in Hole	53	Jts.
	Pipe on Racks	68	Jts.
	Total Pipe on Lease	121	Jts.

BIT RECORD		
Bit No.	2	
Size	7⅞	
Mfg.	Smith	
Type	3JS-G	
Nozzle No.	2 1	
Nozzle Size	10 11	
Ser. No.	MC-889	
Depth Out		
Depth In	1707	
Total Ftg.	517	
Total Hr. Run	28	
Cond. of Bit	IN	
Reamer No.		
Reamer Type		

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD			
Time	6:00	8:00	10:00
Weight	9.3	9.3	9.3
Visc.-Sec.	48	43	46
W.L.-C.C.	8.8	8.6	8.4
FL TR. CK.	2/32	2/32	2/32
PH	10.5	10.0	9.5
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	700#		
Salt Gel	700#		

Driller

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2103	2224	121	D			50	30	900	5	62			
								450		46			
								250		38			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2145	1¼°							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼						Rig Ser + Bops ✓
4:15	6:15	2						Drill
6:15	6:30	¼						Survey
6:30	7:00	½						Clean Shaker Tank
7:00	12:00	5						Drill

№ 7557

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Aquitaine Highland L II-23 (62-40-122-15)
Location — Lsd. 1 Sec. 23 Twp. ___ Rge. ___ W. ___ M.
Date: March 9 1973

Weather Condition: Cool | Road Conditions: Poor | Nearest Town: Ft. Simpson | Water - Source: Lake | Miles Hauled: 1/2 | Pumped: | Camp Distance from Rig: 2.00 yd | Reason for Extra Camp:

OPERATOR: Aquitaine Co. of Can. Ltd.

Rig No. 4 | DWKS 4.34 | Drill Pipe String No. 2 Size 4 1/2 | Tool Joint 5 3/4 O.D. | Type Thd. F.H.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: G. Mitchell

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: H. Barron

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Nat	C-250	15
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. Chf. Hd.	Set at	Remarks
	9 5/8		24# K55	12	504		506	

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	6	5 1/4	7
Reaming			1/4
Conditioning Mud & Circulating			
Trips		5 1/4	
Lubricate Rig	1/4	1/4	1/4
Deviation Survey	1/2	1/4	
Test B.O.P.	1 1/4		
Cut Off Drilling Line		1 1/2	
Clean Flowline Repair Rig			1/2
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Conservation Check		1/2	
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			*
E. Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

Day Work
Hrs. W/DP
Hrs. WO/DP
Hrs. Standby
Total Day Work

WIRE LINE RECORD

Reel No. E 176
No. of Lines 1 Size 1 1/4
Feet Slipped 330
Feet Cut Off 380
Present Length
Ton Mi. or Trips Since Last Cut
Cumulative Ton Mi. or Trips
No. of Days From Spud 6
Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
21	Stands D.P.	1311.53	Ft.
	Singles D.P.		Ft.
	D.C. I.D. O.D.		Ft.
12	D.C. 6 1/4 I.D. 2 7/8 O.D.	350.15	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Sub B.O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	33.32	Ft.
	Total	1700.00	Ft.
Wt. of String	44.000		Lbs.
Pipe in Hole	42		Jts.
Pipe on Racks	79		Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD		
Bit No.	1	
Size	7 7/8	
Mfg.	Sec	
Type	S44	
Nozzle No.	1 2	
Nozzle Size	10 11	
Ser. No.	913650	
Depth Out		
Depth In	506	
Total Ftg.	1194	
Total Hr. Run	26	
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD			
Time	1:00	3:30	7:00
Weight	9.1	9.4	9.5
Visc.-Sec.	42	42	50
W.L.-C.C.			
FL TR. CK.			
PH	8.5	11.5	10.0
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Caustic	50#		
Salt Gel	500#		
Gel	500#		

Driller: Henry Erwin

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SCL-S Par'el-P Com'd-C
1520	1700	180	D			90	20000	1100	5	90	5		
						85	13000	700	5	56			
								450		42			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	1614	2°		1644	1 1/2°				

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	1/4						Rig service + B.O.P ✓
12:15	1:45	1 1/2						Drill
1:45	3:00	1 1/4						Replace ring in shock hose
3:00	3:15	1/4						Drill
3:15	3:30	1/4						Survey
3:30	5:00	1 1/2						Drill
5:00	5:15	1/4						Survey
5:15	9:00	3 3/4						Drill Fuel 1'11"

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
18	Stands D.P.	1125.61	Ft.
1	Singles D.P.	1156.92	Ft.
	D.C. I.D. O.D.		Ft.
18	D.C. I.D. O.D.	536.76	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Sub B.O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	28.32	Ft.
	Total	1707	Ft.
Wt. of String	50,000		Lbs.
Pipe in Hole	37		Jts.
Pipe on Racks	84		Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD		
Bit No.	1	2
Size	7 7/8	7 7/8
Mfg.	SEC	Smith
Type	S44	3J5-G
Nozzle No.	1 2	2 1
Nozzle Size	10 11	10 11
Ser. No.	913650	MC4554
Depth Out	1707	
Depth In	506	1707
Total Ftg.	1201	
Total Hr. Run	26 1/4	
Cond. of Bit	541	
Reamer No.		
Reamer Type		

Water Charges Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD		
Time	9:00	
Weight	9.5	
Visc.-Sec.	43	
W.L.-C.C.	7.4	
FL TR. CK.	2/32	
PH	10.0	
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Ross Collinge

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SCL-S Par'el-P Com'd-C
1700	1707	7	D			90	20	700	5"	56			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	1700	1 1/2°							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:05	1/4						Rig Ser + Bops Motor Shut off
8:15	8:30	1/4						Drill
8:30	8:45	1/4						Drop Survey
8:45	10:45	2						Hoist For Bit + Run D.C. In
10:45	12:15	1 1/2						Cut + Slipped Line
12:15								Pick up 6 DC + Run Hole Lay Down 6 DC
	2:30	2 1/4						Ream Bridge at 1555 To 1600
2:30	4:00	1 1/2						Conservation Inspection
								Rig Inspected By G. Wood
								Conservation Engineer

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
21	Stands D.P.	1311.53	Ft.
	Singles D.P.		Ft.
	D.C. I.D. O.D.		Ft.
18	D.C. I.D. O.D.	536.76	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Sub B.O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	36.71	Ft.
	Total	1890.00	Ft.
Wt. of String	52.000		Lbs.
Pipe in Hole	42		Jts.
Pipe on Racks	79		Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD		
Bit No.	2	
Size	7 7/8	
Mfg.	Smith	
Type	3J5-G	
Nozzle No.	2 1	
Nozzle Size	10 11	
Ser. No.	MC689	
Depth Out		
Depth In	1707	
Total Ftg.		
Total Hr. Run	7	
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD		
Time	6:00	10:00
Weight	9.5	9.5
Visc.-Sec.	47	48
W.L.-C.C.	7.2	8.4
FL TR. CK.	2/32	2/32
PH	9.5	9.5
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gell	500#		
Salt Gel	500#		

Driller:

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SCL-S Par'el-P Com'd-C
1707	1890	183	D			48	28	800	5	58			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	1/4						Rig Ser. + Bops.
4:15	4:30	1/4						Ream 30' Fill
4:30	4:45	1/4						Clean Flow Line
4:45	5:00	1/4						Drill
5:00	5:15	1/4						Clean Flow Line
5:15	12:00	6 3/4						Drill

№ 7556

GUTHRIE McLAREN Drilling Co.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Aguit Highland L1-23
Location — Lsd. ... Sec. 23 (62-40-122-15) Twp. ... Rge. ... W. ... M.
Date: March 8 1973

Weather Condition: Cold | Road Conditions: Poor | Nearest Town: Fc. Simpson | Water - Source: L.R. | Miles Hauled: 12 | Pumped: | Camp Distance from Rig: 200 yd | Reason for Extra L. Plant: Camp

OPERATOR: Aquitaine

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: H Barton

Rig No.	Drill Pipe String No.	Drill Pipe String Size	Tool Joint	Type Thd.
4 DWKS U-34	2	4½	5¾ O.D.	F.H.

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Nat	C-250	15
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	8⅝		24# K-55	12	506		506	

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	5¼	7	7
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig	¼	¼	¼
Deviation Survey	¾	¼	½
Test B.O.P.			
Cut Off Drilling Line			
Unplug - Flow line	¼	½	
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Work on Pump			¼
Mix mud	2½		
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	8

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
7	Stands D.P.	439.00	Ft.
1	Singles D.P.	31.51	Ft.
	D.C. I.D. O.D.		Ft.
12	D.C. 2⅞ 6¼ I.D. O.D.	350.15	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Subs Bit O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	40.40	Ft.
	Total	866.00	Ft.
Wt. of String		34,000	Lbs.
Pipe in Hole		15	Jts.
Pipe on Racks		106	Jts.
Total Pipe on Lease		121	Jts.

BIT RECORD

Bit No.	1
Size	7⅞
Mfg.	Sec
Type	S44
Nozzle No.	1 2
Nozzle Size	10 11
Ser. No.	913650
Depth Out	
Depth In	506
Total Ftg.	360
Total Hr. Run	6
Cond. of Bit	
Reamer No.	
Reamer Type	

Water Charges — Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD

Time	1:00	4:00	7:00
Weight	8.7	8.6	8.7
Visc.-Sec.	37	32	37
W.L.-C.C.			
FL TR. CK.			
PH	11.5	11.5	
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	3000#		

Driller: Henry Erasmus

From	To	Fтge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
614	Stale	252	D			70	1500	1100	5	55			
~~709~~						85	17000	700	5	65			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	614	½°		709	½°		803'	½°	

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	12:15	¼						Rig Service + Check B.O.P.
12:15	12:30	¼						Survey
12:30	2:00	1½						Drill Fuel 2"6"
2:00	2:15	¼						Survey
2:15	4:00	1¾						Drill
4:00	4:15	¼						Survey
4:15	4:30	¼						Try to mix mud
4:30	4:45	¼						Drill
4:45	5:00	¼						Unplug flow line
5:00	5:15	¼						Drill
5:15	7:30	2¼						Mix Mud.
7:30	8:00	½						Drill

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
13	Stands D.P.		Ft.
1	Singles D.P.	845.09	Ft.
12	D.C. 2⅞ 6¼ I.D. O.D.	350.15	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Subs Bit O.D.	8.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	39.76	Ft.
	Total	1240	Ft.
Wt. of String		38,000	Lbs.
Pipe in Hole		27	Jts.
Pipe on Racks		94	Jts.
Total Pipe on Lease		121	Jts.

BIT RECORD

Bit No.	1
Size	7⅞
Mfg.	SEC
Type	S44
Nozzle No.	1 2
Nozzle Size	10 11
Ser. No.	913650
Depth Out	
Depth In	506
Total Ftg.	734
Total Hr. Run	13
Cond. of Bit	
Reamer No.	
Reamer Type	

Water Charges — Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD

Time	9:00	1:00	3:00
Weight	8.9	9.1	9.2
Visc.-Sec.	45	45	45
W.L.-C.C.			
FL TR. CK.			
PH	11.5	11.5	11.5
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Ross Collinge

From	To	Fтge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.F.M.	Method Run SGL-S Par'el-P Com'd-C
Stale	1240	374	D			90	20	850	5"	65			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	1020	¾							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Ser. + B.O.P. ✓
8:15	8:30	¼						Work on Floor Motors.
8:30	10:30	2						Drill.
10:30	10:45	¼						Work on Air Compressors
10:45	12:15	1½						Drill
12:15	12:30	¼						Survey
12:30	4:00	3½						Drill

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
18	Stands D.P.	1125.61	Ft.
1	Singles D.P.	31.31	Ft.
12	D.C. 2⅞ 6¼ I.D. O.D.	350.15	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	2.00	Ft.
1	Subs Bit O.D.	3.00	Ft.
	Bit or C.B.		Ft.
	Kelly Down	7.93	Ft.
	Total	1520.00	Ft.
Wt. of String		39,000	Lbs.
Pipe in Hole		36	Jts.
Pipe on Racks		85	Jts.
Total Pipe on Lease		121	Jts.

BIT RECORD

Bit No.	1
Size	7⅞
Mfg.	SEC
Type	S44
Nozzle No.	1 2
Nozzle Size	10 11
Ser. No.	913650
Depth Out	
Depth In	506
Total Ftg.	1014
Total Hr. Run	20
Cond. of Bit	
Reamer No.	
Reamer Type	

Water Charges — Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD

Time	6:00	9:00	11:00
Weight	9.2	9.5	9.2
Visc.-Sec.	45	38	44
W.L.-C.C.			
FL TR. CK.			
PH	11.5	11.5	11.5
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	1000#		

Driller

From	To	Fтge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
~~1100~~	~~1245~~					90	20	850	5"	63			
1240	1520	280	D					450		40			
								200		28			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	1200	1°		1398	¾°				

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼						Rig Ser. + Bops ✓.
4:15	4:30	¼						Survey
4:30	7:00	2½						Drill
7:00	7:15	¼						Work on Pump
7:15	9:00	1¾						Drill
9:00	9:15	¼						Survey
9:15	12:00	2¾						Drill

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No.	E 176
No. of Lines	8
Size	1/8
Feet Slipped	43
Feet Cut Off	43
Present Length	
Ton Mi. or Trips Since Last Cut	
Cumulative Ton Mi. or Trips	282.38
No. of Days From Spud	5
Cumulative Rotating Hrs.	

№ 7555

GUTHRIE McLAREN Drilling Co.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Aquit Highland "K" I.B.

Location — Lot. 1 Sec. 23 Twp. 62-40 Rge. -122-15 W. M.

Date: March 7, 1973

Weather Condition: Cold | Road Conditions: Poor | Nearest Town: Ft. Simpson | Water - Source: S.R. | Miles Hauled: 12 | Pumped: | Camp Distance from Rig: 200 yd. | Reason for Extra L. Plant: Camp

OPERATOR: Aquitaine

Rig No. 4 | DWKS U-34 | Drill Pipe Sering: No. 2, Size 4½ | Tool Joint: 5¾ O.D. | Type Thd. E.H.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Mucholland

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: H. Brayton

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Nat.	C250	15
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	8⅝		24# K55	12	506		506	

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			1¾
Reaming			
Conditioning Mud & Circulating			2¾
Trips		1	
Lubricate Rig	¼		¼
Deviation Survey			
Test B.O.P.			½
Cut Off Drilling Line			
Repair Rig			
Drill cement + shoe			2¾
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Nipple-up	7¾	7	8
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No. E 176

No. of Lines 8 Size 1 1/8

Feet Slipped 43

Feet Cut Off 43

Present Length

Ton Mi. or Trips Since Last Cut

Cumulative Ton Mi. or Trips 98738

No. of Days From Spud 4

Cumulative Rotating Hrs.

MORNING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR	
2	Stands D.P.	125.99 Ft.
	Singles D.P.	Ft.
	D.C. I.D. O.D.	Ft.
12	D.C. 2 7/8 6¼ I.D. O.D.	350.15 Ft.
	Stb. Body O.D.	Ft.
	Stb. Body O.D.	Ft.
	Rmr. Body O.D.	Ft.
3	Subs O.D.	6.02 Ft.
	Bit or C.B.	1.00 Ft.
	Kelly Down	22.84 Ft.
	Total	506.00 Ft.
Wt. of String	34,000 Lbs.	
Pipe in Hole	4 Jts.	
Pipe on Racks	117 Jts.	
Total Pipe on Lease	121 Jts.	

BIT RECORD: Bit No.; Size; Mfg.; Type; Nozzle No.; Nozzle Size; Ser. No.; Depth Out; Depth In; Total Ftg.; Total Hr. Run; Cond. of Bit; Reamer No.; Reamer Type

Water Charges — Reg. Hrs. O.T. Hrs.: Trucker; Trucker; Trucker

MUD RECORD: Time; Weight; Visc.-Sec.; W.L.-C.C.; FL TR. CK.; PH; SD. Cont. %; Pressure Gradient

Mud & Chemicals Added: Type, Amt., Type, Amt.

Driller

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
									5				

Deviation Record: Depth, Dev., Direction, Depth, Dev., Direction, Depth, Dev., Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼						Rig Service
12:15	2:00	1¾						Pick up B.O.P
2:00	8:00							Nipple-up
								Fuel 2' 11"

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	Stands D.P.	Ft.
	Singles D.P.	Ft.
	D.C. I.D. O.D.	Ft.
	D.C. I.D. O.D.	Ft.
	Stb. Body O.D.	Ft.
	Stb. Body O.D.	Ft.
	Rmr. Body O.D.	Ft.
	Subs O.D.	Ft.
	Bit or C.B.	Ft.
	Kelly Down	Ft.
	Total	Ft.
Wt. of String		Lbs.
Pipe in Hole		Jts.
Pipe on Racks		Jts.
Total Pipe on Lease	121	Jts.

BIT RECORD: Bit No. 1; Size 7⅞; Mfg. SEC; Type S44; Nozzle No. 1 2; Nozzle Size 10 11; Ser. No. 913650; Depth Out; Depth In 506; Total Ftg.; Total Hr. Run; Cond. of Bit; Reamer No.; Reamer Type

Water Charges — Reg. Hrs. O.T. Hrs.: Trucker; Trucker; Trucker

MUD RECORD: Time; Weight; Visc.-Sec.; W.L.-C.C.; FL TR. CK.; PH; SD. Cont. %; Pressure Gradient

Mud & Chemicals Added: Type, Amt., Type, Amt.

Driller: Bob Collings

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record: Depth, Dev., Direction, Depth, Dev., Direction, Depth, Dev., Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00								Nipple up
								PRESSURE UP BLIND RAMS 1000 lbs 15 min OK.
	3:00	7						MOTOR SHUT OFF O.K.
3:00	4:00	1						RUN IN HOLE, STRAP IN
								~~PRESSURE UP PIPE RAMS 1000 lbs 15 min~~
								~~PRESSURE UP HYDRO RAMS 1000 lbs 15 min~~

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
3	Stands D.P.	187.55 Ft.
1	Singles D.P.	31.56 Ft.
12	D.C. 2 7/8 6¼ I.D. O.D.	350.15 Ft.
	D.C. I.D. O.D.	Ft.
	Stb. Body O.D.	Ft.
	Stb. Body O.D.	Ft.
1	Rmr. Body O.D.	2.00 Ft.
1	Subs O.D.	3.00 Ft.
	Bit or C.B.	~~3.74~~ Ft.
	Kelly Down	39.74 Ft.
	Total	614.00 Ft.
Wt. of String		Lbs.
Pipe in Hole		Jts.
Pipe on Racks		Jts.
Total Pipe on Lease		Jts.

BIT RECORD: Bit No. 1; Size 7⅞; Mfg. SEC; Type S-44; Nozzle No. 1 2; Nozzle Size 10 11; Ser. No. 913650; Depth Out; Depth In 506; Total Ftg. 108; Total Hr. Run 1¾; Cond. of Bit; Reamer No.; Reamer Type

Water Charges — Reg. Hrs. O.T. Hrs.: Trucker; Trucker; Trucker

MUD RECORD: Time 10:00; Weight 8.7; Visc.-Sec. 37; W.L.-C.C.; FL TR. CK.; PH 11.5; SD. Cont. %; Pressure Gradient

Mud & Chemicals Added: Type, Amt., Type, Amt.; Gel 2000#; Bicarb 100#

Driller

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
506	614	108				50	5000	1000	5"	50			
						65	15000	1100	5"	55			

Deviation Record: Depth, Dev., Direction, Depth, Dev., Direction, Depth, Dev., Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼						Rig Serv & B.O.P. ✓
4:15	4:30	¼						PRESSURE UP PIPE RAMS 1000 lbs 15 min O.K.
4:30	4:45	¼						PRESSURE UP HYDRO 1000 lbs 15 min O.K.
4:45	7:30	2¾						DRILL out CEMENT & FLOAT COLLAR 434 FT.
7:30	8:00	½						DRILL
8:00	10:00	2						Rig up to mix mud with C-250
10:00	10:45	¾						Mix mud with C-250
10:45	12:00	1¼						Drill

№ 7554

GUTHRIE McLAREN Drilling Co. LTD.

DAILY DRILLING REPORT

I-23

Form 6

Lease / Well Name: AQUITT HIGHLAND LK. E3
Location: LAT. 62° 22' 45" LONG. 122° 19' 08" — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. ___ M.
Date: MARCH 6 1973

Weather Condition: COLD | Road Conditions: POOR | Nearest Town: FT SIMPSON | Miles Hauled: 12 | Water - Source: L.K. | Pumped: ___ | Camp Distance from Rig: 200 YDS | Reason for Extra L. Plant: CAMP

OPERATOR: AQUITAINE

Rig No.: 4 DWKS U-34

Drill Pipe String: No. 2, Size 4½

Tool Joint: 5¾ O.D. | Type Thd.: FH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Banyon

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C250	15"
2.			
3.			

LAST CASING TUBING OR LINER

Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	3/4		
Reaming			
Conditioning Mud & Circulating	1½		
Trips	3		
Lubricate Rig	1/4	1/4	
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig ~~Casing~~ Cut Csg & Weld Bowl			1
Wire Line Logging			
Running Casing ~~& Cementing~~	2½	2½	
Waiting on Cement		1	7
Drill Stem Test			
Other Rig to cement		4¼	
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	9	8

TIME SUMMARY (Office Use Only)

Day Work	
Hrs. W/DP	
Hrs. WO/DP	
Hrs. Standby	
Total Day Work	

WIRE LINE RECORD

Reel No.	E 176
No. of Lines	8 Size 1⅛
Feet Slipped	43
Feet Cut Off	43
Present Length	
Ton Mi. or Trips Since Last Cut	
Cumulative Ton Mi. or Trips	28238
No. of Days From Spud	3
Cumulative Rotating Hrs.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
2	Stands D.P.	125.99	Ft.
	Singles D.P.		Ft.
	D.C. I.D. O.D.		Ft.
12	D.C. 2 7/8 6¼ I.D. O.D.	350.15	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
3	Subs O.D.	6.02	Ft.
	Bit ~~or C.B.~~	1.00	Ft.
	Kelly Down	22.84	Ft.
	Total	506.00	Ft.

Wt. of String: 34,000 Lbs.
Pipe in Hole: 4 Jts.
Pipe on Racks: 117 Jts.
Total Pipe on Lease: 121 Jts.

BIT RECORD

Bit No.	2-S
Size	12¼
Mfg.	SMITH
Type	DGH-J
Nozzle No.	3
Nozzle Size	OPEN
Ser. No.	LN084
Depth Out	506
Depth In	0
Total Ftg.	506
Total Hr. Run	13¾
Cond. of Bit	
Reamer No.	
Reamer Type	

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker ___
Trucker ___
Trucker ___

MUD RECORD

Time	2:30	4:30
Weight		
Visc.-Sec.	70	95
W.L.-C.C.		
FL TR. CK.		
PH	10.0	11.0
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.
CAUSTIC	50	lbs.	

Driller: Allan Anger

FOOTAGE

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
491	506	15	D			150	15	350	7¼	65			

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	1/4						Rig Ser.
12:15	2:15	2						Run In Hole (Ream Spots)
2:15	3:00	3/4						Drlg
3:00	4:30	1½						Circ.
4:30	5:30	1						Pull Out Of Hole
5:30	8:00	2½						Rig Up To Run Surface Csing & Run

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
2	Stands D.P.	125.99	Ft.
	Singles D.P.		Ft.
	D.C. I.D. O.D.		Ft.
12	D.C. 2 7/8 6¼ I.D. O.D.	350.15	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
3	Subs O.D.	6.02	Ft.
	Bit ~~or C.B.~~	1.00	Ft.
	Kelly Down	22.84	Ft.
	Total	506.00	Ft.

Wt. of String: 34,000 Lbs.
Pipe in Hole: 4 Jts.
Pipe on Racks: 117 Jts.
Total Pipe on Lease: 121 Jts.

BIT RECORD

Bit No.	
Size	
Mfg.	
Type	
Nozzle No.	
Nozzle Size	
Ser. No.	
Depth Out	
Depth In	
Total Ftg.	
Total Hr. Run	
Cond. of Bit	
Reamer No.	
Reamer Type	

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker ___
Trucker ___
Trucker ___

MUD RECORD

Time		
Weight		
Visc.-Sec.		
W.L.-C.C.		
FL TR. CK.		
PH		
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Henry Brosin

FOOTAGE

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
									7¼				

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	1/4						Rig Ser.
8:15	8:45	1/2						Run Casing.
8:45	10:15	1½						Rig up to circulate + Circulate casing
10:15	11:00	1¾						Rig up to cement + Run cement 375 bags
11:00	2:30	3½						Rig up to cement from top.
2:30	3:00	½						Cement from top - 102 bags

RAN 12 JTS = 509.72' OF 8 5/8" - 24# - K-55 - 8RT - STC CASING SET AT 506' K.B. CEMENTED BY HALLIBURTON WITH 375 SACKS OILWELL CEMENT + 2% CaCl2*. NO CEMENT RETURNS. RE-CEMENTED FROM SURFACE FROM TOP OF CEMENT AT 75' WITH 102 SACKS OILWELL CEMENT + 3% CaCl2. APPROX ¼ bbl CEMENT RETURNS. * PLUG DOWN 11:00 AM. COMPLETE AT 7:45 PM.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	Stands D.P.		Ft.
	Singles D.P.		Ft.
	D.C. I.D. O.D.		Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
	Subs O.D.		Ft.
	Bit or C.B.		Ft.
	Kelly Down		Ft.
	Total		Ft.

Wt. of String: Lbs.
Pipe in Hole: Jts.
Pipe on Racks: Jts.
Total Pipe on Lease: Jts.

BIT RECORD

Bit No.	
Size	
Mfg.	
Type	
Nozzle No.	
Nozzle Size	
Ser. No.	
Depth Out	
Depth In	
Total Ftg.	
Total Hr. Run	
Cond. of Bit	
Reamer No.	
Reamer Type	

Water Charges: Reg. Hrs. O.T. Hrs.
Trucker ___
Trucker ___
Trucker ___

MUD RECORD

Time		
Weight		
Visc.-Sec.		
W.L.-C.C.		
FL TR. CK.		
PH		
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Ross Colling

FOOTAGE

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record: Depth | Dev. | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	11:00	7						W.O.C.
11:00	12:00	1						Cut Csg. + WELD on Csg. Bowl.

KODAK SAFETY FILM

№ 7553

GUTHRIE McLAREN Drilling Co.

DAILY DRILLING REPORT

Form 6

Lease Well Name: AQUIT HIGHLAND LK. IB I-23
Location — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. ___ M.
LAT. 62° 22' 45" LONG. 122° 19' 08"
Date: MAR. 5 19 23

Weather Condition: COLD | Road Conditions: POOR | Nearest Town: FT SIMPSON | Water - Source: LAKE | Miles Hauled: ___ | Pumped: ___ | Camp Distance from Rig: 200 YDS | Reason for Extra L. Plant: CAMP.

OPERATOR: AQUITAINE

Rig No.: 4 DWKS U-34

Drill Pipe String: No. 3 Size 4 1/2

Tool Joint: 5 3/4 O.D. Type Thd.: FH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: H. Barton

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C250	15
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	4 1/2	6 3/4	
Reaming			
Conditioning Mud & Circulating			
Trips		1/2	1/4
Lubricate Rig	1/4	1/4	1/4
Deviation Survey	3/4	1/2	
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig	1 1/4		1/4
Coring			
Wire Line Logging COLLAR STUCK	3/4		
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other WORK HOLE	1/2		
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No. E 716
No. of Lines 8 Size 1 1/8
Feet Slipped 43
Feet Cut Off 75
Present Length
Ton Mi. or Trips Since Last Cut 282.38
Cumulative Ton Mi. or Trips
No. of Days From Spud 2.
Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
	Singles D.P.		Ft.
8	D.C. I.D. O.D.	231.56	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
3	Subs O.D.	6.02	Ft.
	Bit ~~O.D.~~	1.00	Ft.
	Kelly Down	39.42	Ft.
	Total	278.00	Ft.

Wt. of String 30,000 Lbs.
Pipe in Hole 0 Jts.
Pipe on Racks 0 Jts.
Total Pipe on Lease 121 Jts.

BIT RECORD

Bit No.	2-5
Size	12 1/4
Mfg.	SMITH
Type	DGH-J
Nozzle No.	OPEN
Nozzle Size	
Ser. No.	LN084
Depth Out	IN
Depth In	0
Total Ftg.	278
Total Hr. Run	6 1/4
Cond. of Bit	
Reamer No.	
Reamer Type	

Water Charges Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD

Time	1:00	4:00	7:00
Weight	8.5	8.5	
Visc.-Sec.	70	50	70
W.L.-C.C.			
FL TR. CK.			
PH	11.0	11.0	11.5
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
SALT GEL	500	lbs	
CAUSTIC	50	lbs.	
LIME	25	lbs.	

Driller: Allan Cooper.

FOOTAGE

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
106	278	172	D			150	10	200	7 1/4	66			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	136	3/4°		193	1/2°		278	1/2°	

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	1/4						RIG SER.
12:15	1:00	3/4						CHANGE VALVE IN MUD MIXING SHACK.
1:00	1:30	1/2						WORK SHUFFENG SHALE
1:30	2:15	3/4						DRLG.
2:15	3:00	3/4						GET COLLAR UNSTUCK FROM MOUSEHOLE
3:00	3:15	1/4						SURVEY.
3:15	4:45	1 1/2						DRLG.
4:45	5:00	1/4						SURVEY. FUEL 4.10
5:00	6:15	1 1/4						DRLG
6:15	6:45	1/2						REPAIR. DRWKS CHAIN.
6:45	7:30	3/4						DRLG
7:30	7:45	1/4						SURVEY 7:40-8:00 DRLG.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
1	Stands D.P.		Ft.
1	Singles D.P.	94.42	Ft.
12	D.C. I.D. O.D.	350.15	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
3	Subs O.D.	6.02	Ft.
	Bit or ~~O.D.~~	1.00	Ft.
	Kelly Down	39.41	Ft.
	Total	491	Ft.

Wt. of String 32,000 Lbs.
Pipe in Hole 3 Jts.
Pipe on Racks 118 Jts.
Total Pipe on Lease 121 Jts.

BIT RECORD

Bit No.	2-5
Size	12 1/4
Mfg.	Smith
Type	DGH-J
Nozzle No.	OPEN
Nozzle Size	
Ser. No.	LN084
Depth Out	~~[illegible]~~
Depth In	0
Total Ftg.	491
Total Hr. Run	13
Cond. of Bit	
Reamer No.	
Reamer Type	

Water Charges Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD

Time	9:00	11:00
Weight	8.5	8.8
Visc.-Sec.	42	37
W.L.-C.C.		
FL TR. CK.		
PH		
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Henry Erasmus

FOOTAGE

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
278	491	213				150		250	7 1/4	62			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	1/4						Rig Service.
8:15	11:00	2 3/4						Drill
11:00	11:15	1/4						Survey
11:15	3:15	4						Drill
3:15	3:30	1/4						Drop Survey
3:30	4:00	1/2						Dummy Trip tight hole

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
1	Stands D.P.		Ft.
1	Singles D.P.	94.42	Ft.
12	D.C. I.D. O.D.	350.15	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
3	Subs O.D.	6.02	Ft.
	Bit or ~~O.D.~~	1.00	Ft.
	Kelly Down	39.41	Ft.
	Total	491	Ft.

Wt. of String 32,000 Lbs.
Pipe in Hole 3 Jts.
Pipe on Racks 118 Jts.
Total Pipe on Lease 121 Jts.

BIT RECORD

Bit No.	2-5
Size	12 1/4
Mfg.	SMITH
Type	DGH-J
Nozzle No.	OPEN
Nozzle Size	
Ser. No.	LN084
Depth Out	
Depth In	0
Total Ftg.	491
Total Hr. Run	13
Cond. of Bit	
Reamer No.	
Reamer Type	

Water Charges Reg. Hrs. O.T. Hrs.
Trucker
Trucker
Trucker

MUD RECORD

Time	6:00	9:00	11:00
Weight	~~[illegible]~~		
Visc.-Sec.	70	150	150
W.L.-C.C.			
FL TR. CK.			
PH			
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
GEL	2000		
CAUSTIC	50		

Driller: Ross Collinge

FOOTAGE

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
491	~~492~~							250	7 1/4	62			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	492	1/2							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	1/4						Rig SER.
4:15	4:30	1/4						WORK ON AIR COMPRESSOR
4:30	6:00	1 1/2						Dummy TRIP tight HOLE & STRAP OUT.
6:00	12:00	6						RUN IN HOLE BRIDGE AT 95 FT. & HOLE CAVING IN P

№ 7552

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT I-23

Form 6

Lease Well Name: Aquit Highland 2K. Date: MAR. 4 1973

Location: Lat. 62° 02' 45" Long 122° 19' 08" Sec. ___ Twp. ___ Rge. ___ W. M.

Weather Condition: FAIR. Road Conditions: POOR. Nearest Town: Ft Simpson. Water - Source: LAKE. Miles Hauled: 12. Pumped: —. Camp Distance from Rig: 3 MILES. Reason for Extra L. Plant: CAMP

OPERATOR: AQUITAINE

Rig No. 4 DWKS 4-34. Drill Pipe String: No. 2, Size 4 1/2. Tool Joint 5 3/4 O.D. Type Thd. FH.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	C250	15"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB to CSG. HD.	Set at	Remarks

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Test Down			
Drilling Actual			
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig			
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals			

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No. E 716

No. of Lines 8 Size 1 1/8

Feet Slipped 45

Feet Cut Off 75

Present Length

Ton Mi. or Trips Since Last Cure 272.51

Cumulative Ton Mi. or Trips

No. of Days From Spud 1

Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
	Singles D.P.		Ft.
1	D.C. I.D. O.D.	31.37	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
2.	Subs O.D.	4.90	Ft.
	Bit or C.B.		Ft.
	Kelly Down	39.73	Ft.
	Total	76.	Ft.
Wt. of String	18,000		Lbs.
Pipe in Hole	0		Jts.
Pipe on Racks	121		Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD		
Bit No.	1-S	
Size	7 7/8	
Mfg.	SEC	
Type	S44	
Nozzle No.	3	
Nozzle Size	9/16	
Ser. No.	913649	
Depth Out	IN	
Depth In	0	
Total Ftg.	76.	
Total Hr. Run	3/4	
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges — Reg. Hrs. O.T. Hrs.: Trucker ___ Trucker ___ Trucker ___

MUD RECORD			
Time	100	400	700
Weight	8.3.		
Visc.-Sec.	37		
W.L.-C.C.			
FL TR. CK.			
PH	12.0.		
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
HydroGel	1700	lbs	
LIME	50	lbs	

Driller: Allan Angus

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
0	76	76	D			150	5	425	7 1/4	65.			

Deviation Record: Depth 76, Dev. 1°. Direction. Depth. Dev. Direction. Depth. Dev. Direction.

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:30	1/2.						REPAIR VALVE ON CMNT PUMP
12:30	1:15	3/4						MIX MUD
1:15	2:00	3/4						SPUD & DRILL 7 7/8 HOLE LOSING CIRC FROM 50'
2:00	2:15	1/4						SURVEY
2:15	6:15	4						RAN OUT OF FUEL WAIT FOR TRUCK TO LIFT FUEL TAN
6:15	7:00	3/4.						WORK CMT PUMP. WOOD UNDER VALVES
7:00	8:00	1						WORK OUT MUD RING.

G.L. ELEVATION 1532.
KB to G.L. 12.8
KB ELEVATION 1545'

[signature] 1:15 AM March 4/73

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
	Singles D.P.		Ft.
2	D.C. I.D. O.D.	61.37	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
2	Subs O.D.	4.90	Ft.
	Bit or ~~C.B.~~		Ft.
	Kelly Down	39.73	Ft.
	Total	106.00	Ft.
Wt. of String	18.000		Lbs.
Pipe in Hole	—		Jts.
Pipe on Racks	121		Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD		
Bit No.	1-S	
Size	7 7/8	
Mfg.	Sec	
Type	S44	
Nozzle No.	3	
Nozzle Size	9/16	
Ser. No.	913649	
Depth Out	76	
Depth In	106	
Total Ftg.	30	
Total Hr. Run	2	
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges — Reg. Hrs. O.T. Hrs.: Trucker ___ Trucker ___ Trucker ___

MUD RECORD		
Time	9:00	11:00
Weight	8.4	8.4
Visc.-Sec.	40	60
W.L.-C.C.		
FL TR. CK.		
PH		
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	2500	#	
Sal-Gel	500	#	
Caustic	100	#	
Lime	100	#	

Driller: Henry Cowan

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
76	106	30				150	5	400	7 1/4	40			

Deviation Record: Depth 106, Dev. 1°. Direction. Depth. Dev. Direction. Depth. Dev. Direction.

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	1/4						Rig Service
8:15	10:15	2						Work Mud Ring + Condition Mud
10:15	11:00	3/4						Drill
11:00	1:30	2 1/2						Work Mud Ring + Condition Mud
1:30	2:00	1/2						Drill
2:00	4:00	2						Condition Mud + Work Sluffing shale

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
	Singles D.P.		Ft.
2	D.C. I.D. O.D.	61.37.	Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
3	Subs O.D.	6.02	Ft.
	Bit ~~or C.B.~~	1.00	Ft.
	Kelly Down	97.61	Ft.
	Total	106.00	Ft.
Wt. of String	18,000		Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease	121		Jts.

BIT RECORD		
Bit No.	2-S	
Size	12 1/4	
Mfg.	SMITH	
Type	DGH-J	
Nozzle No.	OPEN	
Nozzle Size		
Ser. No.	KN084	
Depth Out	IN	
Depth In	0	
Total Ftg.	106	
Total Hr. Run	2	
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges — Reg. Hrs. O.T. Hrs.: Trucker ___ Trucker ___ Trucker ___

MUD RECORD		
Time	6:00	11:00
Weight		
Visc.-Sec.		75.
W.L.-C.C.		
FL TR. CK.		
PH		
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.
SALT GEL	3000	lbs	

Driller: Allan Angus

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
0	106	106	R			150	N	200	7 1/4	66			

Deviation Record: Depth. Dev. Direction. Depth. Dev. Direction. Depth. Dev. Direction.

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	1/4						Rig Service
4:15	4:45	1/2						Work Sluffing Shale
4:45	5:15	1/2						Pull 7 7/8 bit
5:15	5:30	1/4						Change bits
5:30	6:00	1/2						Run in with 12 1/4 bit
6:00	8:00	2						Ream 7 7/8 hole
8:00	12:00	4						Work Sluffing Shale & Mix Mud. Can Make Connectio

№ 7551

GUTHRIE McLAREN Drilling Co.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: Aquitaine Highland LK I-23
Location — Lat. 62° 32' 45" Long. 122° 19' 08"
Sec. ___ Twp. ___ Rge. ___ W. ___ M.
Date: MAR. 3 1973

Weather Condition: Cold | Road Conditions: Poor. | Nearest Town: Fort Simpson | Water - Source: ___ Miles Hauled: 12 Pumped: ___ | Camp Distance from Rig: ___ Reason for Extra L. Plant: Camp.

OPERATOR: Aquitaine

Rig No. 4 | DWKS 4-34 | Drill Pipe String: No. 2 Size 4½ | Tool Joint 5¾ O.D. | Type Thd. F-H

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NOT	8750	15"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks

TIME DISTRIBUTION - HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig			
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals			

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No. E716
No. of Lines 8 Size 1⅛
Feet Slipped 43
Feet Cut Off 75
Present Length
Ton Mi. or Trips Since Last Cut 293.51
Cumulative Ton Mi. or Trips
No. of Days Prior to Spud
Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	Stands D.P.	Ft.	Bit No.		Time	
	Singles D.P.	Ft.	Size		Weight	
	D.C. I.D. O.D.	Ft.	Mfg.		Visc.-Sec.	
			Type		W.L.-C.C.	
	D.C. I.D. O.D.	Ft.	Nozzle No. / Size		FL TR. CK.	
					PH	
	Stb. Body O.D.	Ft.	Ser. No.		SD. Cont. %	
	Stb. Body O.D.	Ft.	Depth Out		Pressure Gradient	
	Rmr. Body O.D.	Ft.	Depth In			
	Subs O.D.	Ft.	Total Ftg.		Mud & Chemicals Added	
	Bit or C.B.	Ft.	Total Hr. Run		Type / Amt. / Type / Amt.	
	Kelly Down	Ft.	Cond. of Bit			
	Total	Ft.	Reamer No.			
Wt. of String		Lbs.	Reamer Type			
Pipe in Hole		Jts.	Water Charges Reg. Hrs. O.T. Hrs.			
Pipe on Racks		Jts.	Trucker			
Total Pipe on Lease		Jts.	Trucker		Driller: Allan Anger	

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
								Rig Up.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	Stands D.P.	Ft.	Bit No.		Time	
	Singles D.P.	Ft.	Size		Weight	
	D.C. I.D. O.D.	Ft.	Mfg.		Visc.-Sec.	
			Type		W.L.-C.C.	
	D.C. I.D. O.D.	Ft.	Nozzle No. / Size		FL TR. CK.	
					PH	
	Stb. Body O.D.	Ft.	Ser. No.		SD. Cont. %	
	Stb. Body O.D.	Ft.	Depth Out		Pressure Gradient	
	Rmr. Body O.D.	Ft.	Depth In			
	Subs O.D.	Ft.	Total Ftg.		Mud & Chemicals Added	
	Bit or C.B.	Ft.	Total Hr. Run		Type / Amt. / Type / Amt.	
	Kelly Down	Ft.	Cond. of Bit			
	Total	Ft.	Reamer No.			
Wt. of String		Lbs.	Reamer Type			
Pipe in Hole		Jts.	Water Charges Reg. Hrs. O.T. Hrs.			
Pipe on Racks		Jts.	Trucker			
Total Pipe on Lease		Jts.	Trucker		Driller: Henry Erasmus	

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
								Rig up.

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	Stands D.P.	Ft.	Bit No.	#1	Time	
	Singles D.P.	Ft.	Size	7⅞	Weight	
	D.C. I.D. O.D.	Ft.	Mfg.	SEC.	Visc.-Sec.	
			Type	S44	W.L.-C.C.	
	D.C. I.D. O.D.	Ft.	Nozzle No. / Size	3 / 9/16	FL TR. CK.	
					PH	
	Stb. Body O.D.	Ft.	Ser. No.	913649	SD. Cont. %	
	Stb. Body O.D.	Ft.	Depth Out		Pressure Gradient	
	Rmr. Body O.D.	Ft.	Depth In	0		
	Subs O.D.	Ft.	Total Ftg.		Mud & Chemicals Added	
	Bit or C.B.	Ft.	Total Hr. Run		Type / Amt. / Type / Amt.	
	Kelly Down	Ft.	Cond. of Bit		~~Gelt~~	
	Total	Ft.	Reamer No.		~~Caustic~~	
Wt. of String		Lbs.	Reamer Type			
Pipe in Hole		Jts.	Water Charges Reg. Hrs. O.T. Hrs.			
Pipe on Racks		Jts.	Trucker			
Total Pipe on Lease	121	Jts.	Trucker		Driller: Ross Collings	

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
0									74				

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	8:00	4						Rig UP
8:00	9:30	1½						DRILL RAT HOLE, ~~WAIT ON WATER~~
9:30	11:30	2						WAIT ON WATER
11:30	12:00	½						DRILL RAT HOLE + MOUSE HOLE

№ 7550

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: Aquitaine Hightland L.E. 2
Location — Lsd. ..... Sec. ..... Twp. ..... Rge. ..... W. ..... M.: N 60° 32' 44.66" W 122° 19' 8"
Date: March 2 1973

Weather Condition: Cold
Road Conditions: Rough
Nearest Town: Ft. Simpson
Water - Source ..... Miles Hauled ..... Pumped .....
Camp Distance from Rig .....
Reason for Extra L. Plant: Camp

OPERATOR: Aquitaine

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

Rig No.	Drill Pipe String No.	Drill Pipe String Size	Tool Joint O.D. Type Thd.
4 DWKS 14-34			

PUMPS No.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig			
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Tests			
Other			
Fishing			
COMPLETION WORK A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals			

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No.

No. of Lines ..... Size

Feet Slipped

Feet Cut Off

Present Length

Ton Mi. or Trips Since Last Core

Cumulative Ton Mi. or Trips

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
	Singles D.P.		Ft.
	D.C. I.D. O.D.		Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
	Subs O.D.		Ft.
	Bit or C.B.		Ft.
	Kelly Down		Ft.
	Total		Ft.
	Wt. of String		Lbs.
	Pipe in Hole		Jts.
	Pipe on Racks		Jts.
	Total Pipe on Lease		Jts.

BIT RECORD		
Bit No.		
Size		
Mfg.		
Type		
Nozzle No.		
Nozzle Size		
Ser. No.		
Depth Out		
Depth In		
Total Ftg.		
Total Hr. Run		
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges — Reg. Hrs. — O.T. Hrs.
Trucker .....
Trucker .....
Trucker .....

MUD RECORD			
Time			
Weight			
Visc.-Sec.			
W.L.-C.C.			
FL TR. CK.			
PH			
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Allan Cryer

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
								Tear Out + Move + Rig U.P.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
	Singles D.P.		Ft.
	D.C. I.D. O.D.		Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
	Subs O.D.		Ft.
	Bit or C.B.		Ft.
	Kelly Down		Ft.
	Total		Ft.
	Wt. of String		Lbs.
	Pipe in Hole		Jts.
	Pipe on Racks		Jts.
	Total Pipe on Lease		Jts.

BIT RECORD		
Bit No.		
Size		
Mfg.		
Type		
Nozzle No.		
Nozzle Size		
Ser. No.		
Depth Out		
Depth In		
Total Ftg.		
Total Hr. Run		
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges — Reg. Hrs. — O.T. Hrs.
Trucker .....
Trucker .....
Trucker .....

MUD RECORD			
Time			
Weight			
Visc.-Sec.			
W.L.-C.C.			
FL TR. CK.			
PH			
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Henry Lorsini

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
								Tear Out + Move + Rig Up

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
	Singles D.P.		Ft.
	D.C. I.D. O.D.		Ft.
	D.C. I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
	Subs O.D.		Ft.
	Bit or C.B.		Ft.
	Kelly Down		Ft.
	Total		Ft.
	Wt. of String		Lbs.
	Pipe in Hole		Jts.
	Pipe on Racks		Jts.
	Total Pipe on Lease		Jts.

BIT RECORD		
Bit No.		
Size		
Mfg.		
Type		
Nozzle No.		
Nozzle Size		
Ser. No.		
Depth Out		
Depth In		
Total Ftg.		
Total Hr. Run		
Cond. of Bit		
Reamer No.		
Reamer Type		

Water Charges — Reg. Hrs. — O.T. Hrs.
Trucker .....
Trucker .....
Trucker .....

MUD RECORD			
Time			
Weight			
Visc.-Sec.			
W.L.-C.C.			
FL TR. CK.			
PH			
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Ross Collings

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
								Tear out + Move + Rig up

№ 7550

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Aquit Highland L.E.-B
Location — Lsd. ..... Sec. ..... Twp. ..... Rge. ..... W. ..... M.: N62 32' 44.66 W122 19' 8"
Date: MARCH 2 1973

Weather Condition: Cold | Road Conditions: Rough | Nearest Town: Ft. Simpson | Water - Source ..... Miles Hauled ..... Pumped ..... | Camp Distance from Rig ..... Reason for Extra L. Plant: Camp

OPERATOR: Aquitaine

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Mitchelland

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Bayden

Rig No.: 4 DWKS 11-34

Drill Pipe String No.	Size	Tool Joint Type Thd.	O.D.

PUMPS

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

LAST CASING TUBING OR LINER

Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig			
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals			

TIME SUMMARY (Office Use Only)

Day Work			
Hrs. W/DP			
Hrs. WO/DP			
Hrs. Standby			
Total Day Work			

WIRE LINE RECORD

Reel No.

No. of Lines ..... Size

Feet Slipped

Feet Cut Off

Present Length

Ton Mi. or Trips Since Last Cut

Cumulative Ton Mi. or Trips

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD			
	Stands D.P.	Ft.	Bit No.		Time			
	Singles D.P.	Ft.	Size		Weight			
	D.C. I.D. O.D.	Ft.	Mfg.		Visc.-Sec.			
			Type		W.L.-C.C.			
	D.C. I.D. O.D.	Ft.	Nozzle No. / Size		FL TR. CK.			
					PH			
	Stb. Body O.D.	Ft.	Ser. No.		SD. Cont. %			
	Stb. Body O.D.	Ft.	Depth Out		Pressure Gradient			
	Rmr. Body O.D.	Ft.	Depth In					
	Subs O.D.	Ft.	Total Ftg.		Mud & Chemicals Added			
	Bit or C.B.	Ft.	Total Hr. Run		Type	Amt.	Type	Amt.
	Kelly Down	Ft.	Cond. of Bit					
	Total	Ft.	Reamer No.					
Wt. of String		Lbs.	Reamer Type					
Pipe in Hole		Jts.	Water Charges	Reg. Hrs.	O.T. Hrs.			
Pipe on Racks		Jts.	Trucker					
Total Pipe on Lease		Jts.	Trucker					
			Trucker					

Driller: Allan Anger

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
								Tear Out + Move + Rig Up.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD			
	Stands D.P.	Ft.	Bit No.		Time			
	Singles D.P.	Ft.	Size		Weight			
	D.C. I.D. O.D.	Ft.	Mfg.		Visc.-Sec.			
			Type		W.L.-C.C.			
	D.C. I.D. O.D.	Ft.	Nozzle No. / Size		FL TR. CK.			
					PH			
	Stb. Body O.D.	Ft.	Ser. No.		SD. Cont. %			
	Stb. Body O.D.	Ft.	Depth Out		Pressure Gradient			
	Rmr. Body O.D.	Ft.	Depth In					
	Subs O.D.	Ft.	Total Ftg.		Mud & Chemicals Added			
	Bit or C.B.	Ft.	Total Hr. Run		Type	Amt.	Type	Amt.
	Kelly Down	Ft.	Cond. of Bit					
	Total	Ft.	Reamer No.					
Wt. of String		Lbs.	Reamer Type					
Pipe in Hole		Jts.	Water Charges	Reg. Hrs.	O.T. Hrs.			
Pipe on Racks		Jts.	Trucker					
Total Pipe on Lease		Jts.	Trucker					
			Trucker					

Driller: Henry Bossini

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
								Tear Out + Move + Rig Up

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD			
	Stands D.P.	Ft.	Bit No.		Time			
	Singles D.P.	Ft.	Size		Weight			
	D.C. I.D. O.D.	Ft.	Mfg.		Visc.-Sec.			
			Type		W.L.-C.C.			
	D.C. I.D. O.D.	Ft.	Nozzle No. / Size		FL TR. CK.			
					PH			
	Stb. Body O.D.	Ft.	Ser. No.		SD. Cont. %			
	Stb. Body O.D.	Ft.	Depth Out		Pressure Gradient			
	Rmr. Body O.D.	Ft.	Depth In					
	Subs O.D.	Ft.	Total Ftg.		Mud & Chemicals Added			
	Bit or C.B.	Ft.	Total Hr. Run		Type	Amt.	Type	Amt.
	Kelly Down	Ft.	Cond. of Bit					
	Total	Ft.	Reamer No.					
Wt. of String		Lbs.	Reamer Type					
Pipe in Hole		Jts.	Water Charges	Reg. Hrs.	O.T. Hrs.			
Pipe on Racks		Jts.	Trucker					
Total Pipe on Lease		Jts.	Trucker					
			Trucker					

Driller: Ross Collings

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
								Tear out + Move + Rig up