Indian and Northern Affairs — Affaires indiennes et du Nord

Well Name / Nom du puits: Texaco Mobil Bouie Lake M-78

Field/Area / Gisement/Région:

Location / Emplacement — Unit / Unité: M- Section: 78

Drilling Authority No. / Autorisation de forage n°: 948

Date Issued / Date d'émission: 79-12-12

Permit or Lease: 00959-71

Latitude: 60° 17' 52.5" N Longitude: 122° 59' 45.9" W

U.W.C.R. / N.R.U.E.P.: 60.29792° N - 122.99608° W

U.W.I. No. / N.I.P. No.: 300M786020122450

Film Microfilmed:

Tour Sheets, Microfilmed:

Rig Release Date / Date de transfert de la tour de forage: 80-03-28

Status / Statut: D & A

Information Release Date / Date de publication autorisée des informations: 82-03-28

CHANGE OF NAME / CHANGEMENT DE NOM:

Change of Location / Changement de emplacement:

INDEX	DATE RECEIVED / REÇU LE	INDEX
Application for a Drilling Authority	✓	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 Wells		Données de calcul de la capacité de production d'un puits de gaz naturel — Méthode de Vitter
M.P.R. — Oil — Calculations		Calcul du T.M.P. (Taux maximal de production) de pétrole
New Oil Well Report		Rapport sur un nouveau puits de pétrole
New Gas Well Report		Rapport sur un nouveau puits de gaz naturel
Well Inspection Report		Rapport d'inspection de l'emplacement d'un puits
Rig Inspection Report		Rapport d'inspection d'une tour de forage
Battery Inspection Report		Rapport d'inspection d'une batterie de puits
Equipment Report		Rapport d'inspection des compteurs
Well Card		Fiche de puits
New Service Well Report		Rapport sur un nouveau puits de service
Strat Service Logs		Rapport mensuel des injections d'eau
Logs — Large scale		Diagrammes: Grande échelle
Logs — Small scale		Diagrammes: Petite échelle

DATE RECEIVED
RECU LE

LOGS: DIAGRAMMES

NAME Nom	Type	Run No. N° du sondage	Interval Intervalle

ANALYSES:

Sample Échantillon	Lab. No. Lab. n°	Formation	Interval Intervalle

A.O.F. Potential Débit maximal absolu d'un puits	Formation	Interval Intervalle	MC.F/D. M.P.C./jour	Test Date Date du test

DRILL STEM TESTS: — ESSAIS AUX TIGES

No. N°	Formation	Interval Intervalle

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

DRILLING AUTHORITY N° / N° DE L'AUTORISATION DE FORAGE: 948

APPLICATION TO ABANDON A WELL [redacted]

DEMANDE D'ABANDON D'UN PUITS OU DE SUSPENSION DU FORAGE

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

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

NAME & N° OF WELL: TEXACO MOBIL BOVIE LAKE M-78

LOCATION: UNIT / EMPLACEMENT: UNITÉ	SECTION	GRID - ÉTENDUE QUADRILLÉE	LATITUDE	LONGTITUDE
M	78	60-20-122-45	60° 17' 52.5"N	122° 59' 45.9"W

UNIVERSAL WELL LOCATION REFERENCE - RÉFÉRENCE UNIVERSELLES D'EMPLACEMENT DU PUITS: 60.29792°N 122.99608°W

UNIQUE WELL IDENTIFIER N° - CODE D'ORDINATEUR: 300M786020122450

PERMIT N° - N° DE PERMIS	LEASE N° - N° DE CONCESSION	EXPLORATION AGREEMENT N° - N° D'ACCORD D'EXPLORATION	DATE OF COMMENCEMENT OF PROPOSED PROGRAM / DATE - DÉBUT D'EXÉCUTION DU PROGRAMME PROJETÉ
-	959-71	-	1980-03-27

HOLDER - TITULAIRE: TEXACO - 50%, MOBIL - 50%

OIL, GAS & WATER ENCOUNTERED (DEPTH) - PÉTROLE, GAZ ET EAU (PROFONDEUR)

OIL AT - PÉTROLE A	GAS AT - GAZ A	WATER AT - EAU A
-	-	-

TOTAL DEPTH - PROFONDEUR GLOBALE	DATE OF LAST OPERATIONS - DATE DES DERNIERS TRAVAUX	PRESENT CONDITION OF WELL - ÉTAT ACTUEL DU PUITS
3083 m KB	1980-03-28	DRY HOLE

CASING RECORD - TUBAGE

	CASING SIZE O.D (mm) - DIAMÈTRE EXTÉRIEUR (mm)	MASS - MASSE	AMOUNT - LONGUEUR	SET AT - FIXATION A	MASS OF CEMENT & ADDITIVES - MASSE DE CIMENT ET D'ADDITIFS	AMOUNT PULLED - LONGUEUR RÉCUPÉRÉE
1	508 mm	140.0 kg/m	21.94 m	29.59 m KB	5.4 Tonnes, Normal w/2% $CaCl_2$	-
2	340 mm	81.1 kg/m	392.22 m	399.87 m KB	38.3 Tonnes, Normal 12.5 Tonnes, w/2% $CaCl_2$	-
3	245 mm	595 kg/m MN80 105.76 m 595 kg/m K55 412.83 m ~~536 kg/m K55 1037.76 m~~	1564 m KB		13.6 Tonnes, 1:1 POZ 2% Gel, .5% CFR-2	-
4						
5						

PROPOSED ABANDONMENT PROGRAM - PROGRAMME D'ABANDON PROJETÉ

PLUG - BOUCHON N°	PLUG - BOUCHON POSITION - PROFONDEUR	GEOLOGICAL FORMATION - FORMATION GÉOLOGIQUE	MASS OF CEMENT - MASSE DE CIMENT	REMARKS - REMARQUES
1	3082 - 2952 m KB	Stone	3 Tonnes, 2:1 POZ, 8% Gel, .5% HR7	
2	1st Stage 1860 - 1705 m KB	Kotcho	6 Tonnes, 1:1 POZ, 2% Gel, .3% HR 4	
	2nd Stage 1705 - 1545 m KB	Kotcho - Besa River	6 Tonnes, 1:1 POZ 2% Gel, .3% HR4	
3	Surface		10 m Normal Plug	

THE FOLLOWING LOGS HAVE BEEN RUN - LES DIAGRAMMES SUIVANTS ONT ÉTÉ TRACÉS:
GR-BHCS-CAL, GR-SP-DLL, GR-CNL-FDC-CAL, GR-ML, DIPMETER, CYBERLOOK

OTHER OPERATIONS PROPOSED - AUTRES TRAVAUX PROJETÉS:
NONE

OPERATIONS TO BE CARRIED OUT BY - LES TRAVAUX SERONT EXÉCUTÉS PAR:
TEXACO CANADA RESOURCES LTD.

ADDRESS - ADRESSE:
10130 - 112 STREET, EDMONTON, ALBERTA T5K 2K4

RESPONSIBLE AGENT IN FIELD - AGENT EXTÉRIEUR RESPONSABLE	ADDRESS - ADRESSE	DATED AT - FAIT A	DATE
			1980-04-11

SIGNATURE	TITLE - TITRE	COMPANY - SOCIÉTÉ
D W Chuchla	DISTRICT ENGINEER	TEXACO CANADA RESOURCES LTD.

NOTE: The District Conservation Engineer's office must be notified before work is commenced. NOTA: Aviser le bureau de l'ingénieur en conservation du district avant de commencer les travaux

APPROVAL (FOR BRANCH USE ONLY)

This application has been examined & proposed program approved, subject to the following conditions:

APPROBATION (À L'USAGE DE LA DIRECTION)

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

Original

DISTRICT CONSERVATION ENGINEER / INGÉNIEUR EN CONSERVATION DU DISTRICT: K. D. Thomas

DATE: 16 Sep 80

SUBMIT IN TRIPLICATE TO DISTRICT CONSERVATION ENGINEER, DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT.

PRÉSENTER EN TRIPLE EXEMPLAIRES À L'INGÉNIEUR EN CONSERVATION DU DISTRICT, MINISTÈRE DES AFFAIRES INDIENNES ET DU NORD CANADIEN.

IAND 52-90-5 (10-78)

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

NORTHERN NON-RENEWABLE RESOURCES BRANCH

DIRECTION DES RESSOURCES NON-RENOUVELABLES DU NORD

Drilling Authority No - N° de l'autorisation de forage	948
Date Issued - Date de délivrance	Dec. 12/79

APPLICATION TO AMEND A DRILLING AUTHORITY

This application, in triplicate, must be submitted and approved before commencing operations. If the well location is changed, this application must be accompanied where required, with a plan of survey approved by the Surveyor General.

In compliance with the "Canada Oil and Gas Regulations" application is hereby made to amend

DEMANDE DE MODIFICATION D'UNE AUTORISATION DE FORAGE

Cette demande doit être présentée en trois exemplaires et approuvée avant le début des travaux. Si l'emplacement du puits est modifié, la demande doit être accompagnée, au besoin, d'un plan d'arpentage approuvé par l'Arpenteur général du Canada.

Conformément au Règlement sur les terres pétrolières et gazéifères du Canada, nous demandons l'autorisation de modifier

Drilling Authority No. - L'autorisation de forage n° 948

Name and number of well - Nom et n° du puits TEXACO MOBIL BOVIE LAKE M-78

PROPOSED AMENDMENT(S):
MODIFICATION(S) PROPOSÉE(S):

That the T.D. of the subject well be deepened.

From: 3018 m To: 3083 m

REASONS FOR THE AMENDMENTS:
MOTIFS DES MODIFICATIONS:

The prospective intervals are lower than originally forecast.

Signed by - Signé par J.W. Schuster

Title - Titre DISTRICT ENGINEER

Company - Société TEXACO CANADA RESOURCES LTD.

Date 1980-04-11

FOR BRANCH USE ONLY - À L'USAGE DE LA DIRECTION

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

Demande étudiée et approuvée, sous réserve des conditions suivantes:

Date 16 Sep 80

Regional District Conservation Engineer - Ingénieur en conservation du district

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

Adresser vos demandes à l'ingénieur en conservation du district, Ministère des Affaires indiennes et du Nord canadien.

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

DRILLING AUTHORITY N° / N° DE L'AUTORISATION DE FORAGE	DATE ISSUED - DATE DE DÉLIVRANCE
948	Dec. 12/79

WELL COMPLETION DATA

To be submitted in duplicate within thirty days after the completion, rework, abandonment, recompletion or suspension of every well.

RENSEIGNEMENTS SUR LES FORAGES

À présenter en double dans les trente jours suivant l'achèvement, la reprise, l'abandon, la remise en production et le reconditionnement de chaque puits ou après la suspension.

WELL NAME & N° - NOM ET N° DU PUITS	PERMIT N° - N° DE PERMIS	LEASE N° - N° DE CONCESSION
TEXACO MOBIL BOVIE LAKE M-78	–	959-71

HOLDER - TITULAIRE	EXPLORATION AGREEMENT N° - N° D'ACCORD D'EXPLORATION
TEXACO - 50%, MOBIL - 50%	–

OPERATOR - EXÉCUTANT	PRODUCTION LICENCE N° - N° DE LICENCE DU PRODUCTEUR
TEXACO	–

LOCATION/SURFACE - EMPLACEMENT/SURFACE

UNIT - UNITÉ	SECTION	GRID - ÉTENDUE QUADRILLÉE	LATITUDE	LONGTITUDE
M	78	60-20-122-45	60° 17' 52.5"N	122° 59' 45.9"W

UNIQUE WELL IDENTIFIER - CODE D'ORDINATEUR	UNIVERSAL WELL LOCATION - RÉFÉRENCES UNIVERSELLES D'EMPLACEMENT DU PUITS
300M786020122450	60.29792°N 122.99608°W

LOCATION/BOTTOM HOLE OR PRODUCING HORIZON - EMPLACEMENT/FONDU DU SONDAGE OU HORIZON PRODUCTIF

UNIT - UNITÉ	SECTION	GRID - ÉTENDUE QUADRILLÉE	LATITUDE	LONGITUDE
M	78	60-20-122-45	60° 17' 52.5"N	122° 59' 45.9"W

UNIQUE WELL IDENTIFIER - CODE D'ORDINATEUR	UNIVERSAL WELL LOCATION - RÉFÉRENCES UNIVERSELLES D'EMPLACEMENT DU PUITS
300M786020122450	60.29792°N 122.99608°W

	DATE	DEPTH - PROFONDEUR	TRUE VERTICAL DEPTH / VÉRITABLE PROFONDEUR VERTICALE
SPUDDED / DÉBUT DES TRAVAUX	1980-01-20		
SUSPENDED / SUSPENSION DES TRAVAUX	–		
RESUMED OPERATIONS / REPRISE DES TRAVAUX	–		
FINISHED DRILLING / FORAGE TERMINÉ	1980-03-20	3082 m KB	3082 m KB
DEEPENED / APPROFONDISSEMENT	1980-03-20	3082 m KB	3082 m KB
COMPLETED (GAS/OIL) / ACHÈVEMENT (GAZ/PÉTROLE)	–		
ABANDONED / ABANDON	1980-03-28	Surface	Surface
RIG RELEASED / FIN DES TRAVAUX	1980-03-28		

POOL(S) - GISEMENT(S): N/A

INTERVAL(S) OPEN TO PRODUCTION - INTERVALLE(S) DE PRODUCTION: N/A

ELEVATION: GR - ALTITUDE DE SOL	K.B. DU CARRÉ D'ENTRAÎNEMENT
389.47	397.58
WATER DEPTH - PROFONDEUR D'EAU	RIG N° - N° DE LA TOUR DE FORAGE
–	22E

DRILLING CONTRACTOR - ENTREPRENEUR EN FORAGE: Kenting

CASING RECORD - TUBAGE

	CASING SIZE (mm) - DIAMÈTRE (mm)	WALL THICKNESS (mm) - ÉPAISSEUR (mm)	GRADE - QUALITÉ	MASS - MASSE	AMOUNT - LONGUEUR	SET AT - FIXATION À	MASS OF CEMENT & ADDITIVES - MASSE DE CIMENT ET D'ADDITIFS
1	508 mm	11.13	H40	140.0 kg/m	21.94 m	29.59 m KB	5.4 Tonnes, Normal w/2% $CaCl_2$
2	340 mm	8.38	K55	81.1 kg/m	391.67 m	400.00 m KB	38.3 Tonnes, Normal w/12.5 Tonnes 2% $CaCl_2$
3	245 mm	10.03 10.03 8.94	MN80 K55 K55	59.5 kg/m 59.5 kg/m 53.6 kg/m	105.76 m 412.83 m 1037.76 m	1564 m KB	13.6 Tonnes, 1:1 POZ, 2% Gel, .5% CFR-2
4							
5							
6							

GEOLOGICAL TOPS / SOMMET DES FORMATIONS	ELEVATION - PROFONDEUR: DEPTHS / SOUS LE NIVEAU DU SOL	SUB SEA / SOUS LE NIVEAU DE LA MER
Flett	441 m KB	43.4 m SS
Shunda-Pekisko	952 m KB	554.4 m SS
Upper Banff	1063 m KB	665.4 m SS
Lower Banff	1192 m KB	794.4 m SS
Exshaw	1539 m KB	1141.4 m SS
Besa River	1549 m KB	1151.4 m SS
Kotcho	1639 m KB	1241.4 m SS
Tetcho	1921 m KB	1523.4 m SS
Trout River	1933 m KB	1535.4 m SS
Jean Marie	2010.5 m KB	1612.9 m SS
Fort Simpson	2030 m KB	1632.4 m SS
Muskwa	2593 m KB	2195.4 m SS
Slave Point	2607.5 m KB	2209.9 m SS
Watt Mountain	2688.5 m KB	2290.9 m SS
Sulphur Point	2691 m KB	2293.4 m SS
Muskeg	2771 m KB	2373.4 m SS
Keg River	2800 m KB	2402.4 m SS
Stone	3011 m KB	2613.4 m SS

CORE RECORD - CAROTTES

FROM - DE	TO - A	REC. / REC.	FROM - DE	TO - A	REC. / REC.
2610 m KB	2628 m KB				

LOG RECORD - DIAGRAMMES

RUN / SÉRIE	TYPE OF LOG - GENRE DE DIAGRAMME	FROM - DE	TO - A
1	GR-BHCS-CAL	390 m KB	1559 m KB
1	GR-CNL-FDC-CAL	400 m KB	1559 m KB
1	GR-SP-DLL	400 m KB	1555 m KB
1	GR-ML	400 m KB	1560 m KB
1	CYBERLOOK	400 m KB	1559 m KB
2	DIPMETER	1560 m KB	3083 m KB
2	GR-BHCS-CAL	1520 m KB	3081 m KB
2	GR-CNL-FDC-CAL	1520 m KB	3081 m KB
2	GR-DLL	1520 m KB	3068 m KB
2	GR-ML	1900 m KB	3082 m KB

DEPARTMENT OF INDIAN & NORTHERN AFFAIRS
Regional Conservation Engineer
APR 17 1980

IAND 52-90-2 (10-78) Northern Natural Resources & Environment Branch

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

Date	From - de	To - à	Remarks - Remarques
80-03-27	3082 m KB	2982 m KB	3 Tonnes, 2:1 POZ, 8% Gel .5% HR7, NO FEEL
80-03-28	1860 m KB	1705 m KB	6 Tonnes, 1:1 POZ, 2% Gel .3% HR4, Displ'd w/11.85 m^3
80-03-28	1705 m KB	1545 m KB	6 Tonnes, 1:1 POZ, 2% Gel .3% HR4, FELT T.O.C. @ 1528 m KB
80-03-28	Surface		10 m Normal Plug

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

Date	From - de	To - à	Remarks - Remarques
			NIL

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

Date	From - de	To - à	Remarks - Remarques
			NIL

DRILL STEM TEST - 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)	ISIBHP Pression de fond à la 1re obturation	FSIBHP Pression de fond à l'obturation définitive	IFBHP Pression de fond au jaillissement	FFBHP Pression de fond à l'écoulement définitif	LHP Pression hydrostatique de début	FHP Pression hydrostatique définitif	Remarks - Remarques
1	80-03-22	Slave Point	2610 m KB	2653 m KB	30	60	-	14 321 kPa	9621 kPa	7215 kPa	6815 kPa	30 505 kPa	30 304 kPa	Lost ± 100 m Water Cushion
2	80-03-24	Kotcho	1778 m KB	1811 m KB	-	-	-	-	-	-	-	-	-	Misrun - Tool Plugged
3	80-03-25	Kotcho	1778 m KB	1811 m KB	30	30		1 077 kPa	898 kPa	1077 kPa	898 kPa	23 478 kPa	23 116 kPa	Strong initial puff, steady air blow, No gas to surface

ANALYSIS - ANALYSE

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

PRESENT STATUS OF WELL / ÉTAT ACTUEL DU PUITS

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

Company / Société: TEXACO CANADA RESOURCES LTD.

Signed by / Signé par: D W Christie

Title / Titre: DISTRICT ENGINEER

Date: 1980-04-11

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

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

IAND 52-90-2 (10-78)

Indian and Northern Affairs Affaires indiennes et du Nord

Drilling Authority No 948

NORTHERN NON-RENEWABLE RESOURCES BRANCH
DIRECTION DES RESSOURCES NON-RENOUVELABLES DU NORD

Date Issued 1979-12-13

APPLICATION FOR A DRILLING AUTHORITY
DEMANDE D'AUTORISATION DE FORAGE

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

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

Name and number of well Texaco Mobil Bovie Lake M-78

Location: Unit M Section 78 Grid 60-20-122-45

Latitude 60° 17' 52.5" N Longitude 122° 59' 45.9" W

Unique Well Identifier 300M786020122450

Universal Well Location Reference 60.29792°N 122.99608°W

Proposed Target Location (if different) —

Elevation: Ground 397 m K.B. 404 metres above sea-level.

Water Depth (for man-made islands, ice-islands and offshore wells) —

Well is expected to produce from Slave Point formation at a depth of about 2568 metres Expected total final depth 3018

Area assigned to well —

(for District Conservation Engineer's use only)

Exploration Agreement No — Production Licence No —

Permit No — Lease No P&NG Lease #959-71 Containing 2689 Hectares (6645 acres)

Permittee, licensee, or lessee Texaco, Mobil 50% each

Exploratory Licence No 2717

Surface Owned by Crown or Crown

(if alienated submit name and address of owner and occupant)

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

	Casing Size O.D. (mm)	Mass (kg/m)	Wall thickness (mm)	Grade	New or Used	Estimated Depth m TVD	Mass of Cement
1	508	140.0	11.13	H40	New	30	11.2 t (8.5 m^3)
2	340	81.1	8.38	K55	"	400	68.4 t (52 m^3)
3	245	53.6	8.94	K55	"	0-1089	13.3 t (19 m^3)
		59.5	10.03	K55	"	1089-1455	
4	178	59.5	10.03	MN80	"	1455-1555	
		38.7	9.19	MN80		0-103	
5		38.7	9.19	K55	"	103-2087	
		38.7	9.19	MN80	"	2087-2910	28.9 t (39 m^3)
		43.2	10.36	MN80	"	2910-3018	

Expected water, gas, and oil horizons and type of control equipment

Controls BOP's (13 5/8" 5000 psi) and 5000 psi manifold/super choke.

Well will be drilled with Rotary Rig No. 22E by Kenting Drilling (Drilling Contractor or company)

Spud - Jan. 10/80 Completion - March 31/80

Responsible agent of applicant: —

At well Earl B. Brown

Address 10130 - 112 St. Edmonton

Contractor's Business Licence No. 500

At registered office D.F. MacKinnon

Address Box 3333 Calgary

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

Dated at Calgary, this 7 day of December 1979

Signed by W.A. Rotenberg

Company TEXACO EXPLORATION RESOURCES LTD.

Title Chief Engineer

Operator's Licence No. 2717

(FOR BRANCH USE ONLY)

APPROVED

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

1. That drill cutting samples are collected every 5 m below the 508 mm casing shoe to T.D.
2. That a velocity survey is run from surface to T.D.

WELL CLASSIFICATION: New Field Wildcat

Dated 15 Dec 1979

Regional District Conservation Engineer

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

IAND 52-00-1/0-xx

Voir au verso

Indian and Northern Affairs Affaires indiennes et du Nord

Drilling Authority No. _____

NORTHERN NON-RENEWABLE RESOURCES BRANCH
DIRECTION DES RESSOURCES NON-RENOUVELABLES DU NORD

Date Issued _____

APPLICATION FOR A DRILLING AUTHORITY
DEMANDE D'AUTORISATION DE FORAGE

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

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

Name and number of well Texaco Mobil North Bovie Lake M-78

Location: Unit _____ Section _____ Grid _____

Latitude 60° 17' 52.5" N Longitude 122° 59' 45.9" W

Unique Well Identifier _____

Universal Well Location Reference _____

Proposed Target Location (if different) _____

Elevation: Ground 397 m K.B. 404 metres above sea-level.

Water Depth (for man-made islands, ice-islands and offshore wells) -

Well is expected to produce from Slave Point formation at a depth of about 2568 metres Expected total final depth 3018

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

Exploration Agreement No - Production Licence No -

Permit No - Lease No P&NG Lease#959-71 Containing 2689 Hectares (6645 acre

Permittee, licensee, or lessee Texaco, Mobil 50% each

Exploratory Licence No 2717

Surface Owned by Crown or Crown
(if alienated submit name and address of owner and occupant)

We propose to use the following strings of casing either cementing or landing them as indicated below; —

	Casing Size O.D. (mm)	Mass (kg/m)	Wall thickness (mm)	Grade	New or Used	Estimated Depth	Mass of Cement
1	508	140.0	11.13	H40	New	30	8.5 t(6.4 m³)
2	340	81.1	8.38	K55	"	400	52.0 t(39.0 m³)
3	245	53.6	8.94	K55	"	0-1089	
		59.5	10.03	K55	"	1089-1455	8.0 t(6.0 m³)
4	178	59.5	10.03	MN80	"	1455-1555	
		38.7	9.19	MN80		0-103	
5		38.7	9.19	K55	"	103-2087	
		38.7	9.19	MN80	"	2087-2910	72.0 t(54.0 m³)
		43.2	10.36	MN80	"	2910-3018	

Expected water, gas, and oil horizons and type of control equipment _____

Controls BOP's (13 5/8" 5000 psi) and 500 psi manifold/super choke

Well will be drilled with Rotary Rig No. 22E by Kenting Drilling
(Drilling Contractor or company)

Spud - Jan. 10/80 Completion - March 31/80

Responsible agent of applicant: —

At well Earl B. Brown Contractor's Business Licence No. 500

Address 10130 - 112 St. Edmonton At registered office D.F. MacKinnon

Address Box 3333 Calgary

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

Dated at Calgary, this 7 day of TEXACO Exploration RESOURCES LTD. 1979

Signed by W.A. Rutherford Company _____

Title Chief Engineer Operator's Licence No. 2717

(FOR BRANCH USE ONLY)

APPROVED

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

Dated _____ 19 _____

District Conservation Engineer

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

Voir au verso

TEC-212-C

GEOLOGICAL DATA SHEET

Well: Texaco Mobil North Bovie Lake M-78

Location: LSD..... Sec..... Twp..... Rge..... W..... M.

Lat: 60°17'52.5"N Long: 122°59'45.9"W

Est. K.B. 404 m
Est. T.D. 3018 m

GEOLOGICAL MARKERS

FORMATION	ESTIMATED SUBSEA	DEPTH *DRLG.	ACTUAL SUBSEA	DEPTH DRLG.
MISSISSIPPIAN				
Flett	343 m			
Exshaw Marker	1550			
UPPER DEVONIAN				
Besa River	1556			
Jean Marie	1858			
MIDDLE DEVONIAN				
Slave Point	2568			
Sulphur Point	2708			
Keg River	2774			
LOWER DEVONIAN				
Stone	2903			
Pre-Cambrian	3000			
T.D.	3018			

*Note: Estimated drilling depth to be computed only from actual K.B.

SAMPLES

Number of Bags: 1 to NECB Number of Cuts: 1 to Texaco, 1 to Mobil

Distribution: Texaco
P & NGCB
Can. Strat. Service

CORING AND TESTING

Drill stem tests in Mississippian, Jean Marie, Slave Point, Sulphur Point, Keg River, Stone Fms.

1 core in Slave Point Formation (18 m).

Anticipated problem may be high angle faults with potential lost circulation zones throughout the section.

Winter drilling.

Logging program: BHCS, DIL, CNL-FDC
Microlog-Caliper-Dipmeter

APPROVALS

D R Wilcock
District Geologist

TRW/kh
November 1, 1979

Chief Geologist

Assistant Manager

TEC-212-C

GEOLOGICAL DATA SHEET

Well: Texaco Mobil North Bovie Lake M-78

Location: LSD..... Sec..... Twp..... Rge..... W..... M.

Lat: 60°17'52.5"N Long: 122°59'45.9"W

Est. K.B. 404 m
Est. T.D. 3018 m

GEOLOGICAL MARKERS

FORMATION	ESTIMATED SUBSEA	DEPTH *DRLG.	ACTUAL SUBSEA	DEPTH DRLG.
MISSISSIPPIAN				
Flett	343 m			
Exshaw Marker	1550			
UPPER DEVONIAN				
Besa River	1556			
Jean Marie	1858			
MIDDLE DEVONIAN				
Slave Point	2568			
Sulphur Point	2708			
Keg River	2774			
LOWER DEVONIAN				
Stone	2903			
Pre-Cambrian	3000			
T.D.	3018			

*Note: Estimated drilling depth to be computed only from actual K.B.

SAMPLES

Number of Bags: 1 to NECB

Number of Cuts: 1 to Texaco
1 to Mobil

Distribution: Texaco
P & NGCB
Can. Strat. Service

CORING AND TESTING

Drill stem tests in Mississippian, Jean Marie, Slave Point, Sulphur Point, Keg River, Stone Fms.

1 core in Slave Point Formation (18 m).

Anticipated problem may be high angle faults with potential lost circulation zones throughout the section.

Winter drilling.

Logging program: BHCS, DIL, CNL-FDC
Microlog-Caliper-Dipmeter

APPROVALS

District Geologist

TRW/kh
November 1, 1979

Chief Geologist

Assistant Manager

TEXACO CANADA RESOURCES
COMPANY NAME

TEXACO MOBIL BOVIE LAKE
WELL NAME

400/ 60.170 / 122.590 /00
LOCATION

YR. MO. DAY
80 03 23
DATE

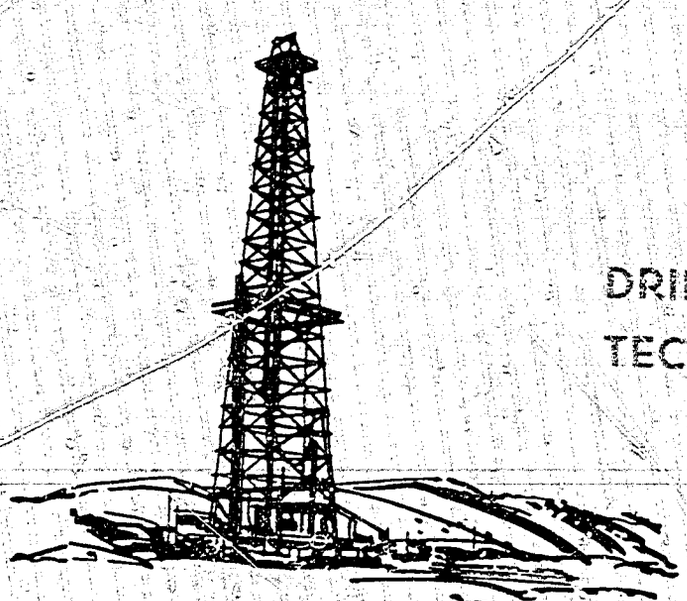
1
DST No.

LYNES

BRIGHT NAME IN THE OIL PATCH

Inflatable and Conventional Packer Tools

OIL & GAS EXPL. OPERATIONS
N.W.T. Res. Br.
APR 25 1980
DEPT. OF INDIAN & NORTHERN AFFAIRS



DRILL STEM TEST
TECHNICAL SERVICE REPORT

NOMENCLATURE (Definition of Symbols)

Q	=	average production rate during test, m^3/d
Q_g	=	measured gas production rate during test, m^3/d
k	=	permeability, md
h	=	net pay thickness, m (when unknown, test interval is chosen)
μ	=	fluid viscosity, mPa-s
Z	=	compressibility factor
T_f	=	reservoir temperature, °Kelvin
m	=	slope of final SIP buildup plot, kPa/cycle (kPa^2/cycle for gas)
D	=	approximate radius of investigation, metres
r_w	=	wellbore radius, metres
t_o	=	total flowing time, minutes
P_o	=	Extrapolated maximum reservoir pressure, kPa
P_f	=	final flowing pressure, kPa
$P.I.$	=	productivity index, $m^3/kPa\text{-}d$
$P.I._t$	=	theoretical productivity if ... damage removed, $m^3/kPa\text{-}d$
$D.R.$	=	damage ratio
$E.D.R.$	=	estimated damage ratio
AOF	=	absolute open flow potential, m^3/D
AOF_t	=	theoretical absolute open flow if damage were removed
Z	=	subsea depth, metres
μ	=	viscosity

INTERPRETATION CALCULATIONS (OIL/WATER)

AVERAGE ... PRODUCTIVITY ... SHUT-IN

Q = ... m³/d ΔP = ... kPa ... = ... hours

Mud Properties ... m

(... Linear Conversion ...)

... mPa-s

FLUID PROPERTIES — Estimated Reservoir Temperature

API Gravity @ ... °API Specific Gravity @ ... °C = ... Fluid Viscosity ... mPa-s

TRANSMISSIBILITY

kh = 2744.150 ... md-m/mPa-s

n.S.T.U. CAPACITY

n.S.T.U. = ... md-m

AVERAGE EFFECTIVE PERMEABILITY — Estimated Pay Thickness ... m; Actual Pay Thickness ... m

k = ... md

PRODUCTIVITY INDEX

PI = Q / (Pe - Pf) = ... m³/kPa-d

DAMAGE RATIO

D.R. = 2.303 (Pe - Pf) / m log (... / ...) = ...

PRODUCTIVITY INDEX WITH DAMAGE REMOVED

PIt = PI x D.R. = ... x ... = ... m³/kPa-d

APPROXIMATE RADIUS OF INVESTIGATION

D = 0.3048 √(... x kh x ... / ...) = ... m

Drawdown Factor = (ISIP - FSIP) / ISIP x 100 = ... x 100 = ... % (4% to 5% is considered serious or substantial)

INTERPRETION CALCULATIONS (GAS)

ESTIMATED GAS PERMEABILITY — Rt/n; Estimated Reservoir Flow Temperature; Gas Gravity @ 15°C = ...; Viscosity (Pay) = ... mPa-s; Compressibility Factor (Z) = ...

TRANSMISSIBILITY — (Measured Q & P Gas Meter) = ... mcf/d

kh = 1516.90 Qg ZTf / ... = ... mcm / mPa-s

n.S.T.U. CAPACITY

n.S.T.U. = ... x ... = ... mcm

AVERAGE EFFECTIVE PERMEABILITY — Estimated Pay Thickness ... m; Actual Pay Thickness ... m

k = ... / ... = ... md

APPROXIMATE RADIUS OF INVESTIGATION

D = 0.0220 √(... x kh x ... / ...) = ... m

ACTUAL CAPACITY

n = 939 Q Z Tf log (0.472 re) = 939 x ... x ... x ... log (... x ...) = ... mcm

Ppr - Pf

DAMAGE RATIO — E.D.R. = (Pbf - Pf) / m log (... / 2.65)

D.R. = n.S.T.U. Capacity / Actual Capacity = ... / ... = ... E.D.R. = ...

ESTIMATED RANGE OF AOF POTENTIAL

Max. AOF = Qg Pbf / (Pbf - Pf) = ... x ... / ... = ... mcfd

Min. AOF = Qg Pbf / √(Pbf² - Pf²) = ... x ... / √(... - ...) = ... mcfd

ESTIMATED RANGE OF AOF POTENTIAL DAMAGE REMOVED

Max. AOFt = (Max. AOF)(D.R.) = (...) x ... = ... mcfd

Min. AOFt = (Min. AOF)(D.R.) = (...) x ... = ... mcfd

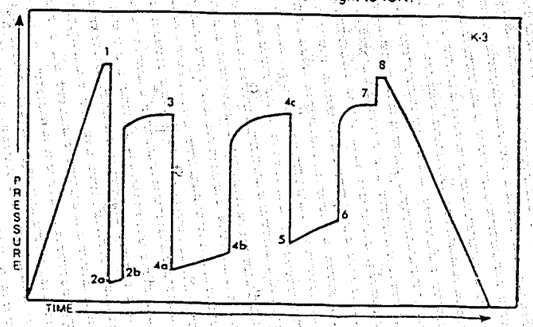
Drawdown Factor = (ISIP - FSIP) / ISIP x 100 = ... / ... x 100 = ... % (4% to 5% is considered serious or substantial)

LYNES

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

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

AK-1 recorders. Read from right to left.

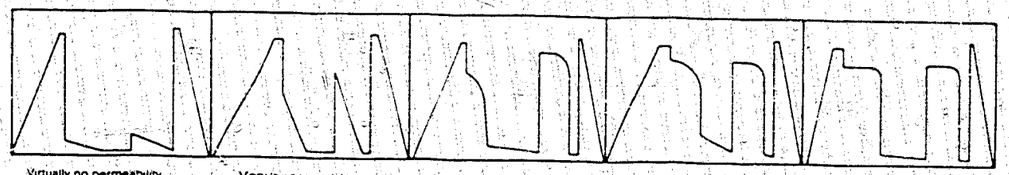


K-3 recorders. Read from left to right

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

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

Typical charts for visual field analysis ranging from virtually no — excellent perm.



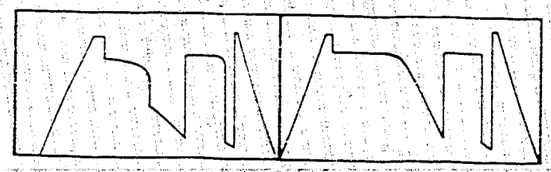
Virtually no permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Very low permeability. Again usually mud recovered

Low permeability. Small recovery, less than 60 m

Relatively low permeability. Final and initial shut-ins differ by 344.7 kPa

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



High permeability where ISIP and FSIP are within 68.9 kPa

Excellent permeability where final flow and finial shut-in pressure are equal

LYNES UNITED SERVICES LTD.

DRILLSTEM TEST SUMMARY REPORT

Date: 80 03 23

Well name: TEXACO MOBIL BOVIE LAKE H-78
Location: 400/ 60.170 / 122.590 /00

Licence no. 09480
Ticket no. 40765

DST number 001 LYNES test #1 Test number 1 of 1 (on same trip)
Test type: INFLATE STRADDLE

Kelly bushing (M): 397.58
Interval from (M): 2610.00
to (M): 2650.00

Ground elevation (M): 389.58

Total depth (M): 3080.00

Formation: SLAVE POINT

TIME AND PRESSURE DATA

Recorder #015835

	TIMES (min)	PRESSURES (kPa)		TIMES (min)	PRESSURES (kPa)
		7365.0			7438.0
1st flow	30.	8234.0	2nd flow	20.	7021.0
1st shutin	60.	14658.0	2nd shutin	50.	10297.0
3rd flow			4th flow		
3rd shutin			4th shutin		
Initial hycrostatic		30768.0	Final hydrostatic		30141.0

GENERAL REMARKS

Test results incicate a mechanically successful test; shape of shut-in curves suggests VERY LOW PERMEABILITY within the interval testec.

TEST RECOVERY DATA

Blow description:

No blow on preflow. No blow on valve opening.

GAS MEASUREMENTS: Measured with: NO GAS-INSTR AVAILABLE

Riser (mm):

TIME (min)	SUFF.	CHOKE (mm)	READING (kPa)	CUBIC METRES/D

NO GAS MEASUREMENTS

Liquid recovery: For DST# 1 through DST# 1

Amount (M)	Of
490.00	WATER AND INHIBITOR.
20.00	MUDDY WATER.

Total recovery (M): 510.00

Reversed out: NO Salinity (g/M3):

Bottom hole sampler# 52
Sent to:

Gas bomb#
Sent to:

No. of fluid samples: 3
Sent to: C & G

GENERAL DATA

Inhibitor : Inhibitor amount (L):

Cushion type: WATER Liquid amount (M): 610.00
Gas pressure (kPa):

Started in hole: 130.00 hrs.
Opened tool at: 745.00 hrs.

MUD AND HOLE DATA

Hole condition @ test time: GOOD
Conditioned prior to test: YES

Calipered hole size @ test depth (mm) 218.0

Mud type: KCL
Viscosity (sec/l): 66.0 Mud weight (kg/M3): 1205.00
Filter cake (mm): 1.6 Water loss (cm3): 3.6
Log temperature (C): 80.0
Recorder temperature (C): 77.9

Pipe size (mm)	Type	Weight (kg/M)
114.0	EXTRA HOLE	24.05

Collar size (mm)	Type	Int. diameter (mm)	Length (M)
127.0	H90	69.9	168.64

BTM choke size (mm): 25.4
Rat hole size (mm): Rat hole length (M):
Main hole size (mm): 216.0

Total number of packers run: 2

Mailing Data

Company: TEXACO CANADA RESOURCES LTD.
Address: 600 - 6TH AVE. S.W.
CALGARY, ALBERTA Reports sent to: ERIC LLOYD

Number of Reports: 7

LYNES UNITED SERVICES LTD.

RECORDER PAGE

****

WELL NAME : TEXACO MOBIL SOVIE LAKE M-78
LOCATION : 400/ 60.170 / 122.590 /00
DST NUMBER : 001

RECORDER NUMBER: 015835 TYPE: K-3
DEPTH : 2611.00 m INSIDE/OUTSIDE: OUTSIDE
CAPACITY : 42058.00 kPa

	TIMES (MIN)	PRESSURES (kPa)
		7365.00
1ST. FLOW	30.	8234.00
SHUTIN	60.	14658.00
		7438.00
2ND. FLOW	20.	7021.00
SHUTIN	60.	10297.00

INITIAL HYDROSTATIC: 30768.0 FINAL HYDROSTATIC: 30141.0



LYNES UNITED SERVICES LTD.

RECORDER PAGE

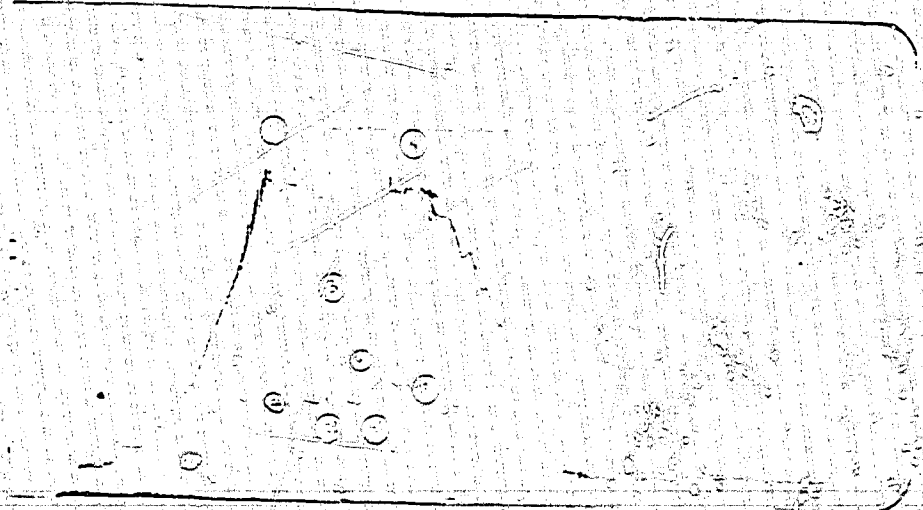
****

WELL NAME : TEXACO MOBIL BOVIE LAKE M-73
LOCATION : 400/ 60.170 / 122.590 /00
DST NUMBER : 001

RECORDER NUMBER: 008952 TYPE: K-3
DEPTH : 2611.00 m INSIDE/OUTSIDE: OUTSIDE
CAPACITY : 48260.00 kPa

	TIMES (MIN)	PRESSURES (kPa)
		7676.00
1ST. FLOW	30.	8177.00
SHUTIN	60.	14631.00
		7777.00
2ND. FLOW	20.	7316.00
SHUTIN	60.	10302.00

INITIAL HYDROSTATIC: 31246.0 FINAL HYDROSTATIC: 30605.0



LYNES UNITED SERVICES LTD.

RECORDER PAGE

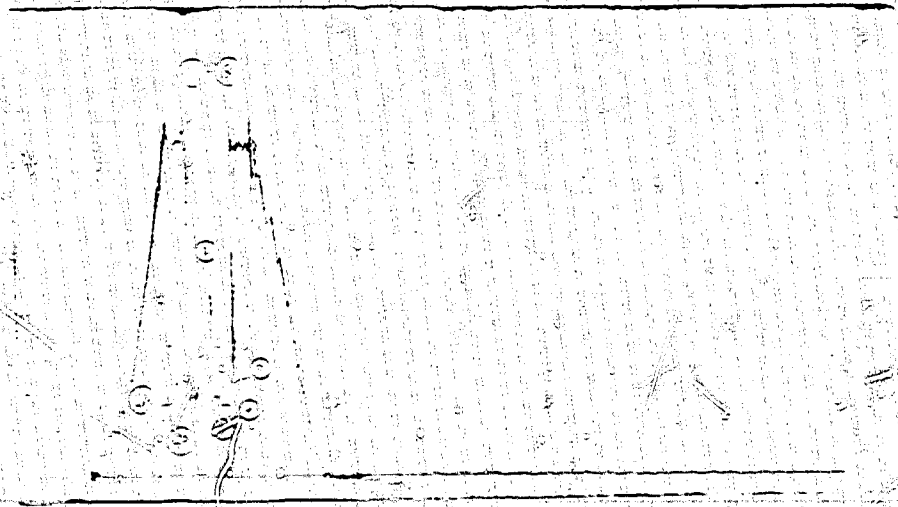
****

WELL NAME : TEXACO MOBIL BOVIE LAKE M-78
LOCATION : 400/ 60.170 / 122.590 /00
DST NUMBER : 001

RECORDER NUMBER: 008556 TYPE: K-3
DEPTH : 2601.00 m INSIDE/OUTSIDE: INSIDE
CAPACITY : 41023.00 kPa

	TIMES (MIN)	PRESSURES (kPa)
		7296.00
1ST. FLOW	30.	8116.00
SHUTIN	60.	14461.00
		7430.00
2ND. FLOW	20.	6962.00
SHUTIN	60.	10141.00

INITIAL HYDROSTATIC: 30804.0 FINAL HYDROSTATIC: 30275.0



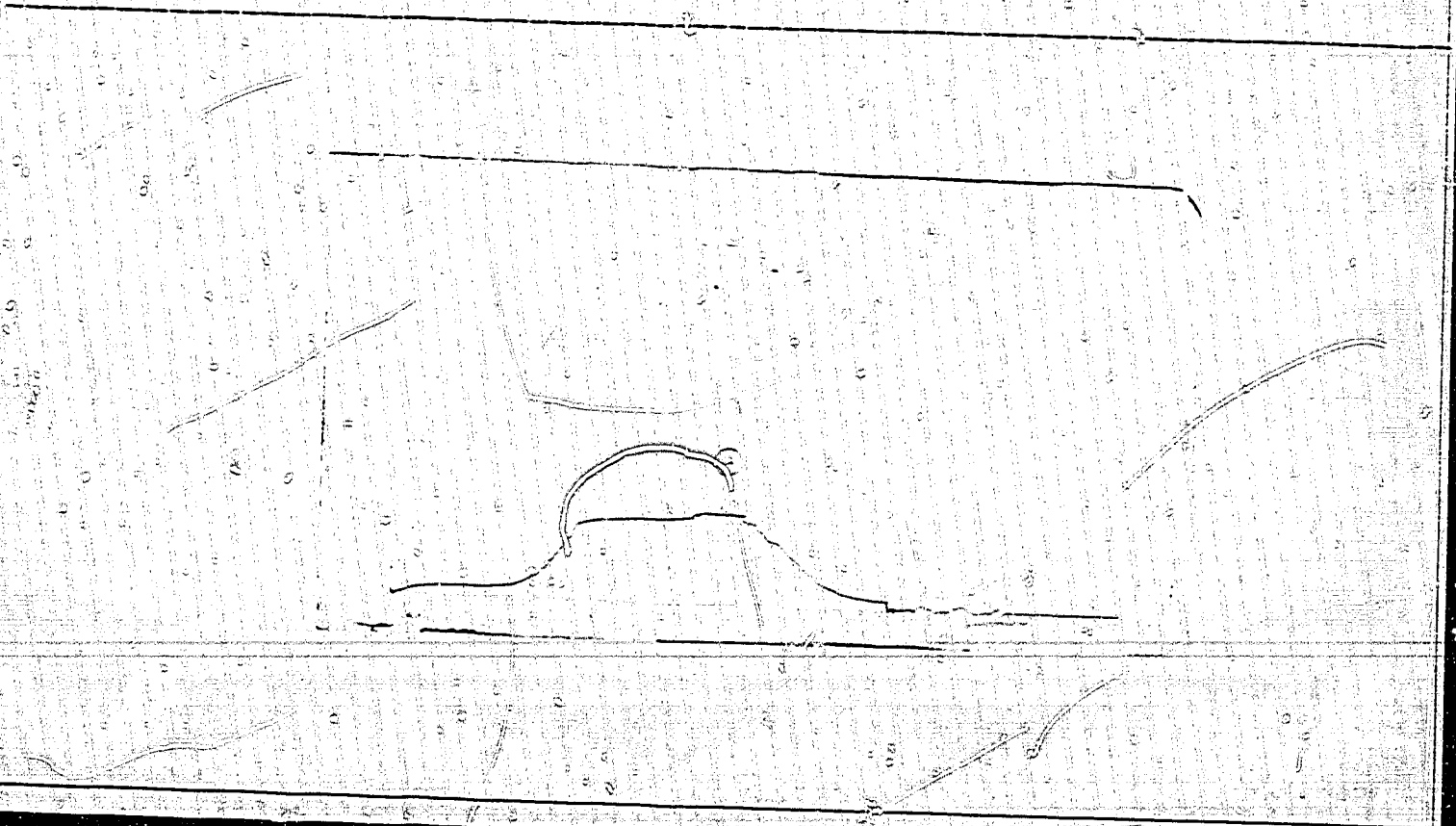
LYNES UNITED SERVICES LTD.

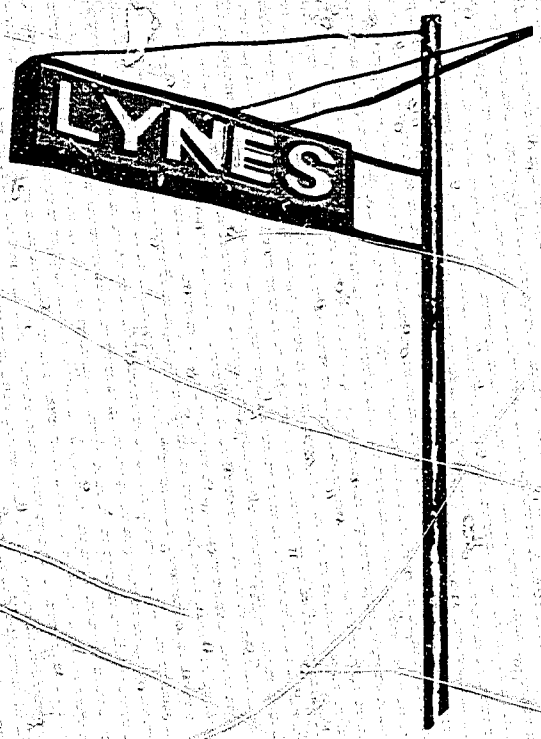
RECORDER PAGE

WELL NAME : TEXACO MOBIL BOVIE LAKE M-78
LOCATION : 400/ 60.170 / 122.590 /00
DST NUMBER : 001

RECORDER NUMBER: 006643 TYPE: TEMP
DEPTH : 2611.00 m INSIDE/OUTSIDE: OUTSIDE
CAPACITY : 207.78 C

TEMPERATURE AT TEST DEPTH 77.90 C





LYNES UNITED SERVICES LTD. CALGARY, ALBERTA

232-1735

TEXACO CANADA RESOURCES
COMPANY NAME

TEXACO MOBIL BOVIE LAKE
WELL NAME

400/ 60.170 / 122.590 /00
LOCATION

YR. MO. DAY
80 03 23
DATE

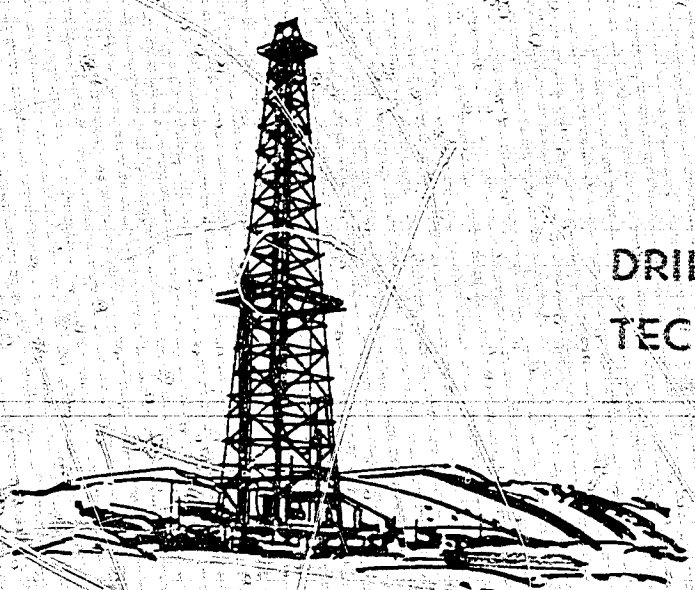
2
DST No.

LYNES

BRIGHT NAME IN THE OIL PATCH

Inflatable and Conventional Packer Tools

OIL & GAS EXPL. OPERATIONS
DEPT. OF INDIAN & NORTHERN AFFAIRS
N.W.T. Region
APR 25 1980



DRILL STEM TEST
TECHNICAL SERVICE REPORT

NOMENCLATURE (Definition of Symbols)

Q	=	average production rate during test, m^3/d
Q_g	=	measured gas production rate during test, m^3/d
k	=	permeability, md
h	=	net pay thickness, m (when unknown, test interval is chosen)
μ	=	fluid viscosity, mPa-s
Z	=	compressibility factor
T_f	=	reservoir temperature, °Kelvin
m	=	slope of final SIP buildup plot, kPa/cycle (kPa^2/cycle for gas)
b	=	approximate radius of investigation, metres
r_w	=	wellbore radius, metres
t_0	=	total flowing time, minutes
P_0	=	Extrapolated maximum reservoir pressure, kPa
P_f	=	final flowing pressure, kPa
$P.I$	=	productivity index, $m^3/kPa\text{-}d$
$P.I_c$	=	theoretical productivity index with damage removed, $m^3/kPa\text{-}d$
$D.R$	=	damage ratio
$E.D.R$	=	estimated damage ratio
AOF	=	absolute open flow potential, m^3/D
AOF_c	=	theoretical absolute open flow if damage were removed
Z	=	subsea depth, metres
μ	=	viscosity

INTERPRETATION CALCULATIONS (OIL/WATER)

Multi-Extension
(Pulse Dimension / Extrapolated)

Estimated Reservoir Mean Temperature

Calculated Slope

Estimated Pay Thickness
Actual Pay Thickness

mmPa-s

PRODUCTIVITY INDEX WITH DAMAGE REMOVED

mm³/kPa-d

APPROXIMATE RADIUS OF INVESTIGATION

Drawdown Factor: $\frac{ISIP - FSIP}{ISIP} \times 100 = \frac{\quad}{\quad} \times 100 =$ % (4% to 5% is considered serious or substantial)

INTERPRETION CALCULATIONS (GAS)

RTo
Z Estimated Horizon Mean Temperature

GAS PROPERTIES
Viscosity @ mean ____ mmPa-s (from ____) ____ kPa Compressibility Factor (Z) ____

TRANSMISSIBILITY — Measured Q for Test Rate = ____ mm³/d

kh = 1518 $\frac{Q_g T_f}{m}$ = ____ = ____ mmd / mPa-s

INITIAL CAPACITY

kh = ____ mmd-m

AVERAGE EFFECTIVE PERMEABILITY

____ md

Estimated Pay Thickness ____ m
Actual Pay Thickness ____ m

APPROXIMATE RADIUS OF INVESTIGATION

b = 1332 $\sqrt{\frac{k \cdot t_0}{\mu \cdot Z}}$ = ____ m

ACTUAL CAPACITY

kh = 631 $Q_g \cdot Z \cdot T_f \log(0.472 r_e / r_w)$ = ____

P(pi) = ____ kPa
m = ____ kPa/cycle

DAMAGE RATIO

$D.R = \frac{\text{Initial Capacity}}{\text{Actual Capacity}} = \frac{\quad}{\quad}$

E.D.R = $\frac{(P_{ave} - P_f)}{m \log \frac{t_0 + \Delta t}{\Delta t}}$ = ____

E.D.R = ____

ESTIMATED RANGE OF AOF POTENTIAL

Max. AOF = $\frac{Q_g P_{ave}}{P_{ave} - P_f}$ = ____ mm³/d

Min. AOF = $\frac{Q_g P_0}{P_{ave} - P_f}$ = ____ mm³/d

ESTIMATED RANGE OF AOF POTENTIAL DAMAGE REMOVED

Max. AOF$_c$ = (Max. AOF) (D.R) = ____ × ____ = ____ mm³/d
Min. AOF$_c$ = (Min. AOF) (D.R) = ____ × ____ = ____ mm³/d

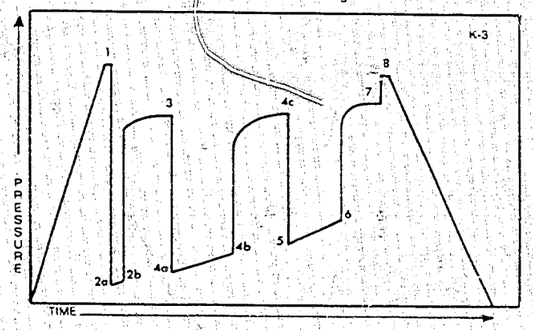
Drawdown Factor: $\frac{ISIP - FSIP}{ISIP} \times 100 = \frac{\quad}{\quad} \times 100 =$ % (4% to 5% is considered serious or substantial)

LYNES

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

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

AK-1 recorders. Read from right to left.

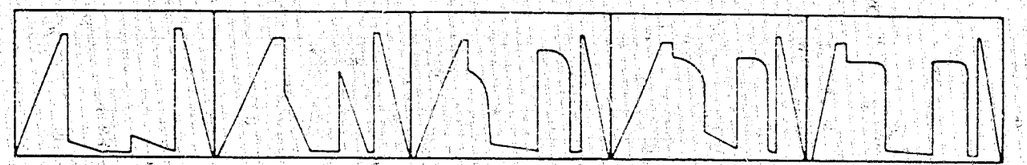


K-3 recorders. Read from left to right.

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

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

Typical charts for visual field analysis ranging from virtually no — excellent perm.



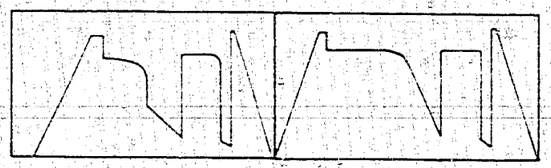
Virtually no permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Very low permeability. Again usually mud recovered.

Low permeability. Small recovery, less than 60 m.

Relatively low permeability. Final and initial shut-ins differ by 344.7 kPa.

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



High permeability where ISIP and FSIP are within 68.9 kPa.

Excellent permeability where final flow and final shut-in pressure are equal.

LYNES UNITED SERVICES LTD.

DRILLSTEM TEST SUMMARY REPORT

Date: 00 03 24

Well name: TEXACO MOBIL BOVIE LAKE H-75
Location: 400/ 60.170 / 122.590 /00

Licence no. 09480
Ticket no. 40788

DST number 002 LYNES test #2 Test number 1 of 1 (on same trip)
Test type: INFLATE STRADDLE

Kelly bushing (M): 397.58
Interval from (M): 1773.00
to (M): 1808.00

Ground elevation (M): 389.58

Total depth (M): 3080.00

Formation: KOTCHO

TIME AND PRESSURE DATA

Recorder #008952

	TIMES (min)	PRESSURES (kPa)		TIMES (min)	PRESSURES (kPa)
1st flow	15.		2nd flow	15.	
1st shutin	60.		2nd shutin	60.	
3rd flow			4th flow		
3rd shutin			4th shutin		
Initial hydrostatic		25402.0	Final hydrostatic		25402.0

GENERAL REMARKS

Misrun - plugged tool throughout test.

TEST RECOVERY DATA

Blow description:
****
Very faint initial puff decreasing to nil on preflow.
No blow on final flow.

GAS MEASUREMENTS: Measured with: NO GAS-INSTR AVAILABLE
****
Riser (mm):

TIME (min)	SURF. CHOKE (mm)	READING (kPa)	CUBIC METRES/D

NO GAS
MEASUREMENTS

Liquid recovery: For DST# 2 through DST# 2
****
Amount (M) Of

Total recovery (M): .00

Reversed out: NO Salinity (g/M3):

Bottom hole sampler#
Sent to:

Gas bomb#
Sent to:

No. of fluid samples:
Sent to:

GENERAL DATA

Inhibitor :

Inhibitor amount (M):

Cushion type:

Liquid amount (M):
Gas pressure (kPa):

Started in hole: 930.00 Hrs.
Opened tool at: 1405.00 Hrs.

MUD AND HOLE DATA

Hole condition @ test time: GOOD
Conditioned prior to test: YES

Calipered hole size @ test depth (mm) 220.0

Mud type: KCL
Viscosity (sec/l): 56.0
Filter cake (mm): 1.5

Mud weight (kg/M3): 1205.00
Water loss (cm3): 3.6
Log temperature (C):
Recorder temperature (C): 29.5

Pipe size (mm)	Type	Weight (kg/M)
114.0	EXTRA HOLE	24.05

Collar size (mm)	Type	Int. diameter (mm)	Length (M)
127.0	H90	69.9	179.14
171.0			

BTM choke size (mm): 25.4
Rat hole size (mm):
Main hole size (mm): 216.0

Rat hole length (M):

Total number of packers run: 2

Mailing Data

Company: TEXACO CANADA RESOURCES LTD.
Address: 600 - 6TH AVE. S.W.
CALGARY, ALBERTA

Reports sent to: ERIC LLOYD

Number of Reports: 7

LYNES UNITED SERVICES LTD.

RECORDER PAGE

****

WELL NAME : TEXACO MOBIL BOVIE LAKE A-78
LOCATION : 400/ 60-17G / 122-59G /00
DST NUMBER : 002

RECORDER NUMBER: 015835 TYPE: K-3
DEPTH : 1779.00 m INSIDE/OUTSIDE: OUTSIDE
CAPACITY : 42058.00 kPa

	TIMES (MIN.)	PRESSURES (kPa)
1ST. FLOW	15.	
SHUTIN	60.	
2ND. FLOW	15.	
SHUTIN	60.	

INITIAL HYDROSTATIC: 21936.0 FINAL HYDROSTATIC: 21410.0



LYNES UNITED SERVICES LTD.

RECORDER PAGE -

WELL NAME : TEXACO MOBIL BOVIE LAKE M-78
LOCATION : 400/ 60.170 / 122.590 /00
DST NUMBER : 002

RECORDER NUMBER: 008952 TYPE: K-3
DEPTH : 1779.00 m INSIDE/OUTSIDE: OUTSIDE
CAPACITY : 48260.00 kPa

	TIMES (MIN)	PRESSURES (kPa)
1ST. FLOW	15.	
SHUTIN	60.	
2ND. FLOW	15.	
SHUTIN	60.	

INITIAL HYDROSTATIC: 25402.0 FINAL HYDROSTATIC: 25402.0



LYNES UNITED SERVICES LTD.

RECORDER PAGE

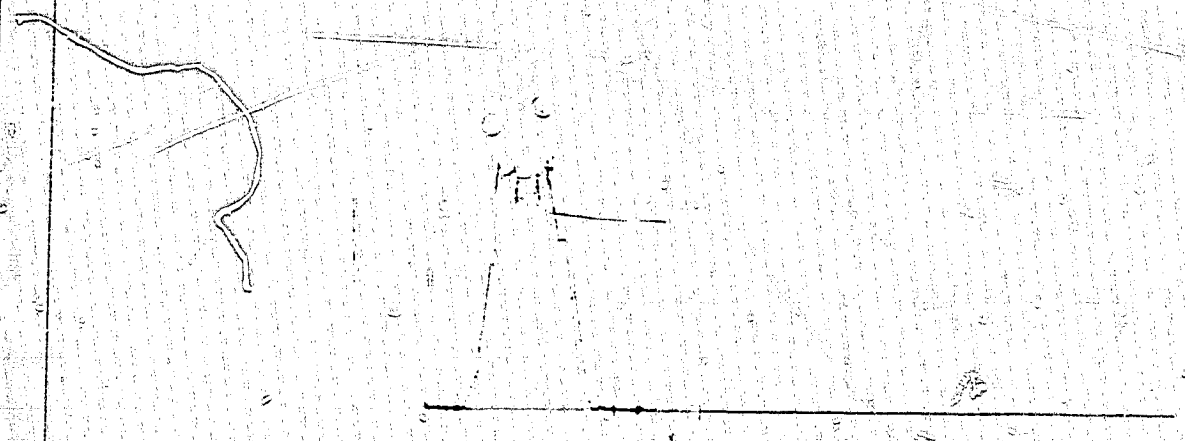
****

WELL NAME : TEXACO MOBIL BOVIE LAKE M-78
LOCATION : 400/ 50.170 / 122.590 /00
DST NUMBER : 002

RECORDER NUMBER: 008558 TYPE: K-3
DEPTH : 1769.00 m INSIDE/OUTSIDE: INSIDE
CAPACITY : 41024.00 kPa

	TIMES (MIN)	PRESSURES (kPa)
1ST. FLOW	15.	
SHUTIN	60.	
2ND. FLOW	15.	
SHUTIN	60.	

INITIAL HYDROSTATIC: 18739.0 FINAL HYDROSTATIC: 18168.0



LYNES UNITED SERVICES LTD.

RECORDER PAGE

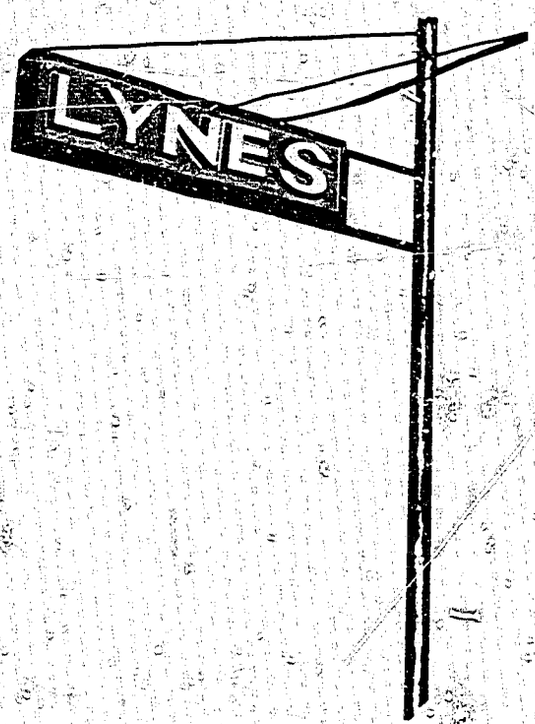
****

WELL NAME	:	TEXACO MOBIL BOVIE LAKE M-78
LOCATION	:	400/ 50.170 / 122.590 /00
DST NUMBER	:	002

RECORDER NUMBER:		006643		
DEPTH	:	1779.00 m	TYPE:	TEMP
CAPACITY	:	207.70 C	INSIDE/OUTSIDE:	OUTSIDE

TEMPERATURE AT TEST DEPTH 29.50 C




LYNES

WELL HISTORY REPORT

TEXACO HORIZ BOVIE LAKE #1-73

WELL HISTORY REPORT

TEXACO MOBIL BOVIE LAKE M-78

UNIT M, SECTION 78
GRID: 60-20-122-45
LATITUDE: 60° 17' 52.5" N
LONGITUDE: 122° 59' 54.9" W

TEXACO CANADA RESOURCES LTD.
EDMONTON, ALBERTA

JUNE 9, 1980

CONFIDENTIAL

I N D E X

I	SUMMARY OF WELL DATA
II	GEOLOGICAL SUMMARY
III	ENGINEERING SUMMARY
IV	SUMMARY OF LOGS

WELL HISTORY REPORT

TEXACO MOBIL BOVIE LAKE M-78

I. SUMMARY OF WELL DATA

a) Well Name: Texaco Mobil Bovie Lake M-78

b) Lessee: Texaco Canada Resources Ltd. - 50%
Mobil Oil Canada Ltd. - 50%

c) Name of Operator: Texaco Canada Resources Ltd.
Box 3333, 600 - Sixth Avenue S.W.
Calgary, Alberta

d) Location: Unit M, Section 78, Grid 60-20-122-45
Universal Reference 60.29792° N 122.99608° W
Unique Well Identifier 300M736020122450

e) Co-ordinates: Latitude 60° 17' 52.5" N
Longitude 122° 59' 54.9" W

f) Lease No.: P&NG Lease No. 959-71

g) Drilling Contractor: Kenting Drilling Co. Ltd.
Rig No. 22E National 80 UE
Diesel-Electric with three
Caterpillar D379, 600 KW generators.
Dreco derrick is 40.5 m with
312 000 daN capacity.

h) Drilling Authority: No. 948, issued 1979-12-13

i) Classification: New field wildcat

j) Elevations: Ground 389.47 m
KB 397.58 m

k) Spud Date: 1980-01-20

l) Completed Drilling: 1980-03-20

m) Total Depth: Driller TD 3082 m
Logger TD 3082 m

n) Well Status: Abandoned

o) Rig Release Date: 1980-03-28

p) Hole Sizes:

0-400 m	311.2 mm reamed to 444.5 mm
400-1564 m	311.2 mm
1564-3080 m	215.9 mm

q) Casing:

Surface — 339.7 mm 81.1 Kg/m J55 Buttress ST&C casing landed at 400 m KB

Intermediate — 244.5 mm 53.57 Kg/m K55 and 59.52 Kg/m K55 and MN80 8 rd LT&C casing landed at 1564 m KB

CONDUCTOR: 508 mm 140.0 kg/m, LANDED AT 29.59 m KB.

FORMATION TOPS

Well Name TEXACO MOBIL BOVIE LAKE M-78 Location 60°17'52.5"N 122°59'45.9"W

FORMATION	PROJECTED	SAMPLE	LOG	SUBSEA
FLETT	337		462.5*	-65.0
SHUNDRA/PEKISKO			951.0*	-553.5
UPPER BANFF			1061.5*	-664.0
LOWER BANFF			1190.0*	-792.5
EXSHAW	1544		1539	-1141.5
BESA RIVER	1550		1549	-1151.5
KOTCHO			1639	-1241.5
JEAN MARIE	1852		1858(?)	-1460.5
TETCHO		1922	1921	-1523.5
TROUT RIVER		1940	1938.5	-1541.0
KAKISA		2014	2010.5	-1613.0
FT. SIMPSON		2032	2030	-1632.5
MUSKWA		2590	2593	-2195.5
SLAVE POINT	2562	2607	2607.5	-2210.0
WATT MOUNTAIN		2691	2688.5	-2291.0
SULPHUR POINT	2702	2693	2691	-2293.5
MUSKEG		2775	2771	-2373.5
KEG RIVER	2768	2795	2800	-2402.5
STONE	2897	3010	3011	-2613.5
PRE CAMBRIAN	2994	NOT PENETRATED		
TOTAL DEPTH	3012	3082	3082	-2684.5

*TEXACO GEOLOGIST

CORE #1

INTERVAL: 2610.2m - 2628.2m
FORMATION: SLAVE POINT
CUT: 18m
RECOVERED: 18m

2610.2 - 2613.4m
LIMESTONE, dark brown, calcilutite-very finely crystalline, very argillaceous, abundant pyrobitumenous and carbonaceous material, sparry calcite, scattered styolites, abundant very finely crystalline AMPHIPORA, rare hemispherical STROMATOPOROIDS, no live stain, no fluorescence, no cut, no visible porosity.

2613.4 - 2613.8m
LIMESTONE, dark brown, calcilutite, abundant very finely crystalline, light brown, sparry calcite, very argillaceous, very carbonaceous, pyrobitumenous, BRACHIOPODS, trace AMPHIPORA, no live stain, no fluorescence, no cut, no visible porosity.

2613.8 - 2615.8m
LIMESTONE, dark brown, calcilutite, very finely crystalline, as above, abundant AMPHIPORA, vertical fractures with white sparry calcite infilling, no shows, no visible porosity.

2615.8 - 2616.4m
LIMESTONE, dark brown, calcilutite, very finely crystalline, sparry calcite, as above, BRACHIOPODS, styolites, no live stain, no fluorescence, no visible porosity.

2616.4 - 2617.2m
LIMESTONE, dark brown, as above, abundant AMPHIPORA, styolites, no stain, no fluorescence, no cut, no visible porosity.

2617.2 - 2618.8m
LIMESTONE, dark brown, as above, with abundant subspherical and bulbous STROMATOPOROIDS, vertical fractures with sparry calcite infilling, no live stain, no fluorescence, no cut, no visible porosity.

2618.8 - 2620.0m
LIMESTONE, dark brown, as above, with abundant AMPHIPORA, occasional irregular and tabular STROMATOPOROIDS, no shows, no visible porosity.

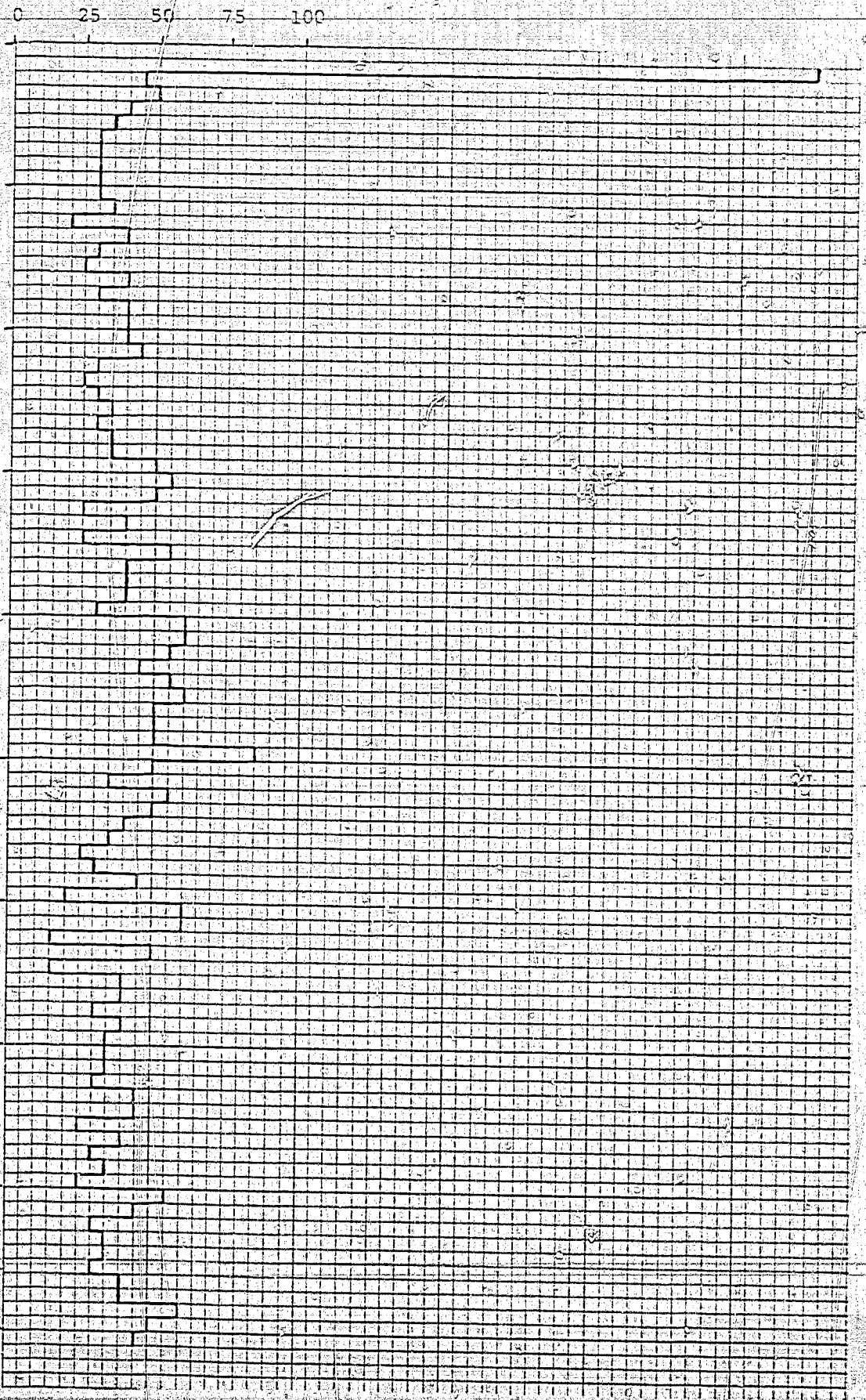
2620.0 - 2620.4m
LIMESTONE, as above, abundant irregular and subspherical STROMATOPOROIDS, AMPHIPORA, no shows, no visible porosity.

2620.4 - 2628.2m
LIMESTONE, dark brown, as above, abundant AMPHIPORA, occasional irregular STROMATOPOROIDS, occasional BRACHIOPODS, trace styolites, vertical fractures with sparry calcite infilling, no live stain, no fluorescence, no cut, no visible porosity.

NOTE: Core Bleeding Gas From Styolites And Fracture Surfaces Throughout.

TERRATECH CONSULTING LTD.

CORING TIME - CORE NO. 1
(Minutes per Meter)



SAMPLE DESCRIPTIONS

(1500m – 1900m)

NOTE: 1500m – 1900m samples are unsupervised and are of very poor quality. They may not be representative of the formation drilled for the given interval.

1495 – 1535m
SHALE, 100%, dark grey, blocky–sub fissile, very carbonaceous, micro micaceous, trace pyrite, non calcareous.

1535 – 1545m
SHALE, 95%, as above, increasingly pyritic.
SILTSTONE, 5%, medium grey, moderately consolidated, well sorted, sub angular, quartzose, pyritic, calcareous, carbonaceous, no shows, tight.

1545 – 1555m
SHALE, 100%, medium grey, as above, slightly silty and calcareous in part.

1555 – 1560m
SHALE, 100%, light medium grey, blocky, slightly micro micaceous, trace pyrite, calcareous.

1560 – 1565m
SHALE, 95%, as above.
SILTSTONE, 5%, light medium grey, moderately consolidated, well sorted, sub angular, quartzose, very calcareous, slightly argillaceous, no shows, tight.

1565 – 1575m
SHALE, 60%, as above, silty in part.
SILTSTONE, 40%, as above.

1575 – 1580m
SHALE, 80%, light–medium grey, blocky, slightly micro micaceous, trace pyrite, slightly calcareous.
SILTSTONE, 20%, as above.

1580 – 1590m
SILTSTONE, 70%, light medium grey, as above, very argillaceous, no shows, tight.
SHALE, 30%, as above, silty.
SANDSTONE, trace, light grey, fine–medium grained, moderately consolidated, occurs as loose grains in sample, well sorted, quartzose, sub angular, no stain, no fluorescence, no cut.

1590 – 1615m
SHALE, 100%, dark grey, blocky–sub fissile, slightly micro micaceous, silty in part, carbonaceous, very calcareous.

1615 – 1635m
SHALE, 100%, medium grey, sub fissile, micro micaceous, silty in part, calcareous, pyritic.

1635 – 1640m
SHALE, 70%, as above, with silty laminae in part.
SILTSTONE, 20%, medium grey, moderately consolidated, well sorted, sub angular,

quartzose, very calcareous, no shows, tight.
LIMESTONE, 10%, light grey, cryptocrystalline, slightly argillaceous in part, tight.

1640 - 1655m
SILTSTONE, 50%, as above.
SHALE, 40%, as above.
LIMESTONE, 10%, as above.

1655 - 1660m
SILTSTONE, 70%, as above.
SHALE, 30%, as above.

1660 - 1665m
SHALE, 50%, silty.
SILTSTONE, 50%, becoming increasingly argillaceous and grading to shale.

1655 - 1680m
SHALE, 100%, dark grey, micro micaceous, blocky, silty, very calcareous.

1680 - 1685m
SHALE, 100%, as above, trace fossil fragments(crinoid).

1685 - 1700m
SHALE, 100%, medium grey, blocky-sub fissile, silty, very calcareous.

1700 - 1705m
SHALE, 90%, medium grey-dark grey, as above.
SHALE, 10%, dark brown, sub fissile, slightly carbonaceous, silty, calcareous.

1705 - 1710m
SHALE, 100%, medium-dark grey, as above, silty.
SHALE, trace, dark brown, as above.

1710 - 1715m
SHALE, 80%, medium-dark grey, as above.
SHALE, 20%, dark brown, as above.

1715 - 1720m
SHALE, 90%, medium-dark grey, as above, grading to argillaceous siltstone in part.
SHALE, 10%, dark brown, as above.

1720 - 1725m
SILTSTONE, 90%, medium grey, moderately well consolidated, well sorted, sub angular, quartzose, micro micaceous in part, very calcareous, no shows, tight.
SHALE, 10%, medium-dark grey, as above.

1725 - 1730m
SHALE, 50%, as above.
SILTSTONE, 50%, as above.

1730 - 1740m
SHALE, 100%, medium grey, as above, silty and grading to siltstone in part.

1740 – 1745m
SHALE, 100%, medium-dark grey, as above.
SHALE, trace, dark brown, as above.

1745 – 1755m
SHALE, 90%, medium-dark grey, as above.
SILTSTONE, 10%, medium grey, as above.

1755 – 1760m
SILTSTONE, 90%, as above, very calcareous.
SHALE, 30%, as above.

1760 – 1770m
SILTSTONE, 70%, as above, dark grey in part.
SHALE, 30%, as above.

1770 – 1775m
SILTSTONE, 100%, as above.

1775 – 1800m
SHALE, 80%, dark grey, sub fissile-blocky, micro micaceous, moderately calcareous, slightly carbonaceous.
SILTSTONE, 20%, as above.

1800 – 1820m
SHALE, 100%, medium grey, sub fissile, micro micaceous, moderately calcareous.

1820 – 1825m
NO SAMPLE.

1825 – 1835m
SHALE, 100%, as above.

1835 – 1840m
SILTSTONE, 80%, medium grey, moderately consolidated, well sorted, sub angular, quartzose, very calcareous, no shows, tight.
SHALE, 20%, as above.

1840 – 1850m
NO SAMPLE.

1850 – 1895m
SHALE, 100%, dark grey, as above, trace pyrite.

1895 – 1900m
SHALE, 100%, dark grey, sub fissile-blocky, micro micaceous, carbonaceous, calcareous.

TERRA TECH CONSULTING LTD.

SAMPLE DESCRIPTIONS

1900 – 1910m
SHALE, 100%, dark grey, sub fissile, very micro micaceous, slightly carbonaceous, very calcareous, trace pyrite.

1910 – 1920m
SHALE, 100%, black, as above, very carbonaceous, pyrite, moderately calcareous.

TETCHO 1932m

1920 – 1935m
SILTSTONE, 90%, medium grey, very finely arenaceous in part, rarely light grey, chalky and very finely arenaceous, moderately well consolidated, well sorted, sub angular, quartzose, argillaceous, very carbonaceous and pyrobitumenous, very calcareous, no shows, tight.
SHALE, 10%, as above.

1935 – 1940m
SHALE, 90%, dark grey, sub fissile, micro micaceous, very calcareous.
SILTSTONE, 10%, as above.

TROUT RIVER 1940m

1940 – 1950m
SILTSTONE, 100%, medium-dark grey, moderately well consolidated, well sorted, sub angular, quartzose, very calcareous, carbonaceous and pyrobitumenous in part, slightly pyritic, no shows, tight.

1950 – 1955m
SILTSTONE, 100%, dark grey, as above, moderately calcareous, no shows, tight.

1955 – 1960m
SILTSTONE, 100%, as above.
SILTSTONE, trace, light grey, moderately well consolidated, well sorted, sub angular, quartzose, very calcareous and grading to very fine grained silty calcarenite, no shows, tight.

1960 – 1970m
SILTSTONE, 90%, dark grey, as above, trace brachiopod fossil fragments, no shows, tight.
SILTSTONE, 10%, light grey, as above.

1970 – 1975m
SILTSTONE, 100%, medium grey, moderately consolidated, well sorted, sub angular, quartzose, moderately argillaceous, very calcareous, pyrobitumenous and carbonaceous in part, no shows, tight.

1975 – 1980m
SILTSTONE, 100%, as above.
SHALE, trace, black, blocky, micro micaceous, carbonaceous, calcareous.

1980 – 1985m
SILTSTONE, 100%, medium grey, as above, no shows, tight.

1985 – 1990m
SHALE, 80%, medium grey, blocky, micro micaceous, silty, slightly calcareous.
SILTSTONE, 20%, as above.

1990 – 1995m
SILTSTONE, 100%, dark grey, as above, no shows, tight.

1995 – 2000m
SHALE, 95%, medium grey, blocky, micro micaceous, pyrite, slightly-moderately calcareous.
SILTSTONE, 5%, as above.

2000 – 2010m
SILTSTONE, 60%, as above.
LIMESTONE, 20%, light-medium grey, cryptocrystalline, chalky in part, silty in part, trace brachiopod fragments, no shows, tight.
SHALE, 20%, as above.

KAKISA 2014m

2010 – 2020m
LIMESTONE, 80%, light grey, cryptocrystalline, very chalky, as above, no shows, tight.
SILTSTONE, 10%, as above.
SHALE, 10%, as above.

2020 – 2030m
LIMESTONE, 100%, light-medium grey, cryptocrystalline, very chalky, rare pyrite, no stain, no fluorescence, no cut, no visible porosity.

FT. SIMPSON 2032m

2030 – 2035m
LIMESTONE, 70%, as above, occasionally argillaceous and very finely arenaceous, no shows, tight.
SHALE, 30%, medium grey, blocky, micro micaceous, calcareous.

2035 – 2045m
SHALE, 95%, as above.
LIMESTONE, 5%, light grey, as above, grading to very fine grained silty calcarenite.

2045 – 2050m
SHALE, 100%, medium grey, sub fissile, blocky, micro micaceous, moderately calcareous.
LIMESTONE, trace, as above.

2050 – 2055m
SHALE, 50%, as above.
SILTSTONE, 50%, light medium grey, moderately well consolidated, well sorted, sub angular, quartzose, chalky, very calcareous, no shows, tight.

2055 – 2060m
SHALE, 80%, as above, with occasional limy fossil laminae.
SILTSTONE, 20%, as above.

2060 – 2065m
SILTSTONE, 80%, light medium grey, as above, very limy in part, no shows, tight.
SHALE, 20%, as above.

2065 – 2070m
SILTSTONE, 100%, as above, slightly pyrobitumenous in part.

2070 – 2095m
SHALE, 100%, medium grey, sub fissile, micro micaceous, moderately calcareous.

2095 – 2135m
SHALE, 100%, medium grey, as above.

2135 – 2140m
SHALE, 70%, as above.
SHALE, 30%, dark brown, sub fissile, micro micaceous, slightly calcareous.

2140 – 2150m
SHALE, 100%, medium grey, as above.
SHALE, trace, dark brown, as above, silty in part.
SILTSTONE, trace, dark brown, moderately consolidated, well sorted, sub angular, quartzose, carbonaceous, pyritic, calcareous, argillaceous, no shows, tight.

2150 – 2155m
SHALE, 100%, medium grey, as above.

2155 – 2160m
SHALE, 90%, as above.
SILTSTONE, 10%, light medium grey, moderately consolidated, well sorted, sub angular, quartzose, calcareous cement, trace pyrite, no shows, tight.

2160 – 2170m
SHALE, 100%, medium-dark grey, sub fissile-blocky, micro micaceous, slightly calcareous, pyritic.
SILTSTONE, trace, dark brown, argillaceous as above, no shows, tight.

2170 – 2175m
SHALE, 100%, as above.
SHALE, trace, medium brown, sub fissile, silty in part, moderately calcareous.

2175 – 2180m
SHALE, 90%, dark grey, as above.
SHALE, 10%, medium brown, as above.

2180 – 2185m
SHALE, 95%, dark grey, as above.
SHALE, 5%, medium brown, as above.
LIMESTONE, trace, white, very fine-medium crystalline, no shows, tight.

2185 – 2190m
SHALE, 100%, dark grey, as above.
LIMESTONE, trace, as above.

2190 – 2215m
SHALE, 100%, dark grey, as above, moderately calcareous.

2215 – 2225m
SHALE, 100%, as above.
SHALE, trace, medium brown, as above, silty.

2225 - 2235m
SHALE, 100%, medium-dark grey, as above, slightly-moderately calcareous, occasional silty laminae.

2235 - 2245m
SHALE, 95%, as above.
SILTSTONE, 5%, light medium grey, moderately consolidated, well sorted, quartzose, sub angular, micro micaceous in part, argillaceous, calcareous, pyritic, no shows, tight.

2245 - 2250m
SILTSTONE, 50%, as above.
SHALE, 50%, as above.

2250 - 2260m
SHALE, 80%, as above.
SILTSTONE, 20%, as above.

2260 - 2265m
SHALE, 80%, as above.
SHALE, 10%, medium brown, blocky, occasionally sub fissile, calcareous.
SILTSTONE, 10%, as above.

2265 - 2270m
SHALE, 100%, medium grey, sub fissile-blocky, micro micaceous, slightly calcareous.

2270 - 2275m
SHALE, 100%, as above, moderately calcareous.

2275 - 2280m
SHALE, 95%, medium grey, as above.
SHALE, 5%, medium-dark brown, as above.

2280 - 2285m
SHALE, 100%, medium grey, as above, with silty laminae.

2285 - 2290m
SHALE, 80%, medium grey, as above.
SHALE, 20%, dark brown, sub fissile, micro micaceous, slight-moderately calcareous.

2290 - 2305m
SHALE, 100%, light medium grey, silty, blocky, pyritic, micro micaceous in part, grading to argillaceous siltstone, moderately calcareous.

2305 - 2310m
SHALE, 60%, light medium grey, as above, silty.
SHALE, 40%, dark brown, as above.

2310 - 2320m
SHALE, 100%, light medium grey, as above.

2320 - 2325m
SHALE, 100%, medium-dark grey, blocky, micro micaceous in part, slightly calcareous.

2325 - 2330m
SHALE, 80%, medium grey, as above.
SHALE, 20%, dark brown, as above.

2330 - 2385m
SHALE, 100%, medium grey, sub fissile-blocky, micro micaceous, silty laminae, slightly calcareous.

2385 - 2390m
SHALE, 100%, medium grey, as above.
SHALE, dark brown, as above.

2390 - 2395m
SHALE, 100%, medium grey, as above.

2395 - 2415m
SHALE, 100%, medium grey, blocky-sub fissile, slightly micro micaceous, slightly silty, slightly calcareous.

2415 - 2425m
SHALE, 100%, medium-dark grey, sub fissile, very micro micaceous, silty, slightly calcareous.

2425 - 2450m
SHALE, 100%, medium grey, blocky-sub fissile, micro micaceous, rare silty laminae and calcite laminae, slightly calcareous.

2450 - 2455m
SHALE, 100%, dark grey, as above, slightly-non calcareous.
SHALE, trace, dark brown, fissile, micro micaceous, very calcareous.

2455 - 2460m
SHALE, 100%, medium grey, as above, pyritic.

2460 - 2465m
SHALE, 100%, dark grey, as above.

2465 - 2470m
SHALE, 100%, medium-dark grey, as above, silty in part.

2470 - 2485m
SILTSTONE, 80%, medium grey, moderately well consolidated, well sorted, sub angular, quartzose, micro micaceous, very argillaceous, calcareous, no shows, tight.
SHALE, 20%, as above.

2485 - 2490m
SILTSTONE, 50%, as above.
SHALE, 50%, as above, silty in part.

2490 - 2505m
SHALE, 100%, medium-dark grey, silty, as above, slightly calcareous.

2505 - 2515m
SHALE, 100%, as above, pyritic, trace dark grey-black, cherty, slightly limy laminae.

2515 - 2520m
SHALE, 100%, as above.

2520 - 2525m
SHALE, 100%, dark grey, sub fissile, micro micaceous, non-very slightly calcareous.
SILTSTONE, trace, dark grey-black, very well consolidated, well sorted, sub angular, quartzose, cherty, pyrobitumenous, calcareous, siliceous cement, no shows, tight.

2525 - 2530m
SHALE, 98%, as above.
SILTSTONE, 2%, as above.

2530 - 2545m
SHALE, 100%, as above.

2545 - 2550m
SHALE, 90%, as above.
SILTSTONE, 10%, as above.

2550 - 2565m
SHALE, 100%, as above, trace pyrite.
SILTSTONE, trace, as above.

2565 - 2575m
SHALE, 100%, dark grey-very dark grey, sub fissile, micro micaceous, non calcareous, trace pyrite.
SILTSTONE, trace, as above.

2575 - 2585m
SHALE, 100%, as above.

2585 - 2590m
SHALE, 100%, as above, with trace white, finely crystalline, calcite.

MUSKWA 2590m

2590 - 2595m
SHALE, 70%, black, sub fissile, micro micaceous, carbonaceous, trace pyrite, non-very slightly calcareous.
SHALE, 30%, dark grey, as above.

2595 - 2600m
SHALE, 90%, black, sub fissile, very carbonaceous, non-very slightly calcareous.
SHALE, 10%, as above.

2600 - 2605m
SHALE, 100%, black, as above, with abundant pyrite (5%).

SLAVE POINT 2607m

2605 - 2610m
LIMESTONE, 90%, medium-dark grey, occasionally dark brown, mottled light grey in part, calcilutite, micritic in part, occasionally cherty, pyritic in part, very argillaceous in part, rare trace chalk, rare sparry calcite fracture filling and nodules, rare brachiopods and amphipora (?) fragments, rarely pellitoidal, trace calcite crystal vug linings, no stain, no fluorescence, no cut, no

observable porosity.
SHALE, 10%, as above.

2610 - 2612m
LIMESTONE, 100%, as above, no stain, no fluorescence, no cut, no observable porosity.

CORE #1 2610.2 - 2628.2m

2628.2 - 2635m
LIMESTONE, 80%, dark grey-dark grey brown, calcilutite-micro crystalline with medium brown micro-very finely crystalline sparry calcite, very argillaceous and carbonaceous, trace white sparry calcite filled fractures, trace AMPHIPORA, no stain, no fluorescence, no cut, no visible porosity.
LIMESTONE, 20%, light medium grey, micro-very finely crystalline, slightly carbonaceous, no shows, tight.

2635 - 2645m
LIMESTONE, 80%, dark grey, as above.
LIMESTONE, 20%, light medium grey, as above.

2645 - 2650m
LIMESTONE, 90%, dark grey, as above.
LIMESTONE, 10%, light medium grey, as above, chalky.
LIMESTONE, trace, medium brown, cryptocrystalline, no shows, tight.

2650 - 2655m
LIMESTONE, 90%, dark grey, light medium grey and chalky in part.
LIMESTONE, 10%, medium brown, as above.

2655 - 2665m
LIMESTONE, 60%, dark grey, as above.
LIMESTONE, 30%, medium brown, as above, chalky in part.
LIMESTONE, 10%, light medium grey, micro crystalline, as above, very chalky, no shows, tight.

2665 - 2670m
LIMESTONE, 80%, medium brown, as above, chalky, tight.
LIMESTONE, 20%, dark grey, as above, chalky.

2670 - 2675m
LIMESTONE, 100%, medium brown, cryptocrystalline, chalky in part, trace pyrite, rare anhydrite, no stain, no fluorescence, no cut, no visible porosity.

2675 - 2680m
LIMESTONE, 90%, medium brown, trace calcite fracture filling, as above, becoming light grey and increasingly chalky, no shows, tight.
LIMESTONE, 10%, dark grey, cryptocrystalline -calcilutite, slightly chalky, trace pyrite, argillaceous and carbonaceous, no shows, no visible porosity.

2680 - 2690m

WATT MOUNTAIN 2691m

LIMESTONE, 90%, medium brown, cryptocrystalline, as above, occasionally chalky laminae, trace styolites, trace pyrobitumen, tight.
LIMESTONE, 10%, dark grey, as above.

SULPHUR POINT 2693m

2690 - 2695m
LIMESTONE, 70%, medium brown, as above.
LIMESTONE, 30%, light grey, micro crystalline, chalky, trace pyrobitumen and carbonaceous laminae, tight.

2695 - 2700m
LIMESTONE, 60%, light grey, mottled, micro crystalline, occasionally very finely crystalline, trace pyrobitumen, chalky, no stain, no fluorescence, no cut, no visible porosity.
LIMESTONE, 35%, dark grey, micro crystalline, slightly carbonaceous, no stain, no fluorescence, no cut, no visible porosity.
LIMESTONE, 5%, medium brown, cryptocrystalline, clean, no shows, tight.

2700 - 2705m
LIMESTONE, 60%, light grey, as above.
LIMESTONE, 30%, medium brown, cryptocrystalline, as above, no shows, tight.
LIMESTONE, 10%, dark grey, as above.

2705 - 2715m
LIMESTONE, 60%, light grey-light medium grey, as above, no shows, tight.
LIMESTONE, 40%, dark grey, cryptocrystalline with micro crystalline sparry calcite, argillaceous, carbonaceous, no shows, tight.

2715 - 2725m
LIMESTONE, 80%, dark grey, cryptocrystalline with medium brown micro crystalline sparry calcite, slightly carbonaceous, no stain, no fluorescence, no cut, no visible porosity.
LIMESTONE, 20%, light-light medium grey, as above, dolomitic in part.

2725 - 2735m
LIMESTONE, 50%, dark grey, as above, tight.
LIMESTONE, 50%, light grey-light medium grey, slightly dolomitic in part, as above, tight.

2735 - 2745m
LIMESTONE, 50%, dark grey, dark brown in part, cryptocrystalline with light brown micro crystalline-very finely crystalline sparry calcite, argillaceous, slightly carbonaceous and pyrobitumenous, trace quartz nodules, no stain, no fluorescence, no cut, no visible porosity.
LIMESTONE, 50%, light grey, micro crystalline-very finely crystalline, trace quartz and calcite nodules, slightly chalky, no stain, no fluorescence, no cut, no visible porosity.

2745 - 2760m
LIMESTONE, 85%, dark grey, as above, with occasional very fine dolomite crystals, micro crystalline in part, no shows, tight.
LIMESTONE, 15%, light grey, as above.

2760 - 2765m
LIMESTONE, 85%, dark grey, as above.
LIMESTONE, 10%, light medium grey, as above.
LIMESTONE, 5%, medium brown, cryptocrystalline, as above, tight.

2765 - 2770m
LIMESTONE, 90%, medium brown, cryptocrystalline, occasionally light brown and very

finely crystalline, trace stylolites.
LIMESTONE, 10%, light grey, as above.

2770 - 2775m
LIMESTONE, 90%, medium brown, as above, increasingly chalky.
LIMESTONE, 10%, light grey, as above.

MUSKEG 2775m

2775 - 2780m
DOLOMITE, 100%, white, medium-coarsly crystalline, scattered pyrobitumenous and carbonaceous material, no live stain, no fluorescence, no cut, no observable porosity.

2780 - 2785m
DOLOMITE, 100%, white, as above, occasionally very coarsly crystalline, trace clear silica, no live stain, no fluorescence, no cut, trace intercrystalline porosity.

2785 - 2790m
DOLOMITE, 100%, white, as above, trace pyrite, increasingly black, dolomitic, carbonaceous material.

2790 - 2795m
DOLOMITE, 100%, white, light grey brown, in part, as above, no shows, no observable porosity.

KEG RIVER 2795m

2795 - 2800m
DOLOMITE, 70%, light grey brown, finely crystalline, abundant dolomite rhombohedra, trace pyrite, pyrobitumenous in part, no stain, no fluorescence, no cut, trace intercrystalline porosity.
DOLOMITE, 30%, white, as above.

2800 - 2805m
DOLOMITE, 50%, white, as above, no shows, trace intercrystalline porosity.
DOLOMITE, 50%, light grey brown, as above.

2805 - 2810m
DOLOMITE, 70%, light medium brown, as above.
DOLOMITE, 30%, white, as above.

2810 - 2815m
DOLOMITE, 100%, medium grey brown, finely crystalline, pyrobitumenous, slightly carbonaceous, no stain, no fluorescence, no cut, no visible porosity.

2815 - 2820m
DOLOMITE, 100%, medium grey brown-dark grey, finely-very finely crystalline, slightly argillaceous, pyrobitumenous infilling, no shows, no visible porosity.

2820 - 2825m
DOLOMITE, 100%, medium grey brown, finely crystalline with pyrobitumen infilling, no shows, no observable porosity.

2825 - 2835m
DOLOMITE, 100%, medium grey brown- dark grey, increasingly pyrobitumenous and carbonaceous in part, finely crystalline with purobitumen infilling, trace clear silica, no shows, rare trace intercrystalline porosity.

2835 - 2850m
DOLOMITE, 100%, medium brown, dark grey in part, micro crystalline-very finely crystalline, as above, no shows, rare trace intercrystalline porosity.

2850 - 2855m
DOLOMITE, 100%, medium brown, cryptocrystalline-micro crystalline, very finely crystalline in part, as above, no shows, tight.

2855 - 2865m
DOLOMITE, 100%, medium brown-dark grey brown, argillaceous in part, as above, no shows, tight.

2865 - 2870m
DOLOMITE, 100%, medium brown, cryptocrystalline, clear, no shows, tight.

2870 - 2875m
DOLOMITE, 100%, light brown, occasionally dark grey and carbonaceous, micro crystalline-cryptocrystalline, trace sparry calcite fracture filling, no shows, tight.

2875 - 2890m
DOLOMITE, 100%, light brown, cryptocrystalline-micro crystalline, as above, with occasional silica nodules, with trace pyrite, no shows, tight.

2890 - 2900m
DOLOMITE, 100%, light brown, as above, trace dark grey, calcareous and bitumenous, no shows, no observable porosity.

2900 - 2905m
DOLOMITE, 100%, light brown, cryptocrystalline-micro crystalline, clean, no stain, no fluorescence, no cut, rare vug(?) linings with white, dolomitic rhombs.

2905 - 2910m
DOLOMITE, 100%, light medium brown, as above, with dark grey, micro crystalline, carbonaceous laminae in part, trace white dolomitic fracture filling, no shows, no visible porosity.

2910 - 2925m
DOLOMITE, 100%, light brown-light medium brown, as above, trace clear silica nodules, no shows, no visible porosity.

2925 - 2930m
DOLOMITE, 100%, as above, with trace pyrite.

2930 - 2940m
DOLOMITE, 100%, light medium brown, micro crystalline, occasionally cryptocrystalline, dark grey, argillaceous and carbonaceous in part, no shows, no visible porosity.

2940 - 2950m
DOLOMITE, 100%, light medium brown, micro crystalline-cryptocrystalline, trace white dolomitic fracture filling, as above, no shows, no visible porosity.

2950 - 2960m
DOLOMITE, 100%, medium brown, rarely dark grey, pyrobitumenous and limy in part,

micro crystalline, trace pyrite, trace white dolomitic fracture filling and possible vug linings with pyrobitumen infilling, no stain, no fluorescence, no cut, no visible porosity.

2960 - 2965m
DOLOMITE, 70%, light medium brown, as above.
DOLOMITE, 30%, dark grey, micro crystalline, pyrobitumenous, trace pyrite, trace white dolomitic nodules and fracture fillings, no shows, tight.

2965 - 2970m
DOLOMITE, 100%, light medium brown, micro crystalline, cryptocrystalline in part, trace white dolomitic fracture filling, no shows, no visible porosity.

2970 - 2975m
DOLOMITE, 90%, light medium brown, as above.
DOLOMITE, 10%, dark grey, as above, with occasional coarse dolomite crystal nodules with trace intercrystalline porosity, otherwise no visible porosity.

2975 - 2990m
DOLOMITE, 100%, light medium brown-medium brown, micro crystalline, as above, with abundant medium-coarse dolomite crystals as nodules and fracture fillings.

2990 - 2995m
DOLOMITE, 100%, light medium brown, occasionally dark grey and pyrobitumenous, cryptocrystalline-micro crystalline, arenitic in part, sub angular, medium, clear quartz grains, no shows, no visible porosity.

2995 - 3005m
DOLOMITE, 100%, light brown, as above.
SANDSTONE, trace, light grey, fine-medium grained, coarse grained in part, well consolidated, moderately well sorted, sub angular, clear quartz, dolomitic cement, grading to arenitic dolomite, trace pyrite, no stain, no fluorescence, no cut, no visible porosity.

3005 - 3010m
DOLOMITE, 95%, light grey-light medium grey, light brown in part, finely-medium arenitic in part, as above, no shows, no visible porosity.
SANDSTONE, 5%, light grey, occasionally light medium grey, as above, abundant dolomitic cement, pyritic, no shows, no visible porosity.

STONE 3010m

3010 - 3020m
DOLOMITE, 60%, light-light medium grey, as above, fine-medium arenitic, no shows, no visible porosity.
SANDSTONE, 40%, light grey, fine-medium grained, moderately well consolidated, abundant loose grains in sample, moderately well sorted, sub angular, frosted and clear quartz, abundant dolomite cement, pyritic, white dolomite laminae in part, no stain, no fluorescence, no cut, no observable porosity.

3020 - 3025m
DOLOMITE, 100%, light grey-light medium brown, micro crystalline, as above, no shows, no visible porosity.

3025 - 3035m
DOLOMITE, 100%, light grey-light medium grey, micro crystalline, finely arenitic

in part, occasionally very coarse, white crystalline dolomite, trace pyrite, no shows, no visible porosity.
SANDSTONE, trace, as above.

3035 - 3040m
DOLOMITE, 100%, as above, micro crystalline-very finely crystalline, finely arenitic in part, no shows, no observable porosity.

3040 - 3055m
DOLOMITE, 95%, light grey-light medium grey, as above, finely arenitic, no shows, trace intercrystalline porosity.
SANDSTONE, 5%, light grey, fine grained, moderately well consolidated, well sorted, sub angular, quartzose, dolomitic cement, no shows, no visible porosity, grading to arenitic dolomite in part.

3055 - 3060m
DOLOMITE, 95%, light grey, as above, no shows, no visible porosity.
SANDSTONE, 5%, light grey, very fine-fine grained, as above, no shows, no visible porosity.

3060 - 3065m
DOLOMITE, 95%, micro crystalline-very finely crystalline, trace intercrystalline porosity, rare trace quartz crystal vug linings.
SANDSTONE, trace, dark grey, very fine grained, moderately well consolidated, well sorted, sub angular-angular, quartzose, argillaceous, very dolomitic, no shows, tight.
SANDSTONE, 5%, light grey, as above.

3065 - 3070m
DOLOMITE, 90%, light medium grey, micro crystalline-very finely crystalline, as above, very light grey and micro crystalline in part, finely arenitic, no shows, no visible porosity.
SANDSTONE, 10%, light grey, medium grey in part, fine grained, medium grained in part, moderately well consolidated, well sorted, sub angular, quartzose, dolomitic cement, argillaceous where medium grey, no shows, no visible porosity.

3070 - 3075m
DOLOMITE, 85%, as above, grading to arenite in part, no shows, no visible porosity.
SANDSTONE, 15%, light grey, as above.

3075 - 3080m
DOLOMITE, 90%, as above, with trace intercrystalline porosity.
SANDSTONE, 10%, as above, fine-medium grained, no shows, no visible porosity.
DOLOMITE, trace, medium grey brown, cryptocrystalline, no shows, tight.

3080 - 3082m
DOLOMITE, 90%, light grey, micro-very finely crystalline, as above, no shows, trace intercrystalline porosity.
DOLOMITE, 5%, medium grey brown, cryptocrystalline, as above, no shows, tight.
SANDSTONE, 5%, as above.

TOTAL DEPTH DRILLER 3082m
LOGGER 3082m

III. ENGINEERING SUMMARY

a) Report of Drillstem Tests

DST No. 1: 80-03-23 - Interval tested 2610-2650 m KB in the Slave Point formation. Used 610 m of water cushion. No air blow either on initial or final flow. Recovered 490 m of water cushion and 20 m of muddy water.

initial hydrostatic	30768 kPa	
initial flow	7365/8234 kPa	30 mins
initial shut-in	14658 kPa	60 mins
final flow	7438/7021 kPa	20 mins
final shut-in	10297 kPa	60 mins
final hydrostatic	30141 kPa	

DST No. 2: 80-03-24 - Interval tested 1778-1808 m KB in the Kotcho formation. Test was a misrun as a result of plugged tool.

DST No. 3: 80-03-25 - Interval tested 1778-1808 m KB in the Kotcho formation. Fair air blow on initial flow increasing to strong in 2 minutes. Fair air blow on final flow remaining steady throughout. No gas to surface. Did not recover fluid sample. Opened pump out sub to circulate gas cut mud from annulus while pulling tools out of the hole.

initial hydrostatic	23144 kPa	
initial flow	942/681 kPa	30 mins
initial shut-in	742 kPa	60 mins
final flow	621/541 kPa	30 mins
final shut-in	561 kPa	60 mins
final hydrostatic	20725 kPa	

b) Casing Record

Surface Casing: Ran 35 joints of 339.7 mm 81.1 Kg/m J55 Buttress ST&C casing. Landed with shoe at 400 m KB. Cemented by Halliburton with 38.3 tonnes of neat class G (slurry volume 29.3 m^3) and 12.5 tonnes tail-in of class G with 2% $CaCl_2$ (slurry volume 9.5 m^3). Displaced with 31.39 m^3 of water. Had approximately 15 m^3 of cement returns to surface. Plug on bottom at 14:25 hr, 80-01-29. Bumped plug with 10 000 kPa. Attempted to bleed off pressure but float would not hold. Held pressure with valve until seal on union washed out. Maintained constant pressure of 7500 kPa with pump at slow speed for one and one-half hours until cement had set. Released pressure. Cement held up okay.

Intermediate Casing: Ran a total of 137 joints of 244.5 mm 8 rd LT&C casing, including 9 joints of 59.52 Kg/m MN80, 39 joints of 59.52 Kg/m K55 and 89 joints of 53.57 Kg/m K55. Landed with shoe at 1564 m KB and float collar at 1555 m KB. Cemented by Haliiburton with 13.64 tonnes of 1-1 class G and Pozzolan with 2% gel and 0.5% CFR-2, (slurry volume 14.7 m^3). Displaced with 62.6 m^3 of mud. Good returns throughout. Plug on bottom 0200 hr, 80-02-20. Bumped plug with 6500 kPa and bled pressure off to zero. Float held okay.

c) Bit Record - Texaco Mobil Bovie Lake M-78

Bit No.	Size mm	Type	Nozzles	WOB 1000 daN	RPM	Depth Out	Meters Drilled	Hours	Accum Hours	m/hr	Cond T-B-G
1A	311	S13G	1 x 9.5,2 x 12.7	1/2	40	41	41	3 1/4			
2A	216	J3	3 x 9.5	2/4	70/140	80	39	5 1/2			8-3-13 mm
1ARR	311	S13G	3 x 14.3	2/6	60/80	80	reaming boulders				4-2-1
3A	311	X1G	3 x 14.3	4	130	119	39	9 1/4			4-2-1
4A	311	DTJ	3 x 14.3	4/9	130	241	122	18 1/2			2-2-1
5A	311	DTJ	1 x 14.3,2 x 15.9	4/6	150	400	159	43			4-3-1
6A	445	Reamer		6/10	150	214	ream pilot hole				4-4-1
7A	445	Reamer		6/12	150	400	ream pilot hole				
1	311	DTJ	2 x 10.3,1 x 14.3	1/4	40/120	461	61	10 3/4	10 3/4	5.7	4-6-1
2	311	FP51	1 x 11.1,2 x 12.7	16/20	60/80	782	321	113 1/4	124	2.8	5-8-1
3	311	FP52	1 x 11.1,2 x 12.7	14/20	50/80	1141	359	80 3/4	204 3/4	4.4	2-2-1
4	311	S33	1 x 11.1,2 x 12.7	16/18	110	1444	303	51 3/4	256 1/2	5.8	3-3-1
5	311	OSC3J	1 x 11.1,2 x 12.7	14/18	110	1564	120	23 1/2	280	5.1	5-6-1
6	216	J3	3 x 7.9	14	110	1824	260	57 3/4	337 3/4	4.5	2-2-1
7	216	J22	2 x 10.3,1 x 15.9	17/18	90/120	1881	57	28 3/4	366 1/2	2.0	2-3-1
8	216	S44	3 x 7.9	18/20	80/105	1996	115	37 1/4	403 3/4	3.1	6-4-1
9	216	FP52	3 x 7.9	18	80	2050	54	29 1/2	433 1/4	1.8	2-2-1
10	216	J3	3 x 7.9	18/20	90/120	2227	177	58 1/4	491 1/2	3.0	2-2-1
11	216	J3	3 x 7.9	20	120	2327	100	28	519 1/2	3.6	4-8-1
12	216	J3	3 x 7.9	20	90	2515	188	62 1/2	582	3.0	3-5-1
13	216	J3	3 x 7.9	20	90	2610	95	37	619	2.6	5-4-1
1C	215.1	Diamond C-20		11	60	2628	18	15 3/4	634 3/4	1.1	
14	216	F-2	2 x 7.9,1 x 8.7	12/18	60/80	2955	327	73	707 3/4	4.5	8-5-6 mm
15	216	S86F	2 x 7.9,1 x 8.7	18/20	50/60	3082	127	40 1/2	748 1/4	3.1	8-8-13 mm

d) Mud Report (Additives used)

Material	Surface Hole	Intermediate Hole	Main Hole	Total
Mil-Bar (barite)		5 080 Kg	48 126 Kg	53 206 Kg
Milgel (bentonite)	20 185 Kg	19 323 Kg	6 713 Kg	46 221 Kg
Mil-Polymer 303		68 Kg	23 Kg	91 Kg
Bicarbonate of Soda		45 Kg		45 Kg
Caustic Soda	450 Kg	1 000 Kg	1 975 Kg	3 425 Kg
KCl		26 200 Kg	38 575 Kg	64 775 Kg
Lime	40 Kg			40 Kg
Mil-Gard (sulfide scavenger)			1 542 Kg	1 542 Kg
Mil S.O.S.		1 400 ℓ	1 000 ℓ	2 400 ℓ
Noxygen (sodium sulphite)		1 500 Kg	4 000 Kg	5 500 Kg
Noxygen L (oxygen scavenger)			260 ℓ	260 ℓ
Scale Ban (scale inhibitor)		223 ℓ	746 ℓ	969 ℓ
Soda Ash	182 Kg	45 Kg		227 Kg
Staflo (polyanionic cellulose)			725 Kg	725 Kg
XC Polymer		45 Kg	794 Kg	839 Kg

e) Deviation Record

Depth m KB	Deviation Degrees	Depth m KB	Deviation Degrees	Depth m KB	Deviation Degrees
31	1 1/4	297	1 3/4	1028	2 1/8
41	1 1/2	309	1 1/2	1078	2 1/4
52	1	327	7/8	1135	2
61	7/8	345	1 1/2	1183	2 1/4
70	1 1/4	364	3/4	1279	1 3/4
72	1 1/4	385	1	1444	1 1/2
91	1	395	1	1555	1
100	1	451	1 3/4	1709	1
110	1	461	1 5/8	1824	2
127	1 1/2	479	1 1/2	1881	1 1/2
137	3/4	508	2	1996	1 1/2
146	1	536	1 3/4	2170	1 1/2
155	1 1/2	556	1 3/4	2227	1
176	1	584	1 1/4	2327	1 1/4
185	1	613	1 1/2	2515	1 1/4
202	1	642	2	2610	1 7/8
220	7/8	690	1 7/8	2761	Misrun
232	1	746	2	2761	2 (Re-run)
241	1	782	1 3/4	2771	1
251	1	831	2 1/4	2793	2 1/4
261	1 1/4	878	2	2955	1/2
278	1 3/4	923	2 1/4	3078	Misrun
287	1 3/4	972	1 7/8		

f) Abandonment Plugs

Plug No. 1: 2982-3082 m KB. Cemented with 3 tonnes of 2-1 pozzolan and class G with 8% gel and 0.5% HR-7, (slurry volume 4.56 m^3, density 1420 Kg/m^3). Displaced with 21.23 m^3. Plug in place at 0230 hr. Did not feel.

Plug No. 2: 1545-1860 m KB. First stage 1705-1860 m KB. Cemented with 6 tonnes of 1-1 pozzolan and class G with 2% gel and 0.3% HR-4, (slurry volume 6.48 m^3, density 1590 Kg/m^3). Displaced with 11.85 m^3. Plug in place at 0500 hr. Did not feel.

Second stage 1545-1705 m KB. Cemented with 6 tonnes of 1-1 pozzolan and class G with 2% gel and 0.3% HR-4, (slurry volume 6.48 m^3, density 1590 Kg/m3). Displaced with 10.77 m^3. Plug in place at 0830. WOC 7 hours. Felt top of cement at 1528 m KB.

g) Lost Circulation Zones

At 1780-85 m KB (Kotcho formation), approximately 6-7 m^3 of mud was lost to the formation. Mixed 25 sacks of sawdust. Pit volume stabilized. Drilling was resumed.

h) Report of Blowouts

No blowouts occurred.

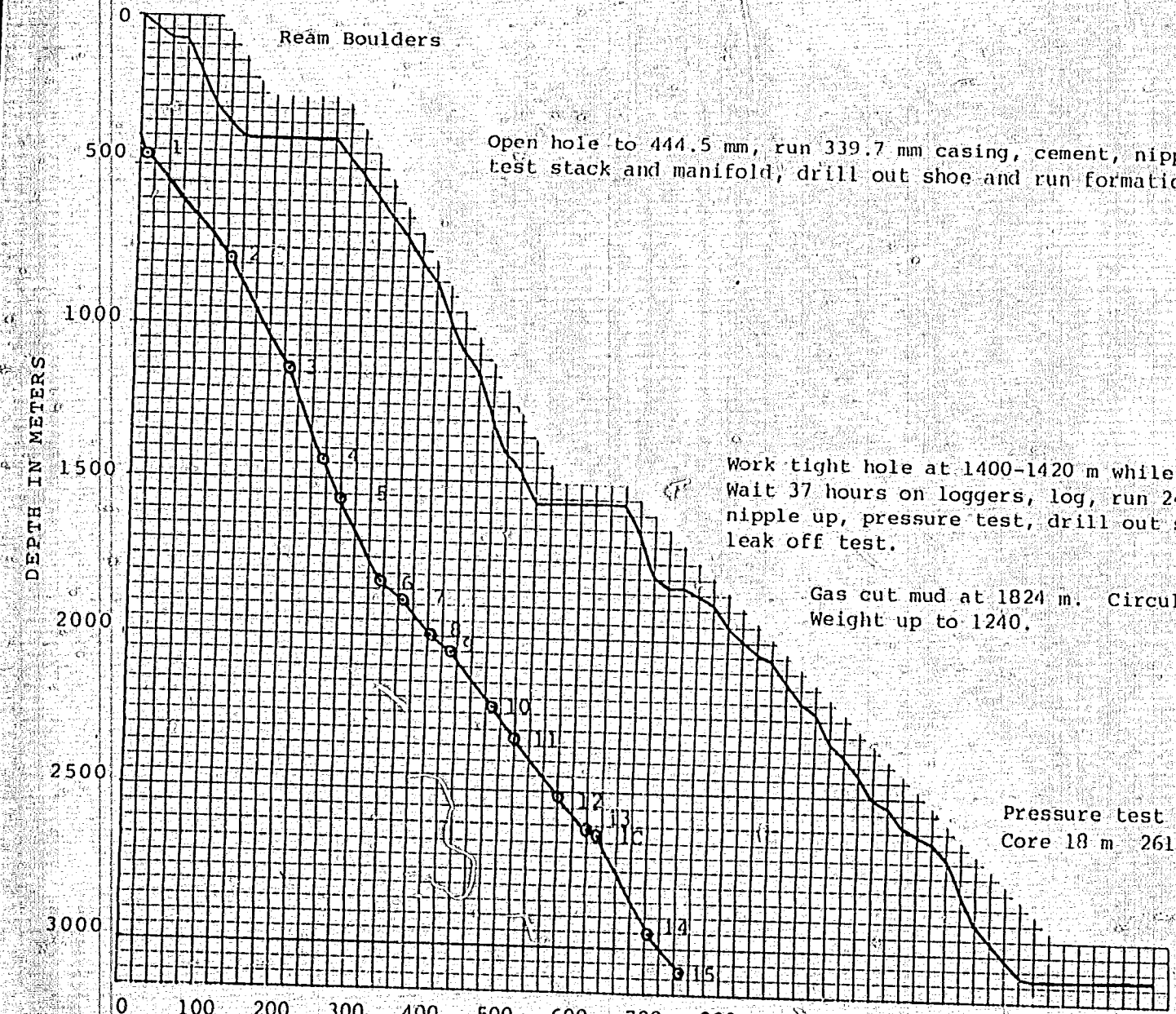
i) Abnormal Pressure

While drilling at 1824 m KB (Kotcho formation), it was found that the mud volume had increased by 10 m^3. Mud was gas cut from 1180 Kg/m^3 at the suction to 1090 Kg/m^3 at the flowline. Stopped drilling and began mixing barite, running the mud from the flowline through the degasser. After circulating for 23 hours, weight at suction had increased to 1240 Kg/m^3, but the mud at the flowline was still very gassy. Circulated through the choke with 2500 kPa back pressure. Mud density at flowline was 1070 Kg/m^3, while density at suction was 1240 Kg/m^3. Increased back pressure on choke to 4000 kPa. Mud density at flowline increased to 1095 after two circulations and to 1120 Kg/m^3 after the third circulation. Shut well in and recorded zero pressure on annulus and drill pipe after one hour. Circulated for additional two hours and tripped for bit. Hole took correct amount of fluid, 9 m^3. Resumed drilling.

IV. SUMMARY OF LOGS

Run No.	Date	Interval	Type
1	80-02-18	1559-390	Borehole Compensated Sonic-Gamma Ray-Caliper
1	80-02-18	1555-400	Dual Laterolog-Gamma Ray-Spontaneous Potential
1	80-02-18	1559-400	Compensated Neutron-Formation Density-Gamma Ray-Caliper
1	80-02-18	1560-1400 550-400	Microlog-Caliper
2	80-03-20	3081-1520	Borehole Compensated Sonic-Gamma Ray-Caliper
2	80-03-20	3068-1520	Dual Laterolog-Gamma Ray-Spontaneous Potential
2	80-03-20	3081-1520	Compensated Neutron-Formation Density-Gamma Ray-Caliper
2	80-03-20	3082-2600 2050-1900	Microlog-Caliper
2	80-03-21	3083-1560	Dipmeter

DRILLING TIME CURVE - TEXACO MOBIL BOVIE LAKE M-78



LYNES UNITED SERVICES LTD.

DRILLSTEM TEST SUMMARY REPORT

Date: 80 03 23

Well name: TEXACO MOBIL BOVIE LAKE M-78
Location: 400/ 60-17C / 122-59C /00
Licence no. 03480
Ticket no. 40786

DST number 001 LYNES test #1 Test number 1 of 1 (on same trip)
Test type: INFLATE STRADDLE

Kelly bushing (M): 397.58
Interval from (M): 2610.00
to (M): 2650.00
Ground elevation (M): 389.58
Total depth (M): 3080.00

Formation: SLAVE POINT

TIME AND PRESSURE DATA

Recorder #015835

	TIMES (min)	PRESSURES (kPa)		TIMES (min)	PRESSURES (kPa)
		7365.0			7438.0
1st flow	30.	8234.0	2nd flow	20.	7021.0
1st shutin	60.	14658.0	2nd shutin	60.	10297.0
3rd flow			4th flow		
3rd shutin			4th shutin		
Initial hycrostatic		30768.0	Final hycrostatic		30141.0

GENERAL REMARKS

Test results incicate a mechanically successful test; shape of shut-in curves suggests VERY LOW PERMEABILITY within the interval tested.

LYNES UNITED SERVICES LTD.

TEST RECOVERY DATA

Flow description:

blow on preflow. No blow on valve opening.

GAS MEASUREMENTS: Measured with: NO GAS-INSYR AVAILABLE

Riser (mm):

TIME (min)	SURF. CHOKE (mm)	READING (kPa)	CUBIC METRES/D

NO GAS MEASUREMENTS

Liquid recovery: For DST# 1 through DST# 1

Amount (M) Of

490.00 WATER AND INHIBITOR.
20.00 MUDDY WATER.

Total recovery (M): 510.00

Reversed out: NO Salinity (g/MS):

Bottom hole sampler# 52
Sent to:

Gas bomb#
Sent to:

No. of fluid samples: 3
Sent to: C & G

GENERAL DATA

Inhibitor : Inhibitor amount (M):

Cushion type: WATER Liquid amount (M): 610.00
Gas pressure (kPa):

Started in hole: 130.00 Hrs.
Opened tool at: 745.00 Hrs.

MUD AND HOLE DATA

Hole condition @ test time: GOOD
Conditioned prior to test: YES

Calipered hole size @ test depth (mm) 218.0

Mud type: KCL
Viscosity (sec/l): 66.0
Filter cake (mm): 1.6
Mud weight (kg/M3): 1205.00
Water loss (cm3): 3.6
Log temperature (C): 80.0
Recorder temperature (C): 77.9

Pipe size (mm)	Type	Weight (kg/M)
114.0	EXTRA HOLE	24.05

Collar size (mm)	Type	Int. diameter (mm)	Length (M)
127.0	H90	69.9	168.64

BTM choke size (mm): 25.4
Rat hole size (mm): Rat hole length (M):
Main hole size (mm): 216.0

Total number of packers run: 2

Mailing Data

Company: TEXACO CANADA RESOURCES LTD.
Address: 600 - 6TH AVE. S.W.
CALGARY, ALBERTA Reports sent to: ERIC LLOYD

Number of Reports: 7

LYNES UNITED SERVICES LTD.

RECORDER PAGE

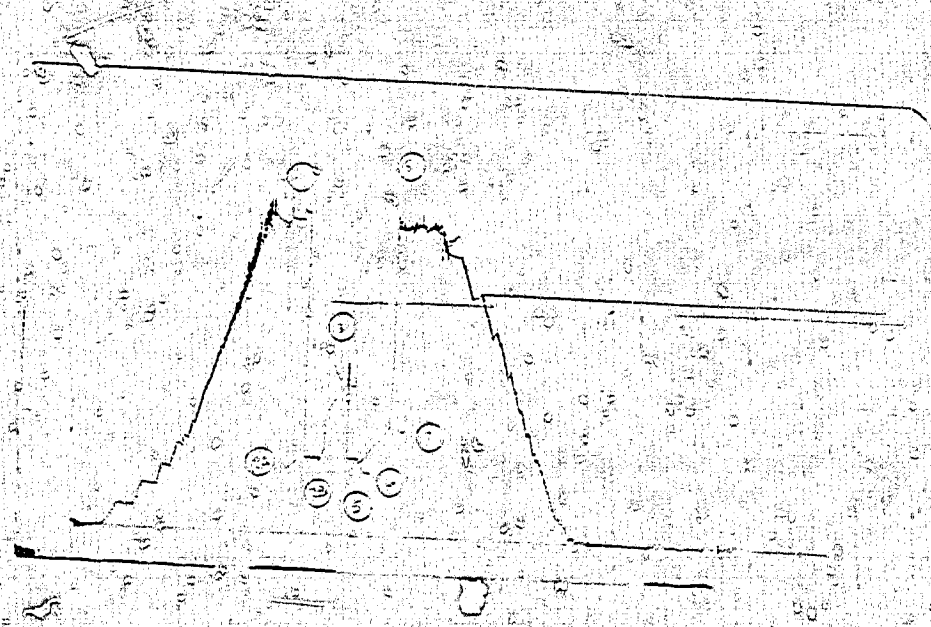
WELL NAME : TEXACO MOBIL SOVIE LAKE M-78
LOCATION : 400/ 60.170 / 122.390 /00
DST NUMBER : 001

RECORDER NUMBER: 015835
DEPTH : 2611.00 m
CAPACITY : 42058.00 kPa
TYPE: K-3
INSIDE/OUTSIDE: OUTSIDE

	TIMES (MIN)	PRESSURES (kPa)
		7365.00
1ST. FLOW	30.	8234.00
SHUTIN	60.	14558.00
		7438.00
2ND. FLOW	20.	7021.00
SHUTIN	60.	10297.00

INITIAL HYDROSTATIC: 30768.0

FINAL HYDROSTATIC: 30141.0



LYNES UNITED SERVICES LTD.

RECORDER PAGE

****

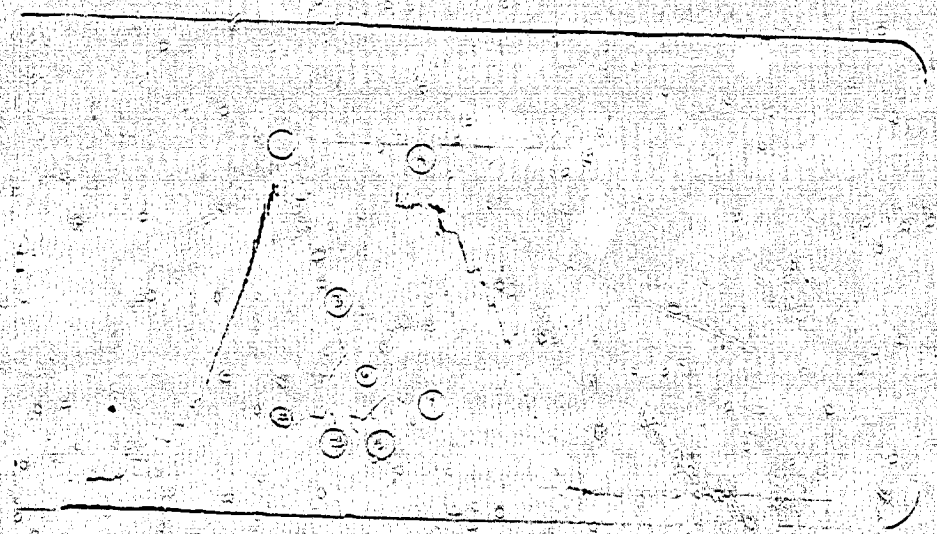
WELL NAME : TEXACO MOBIL BOVIE LAKE H-78
LOCATION : 400/ 60.170 / 122.590 /00
DST NUMBER : 001

RECORDER NUMBER: 008952
DEPTH : 2611.00 m
CAPACITY : 48260.00 kPa

TYPE: K-3
INSIDE/OUTSIDE: OUTSIDE

	TIMES (MIN)	PRESSURES (kPa)
1ST. FLOW		7676.00
SHUTIN	30.	8177.00
	60.	14631.00
2ND. FLOW		7777.00
SHUTIN	20.	7316.00
	60.	10302.00

INITIAL HYDROSTATIC: 31246.0 FINAL HYDROSTATIC: 30605.0



LYNES UNITED SERVICES LTD.

RECORDER PAGE

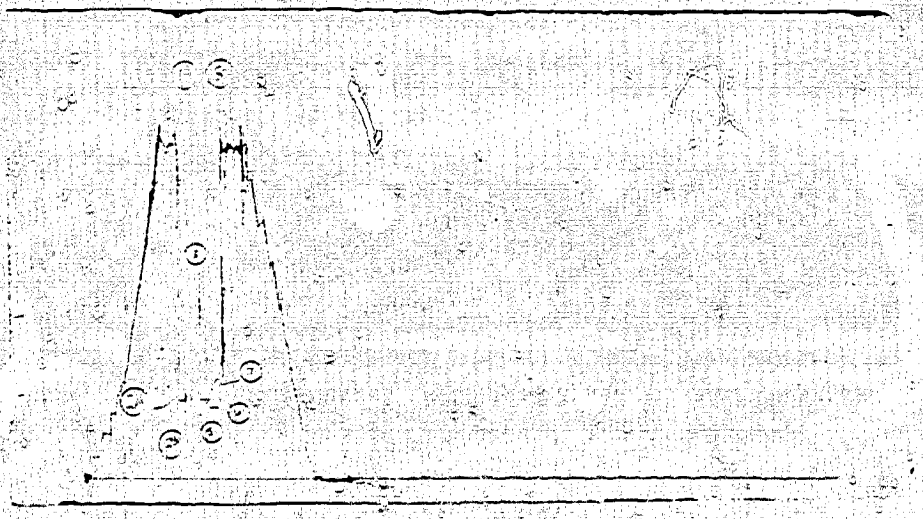
****

WELL NAME : TEXACO MOBIL BOVIS LAKE M-78
LOCATION : 400/ 60.170 / 122.590 /00
DST NUMBER : 001

RECORDER NUMBER: 008556 TYPE: K-3
DEPTH : 2601.00 m INSIDE/OUTSIDE: INSIDE
CAPACITY : 41023.00 kPa

	TIMES (MIN)	PRESSURES (kPa)
		7296.00
1ST. FLOW	30.	8116.00
SHUTIN	60.	14461.00
		7430.00
2ND. FLOW	20.	6962.00
SHUTIN	60.	10141.00

INITIAL HYDROSTATIC: 30804.0 FINAL HYDROSTATIC: 30275.0



LYNES UNITED SERVICES LTD.

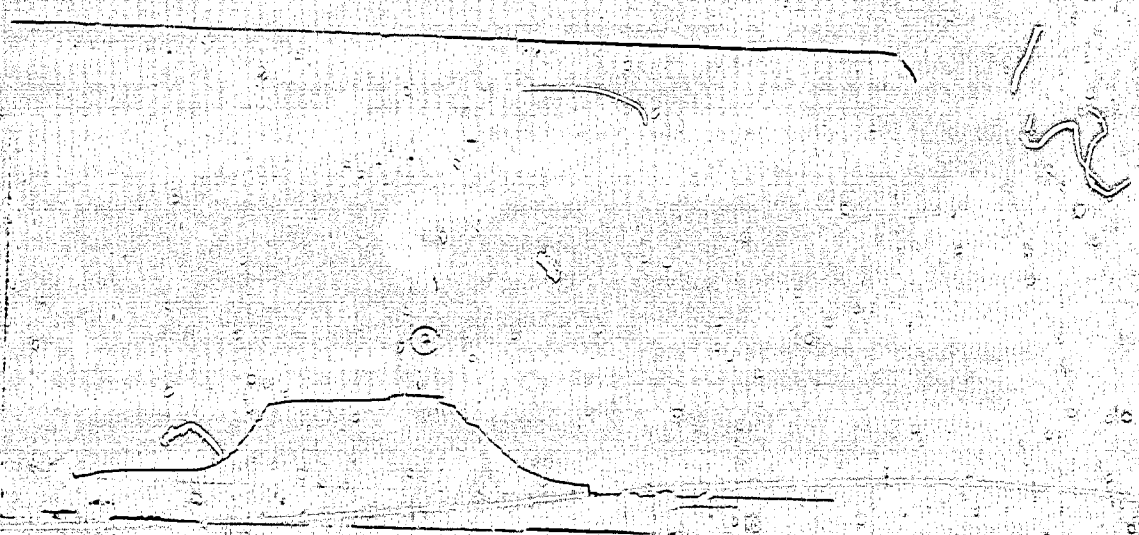
RECORDER PAGE

****

WELL NAME : TEXACO MOBIL BOVIE LAKE M-78
LOCATION : 400/ 50.170 / 122.590 /00
DST NUMBER : 001

RECORDER NUMBER: 006643 TYPE: TEMP
DEPTH : 2611.00 m INSIDE/OUTSIDE: OUTSIDE
CAPACITY : 207.78 C

TEMPERATURE AT TEST DEPTH 77.90 C



LYNES UNITED SERVICES LTD.

DRILLSTEM TEST SUMMARY REPORT

Date: 80 03 24

Well name: TEXACO MOBIL SOVIE LAKE M-78
Location: 400/ 60.170 / 122.590 /00
Licence no. 09480
Ticket no. 40788

DST number 002 LYNES test #2 Test number 1 of 1 (on same trip)
Test type: INFLATE STRADDLE

Kelly bushing (M): 397.58
Interval from (M): 1773.00
to (M): 1808.00
Ground elevation (M): 389.58
Total depth (M): 3080.00

Formation: KOTCHO

TIME AND PRESSURE DATA

Recorder #00895

	TIMES (min)	PRESSURES (kPa)		TIMES (min)	PRESSURES (kPa)
1st flow	15.		2nd flow	15.	
1st shutin	60.		2nd shutin	60.	
3rd flow			4th flow		
3rd shutin			4th shutin		
Initial hydrostatic		25402.0	Final hydrostatic		25402.0

GENERAL REMARKS

Misrun - plugged tool throughout test.

TEST RECOVERY DATA

Flow description:

Very faint initial puff decreasing to nil on preflow.
No flow on final flow.

GAS MEASUREMENTS: Measured with: NO GAS-INSTR AVAILABLE

Riser (mm):

TIME (min)	SURF. CHOKE (mm)	READING (kPa)	CUBIC METRES/D

NO GAS MEASUREMENTS

Liquid recovery:

For DST# 2 through DST# 2

Amount (M) Of

Total recovery (M): .00

Reversed out: NO Salinity (g/M3):

Bottom hole sampler#
Sent to:

Gas bomb#
Sent to:

No. of fluid samples:
Sent to:

GENERAL DATA

Inhibitor : Inhibitor amount (M):

Cushion type: Liquid amount (M):
Gas pressure (kPa):

Started in hole: 930.00 Hrs.
Opened tool at: 1405.00 Hrs.

MUD AND HOLE DATA

Hole condition @ test time: GOOD
Conditioned prior to test: YES

Calipered hole size @ test depth (mm) 220.0

Mud type: KCL
Viscosity (sec/l): 56.0
Filter cake (mm): 1.5
Mud weight (kg/M3): 1205.00
Water loss (cm3): 3.6
Log temperature (C):
Recorder temperature (C): 29.5

Pipe size (mm)	Type	Weight (kg/M)
114.0	EXTRA HOLE	24.05

Collar size (mm)	Type	Int. diameter (mm)	Length (M)
127.0	HEC	69.9	179.14
171.0			

BTM choke size (mm): 25.4
Rat hole size (mm):
Main hole size (mm): 216.0
Rat hole length (M):

Total number of packers run: 2

Mailing Data

Company: TEXACO CANADA RESOURCES LTD.
Address: 600 - 6TH AVE. S.W.
CALGARY, ALBERTA
Reports sent to: ERIC LLOYD

Number of Reports: 7

LYNES UNITED SERVICES LTD.

RECORDER PAGE

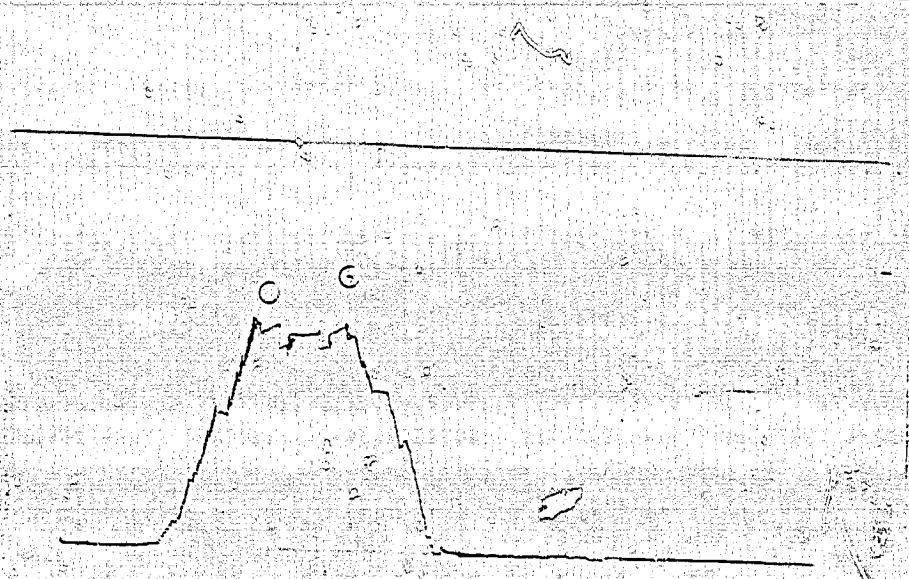
****

WELL NAME : TEXACO MOBIL BOVIE LAKE K-76
LOCATION : 400/ 50.170 / 122.590 /00
DST NUMBER : 002

RECORDER NUMBER: 015835 TYPE: K-3
DEPTH : 1779.00 m INSIDE/OUTSIDE: OUTSIDE
CAPACITY : 42058.00 kPa

	TIMES (MIN)	PRESSURES (kPa)
1ST. FLOW	15.	
SHUTIN	60.	
2ND. FLOW	15.	
SHUTIN	60.	

INITIAL HYDROSTATIC: 21936.0 FINAL HYDROSTATIC: 21910.0



LYNES UNITED SERVICES LTD.

RECORDER PAGE

WELL NAME : TEXACO MOBIL BOVIE LAKE M-78
LOCATION : 400/ 60.170 / 122.590 /00
DST NUMBER : 002

RECORDER NUMBER: 008552 TYPE: K-3
DEPTH : 1779.00 m INSIDE/OUTSIDE: OUTSIDE
CAPACITY : 48260.00 kPa

	TIMES (MIN)	PRESSURES (kPa)
1ST. FLOW	15.	
SHUTIN	60.	
2ND. FLOW	15.	
SHUTIN	60.	

INITIAL HYDROSTATIC: 25402.0 FINAL HYDROSTATIC: 25402.0



LYNES UNITED SERVICES LTD.

RECORDER PAGE

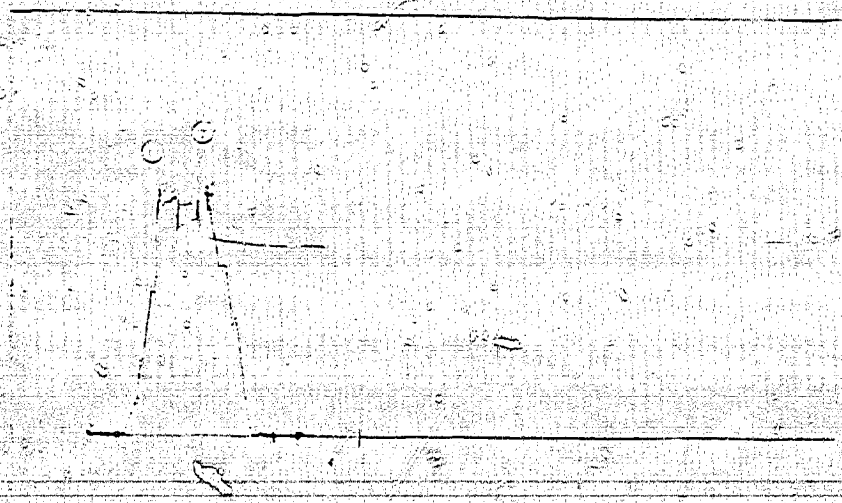
****

WELL NAME : TEXACO MOBIL BOVIE LAKE M-78
LOCATION : 400/ 60.170 / 122.590 /00
DST NUMBER : 002

RECORDER NUMBER: 008556 TYPE: K-3
DEPTH : 1765.00 m INSIDE/OUTSIDE: INSIDE
CAPACITY : 41024.00 kPa

	TIMES (MIN)	PRESSURES (kPa)
1ST. FLOW	15.	
SHUTIN	60.	
2ND. FLOW	15.	
SHUTIN	60.	

INITIAL HYDROSTATIC: 18739.0 FINAL HYDROSTATIC: 18169.0



LYNES UNITED SERVICES LTD.

RECORDER PAGE

****

WELL NAME : TEXACO MOBIL BOVIE LAKE M-78
LOCATION : 400/ 60.170 / 122.590 /00
DST NUMBER : 002

RECORDER NUMBER: 006643 TYPE: TEMP
DEPTH : 1779.00 m INSIDE/OUTSIDE: OUTSIDE
CAPACITY : 207.70 C

TEMPERATURE AT TEST DEPTH 29.50 C



LYNES UNITED SERVICES LTD.

DRILLSTEM TEST SUMMARY REPORT

Date: 80 03 25

ACC MOBIL BOVIE LAKE M-73
/ 60.170 / 122.590 /00

Licence no. 03450
Ticket no. 40789

LYNES test #3 Test number 1 of 1 (on same trip)

STRADDLE

397.58	Ground elevation (M):	389.58
1779.00		
1808.00	Total depth (M):	3080.00

TIME AND PRESSURE DATA

Recorder #C008952

	PRESSURES (kPa)		TIMES (min)	PRESSURES (kPa)
	942.0			521.0
	631.0	2nd flow	30.	541.0
	742.0	2nd shutin	60.	561.0
		4th flow		
		4th shutin		
c	23144.0	Final hydrostatic		20725.0

GENERAL REMARKS

e a mechanically successful test with no problems
and shut-in pressures suggest VIRTUALLY NO PERMEABILITY
tested.
the hole, well started to kick. Dropped bar to open PUMP
out.

LYNES UNITED SERVICES LTD.

TEST RECOVERY DATA

Flow description:

Fair air blow on preflow increasing to strong in 2 minutes, no gas to surface.
Fair air blow on final flow remaining steady throughout, no gas to surface.

GAS MEASUREMENTS: Measured with: NO GAS-INSTR AVAILABLE

Riser (mm):

TIME (min)	SURF. CHOKE (mm)	READING (kPa)	CUBIC METRES/D

NO GAS MEASUREMENTS

Liquid recovery: For DST# 003 through DST# 003

Amount (M) Of

Total recovery (M): .00

Reversed out: YES Salinity (g/M3):

Bottom hole sampler#
Sent to:

Gas comb#
Sent to:

No. of fluid samples:
Sent to:

GENERAL DATA

Inhibitor :
Inhibitor amount (%):

Cushion type:
Liquid amount (%):
Gas pressure (kPa):

Started in hole: 2345.00 Hrs.
Opened tool at: 400.00 Hrs.

MUD AND HOLE DATA

Hole condition @ test time: FAIR
Conditioned prior to test: NO

Calibered hole size @ test depth (mm) 220.0

Mud type: KCL
Viscosity (sec/l): 60.0
Filter cake (mm): 1.6
Mud weight (kg/m3): 1205.00
Water loss (cm3): 3.6
Log temperature (C):
Recorder temperature (C): 36.7

Pipe size (mm)	Type	Weight (kg/M)
114.3	NO DP-TYPE AVAILABLE	24.05

Collar size (mm)	Type	Int. diameter (mm)	Length (M)
171.0	NO DP-TYPE AVAILABLE	69.9	179.14

BTM choke size (mm): 25.4
Rat hole size (mm):
Main hole size (mm): 216.0
Rat hole length (M):

Total number of packers run: 2

Mailing Data

Company: TEXACO CANADA RESOURCES LTD.
Address: 600 - 6TH AVE. S.W.
CALGARY, ALBERTA

Reports sent to: EPIC LLOYD

Number of Reports: 7

LYNES UNITED SERVICES LTD.

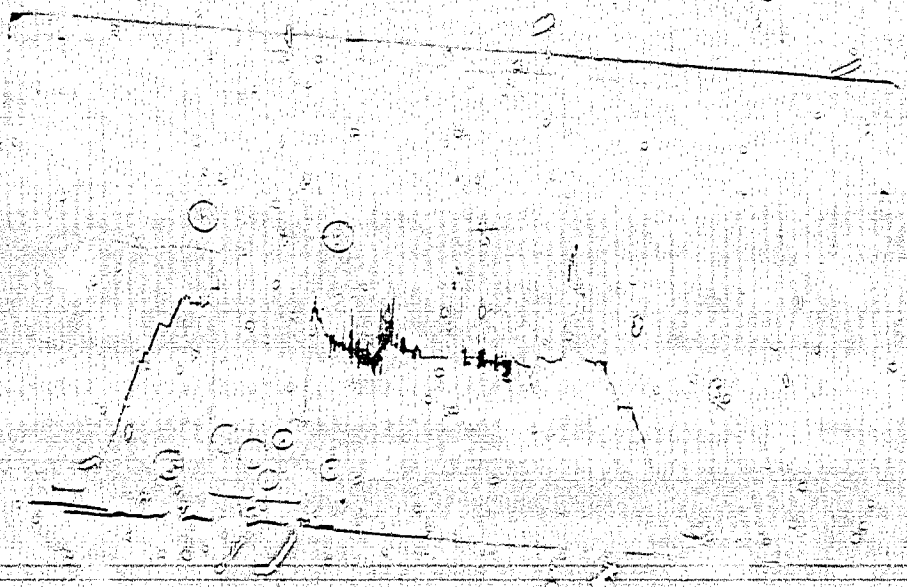
RECORDER PAGE
****

WELL NAME : TEXACO MOBIL BOVIE LAKE M-78
LOCATION : 400/ 60-17D / 122-55D /00
DST NUMBER : 003

RECORDER NUMBER: 008952
DEPTH : 1779.00 m
CAPACITY : 48260.00 kPa
TYPE: K-3
INSIDE/OUTSIDE: OUTSIDE

	TIMES (MIN)	PRESSURES (kPa)
1ST. FLOW		942.00
SHUTIN	30.	681.00
	60.	742.00
2ND. FLOW		621.00
SHUTIN	30.	641.00
	60.	661.00

INITIAL HYDROSTATIC: 23144.0 FINAL HYDROSTATIC: 20725.0



LYNES UNITED SERVICES LTD.

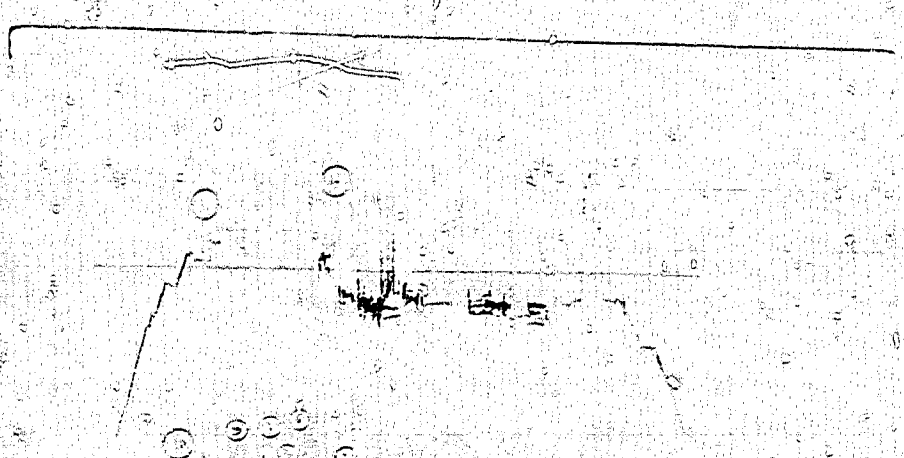
RECORDER PAGE

WELL NAME : TEXACO MOBIL SOVIE LAKE M-78
LOCATION : 400/ 60.170 / 122.590 /00
DST NUMBER : 003

RECORDER NUMBER: 015835 TYPE: K-3
DEPTH : 1779.00 m INSIDE/OUTSIDE: OUTSIDE
CAPACITY : 42058.00 kPa

	TIMES (MIN)	PRESSURES (kPa)
		880.00
1ST. FLOW	30.	736.00
SHUTIN	60.	772.00
		611.00
2ND. FLO.	30.	539.00
SHUTIN	60.	587.00

INITIAL HYDROSTATIC: 23152.0 FINAL HYDROSTATIC: 21827.0



LYNES UNITED SERVICES LTD.

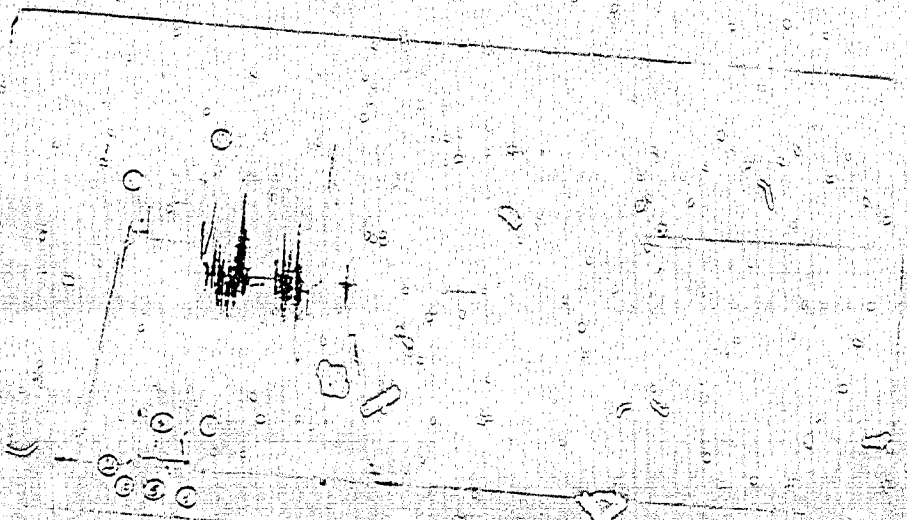
RECORDER PAGE

WELL NAME : TEXACO MOBIL BOVIE LAKE M-78
LOCATION : 100/ 80.170 / 122.590 /00
DST NUMBER : 005

RECORDER NUMBER: 008556
DEPTH : 1769.00 m TYPE: K-3
CAPACITY : 41024.00 kPa INSIDE/OUTSIDE: INSIDE

	TIMES (MIN)	PRESSURES (kPa)
1ST. FLOW		512.00
	30.	533.00
SHUTIN	60.	589.00
2ND. FLOW		498.00
	30.	481.00
SHUTIN	60.	567.00

INITIAL HYDROSTATIC: 21300.0 FINAL HYDROSTATIC: 19410.0



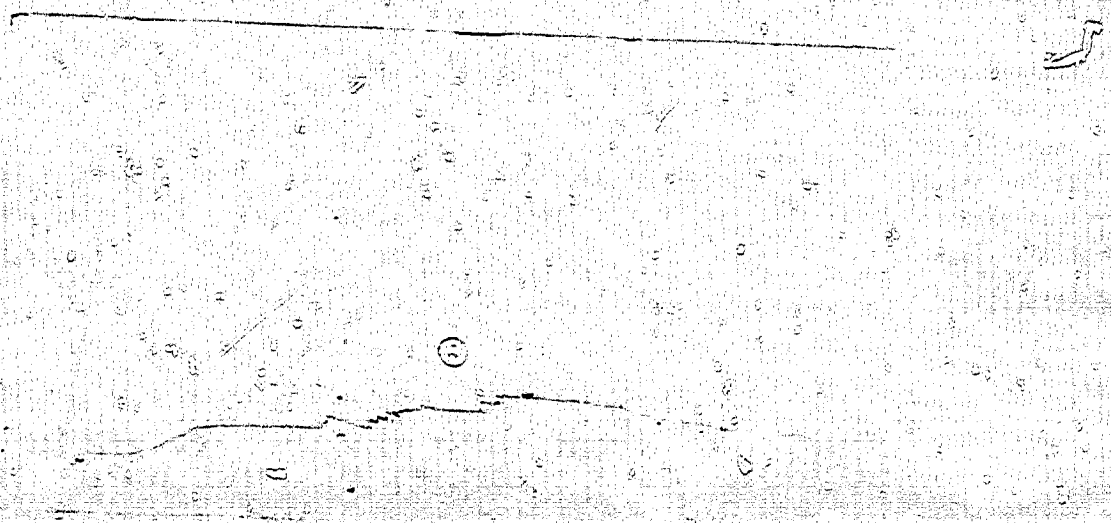
LYNES UNITED SERVICES LTD.

RECORDER PAGE

WELL NAME : TEXACO MOBIL BONIE LAKE M-78
LOCATION : 400/ 80.17C / 122.590 /CC
DST NUMBER : 003

RECORDER NUMBER: C06643
DEPTH : 1779.00 m
CAPACITY : 207.78 C
TYPE: TEMP
INSIDE/OUTSIDE: OUTSIDE

TEMPERATURE AT TEST DEPTH 36.70 C



****
*   *
****
* SCHLUMBERGER *
****

HIGH RESOLUTION

DIPMETER

****

CLUSTER LISTING

****

TEXACO CANADA RESOURCES LTD.

WILDCAT

NORTHWEST TERRITORIE, M-78-60-20-122

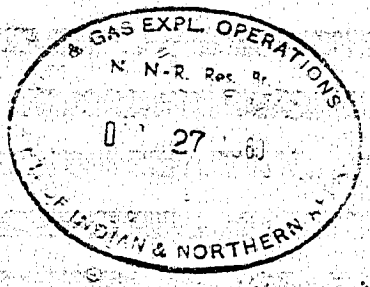
TEXACO MOBIL BOVIE LAKE M-78

RUN NO. ONE JOB NO. 4515

CLUSTER RESULTS ONLY

1MTR. CORR. - 0.30 MTR. STEP

45 DEG. X1 SEARCH ANGLE



Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
1900.9	4.2	31	0.7	33	8.8	8.8	A
1901.2	4.3	35	0.6	33	8.8	8.8	A
1901.5	6.0	28	0.6	32	8.8	8.8	A
1901.8	3.6	21	0.6	32	8.8	8.8	C
1902.1	42.7	79	0.7	32	8.8	8.7	D
1902.4	34.6	83	0.7	31	8.8	8.7	B
1902.7	1.6	169	0.7	32	8.8	8.7	A
1903.0	1.6	167	0.7	32	8.7	8.7	A
1903.3	1.7	177	0.7	32	8.7	8.7	A
1903.6	2.3	173	0.7	33	8.7	8.7	A
1903.9	2.1	159	0.8	34	8.7	8.8	C
1904.2	3.0	163	0.7	35	8.7	8.8	A
1904.5	3.2	166	0.7	36	8.8	8.8	A
1904.8	3.2	162	0.7	36	8.8	8.8	A
1905.1			0.6	36	8.8	8.8	
1905.5	3.6	169	0.6	35	8.8	8.8	A
1905.8	3.8	6	0.6	36	8.8	8.8	A
1906.1	3.0	25	0.6	36	8.8	8.8	A
1906.4	1.2	61	0.6	36	8.8	8.8	A
1906.7	1.4	92	0.6	37	8.8	8.8	A
1907.0	1.2	88	0.6	37	8.9	8.8	C
1907.3	2.5	25	0.6	37	8.9	8.8	C
1907.6	2.1	40	0.7	37	8.9	8.8	A
1907.9			0.7	37	8.9	8.8	
1908.2			0.7	37	8.9	8.8	
1908.5	0.4	83	0.7	38	8.9	8.8	A
1908.8	0.5	83	0.7	38	8.9	8.8	A
1909.1	0.8	81	0.6	39	8.9	8.8	A
1909.4	0.4	68	0.6	40	8.9	8.7	A
1909.7	0.7	13	0.6	40	8.9	8.7	D
1910.0	0.8	58	0.6	41	8.9	8.7	D
1910.3	0.7	21	0.7	42	8.9	8.7	D
1910.6	1.1	113	0.7	44	8.9	8.7	B
1910.9	32.0	96	0.7	45	8.9	8.8	D
1911.2			0.7	46	8.8	8.8	
1911.5	0.7	39	0.7	48	8.8	8.7	C
1911.9	0.4	285	0.7	49	8.8	8.7	A
1912.2	0.3	18	0.6	50	8.8	8.6	A
1912.5	0.8	18	0.7	50	8.7	8.7	A
1912.8	1.3	9	0.7	50	8.7	8.7	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
1913.1	1.1	16	0.7	50	8.8	8.7	A
1913.4	2.0	109	0.7	50	8.8	8.8	D
1913.7			0.7	50	8.8	8.8	
1914.0	0.7	21	0.6	51	8.8	8.8	D
1914.3	0.5	336	0.6	51	8.7	8.8	D
1914.6	0.7	350	0.6	52	8.7	8.8	D
1914.9	1.9	83	0.6	53	8.7	8.8	D
1915.2	7.4	54	0.6	53	8.7	8.7	D
1915.5			0.7	54	8.7	8.7	
1915.8			0.7	54	8.6	8.7	
1916.1			0.8	53	8.6	8.6	
1916.4			0.8	52	8.6	8.7	
1916.7			0.8	52	8.6	8.7	
1917.0			0.7	53	8.6	8.7	
1917.3			0.7	54	8.5	8.8	
1917.6	34.4	113	0.6	55	8.5	8.8	D
1917.9	31.9	113	0.6	55	8.5	8.7	D
1918.3	35.5	112	0.6	55	8.5	8.7	D
1918.6	35.9	100	0.7	55	8.5	8.7	D
1918.9			0.7	56	8.5	8.8	
1919.2			0.8	56	8.5	8.8	
1919.5			0.8	56	8.5	8.8	
1919.8	0.8	274	0.8	57	8.5	8.8	C
1920.1	0.8	52	0.8	57	8.5	8.8	A
1920.4	0.9	59	0.8	58	8.4	8.8	A
1920.7	1.3	329	0.8	59	8.4	8.8	A
1921.0	2.7	27	0.8	60	8.4	8.8	A
1921.3	1.9	37	0.8	60	8.5	8.8	A
1921.6	2.0	29	0.7	59	8.5	8.7	A
1921.9	2.3	33	0.7	59	8.5	8.7	A
1922.2	3.5	54	0.6	58	8.4	8.7	A
1922.5	2.6	9	0.6	56	8.4	8.7	A
1922.8	1.6	46	0.6	56	8.4	8.7	A
1923.1	2.1	59	0.6	55	8.5	8.7	A
1923.4	0.4	263	0.6	55	8.4	8.7	A
1923.7	1.0	179	0.6	55	8.5	8.7	A
1924.0	1.3	190	0.6	55	8.5	8.7	A
1924.3	1.2	233	0.6	56	8.5	8.7	A
1924.7	0.7	180	0.6	56	8.5	8.7	A
1925.0	0.9	232	0.6	57	8.5	8.7	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
1913.1	1.1	16	0.7	50	8.8	8.7	A
1913.4	2.0	109	0.7	50	8.8	8.8	D
1913.7			0.7	50	8.8	8.8	
1914.0	0.7	21	0.6	51	8.8	8.8	D
1914.3	0.5	336	0.6	51	8.7	8.8	D
1914.6	0.7	350	0.6	52	8.7	8.8	D
1914.9	1.9	83	0.6	53	8.7	8.8	D
1915.2	7.4	54	0.6	53	8.7	8.7	D
1915.5			0.7	54	8.7	8.7	
1915.8			0.7	54	8.6	8.7	
1916.1			0.8	53	8.6	8.6	
1916.4			0.8	52	8.6	8.7	
1916.7			0.8	52	8.6	8.7	
1917.0			0.7	53	8.6	8.7	
1917.3			0.7	54	8.5	8.8	
1917.6	34.4	113	0.6	55	8.5	8.8	D
1917.9	31.9	113	0.6	55	8.5	8.7	D
1918.3	35.5	112	0.6	55	8.5	8.7	D
1918.6	35.9	100	0.7	55	8.5	8.7	D
1918.9			0.7	56	8.5	8.8	
1919.2			0.8	56	8.5	8.8	
1919.5			0.8	56	8.5	8.8	
1919.8	0.8	274	0.8	57	8.5	8.8	C
1920.1	0.8	52	0.8	57	8.5	8.8	A
1920.4	0.9	59	0.8	58	8.4	8.8	A
1920.7	1.3	329	0.8	59	8.4	8.8	A
1921.0	2.7	27	0.8	60	8.4	8.8	A
1921.3	1.9	37	0.8	60	8.5	8.8	A
1921.6	2.0	29	0.7	59	8.5	8.7	A
1921.9	2.3	33	0.7	59	8.5	8.7	A
1922.2	3.5	54	0.6	58	8.4	8.7	A
1922.5	2.6	9	0.6	56	8.4	8.7	A
1922.8	1.6	46	0.6	56	8.4	8.7	A
1923.1	2.1	59	0.6	55	8.5	8.7	A
1923.4	0.4	263	0.6	55	8.4	8.7	A
1923.7	1.0	179	0.6	55	8.5	8.7	A
1924.0	1.3	190	0.6	55	8.5	8.7	A
1924.3	1.2	233	0.6	56	8.5	8.7	A
1924.7	0.7	180	0.6	56	8.5	8.7	A
1925.0	0.9	232	0.6	57	8.5	8.7	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
1925.3	0.9	203	0.6	57	8.5	8.7	A
1925.6	0.9	217	0.6	58	8.5	8.7	A
1925.9	1.2	232	0.6	58	8.6	8.7	A
1926.2	0.9	237	0.6	58	8.5	8.6	A
1926.5	1.1	253	0.6	58	8.5	8.6	A
1926.8	1.5	263	0.6	57	8.5	8.5	A
1927.1	1.1	208	0.6	56	8.4	8.5	A
1927.4	0.7	181	0.6	54	8.4	8.6	A
1927.7	0.4	151	0.6	52	8.4	8.6	A
1928.0	0.5	120	0.6	49	8.4	8.6	A
1928.3	0.3	98	0.6	46	8.4	8.5	A
1928.6	1.3	28	0.7	44	8.4	8.5	A
1928.9	1.7	326	0.7	43	8.3	8.6	C
1929.2	0.4	68	0.7	41	8.3	8.6	C
1929.5	1.1	82	0.7	40	8.3	8.7	C
1929.8	0.6	184	0.7	38	8.3	8.7	A
1930.1	0.9	179	0.7	37	8.3	8.7	A
1930.4	1.2	256	0.6	37	8.3	8.7	A
1930.8	1.0	235	0.6	36	8.3	8.7	A
1931.1	1.0	180	0.6	35	8.3	8.7	A
1931.4	1.0	162	0.6	35	8.3	8.7	A
1931.7	0.7	125	0.6	35	8.3	8.7	A
1932.0	0.1	295	0.6	34	8.3	8.7	A
1932.3	0.9	286	0.6	34	8.3	8.7	A
1932.6	1.1	285	0.6	34	8.3	8.7	A
1932.9	1.0	275	0.7	33	8.4	8.8	A
1933.2	0.7	257	0.7	34	8.4	8.7	A
1933.5	0.2	172	0.7	35	8.4	8.7	A
1933.8	0.3	221	0.7	37	8.4	8.7	A
1934.1	0.4	216	0.7	39	8.3	8.7	A
1934.4	0.1	316	0.7	40	8.3	8.7	A
1934.7	0.2	278	0.6	41	8.3	8.7	A
1935.0	0.9	208	0.6	42	8.3	8.7	A
1935.3	0.8	176	0.6	43	8.3	8.7	A
1935.6	1.4	223	0.6	43	8.3	8.6	A
1935.9	1.0	239	0.6	43	8.2	8.7	A
1936.2	0.9	234	0.6	42	8.2	8.7	A
1936.5	0.3	7	0.6	41	8.2	8.7	A
1936.8	0.5	230	0.6	42	8.2	8.8	A
1937.2	0.5	249	0.6	43	8.3	8.8	A
			0.6	43	8.3	8.8	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
1937.5	0.6	234	0.6	42	8.3	8.8	A
1937.8	1.0	241	0.6	42	8.3	8.8	A
1938.1	0.5	290	0.6	39	8.3	8.8	A
1938.4	0.4	319	0.6	39	8.3	8.8	A
1938.7	0.1	296	0.6	40	8.4	8.8	A
1939.0	0.3	262	0.6	43	8.4	8.8	A
1939.3	0.7	245	0.6	46	8.4	8.8	A
1939.6	1.0	245	0.6	47	8.4	8.8	A
1939.9	1.1	257	0.6	47	8.4	8.8	A
1940.2	1.0	263	0.6	44	8.4	8.8	A
1940.5	0.6	309	0.6	42	8.4	8.9	A
1940.8	0.2	299	0.6	42	8.4	8.9	A
1941.1	1.2	193	0.6	41	8.4	8.9	A
1941.4	1.4	178	0.6	45	8.4	8.8	A
1941.7	1.0	186	0.6	45	8.5	8.8	A
1942.0	0.9	218	0.6	45	8.4	8.8	A
1942.3	0.8	273	0.6	47	8.4	8.8	A
1942.6	0.9	283	0.7	46	8.4	8.8	A
1942.9	0.6	294	0.7	47	8.4	8.9	A
1943.2	0.4	285	0.7	49	8.3	8.9	A
1943.6	0.2	284	0.7	52	8.3	8.9	A
1943.9	0.4	18	0.6	54	8.3	9.0	A
1944.2	0.6	38	0.6	55	8.2	9.0	A
1944.5	0.9	6	0.7	58	8.3	9.0	A
1944.8	1.3	8	0.7	58	8.3	9.0	A
1945.1	1.7	1	0.7	60	8.4	9.0	A
1945.4	2.8	349	0.7	62	8.4	9.0	A
1945.7	1.7	43	0.7	61	8.5	9.0	A
1946.0	3.4	79	0.8	60	8.4	9.0	D
1946.3	24.5	57	0.8	62	8.3	9.2	D
1946.6	9.8	103	0.8	67	8.2	9.4	D
1946.9	10.5	98	0.8	69	8.2	9.4	D
1947.2	28.9	66	0.7	71	8.2	9.3	D
1947.5	3.3	98	0.7	72	8.3	9.0	D
1947.8	1.9	185	0.7	71	8.4	8.9	C
1948.1	1.7	193	0.7	74	8.4	8.8	A
1948.4	1.6	196	0.7	76	8.4	8.8	A
1948.7	2.2	195	0.7	75	8.4	8.7	A
1949.0	2.3	197	0.7	75	8.4	8.7	A
1949.3	1.5	211	0.6	72	8.4	8.7	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
1949.6	1.5	219	0.6	74	8.3	8.8	A
1950.0	1.4	228	0.6	74	8.4	8.8	A
1950.3	1.4	226	0.6	74	8.3	8.8	A
1950.6	1.6	222	0.6	76	8.3	8.9	A
1950.9	1.9	216	0.6	76	8.2	8.9	A
1951.2	2.1	218	0.6	76	8.2	8.9	A
1951.5	2.4	225	0.6	76	8.3	8.9	A
1951.8	2.3	228	0.7	77	8.3	8.9	A
1952.1	2.1	239	0.7	78	8.4	8.8	A
1952.4	1.8	247	0.7	79	8.4	8.8	A
1952.7	1.8	248	0.7	78	8.5	8.8	A
1953.0	2.0	237	0.7	77	8.5	8.8	A
1953.3	2.3	237	0.8	77	8.4	8.8	A
1953.6	2.2	231	0.7	77	8.5	8.8	A
1953.9	1.9	231	0.7	76	8.5	8.8	A
1954.2	2.2	235	0.7	75	8.4	8.8	A
1954.5	2.4	229	0.7	74	8.4	8.8	A
1954.8	2.5	219	0.6	74	8.3	8.8	A
1955.1	2.4	223	0.6	74	8.3	8.8	A
1955.4	2.1	244	0.6	74	8.3	8.8	A
1955.7	1.8	252	0.6	74	8.4	8.8	A
1956.0	1.6	261	0.6	74	8.4	8.8	A
1956.4	1.7	251	0.7	73	8.5	8.8	A
1956.7	1.5	242	0.7	73	8.5	8.8	A
1957.0	1.5	228	0.7	74	8.3	8.8	A
1957.3	1.7	206	0.7	74	8.3	8.8	A
1957.6	2.2	200	0.7	75	8.1	8.8	A
1957.9	2.3	203	0.7	75	8.1	8.8	A
1958.2	2.2	185	0.7	74	8.1	8.8	A
1958.5	4.4	222	0.7	74	8.1	8.8	A
1958.8	4.2	216	0.7	73	8.1	8.8	C
1959.1	3.0	248	0.7	74	8.0	8.8	A
1959.4	3.8	235	0.7	75	8.0	8.8	A
1959.7	1.5	224	0.7	75	8.1	8.8	A
1960.0	1.3	223	0.7	76	8.1	8.7	A
1960.3	1.3	209	0.8	75	8.2	8.6	A
1960.6	1.0	223	0.7	74	8.2	8.5	A
1960.9	1.7	253	0.8	74	8.2	8.6	A
1961.2	2.4	270	0.7	73	8.3	8.6	A
1961.5	2.3	278	0.7	74	8.3	8.7	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
1961.8	2.4	286	0.7	74	8.4	8.7	A
1962.1	3.2	277	0.7	75	8.4	8.7	A
1962.4	3.5	246	0.7	75	8.3	8.7	A
1962.8	3.3	250	0.7	74	8.3	8.8	A
1963.1	2.3	252	0.7	72	8.3	8.8	A
1963.4	1.6	253	0.7	71	8.3	8.7	A
1963.7	1.6	245	0.7	70	8.3	8.7	A
1964.0	1.4	226	0.7	72	8.3	8.7	A
1964.3	1.0	211	0.7	73	8.4	8.7	A
1964.6	1.5	197	0.8	72	8.3	8.7	A
1964.9	1.0	217	0.8	72	8.2	8.7	A
1965.2	1.0	213	0.8	70	8.2	8.7	A
1965.5	1.3	227	0.8	69	8.2	8.7	A
1965.8	1.4	242	0.8	72	8.3	8.8	A
1966.1	1.7	224	0.8	70	8.4	8.8	A
1966.4	2.0	239	0.8	72	8.4	8.8	A
1966.7	1.8	241	0.8	73	8.4	8.8	A
1967.0	1.8	257	0.8	73	8.4	8.8	C
1967.3	1.6	273	0.8	72	8.4	8.8	A
1967.6	1.3	277	0.8	69	8.4	8.8	A
1967.9	1.8	277	0.8	69	8.4	8.8	A
1968.2	1.2	266	0.8	69	8.4	8.7	A
1968.5	1.2	236	0.8	71	8.4	8.7	A
1968.9	1.1	243	0.8	68	8.4	8.8	A
1969.2	1.2	260	0.7	66	8.4	8.8	A
1969.5	1.3	266	0.7	63	8.4	8.8	A
1969.8	1.3	254	0.6	63	8.4	8.7	A
1970.1	1.8	249	0.7	64	8.4	8.8	A
1970.4	1.8	251	0.7	65	8.4	8.8	A
1970.7	1.5	248	0.7	65	8.4	8.8	A
1971.0	1.6	268	0.7	66	8.5	8.8	A
1971.3	1.3	268	0.6	65	8.4	8.8	A
1971.6	1.1	253	0.6	66	8.4	8.8	A
1971.9	1.2	233	0.6	63	8.4	8.7	A
1972.2	1.2	216	0.6	64	8.4	8.7	A
1972.5	1.1	226	0.6	66	8.4	8.7	A
1972.8	0.9	224	0.6	61	8.4	8.7	A
1973.1	0.8	242	0.6	63	8.4	8.7	A
1973.4	1.1	235	0.6	60	8.4	8.7	A
1973.7	1.0	233	0.6	58	8.5	8.7	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
1974.0	1.2	246	0.6	59	8.5	8.8	A
1974.3	1.2	244	0.6	57	8.6	8.8	A
1974.6	1.2	250	0.6	59	8.6	8.8	A
1974.9	1.3	245	0.6	61	8.5	8.9	A
1975.3	1.4	242	0.7	61	8.4	8.9	A
1975.6	1.3	248	0.6	59	8.4	8.9	A
1975.9	1.2	243	0.7	60	8.5	8.9	A
1976.2	1.1	247	0.7	56	8.5	8.9	A
1976.5	0.9	248	0.6	58	8.6	8.9	A
1976.8	1.1	196	0.6	60	8.5	8.9	A
1977.1	1.2	234	0.6	59	8.4	8.8	A
1977.4	0.8	194	0.6	60	8.4	8.7	A
1977.7	1.2	253	0.6	56	8.4	8.7	C
1978.0	2.1	253	0.6	54	8.3	8.6	A
1978.3	0.8	207	0.6	54	8.4	8.7	A
1978.6	0.8	233	0.6	54	8.5	8.7	A
1978.9	0.9	227	0.6	54	8.5	8.8	A
1979.2	0.7	223	0.6	50	8.5	8.8	A
1979.5	0.8	233	0.6	48	8.4	8.8	A
1979.8	1.0	241	0.6	47	8.4	8.8	A
1980.1	1.0	243	0.6	47	8.4	8.8	A
1980.4	0.7	248	0.6	53	8.4	8.8	A
1980.7			0.6	56	8.5	8.9	
1981.0	0.4	206	0.6	58	8.5	8.8	C
1981.3	0.8	248	0.6	58	8.6	8.8	C
1981.7	0.6	267	0.6	55	8.6	8.8	C
1982.0	0.8	238	0.6	58	8.5	8.8	A
1982.3	1.2	258	0.7	55	8.5	8.8	D
1982.6	1.3	234	0.7	58	8.6	8.8	D
1982.9	1.6	243	0.7	60	8.6	8.8	D
1983.2	1.3	250	0.7	61	8.6	8.8	C
1983.5	1.0	254	0.7	64	8.6	8.8	A
1983.8	0.5	318	0.7	63	8.6	8.8	A
1984.1	0.4	30	0.7	64	8.8	8.8	A
1984.4	0.3	100	0.7	64	8.7	8.8	A
1984.7	0.3	260	0.7	62	8.7	8.8	A
1985.0	1.2	309	0.7	65	8.6	8.8	A
1985.3	1.6	265	0.7	66	8.5	8.8	C
1985.6			0.7	66	8.6	8.7	
1985.9	1.4	286	0.7	68	8.6	8.7	C

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
1986.2	1.6	290	0.7	67	8.6	8.7	C
1986.5	0.2	251	0.7	66	8.7	8.9	C
1986.8	1.3	249	0.7	65	8.6	8.8	A
1987.1	0.8	239	0.7	66	8.6	8.8	A
1987.4	1.0	254	0.7	65	8.6	8.9	A
1987.7	0.9	244	0.7	65	8.5	8.8	A
1988.1	0.6	247	0.7	66	8.6	8.8	A
1988.4	1.4	250	0.7	66	8.6	8.8	A
1988.7	1.3	244	0.7	65	8.6	8.8	A
1989.0	1.4	254	0.7	65	8.7	8.8	A
1989.3	0.5	250	0.7	65	8.7	8.8	A
1989.6	0.3	272	0.8	65	8.7	8.8	A
1989.9	0.3	296	0.7	67	8.7	8.8	A
1990.2	1.0	249	0.7	69	8.7	8.8	A
1990.5	0.8	247	0.6	68	8.6	8.8	A
1990.8	0.6	232	0.6	68	8.6	8.8	A
1991.1	0.9	219	0.6	68	8.6	8.8	A
1991.4	0.8	228	0.6	65	8.5	8.8	A
1991.7	0.8	233	0.6	65	8.5	8.8	A
1992.0	1.0	233	0.6	66	8.4	8.7	A
1992.3	0.3	207	0.6	66	8.5	8.7	A
1992.6	0.5	257	0.6	68	8.5	8.8	A
1992.9	0.7	286	0.6	71	8.6	8.8	A
1993.2	1.3	301	0.6	71	8.5	8.8	A
1993.5	1.5	278	0.6	70	8.5	8.8	A
1993.8	1.6	277	0.6	69	8.5	8.8	A
1994.1	1.4	264	0.6	67	8.4	8.8	A
1994.5	1.2	247	0.6	64	8.4	8.8	A
1994.8	1.3	225	0.6	64	8.5	8.8	A
1995.1	1.6	220	0.6	65	8.5	8.9	A
1995.4	2.0	222	0.6	65	8.5	8.9	A
1995.7	3.5	283	0.7	67	8.5	8.9	A
1996.0	3.7	276	0.7	68	8.5	8.9	A
1996.3	1.5	266	0.7	67	8.5	8.9	A
1996.6	1.7	257	0.7	68	8.5	8.9	A
1996.9	1.5	253	0.6	70	8.6	9.0	A
1997.2	1.2	254	0.6	70	8.7	9.1	A
1997.5	1.3	268	0.6	70	8.8	9.2	A
1997.8	0.9	240	0.6	71	8.8	9.2	A
1998.1	0.8	238	0.6	71	8.7	9.1	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
1998.4	0.8	188	0.6	71	8.6	9.0	A
1998.7	0.9	196	0.6	72	8.5	8.9	A
1999.0	0.9	262	0.6	74	8.5	8.9	A
1999.3	1.3	258	0.6	75	8.5	8.9	A
1999.6	1.7	273	0.6	75	8.5	8.8	A
1999.9	1.8	267	0.6	76	8.5	8.9	A
2000.2	1.8	273	0.6	75	8.5	8.9	A
2000.5	1.6	273	0.6	74	8.5	8.9	A
2000.9	1.7	260	0.6	75	8.5	8.9	A
2001.2	1.3	262	0.6	76	8.4	8.8	A
2001.5	1.2	260	0.6	77	8.4	8.8	A
2001.8	1.1	260	0.6	79	8.5	8.8	A
2002.1	1.1	263	0.6	80	8.5	8.8	A
2002.4	1.4	271	0.6	80	8.5	8.9	A
2002.7	1.4	283	0.6	80	8.5	8.9	A
2003.0	1.8	287	0.6	80	8.5	8.8	A
2003.3	1.5	286	0.6	78	8.5	8.8	A
2003.6	1.4	281	0.6	76	8.5	8.8	A
2003.9	1.1	268	0.6	77	8.5	8.8	A
2004.2	0.7	276	0.6	75	8.5	8.8	A
2004.5	0.8	252	0.6	74	8.5	8.8	A
2004.8	0.8	266	0.6	74	8.5	8.8	A
2005.1	0.8	268	0.6	73	8.5	8.8	A
2005.4	0.9	263	0.6	72	8.5	8.9	A
2005.7	0.8	264	0.6	70	8.6	9.0	A
2006.0	0.8	269	0.6	69	8.6	9.1	A
2006.3	0.7	264	0.6	67	8.6	9.1	A
2006.6	0.3	253	0.6	66	8.7	9.2	A
2007.0	1.0	259	0.6	67	8.8	9.2	A
2007.3	1.0	254	0.6	65	8.8	9.3	A
2007.6	1.1	262	0.6	62	8.9	9.3	A
2007.9	1.2	263	0.6	62	8.9	9.3	A
2008.2	1.1	269	0.6	60	8.8	9.3	A
2008.5			0.6	58	8.8	9.3	
2008.8	1.0	263	0.6	60	8.8	9.3	A
2009.1	1.1	259	0.6	58	8.8	9.3	A
2009.4	1.2	253	0.6	57	8.8	9.3	A
2009.7	1.0	249	0.6	57	8.8	9.3	A
2010.0	49.1	173	0.6	55	8.8	9.2	C
2010.3	1.1	241	0.6	54	8.7	9.1	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2010.6	1.0	269	0.6	55	8.6	9.0	A
2010.9	1.2	236	0.6	55	8.5	8.9	A
2011.2	0.9	238	0.6	54	8.5	8.8	A
2011.5	1.0	213	0.6	54	8.5	8.8	A
2011.8	2.4	194	0.6	54	8.4	8.8	A
2012.1	2.6	338	0.6	53	8.4	8.8	A
2012.4	2.6	339	0.6	54	8.5	8.8	A
2012.7	2.0	319	0.6	52	8.5	8.8	A
2013.0	1.9	313	0.6	50	8.5	8.9	A
2013.4	1.8	273	0.6	50	8.5	8.9	A
2013.7	1.7	255	0.6	48	8.5	8.9	A
2014.0	1.7	229	0.6	47	8.5	8.9	A
2014.3	1.9	223	0.6	46	8.5	8.8	A
2014.6	1.6	215	0.6	44	8.5	8.8	A
2014.9	1.5	220	0.6	42	8.5	8.8	A
2015.2	1.5	215	0.6	40	8.5	8.8	A
2015.5	0.6	262	0.6	37	8.5	8.8	A
2015.8	0.7	275	0.6	35	8.5	8.8	A
2016.1	0.8	276	0.6	32	8.4	8.8	A
2016.4	0.9	295	0.6	29	8.3	8.8	A
2016.7	0.9	236	0.6	28	8.3	8.8	A
2017.0	1.0	208	0.6	25	8.3	8.8	A
2017.3	0.7	183	0.6	22	8.4	8.8	A
2017.6	0.8	160	0.6	18	8.5	8.8	A
2017.9	0.9	197	0.6	11	8.5	8.8	A
2018.2	1.0	138	0.6	3	8.4	8.8	C
2018.5	31.7	45	0.6	357	8.4	8.7	D
2018.8			0.6	354	8.4	8.7	
2019.1			0.6	352	8.5	8.7	
2019.4	2.4	304	0.6	352	8.6	8.8	C
2019.8	3.7	42	0.6	351	8.5	8.8	C
2020.1	0.8	22	0.6	351	8.5	8.8	A
2020.4	1.0	17	0.5	350	8.5	8.8	A
2020.7	0.9	112	0.5	351	8.5	8.8	A
2021.0	0.8	93	0.5	351	8.5	8.8	A
2021.3	2.3	7	0.4	351	8.6	8.8	A
2021.6	2.8	18	0.4	351	8.5	8.8	A
2021.9	2.4	23	0.4	351	8.5	8.8	A
2022.2	2.9	20	0.4	352	8.5	8.8	A
2022.5	3.3	147	0.4	352	8.5	8.8	B

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2022.8	2.7	247	0.5	352	8.5	8.8	D
2023.1	1.9	237	0.5	353	8.5	8.8	D
2023.4			0.5	354	8.5	8.8	
2023.7			0.5	355	8.5	8.7	
2024.0			0.5	357	8.5	8.7	
2024.3			0.5	359	8.5	8.8	
2024.6	7.0	162	0.5	360	8.5	8.7	D
2024.9	3.5	145	0.5	360	8.6	8.8	B
2025.2	3.2	249	0.5	359	8.5	8.8	D
2025.5	9.5	306	0.6	358	8.5	8.8	D
2025.8	2.2	280	0.6	357	8.5	8.8	D
2026.2			0.6	354	8.5	8.8	
2026.5			0.6	351	8.5	8.8	
2026.8	1.6	219	0.6	350	8.5	8.7	D
2027.1	1.8	227	0.6	348	8.5	8.7	D
2027.4			0.6	347	8.4	8.7	
2027.7	1.1	194	0.6	346	8.5	8.7	B
2028.0	1.1	163	0.6	344	8.4	8.7	D
2028.3			0.6	343	8.5	8.7	
2028.6	1.3	105	0.6	341	8.5	8.7	B
2028.9	1.0	194	0.5	340	8.5	8.8	B
2029.2	0.5	218	0.5	338	8.5	8.8	A
2029.5	0.7	115	0.5	335	8.4	8.8	A
2029.8	0.7	116	0.5	334	8.5	8.8	A
2030.1	0.5	55	0.6	332	8.5	8.8	A
2030.4	0.5	38	0.6	330	8.5	8.8	A
2030.7	0.6	360	0.6	328	8.6	8.9	A
2031.0	0.2	28	0.6	325	8.6	8.9	A
2031.3	0.4	20	0.6	324	8.6	8.9	A
2031.6	0.3	104	0.6	323	8.7	8.9	A
2031.9	0.5	212	0.5	325	8.7	8.9	A
2032.2	0.8	235	0.5	326	8.7	8.9	A
2032.6	0.8	198	0.5	329	8.7	8.8	A
2032.9	2.1	212	0.5	332	8.6	8.8	A
2033.2	0.6	83	0.5	335	8.6	8.7	A
2033.5	0.2	22	0.5	338	8.6	8.7	A
2033.8	0.2	122	0.5	340	8.6	8.8	A
2034.1	0.9	183	0.6	340	8.6	8.8	A
2034.4	1.2	182	0.6	337	8.6	8.8	A
2034.7	1.3	177	0.6	336	8.6	8.8	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2035.0	1.2	176	0.6	336	8.7	8.8	A
2035.3	0.3	150	0.6	335	8.7	8.8	A
2035.6	0.7	9	0.6	336	8.6	8.8	A
2035.9	0.9	34	0.6	335	8.6	8.8	A
2036.2	0.9	22	0.6	332	8.6	8.8	A
2036.5	0.6	183	0.6	330	8.7	8.8	A
2036.8	1.0	197	0.6	324	8.8	8.7	A
2037.1	1.1	180	0.6	322	8.7	8.8	A
2037.4	0.9	168	0.6	324	8.7	8.8	A
2037.7	1.3	166	0.6	325	8.7	8.8	A
2038.0	1.1	180	0.6	331	8.8	8.8	A
2038.3	0.7	177	0.6	331	8.8	8.8	A
2038.6	0.4	132	0.6	328	8.9	8.8	A
2039.0	0.4	99	0.6	324	8.9	8.8	A
2039.3	0.6	87	0.6	320	8.9	8.8	A
2039.6	0.6	102	0.6	316	8.9	8.8	A
2039.9	0.6	121	0.6	318	8.9	8.8	A
2040.2	0.8	113	0.6	320	8.9	8.8	A
2040.5	0.8	147	0.6	324	8.8	8.8	A
2040.8	0.8	179	0.6	329	8.8	8.8	A
2041.1	1.3	179	0.6	333	8.8	8.8	A
2041.4	1.1	197	0.6	333	8.8	8.8	A
2041.7	0.8	176	0.6	335	8.9	8.8	A
2042.0	0.8	174	0.6	335	9.0	8.8	A
2042.3	0.6	180	0.6	336	9.0	8.8	A
2042.6	0.8	164	0.6	337	9.0	8.8	A
2042.9	0.6	152	0.6	338	9.0	8.8	A
2043.2	0.4	137	0.6	339	8.9	8.8	A
2043.5	0.7	169	0.6	340	9.0	8.8	A
2043.8	0.8	172	0.6	341	9.1	8.8	A
2044.1	1.4	211	0.6	342	9.2	8.8	A
2044.4	1.3	199	0.6	342	9.3	8.7	A
2044.7	0.9	194	0.5	343	9.2	8.6	A
2045.1	0.9	204	0.5	343	9.2	8.6	A
2045.4	0.6	133	0.4	343	9.1	8.6	A
2045.7	0.7	195	0.4	342	9.1	8.7	A
2046.0	0.8	206	0.4	343	9.1	8.7	A
2046.3	0.6	213	0.3	342	9.2	8.8	A
2046.6	0.7	235	0.2	341	9.2	8.8	A
2046.9	0.6	239	0.0	0	9.3	8.8	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2047.2	0.3	239	0.0	0	9.3	8.8	A
2047.5	0.1	213	0.0	0	9.3	8.8	A
2047.8	0.6	131	0.0	0	9.3	8.8	A
2048.1	0.8	160	0.0	0	9.3	8.8	A
2048.4	0.6	149	0.0	0	9.3	8.8	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2610.8			4.2	291	8.6	9.0	
2611.1			4.2	289	8.6	9.1	
2611.4			4.2	291	8.6	9.1	
2611.7			4.1	290	8.6	9.1	
2612.0			4.1	287	8.6	9.0	
2612.3			4.1	288	8.5	9.0	
2612.6			4.0	284	8.6	9.0	
2612.9			4.0	283	8.5	9.0	
2613.2	28.9	5	4.0	282	8.6	9.0	B
2613.5			4.0	282	8.5	9.0	
2613.8			4.0	283	8.5	8.9	
2614.2			3.9	277	8.5	8.9	
2614.5			3.9	276	8.4	8.8	
2614.8			3.9	275	8.4	8.8	
2615.1			3.9	274	8.4	8.8	
2615.4			3.9	280	8.4	8.7	
2615.7			3.9	282	8.4	8.7	
2616.0			3.9	281	8.4	8.7	
2616.3			3.9	282	8.4	8.7	
2616.6			3.9	278	8.4	8.7	
2616.9			3.9	275	8.5	8.8	
2617.2			3.9	275	8.5	8.8	
2617.5			3.9	274	8.5	8.8	
2617.8			3.9	275	8.5	8.8	
2618.1			3.9	276	8.5	8.8	
2618.4			3.9	278	8.5	8.9	
2618.7			3.9	280	8.4	8.8	
2619.0			3.9	282	8.4	8.8	
2619.3			4.0	290	8.4	8.8	
2619.6			4.0	290	8.4	8.8	
2619.9			4.1	291	8.4	8.8	
2620.3			4.1	297	8.4	8.8	
2620.6			4.1	298	8.4	8.8	
2620.9			4.1	304	8.4	8.8	
2621.2			4.1	305	8.4	8.8	
2621.5	45.6	65	4.1	311	8.4	8.8	D
2621.8			4.1	310	8.4	8.8	
2622.1			4.1	314	8.4	8.8	
2622.4	30.5	51	4.1	315	8.3	8.6	D
2622.7	30.2	51	4.2	318	8.3	8.6	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2623.0							
2623.3			4.2	324	8.3	8.6	
2623.6			4.3	322	8.3	8.6	
2623.9			4.3	323	8.4	8.7	
2624.2			4.4	317	8.4	8.8	
2624.5			4.5	308	8.3	8.8	
2624.8			4.5	309	8.4	8.8	
2625.1			4.6	309	8.4	8.8	
2625.4			4.6	309	8.3	8.7	
2625.7			4.6	313	8.4	8.8	
2626.0			4.5	313	8.4	8.8	
2626.3			4.5	311	8.4	8.8	
2626.7			4.5	310	8.4	8.8	
2627.0			4.4	309	8.4	8.9	
2627.3			4.4	299	8.3	8.8	
2627.6			4.5	294	8.3	8.8	
2627.9			4.5	290	8.3	8.8	
2628.2			4.5	290	8.4	8.7	
2628.5			4.5	294	8.4	8.8	
2628.8			4.5	297	8.4	8.8	
2629.1			4.5	297	8.4	8.8	
2629.4			4.5	294	8.4	8.8	
2629.7			4.5	297	8.4	8.8	
2630.0			4.5	298	8.4	8.8	
2630.3			4.4	297	8.4	8.8	
2630.6			4.4	298	8.4	8.8	
2630.9			4.4	296	8.4	8.8	
2631.2			4.3	295	8.4	8.9	
2631.5			4.3	297	8.4	8.9	
2631.8	55.6	17	4.3	296	8.4	8.9	
2632.1			4.3	297	8.3	8.8	D
2632.4			4.2	298	8.3	8.8	
2632.7	44.1	283	4.2	291	8.3	8.8	
2633.1	51.1	17	4.2	290	8.3	8.8	D
2633.4			4.1	286	8.4	8.9	D
2633.7	40.6	277	4.1	284	8.5	8.9	
2634.0			4.1	289	8.4	8.9	D
2634.3			4.1	286	8.4	8.9	
2634.6			4.1	282	8.4	8.9	
2634.9			4.1	275	8.4	8.9	
			4.0	272	8.4	8.9	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	DEV.	DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2635.2			4.0	272	8.4	8.9	
2635.5			3.9	272	8.4	8.9	
2635.8			3.9	277	8.3	8.8	
2636.1			3.9	274	8.3	8.8	
2636.4			3.9	278	8.4	8.9	
2636.7			3.9	277	8.4	8.8	
2637.0			3.9	276	8.4	8.9	
2637.3			3.9	279	8.5	8.9	
2637.6			4.0	278	8.5	8.8	
2637.9			4.0	279	8.5	8.8	
2638.2			4.0	281	8.5	8.8	
2638.5			4.0	280	8.5	8.8	
2638.8	45.2	334	4.0	284	8.6	8.8	D
2639.1	31.6	354	4.0	290	8.6	8.8	D
2639.5	31.3	351	4.0	292	8.6	8.8	D
2639.8	44.6	325	4.0	292	8.6	8.8	D
2640.1			4.0	293	8.6	8.8	
2640.4			4.1	291	8.5	8.8	
2640.7			4.1	290	8.5	8.8	
2641.0			4.0	291	8.4	8.8	
2641.3			4.0	291	8.5	8.9	
2641.6			4.0	295	8.5	8.9	
2641.9			4.0	304	8.4	8.8	
2642.2			4.1	309	8.4	8.8	
2642.5	59.1	133	4.1	314	8.4	8.9	D
2642.8	59.0	133	4.2	318	8.4	8.9	D
2643.1			4.2	317	8.4	9.0	
2643.4			4.1	315	8.4	8.9	
2643.7			4.2	321	8.4	8.9	
2644.0			4.2	322	8.4	8.8	
2644.3			4.2	322	8.4	8.7	
2644.6			4.2	322	8.4	8.7	
2644.9			4.2	316	8.4	8.7	
2645.2			4.2	311	8.4	8.7	
2645.5			4.3	310	8.5	8.8	
2645.9			4.3	313	8.5	8.8	
2646.2			4.3	316	8.5	8.9	
2646.5			4.4	313	8.5	8.8	
2646.8			4.4	315	8.5	8.8	
2647.1	67.8	138	4.4	313	8.5	8.8	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	DEV.	DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2647.4			4.4	306	8.5	8.8	
2647.7			4.4	306	8.5	8.8	
2648.0			4.4	299	8.5	8.8	
2648.3			4.5	288	8.5	8.7	
2648.6			4.5	288	8.5	8.7	
2648.9			4.4	287	8.5	8.7	
2649.2			4.5	290	8.5	8.7	
2649.5	48.2	141	4.5	297	8.5	8.8	D
2649.8			4.5	299	8.5	8.8	
2650.1	48.6	130	4.5	300	8.5	8.9	B
2650.4	47.8	125	4.5	299	8.5	9.0	D
2650.7			4.4	298	8.5	9.0	
2651.0			4.4	298	8.5	9.0	
2651.3			4.3	296	8.5	9.0	
2651.6			4.3	298	8.5	8.9	
2651.9			4.3	299	8.4	8.9	
2652.3			4.2	296	8.4	8.9	
2652.6			4.1	294	8.4	8.9	
2652.9			4.0	289	8.4	9.0	
2653.2			4.0	289	8.4	9.0	
2653.5			3.9	288	8.4	9.0	
2653.8			3.9	287	8.4	9.0	
2654.1			3.9	288	8.4	9.0	
2654.4			3.9	287	8.3	8.9	
2654.7			3.9	286	8.3	8.8	
2655.0			3.9	282	8.4	8.8	
2655.3			3.9	277	8.3	8.7	
2655.6			3.9	276	8.4	8.7	
2655.9			3.9	280	8.4	8.7	
2656.2	22.4	107	3.9	281	8.4	8.8	D
2656.5	22.0	106	3.9	283	8.4	8.8	D
2656.8	22.0	99	3.9	279	8.5	8.9	D
2657.1	52.9	75	3.9	277	8.5	8.9	B
2657.4			3.8	276	8.5	8.9	
2657.7			3.8	276	8.5	8.8	
2658.0			3.8	277	8.4	8.8	
2658.4			3.8	278	8.4	8.8	
2658.7			3.8	278	8.4	8.7	
2659.0			3.8	280	8.4	8.8	
2659.3			3.8	283	8.4	8.8	

Schlumberger

TEXACO CANADA RESOURCES — TEXACO MOBIL BOVIE LAKE — PAGE 5-FILE 1

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2659.6			3.9	282	8.4	8.9	
2659.9			3.8	285	8.4	8.9	
2660.2			3.8	287	8.4	8.9	
2660.5			3.8	293	8.4	8.9	
2660.8			3.8	299	8.3	8.8	
2661.1	28.0	350	3.8	306	8.3	8.8	
2661.4	42.8	33	3.9	312	8.3	8.8	D
2661.7	42.5	31	3.9	314	8.3	8.8	D
2662.0	42.2	31	3.9	315	8.4	8.8	D
2662.3	42.0	28	3.9	315	8.4	8.8	D
2662.6			3.9	314	8.4	8.9	
2662.9	55.3	57	3.9	317	8.4	9.0	D
2663.2			3.9	316	8.4	9.0	
2663.5	55.8	50	3.9	316	8.5	9.0	D
2663.8			3.9	316	8.5	9.0	
2664.1			3.9	316	8.5	9.0	
2664.4			4.0	314	8.4	8.9	
2664.8			4.0	308	8.4	8.8	
2665.1			4.1	304	8.3	8.8	
2665.4			4.2	303	8.3	8.7	
2665.7			4.2	307	8.4	8.8	
2666.0			4.3	306	8.4	8.8	
2666.3			4.3	308	8.4	8.8	
2666.6	30.8	36	4.3	307	8.5	8.8	D
2666.9	54.1	62	4.3	308	8.5	8.8	D
2667.2	54.0	64	4.3	310	8.5	8.8	D
2667.5	53.8	63	4.2	310	8.6	8.8	D
2667.8	53.7	63	4.2	313	8.6	8.9	D
2668.1	14.2	53	4.2	308	8.5	8.8	D
2668.4			4.2	311	8.6	8.8	
2668.7			4.2	314	8.6	8.8	
2669.0			4.2	310	8.7	8.8	
2669.3			4.2	312	8.7	8.8	
2669.6			4.3	309	8.7	8.8	
2669.9			4.3	308	8.8	8.8	
2670.2			4.3	307	8.8	8.8	
2670.5	11.1	128	4.3	307	8.8	8.8	D
2670.8	14.8	127	4.3	307	8.8	8.8	D
2671.2	18.7	117	4.2	308	8.9	8.8	D
2671.5	12.4	167	4.2	309	8.9	8.8	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2671.8	14.9	173	4.2	309	8.9	8.8	D
2672.1	11.2	156	4.2	303	8.8	8.8	B
2672.4	11.1	158	4.2	300	8.7	8.7	B
2672.7	9.8	141	4.2	296	8.6	8.7	D
2673.0			4.1	295	8.5	8.7	
2673.3	4.9	157	4.1	299	8.5	8.8	C
2673.6	6.6	159	4.1	297	8.4	8.8	A
2673.9	7.4	171	4.1	301	8.4	8.8	A
2674.2	7.7	163	4.1	299	8.4	8.8	A
2674.5	7.7	171	4.1	298	8.4	8.7	A
2674.8			4.1	302	8.3	8.7	
2675.1			4.1	301	8.4	8.8	
2675.4			4.0	302	8.4	8.8	
2675.7			4.0	301	8.4	8.9	
2676.0	6.6	135	4.0	296	8.4	8.9	D
2676.3	6.8	139	4.0	296	8.4	9.0	D
2676.6	8.0	125	3.9	297	8.4	8.9	B
2676.9	7.4	153	3.9	299	8.4	9.0	A
2677.2	8.3	161	3.9	302	8.4	9.0	A
2677.6	8.4	160	3.9	302	8.4	9.0	A
2677.9	7.8	167	3.9	298	8.4	9.0	A
2678.2			3.9	293	8.4	9.1	
2678.5			3.9	291	8.4	9.1	
2678.8			3.9	281	8.3	9.0	
2679.1			3.9	276	8.3	9.1	
2679.4			3.8	275	8.3	9.0	
2679.7			3.8	273	8.4	9.0	
2680.0			3.7	280	8.4	8.9	
2680.3			3.7	282	8.3	8.8	
2680.6			3.7	281	8.3	8.8	
2680.9			3.7	282	8.3	8.7	
2681.2			3.7	280	8.4	8.7	
2681.5			3.6	280	8.4	8.8	
2681.8	3.0	255	3.6	280	8.5	8.7	D
2682.1	2.8	244	3.6	278	8.6	8.8	D
2682.4	3.2	240	3.6	275	8.6	8.7	D
2682.7	3.4	237	3.7	275	8.7	8.6	D
2683.0	46.8	129	3.7	274	8.7	8.6	C
2683.3			3.7	275	8.7	8.6	
2683.6			3.7	277	8.6	8.6	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2684.0			3.8	279	8.6	8.7	
2684.3			3.7	282	8.6	8.8	
2684.6			3.7	286	8.5	8.8	
2684.9			3.7	290	8.5	8.8	
2685.2			3.7	295	8.5	8.8	
2685.5			3.8	299	8.5	8.8	
2685.8			3.8	302	8.5	8.9	
2686.1			3.8	308	8.5	8.9	
2686.4	41.0	252	3.9	312	8.5	8.8	D
2686.7			3.9	316	8.5	8.8	
2687.0	49.2	263	3.9	318	8.4	8.7	D
2687.3	49.1	263	3.9	320	8.4	8.8	D
2687.6			3.9	317	8.4	9.0	
2687.9			3.9	313	8.4	9.0	
2688.2			3.9	313	8.4	9.0	
2688.5	8.1	179	3.9	308	8.4	8.9	C
2688.8	9.0	175	3.9	309	8.4	8.9	A
2689.1	9.4	173	3.9	310	8.5	8.9	A
2689.4	9.4	165	4.0	307	8.4	8.9	A
2689.7	9.7	161	4.0	308	8.4	8.9	A
2690.0	10.5	157	4.0	308	8.4	8.9	A
2690.4	15.2	247	4.0	307	8.5	8.9	D
2690.7			4.1	309	8.6	9.0	
2691.0			4.1	305	8.6	9.0	
2691.3	6.0	319	4.0	304	8.7	9.0	D
2691.6	7.4	324	4.0	300	8.6	8.9	D
2691.9	7.5	308	3.9	297	8.5	8.7	D
2692.2	9.0	304	3.9	295	8.4	8.6	B
2692.5	46.4	35	3.9	295	8.3	8.6	D
2692.8	45.7	30	3.9	297	8.4	8.7	D
2693.1	45.1	23	3.9	299	8.4	8.8	D
2693.4			3.9	301	8.5	8.8	
2693.7	61.8	69	3.9	299	8.5	8.8	D
2694.0			3.8	294	8.4	8.8	
2694.3			3.8	297	8.4	8.8	
2694.6			3.8	293	8.4	8.8	
2694.9			3.9	292	8.3	8.7	
2695.2			3.9	294	8.4	8.7	
2695.5			3.9	289	8.4	8.7	
2695.8			3.9	285	8.4	8.7	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2696.1			3.9	283	8.4	8.7	
2696.5			3.8	278	8.5	8.9	
2696.8			3.8	277	8.4	9.0	
2697.1			3.7	279	8.4	8.9	
2697.4			3.7	277	8.4	8.9	
2697.7			3.7	279	8.4	8.8	
2698.0			3.7	279	8.4	8.7	
2698.3			3.7	278	8.5	8.8	
2698.6	33.3	298	3.7	280	8.5	8.8	D
2698.9			3.7	280	8.5	8.8	
2699.2			3.7	279	8.5	8.7	
2699.5			3.7	280	8.6	8.7	
2699.8			3.7	277	8.6	8.7	
2700.1			3.7	277	8.6	8.7	
2700.4			3.7	281	8.6	8.8	
2700.7			3.6	287	8.5	8.9	
2701.0			3.6	297	8.4	8.8	
2701.3			3.6	303	8.4	8.8	
2701.6	25.8	33	3.6	305	8.4	8.8	D
2701.9	26.2	28	3.6	308	8.3	8.7	D
2702.2			3.7	309	8.4	8.8	
2702.5			3.7	312	8.3	8.8	
2702.9			3.8	314	8.4	8.8	
2703.2			3.8	319	8.4	8.8	
2703.5			3.8	317	8.4	8.8	
2703.8			3.9	310	8.4	8.8	
2704.1			3.9	313	8.4	8.8	
2704.4			3.9	312	8.4	8.8	
2704.7			3.9	315	8.4	8.8	
2705.0	3.5	115	3.9	319	8.5	8.9	D
2705.3	6.8	115	3.9	318	8.5	8.8	D
2705.6	3.6	115	3.9	314	8.4	8.8	D
2705.9	4.8	102	4.0	316	8.5	8.8	D
2706.2			4.0	318	8.5	8.9	
2706.5			4.0	317	8.5	8.8	
2706.8			4.0	317	8.5	8.9	
2707.1			4.0	314	8.5	8.9	
2707.4			4.0	302	8.5	8.8	
2707.7			4.0	294	8.5	8.8	
2708.0			4.0	290	8.5	8.7	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2708.3			4.0	287	8.4	8.7	
2708.6			4.1	294	8.5	8.8	
2708.9	63.8	261	4.1	297	8.4	8.8	D
2709.3			4.1	299	8.4	8.8	
2709.6			4.1	302	8.5	8.9	
2709.9			4.1	303	8.4	8.9	
2710.2			4.1	304	8.4	8.9	
2710.5			4.1	303	8.4	9.0	
2710.8			4.0	302	8.4	9.1	
2711.1			4.0	298	8.4	9.2	
2711.4			3.9	295	8.4	9.2	
2711.7			3.9	296	8.4	9.1	
2712.0			3.9	293	8.4	8.9	
2712.3			3.9	291	8.4	8.8	
2712.6			3.9	289	8.4	8.8	
2712.9			3.9	289	8.4	8.8	
2713.2			3.9	287	8.4	8.8	
2713.5			3.9	288	8.3	8.8	
2713.8	34.5	302	3.9	286	8.4	8.8	C
2714.1	34.8	297	3.9	283	8.4	8.8	C
2714.4	34.1	293	3.8	284	8.5	8.9	C
2714.7	34.0	291	3.8	285	8.5	8.9	C
2715.0			3.7	283	8.5	8.8	
2715.3			3.6	280	8.5	8.8	
2715.7			3.6	281	8.4	8.8	
2716.0			3.6	279	8.4	8.8	
2716.3			3.7	278	8.4	8.8	
2716.6			3.7	276	8.4	8.9	
2716.9			3.6	277	8.4	8.9	
2717.2			3.6	275	8.5	8.9	
2717.5			3.5	277	8.5	8.9	
2717.8			3.5	281	8.5	8.9	
2718.1			3.5	281	8.5	8.9	
2718.4			3.5	286	8.5	8.9	
2718.7			3.5	291	8.4	8.8	
2719.0			3.5	297	8.4	8.8	
2719.3			3.5	304	8.4	8.8	
2719.6			3.5	310	8.3	8.8	
2719.9			3.5	310	8.3	8.7	
2720.2			3.5	308	8.3	8.7	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2720.5			3.5	308	8.3	8.7	
2720.8			3.5	308	8.2	8.7	
2721.1			3.6	311	8.3	8.7	
2721.4			3.7	315	8.3	8.8	
2721.7			3.8	319	8.3	8.9	
2722.1			3.8	319	8.4	9.0	
2722.4			3.8	318	8.4	9.1	
2722.7			3.8	316	8.3	9.1	
2723.0			3.8	317	8.3	9.1	
2723.3			3.8	318	8.3	9.2	
2723.6			3.8	318	8.3	9.2	
2723.9			3.9	315	8.4	9.1	
2724.2	37.4	111	3.9	311	8.3	9.1	D
2724.5	37.6	108	3.9	313	8.3	8.9	D
2724.8	39.1	316	3.9	316	8.4	8.9	D
2725.1	39.6	312	3.9	314	8.4	8.9	D
2725.4			3.9	317	8.5	8.9	
2725.7			3.9	315	8.5	8.8	
2726.0			3.9	313	8.5	8.8	
2726.3	36.1	315	3.9	315	8.4	8.8	D
2726.6	37.9	307	3.9	309	8.4	8.8	D
2726.9	37.9	317	3.9	305	8.4	8.8	D
2727.2			4.0	299	8.4	8.8	
2727.5			4.0	294	8.5	8.8	
2727.8			4.0	292	8.6	8.8	
2728.1			4.0	289	8.6	8.7	
2728.5			4.0	291	8.7	8.8	
2728.8	6.4	99	4.0	295	8.6	8.7	D
2729.1			4.0	299	8.5	8.7	
2729.4			4.0	303	8.5	8.8	
2729.7			4.0	305	8.4	8.9	
2730.0			4.0	306	8.5	8.9	
2730.3			4.0	307	8.5	9.0	
2730.6			4.0	304	8.4	9.1	
2730.9			3.9	304	8.4	9.0	
2731.2			3.9	305	8.4	9.0	
2731.5			3.9	303	8.4	9.1	
2731.8			3.9	304	8.4	9.1	
2732.1			3.8	302	8.5	9.2	
2732.4			3.8	302	8.4	9.2	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2732.7			3.7	302	8.4	9.1	
2733.0			3.7	300	8.4	9.1	
2733.3			3.7	297	8.4	9.1	
2733.6			3.7	288	8.4	9.1	
2733.9			3.6	283	8.4	9.2	
2734.2			3.6	282	8.4	9.1	
2734.6			3.5	283	8.4	9.0	
2734.9			3.5	281	8.3	8.9	
2735.2			3.5	277	8.3	8.8	
2735.5			3.5	275	8.3	8.8	
2735.8			3.5	276	8.3	8.8	
2736.1	35.6	85	3.5	279	8.3	8.8	C
2736.4			3.5	281	8.4	8.8	
2736.7			3.5	283	8.4	8.8	
2737.0	40.6	305	3.4	280	8.5	8.9	D
2737.3			3.3	280	8.5	8.8	
2737.6			3.2	282	8.4	8.7	
2737.9			3.1	280	8.4	8.7	
2738.2	44.9	304	3.1	282	8.4	8.6	D
2738.5			3.1	281	8.4	8.6	
2738.8			3.1	279	8.5	8.6	
2739.1	40.5	309	3.1	281	8.5	8.6	D
2739.4			3.1	283	8.6	8.6	
2739.7			3.1	288	8.5	8.5	
2740.0	58.4	238	3.1	292	8.3	8.4	D
2740.3			3.2	298	8.3	8.4	
2740.6	28.5	88	3.2	304	8.2	8.5	C
2741.0			3.2	302	8.3	8.6	
2741.3	27.1	80	3.2	301	8.3	8.6	C
2741.6			3.3	300	8.3	8.6	
2741.9			3.3	302	8.3	8.6	
2742.2			3.4	307	8.3	8.7	
2742.5			3.4	309	8.4	8.7	
2742.8			3.3	309	8.4	8.7	
2743.1	42.6	28	3.3	309	8.4	8.7	B
2743.4			3.3	312	8.4	8.6	
2743.7			3.4	316	8.4	8.6	
2744.0			3.4	319	8.4	8.7	
2744.3			3.5	318	8.4	8.6	
2744.6			3.5	318	8.4	8.6	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2744.9			3.5	317	8.4	8.7	
2745.2			3.5	318	8.5	8.7	
2745.5			3.6	315	8.5	8.7	
2745.8			3.6	311	8.4	8.7	
2746.1	50.5	250	3.6	309	8.4	8.6	D
2746.4			3.7	311	8.4	8.6	
2746.7			3.6	311	8.4	8.6	
2747.0			3.6	316	8.5	8.6	
2747.4			3.6	314	8.4	8.5	
2747.7			3.6	312	8.4	8.5	
2748.0			3.5	308	8.5	8.6	
2748.3			3.5	300	8.5	8.6	
2748.6			3.5	298	8.5	8.7	
2748.9			3.6	294	8.5	8.7	
2749.2			3.6	294	8.5	8.6	
2749.5			3.6	294	8.5	8.7	
2749.8			3.6	296	8.5	8.7	
2750.1			3.6	296	8.5	8.7	
2750.4			3.6	300	8.4	8.6	
2750.7			3.5	302	8.4	8.6	
2751.0			3.5	300	8.3	8.6	
2751.3	62.7	232	3.5	300	8.3	8.6	D
2751.6			3.5	300	8.4	8.7	
2751.9			3.5	294	8.4	8.9	
2752.2			3.5	295	8.4	8.9	
2752.5			3.4	299	8.4	9.0	
2752.8			3.3	292	8.4	9.0	
2753.1			3.3	292	8.4	8.8	
2753.4			3.2	287	8.4	8.8	
2753.8			3.2	283	8.3	8.8	
2754.1			3.1	287	8.3	8.8	
2754.4			3.1	286	8.3	8.8	
2754.7	18.9	116	3.1	289	8.4	8.8	D
2755.0			3.1	288	8.4	8.8	
2755.3			3.1	289	8.4	8.8	
2755.6			3.1	289	8.3	8.8	
2755.9			3.1	284	8.3	8.8	
2756.2			3.1	283	8.4	8.8	
2756.5			3.1	282	8.4	8.8	
2756.8			3.1	285	8.5	8.8	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2757.1	43.9	296	3.1	286	8.5	8.8	D
2757.4	44.6	296	3.1	284	8.5	8.8	D
2757.7			3.1	284	8.5	8.8	
2758.0			3.1	286	8.5	8.8	
2758.3			3.1	287	8.5	8.8	
2758.6			3.1	290	8.5	8.7	
2758.9			3.1	296	8.5	8.7	
2759.2			3.1	301	8.5	8.7	
2759.5			3.1	305	8.5	8.7	
2759.8	61.7	47	3.1	305	8.5	8.8	D
2760.2			3.1	305	8.5	8.8	
2760.5			3.1	304	8.5	8.9	
2760.8			3.1	305	8.4	8.9	
2761.1			3.2	312	8.4	8.9	
2761.4			3.2	315	8.4	8.9	
2761.7			3.2	322	8.4	9.0	
2762.0			3.3	325	8.4	9.0	
2762.3			3.3	323	8.5	9.0	
2762.6			3.3	322	8.5	9.1	
2762.9			3.4	317	8.5	9.1	
2763.2			3.5	313	8.5	9.0	
2763.5			3.5	310	8.5	9.0	
2763.8			3.5	305	8.4	8.9	
2764.1	29.7	110	3.6	308	8.5	8.9	D
2764.4	29.6	108	3.6	312	8.5	8.9	D
2764.7	29.3	107	3.6	316	8.5	8.9	D
2765.0			3.5	323	8.5	8.9	
2765.3	48.4	123	3.5	316	8.5	8.9	D
2765.6			3.5	306	8.5	8.9	
2765.9			3.5	302	8.4	8.9	
2766.2	56.2	115	3.5	295	8.4	8.8	D
2766.6			3.5	298	8.5	8.8	
2766.9			3.5	305	8.5	8.8	
2767.2			3.5	309	8.6	8.8	
2767.5	56.8	118	3.5	310	8.6	8.9	D
2767.8			3.5	310	8.6	8.9	
2768.1			3.4	300	8.6	8.9	
2768.4			3.4	296	8.5	8.9	
2768.7			3.3	295	8.4	8.8	
2769.0			3.3	298	8.5	8.9	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	DEV.	DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2757.1	43.9	296	3.1	286	8.5	8.8	D
2757.4	44.6	296	3.1	284	8.5	8.8	D
2757.7			3.1	284	8.5	8.8	
2758.0			3.1	286	8.5	8.8	
2758.3			3.1	287	8.5	8.8	
2758.6			3.1	290	8.5	8.7	
2758.9			3.1	296	8.5	8.7	
2759.2			3.1	301	8.5	8.7	
2759.5			3.1	305	8.5	8.7	
2759.8	61.7	47	3.1	305	8.5	8.8	D
2760.2			3.1	305	8.5	8.8	
2760.5			3.1	304	8.5	8.9	
2760.8			3.1	305	8.4	8.9	
2761.1			3.2	312	8.4	8.9	
2761.4			3.2	315	8.4	8.9	
2761.7			3.2	322	8.4	9.0	
2762.0			3.3	325	8.4	9.0	
2762.3			3.3	323	8.5	9.0	
2762.6			3.3	322	8.5	9.1	
2762.9			3.4	317	8.5	9.1	
2763.2			3.5	313	8.5	9.0	
2763.5			3.5	310	8.5	9.0	
2763.8			3.5	305	8.4	8.9	
2764.1	29.7	110	3.6	308	8.5	8.9	D
2764.4	29.6	108	3.6	312	8.5	8.9	D
2764.7	29.3	107	3.6	316	8.5	8.9	D
2765.0			3.5	323	8.5	8.9	
2765.3	48.4	123	3.5	316	8.5	8.9	D
2765.6			3.5	306	8.5	8.9	
2765.9			3.5	302	8.4	8.9	
2766.2	56.2	115	3.5	295	8.4	8.8	D
2766.6			3.5	298	8.5	8.8	
2766.9			3.5	305	8.5	8.8	
2767.2			3.5	309	8.6	8.8	
2767.5	56.8	118	3.5	310	8.6	8.9	D
2767.8			3.5	310	8.6	8.9	
2768.1			3.4	300	8.6	8.9	
2768.4			3.4	296	8.5	8.9	
2768.7			3.3	295	8.4	8.8	
2769.0			3.3	298	8.5	8.5	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2769.3			3.3	303	8.4	8.9	
2769.6			3.2	305	8.5	9.0	
2769.9			3.2	308	8.5	9.0	
2770.2	13.8	164	3.1	301	8.4	8.9	D
2770.5	2.2	142	3.1	298	8.4	8.8	D
2770.8			3.1	292	8.4	8.8	
2771.1			3.1	288	8.3	8.8	
2771.4			3.1	290	8.3	8.8	
2771.7			3.1	291	8.4	8.9	
2772.0			3.1	289	8.4	8.9	
2772.3			3.1	288	8.4	8.9	
2772.7			3.1	283	8.5	8.9	
2773.0			3.1	282	8.5	8.9	
2773.3			3.1	283	8.5	8.9	
2773.6			3.0	283	8.5	8.9	
2773.9			3.0	286	8.5	8.8	
2774.2			3.0	287	8.4	8.8	
2774.5			3.0	288	8.4	8.8	
2774.8			3.0	288	8.4	8.9	
2775.1			3.0	290	8.4	8.8	
2775.4			2.9	290	8.3	8.8	
2775.7			2.9	293	8.3	8.8	
2776.0			3.0	298	8.2	8.7	
2776.3			3.0	303	8.2	8.8	
2776.6			3.1	312	8.3	8.8	
2776.9			3.1	314	8.3	8.9	
2777.2			3.1	319	8.3	8.9	
2777.5	22.3	152	3.1	321	8.3	8.8	D
2777.8	34.7	201	3.1	325	8.3	8.8	D
2778.1	21.2	157	3.1	328	8.3	8.8	B
2778.4			3.1	329	8.4	8.8	
2778.7			3.1	331	8.4	8.8	
2779.1			3.1	330	8.4	8.7	
2779.4	27.8	189	3.1	331	8.4	8.7	D
2779.7			3.1	327	8.4	8.7	
2780.0			3.1	325	8.4	8.7	
2780.3			3.2	323	8.4	8.7	
2780.6	19.4	187	3.2	317	8.4	8.7	D
2780.9	19.3	182	3.3	319	8.4	8.6	D
2781.2	18.9	178	3.4	316	8.4	8.6	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2781.5	18.4	174	3.4	316	8.5	8.7	D
2781.8			3.5	315	8.6	8.7	
2782.1			3.5	312	8.6	8.7	
2782.4			3.5	305	8.7	8.8	
2782.7			3.5	303	8.7	8.7	
2783.0			3.5	302	8.8	8.7	
2783.3	10.0	163	3.5	301	8.8	8.7	D
2783.6			3.5	300	8.8	8.7	
2783.9			3.4	300	8.8	8.7	
2784.2			3.3	301	8.8	8.7	
2784.5			3.2	304	8.7	8.7	
2784.8			3.1	305	8.5	8.7	
2785.1			3.1	301	8.4	8.7	
2785.5			3.1	297	8.4	8.8	
2785.8			3.1	292	8.4	8.8	
2786.1	16.7	8	3.1	293	8.4	8.9	D
2786.4	14.4	14	3.1	296	8.5	8.9	D
2786.7			3.1	300	8.4	8.8	
2787.0			3.1	298	8.4	8.8	
2787.3	45.5	85	3.1	294	8.4	8.8	D
2787.6			3.1	291	8.4	8.8	
2787.9			3.1	284	8.5	8.9	
2788.2			3.1	282	8.4	8.9	
2788.5			3.1	284	8.4	8.9	
2788.8			3.1	282	8.3	8.8	
2789.1			3.1	283	8.3	8.7	
2789.4			3.1	286	8.3	8.6	
2789.7			3.1	288	8.3	8.7	
2790.0			3.0	290	8.4	8.8	
2790.3			3.0	292	8.5	8.7	
2790.6			2.9	293	8.5	8.8	
2790.9			2.9	291	8.5	8.8	
2791.2			2.9	290	8.5	8.7	
2791.5			2.8	290	8.5	8.7	
2791.9			2.8	292	8.4	8.7	
2792.2			2.9	294	8.3	8.6	
2792.5			2.9	300	8.3	8.7	
2792.8			2.9	304	8.2	8.7	
2793.1			2.9	306	8.2	8.6	
2793.4			3.0	306	8.2	8.7	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2793.7			3.0	304	8.2	8.8	
2794.0			3.1	305	8.3	8.8	
2794.3			3.1	306	8.4	8.8	
2794.6			3.1	311	8.3	8.7	
2794.9			3.1	315	8.3	8.7	
2795.2			3.1	320	8.4	8.8	
2795.5			3.1	329	8.4	8.8	
2795.8	36.2	197	3.1	333	8.4	8.8	D
2796.1	36.4	189	3.1	331	8.4	8.8	C
2796.4	36.5	178	3.1	326	8.4	8.6	C
2796.7	36.5	168	3.1	321	8.3	8.6	C
2797.0			3.1	319	8.3	8.5	
2797.3			3.1	320	8.3	8.6	
2797.6			3.1	320	8.3	8.6	
2797.9			3.2	319	8.3	8.6	
2798.3			3.2	317	8.3	8.5	
2798.6			3.3	313	8.4	8.5	
2798.9			3.3	313	8.5	8.6	
2799.2			3.2	306	8.5	8.5	
2799.5			3.2	305	8.3	8.6	
2799.8			3.1	303	8.0	8.4	
2800.1			3.1	301	7.7	8.2	
2800.4			3.1	298	7.5	8.0	
2800.7			3.1	301	7.4	7.7	
2801.0	10.0	156	3.1	302	7.5	7.6	D
2801.3			3.1	303	7.7	7.6	
2801.6			3.1	308	7.8	7.6	
2801.9			3.1	306	7.9	7.8	
2802.2			3.1	308	8.0	7.9	
2802.5	51.8	102	3.1	308	8.1	8.1	D
2802.8			3.1	309	8.1	8.1	
2803.1			3.1	309	8.1	8.3	
2803.4	16.4	153	3.1	306	8.0	8.1	D
2803.7	16.7	151	3.1	309	7.8	8.0	D
2804.0			3.1	310	7.7	7.9	
2804.3	44.3	313	3.1	314	7.7	7.8	D
2804.7			3.1	316	7.7	7.8	
2805.0	53.5	307	3.1	317	7.5	7.8	D
2805.3	52.7	307	3.1	312	7.5	7.9	B
2805.6	49.7	309	3.1	310	7.5	7.9	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2805.9			3.1	306	7.6	8.0	
2806.2			3.1	308	7.8	8.1	
2806.5			3.1	302	7.9	8.1	
2806.8			3.1	301	7.7	7.9	
2807.1			3.1	305	7.6	7.8	
2807.4			3.0	304	7.3	7.6	
2807.7	48.2	75	3.0	306	7.3	7.6	D
2808.0			3.1	302	7.3	7.6	
2808.3			3.0	293	7.5	7.8	
2808.6			3.0	287	7.6	8.0	
2808.9	46.2	77	2.9	285	7.7	8.1	D
2809.2	47.5	82	2.8	289	7.6	8.1	D
2809.5	47.2	75	2.7	294	7.6	8.0	D
2809.8	49.1	76	2.7	295	7.6	7.9	D
2810.1			2.7	295	7.6	8.0	
2810.4			2.7	294	7.6	8.1	
2810.8			2.7	294	7.6	8.3	
2811.1			2.7	293	7.6	8.3	
2811.4			2.7	293	7.7	8.4	
2811.7			2.7	294	7.7	8.3	
2812.0			2.8	293	7.8	8.1	
2812.3			2.7	290	7.9	8.1	
2812.6			2.7	287	8.0	8.0	
2812.9			2.6	289	7.9	7.9	
2813.2			2.6	291	7.9	7.9	
2813.5			2.6	293	8.0	7.9	
2813.8			2.6	295	8.1	8.0	
2814.1	62.6	121	2.6	294	8.3	8.2	D
2814.4	62.3	116	2.6	295	8.3	8.2	D
2814.7	62.9	113	2.5	296	8.2	8.2	D
2815.0			2.5	298	8.0	8.1	
2815.3			2.5	299	7.9	8.1	
2815.6			2.5	298	7.9	8.2	
2815.9			2.5	297	8.0	8.4	
2816.2			2.5	297	8.1	8.5	
2816.5			2.5	300	8.2	8.5	
2816.8			2.6	306	8.2	8.4	
2817.2			2.6	312	8.2	8.4	
2817.5			2.6	322	8.2	8.4	
2817.8	30.1	94	2.6	325	8.1	8.4	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2818.1			2.6	327	8.1	8.5	
2818.4	30.4	88	2.6	328	7.9	8.2	D
2818.7	30.8	83	2.7	328	7.7	8.0	D
2819.0			2.7	328	7.6	7.9	
2819.3			2.7	328	7.5	7.9	
2819.6			2.7	326	7.6	8.1	
2819.9			2.7	323	7.7	8.3	
2820.2			2.8	323	7.8	8.4	
2820.5	42.5	12	2.8	323	7.9	8.6	D
2820.8			2.9	326	7.9	8.6	
2821.1			2.9	328	8.0	8.6	
2821.4			2.9	330	8.0	8.6	
2821.7			3.0	334	8.1	8.6	
2822.0			3.1	334	8.1	8.6	
2822.3			3.1	337	8.1	8.5	
2822.6			3.1	341	8.2	8.5	
2822.9			3.1	341	8.3	8.5	
2823.2			3.1	340	8.4	8.6	
2823.6	62.9	184	3.1	335	8.5	8.6	D
2823.9			3.1	328	8.4	8.5	
2824.2			3.1	323	8.2	8.4	
2824.5			3.1	315	8.1	8.4	
2824.8			3.1	309	8.1	8.4	
2825.1			3.1	305	8.2	8.5	
2825.4			3.1	303	8.4	8.6	
2825.7			3.1	305	8.4	8.6	
2826.0			3.1	309	8.5	8.6	
2826.3			3.1	308	8.4	8.5	
2826.6			3.1	309	8.5	8.5	
2826.9			3.1	312	8.4	8.5	
2827.2	35.3	339	3.1	310	8.4	8.5	D
2827.5			3.1	315	8.3	8.7	
2827.8			3.1	312	8.2	8.6	
2828.1			3.1	309	8.1	8.4	
2828.4			3.1	308	7.9	8.3	
2828.7			3.1	306	7.9	8.2	
2829.0	41.0	213	3.1	304	7.8	8.2	B
2829.3	41.3	211	3.1	304	7.8	8.3	D
2829.6			3.1	305	7.7	8.3	
2830.0			3.1	304	7.7	8.4	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2830.3			3.1	304	7.7	8.6	
2830.6	49.9	209	3.1	302	7.9	8.9	D
2830.9			3.1	301	8.0	9.0	
2831.2			3.1	300	8.2	9.0	
2831.5			3.1	298	8.3	9.0	
2831.8			3.1	296	8.3	8.8	
2832.1			3.1	294	8.3	8.8	
2832.4			3.1	292	8.0	8.6	
2832.7			3.0	289	7.9	8.4	
2833.0			3.0	291	7.8	8.3	
2833.3			2.8	292	7.6	8.2	
2833.6			2.8	293	7.8	8.3	
2833.9			2.8	293	8.0	8.4	
2834.2			2.7	288	8.2	8.6	
2834.5			2.6	285	8.2	8.5	
2834.8			2.6	284	8.0	8.4	
2835.1			2.5	286	7.8	8.2	
2835.4			2.5	292	7.6	7.9	
2835.7			2.5	293	7.7	7.8	
2836.0			2.5	294	8.0	8.0	
2836.4			2.4	297	8.0	8.1	
2836.7			2.4	298	8.0	8.1	
2837.0			2.3	300	8.0	8.1	
2837.3			2.3	302	7.9	8.1	
2837.6	55.8	98	2.3	300	7.8	8.1	C
2837.9	56.1	96	2.3	301	7.8	8.2	C
2838.2	56.1	95	2.4	302	7.8	8.3	C
2838.5	56.4	89	2.4	302	7.7	8.3	C
2838.8			2.4	311	7.7	8.2	
2839.1			2.5	314	7.7	8.1	
2839.4	33.5	207	2.5	316	7.6	8.1	D
2839.7			2.4	318	7.6	7.9	
2840.0			2.4	316	7.6	8.1	
2840.3	54.5	71	2.4	317	7.6	8.2	D
2840.6			2.5	317	7.7	8.3	
2840.9			2.5	317	7.7	8.5	
2841.2			2.5	320	7.4	8.4	
2841.5	22.7	211	2.6	320	7.4	8.2	D
2841.8	52.4	216	2.6	323	7.4	8.1	D
2842.1			2.6	328	7.4	8.1	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2842.4			2.7	331	7.7	8.2	
2842.8			2.8	333	7.9	8.5	
2843.1	5.6	358	2.8	336	8.0	8.7	D
2843.4	5.2	346	2.8	330	8.1	8.7	D
2843.7			2.9	327	8.2	8.6	
2844.0			2.8	325	8.3	8.5	
2844.3			2.9	321	8.3	8.4	
2844.6			2.9	325	8.4	8.4	
2844.9			2.9	324	8.3	8.4	
2845.2			2.9	322	8.3	8.5	
2845.5			2.9	317	8.2	8.6	
2845.8			2.9	312	8.2	8.6	
2846.1			2.9	307	8.2	8.7	
2846.4			2.8	298	8.2	8.6	
2846.7	15.4	241	2.8	300	8.2	8.6	C
2847.0	16.5	229	2.8	299	8.2	8.6	C
2847.3	17.1	215	2.7	302	8.2	8.4	C
2847.6	16.5	212	2.8	306	8.2	8.3	C
2847.9			2.8	307	8.2	8.3	
2848.2			2.8	312	8.1	8.2	
2848.5	46.3	65	2.8	313	8.1	8.3	D
2848.9	45.9	53	2.7	309	8.1	8.3	D
2849.2			2.7	305	8.1	8.3	
2849.5			2.7	296	8.1	8.4	
2849.8			2.8	290	8.1	8.4	
2850.1			2.7	288	8.1	8.4	
2850.4			2.7	287	8.2	8.5	
2850.7			2.6	286	8.2	8.5	
2851.0			2.6	291	8.2	8.5	
2851.3			2.5	292	8.2	8.5	
2851.6			2.5	293	8.2	8.4	
2851.9			2.6	294	8.2	8.4	
2852.2	23.8	59	2.6	294	8.3	8.5	D
2852.5	40.3	308	2.6	296	8.3	8.5	D
2852.8	40.1	305	2.7	295	8.4	8.5	D
2853.1	39.8	305	2.6	293	8.5	8.6	D
2853.4	23.8	343	2.6	292	8.5	8.5	D
2853.7	34.1	67	2.6	291	8.6	8.5	D
2854.0	20.8	2	2.5	287	8.6	8.6	D
2854.3	21.0	360	2.5	286	8.7	8.5	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2854.6			2.5	285	8.7	8.5	
2854.9	67.7	120	2.5	285	8.7	8.5	D
2855.3			2.4	291	8.5	8.4	
2855.6			2.4	295	8.3	8.4	
2855.9			2.4	297	8.2	8.4	
2856.2			2.4	298	8.1	8.4	
2856.5			2.4	298	8.1	8.3	
2856.8			2.4	300	8.1	8.4	
2857.1			2.4	302	8.1	8.5	
2857.4			2.4	306	8.1	8.6	
2857.7			2.3	310	8.1	8.6	
2858.0			2.3	314	8.2	8.6	
2858.3	39.1	89	2.3	319	8.2	8.6	D
2858.6			2.4	322	8.2	8.5	
2858.9			2.4	321	8.1	8.5	
2859.2			2.4	325	8.0	8.5	
2859.5			2.4	324	8.0	8.5	
2859.8			2.4	328	8.0	8.6	
2860.1			2.5	333	8.0	8.5	
2860.4			2.5	332	8.0	8.3	
2860.7			2.6	333	7.9	8.3	
2861.0			2.6	331	8.0	8.1	
2861.3			2.7	331	8.2	8.2	
2861.7			2.7	332	8.3	8.4	
2862.0			2.7	335	8.3	8.5	
2862.3			2.8	332	8.3	8.6	
2862.6			2.8	328	8.2	8.5	
2862.9			2.8	327	8.2	8.4	
2863.2			2.9	328	8.3	8.3	
2863.5			2.9	327	8.4	8.3	
2863.8			2.9	328	8.5	8.3	
2864.1			2.9	319	8.4	8.3	
2864.4			2.9	311	8.2	8.4	
2864.7			2.9	304	8.1	8.4	
2865.0			2.9	299	8.0	8.4	
2865.3			2.9	300	8.1	8.5	
2865.6			2.9	296	8.1	8.6	
2865.9			2.8	296	8.2	8.6	
2866.2			2.8	298	8.1	8.6	
2866.5			2.8	300	8.0	8.6	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2866.8			2.8	301	8.0	8.6	
2867.1			2.8	304	8.0	8.7	
2867.4			2.8	305	7.9	8.9	
2867.7			2.7	302	7.9	8.9	
2868.1			2.7	301	7.9	9.0	
2868.4			2.7	300	8.0	9.0	
2868.7			2.7	297	8.0	8.9	
2869.0			2.7	298	8.1	9.0	
2869.3			2.6	300	8.1	9.0	
2869.6			2.6	296	8.0	8.9	
2869.9			2.6	296	8.1	8.9	
2870.2			2.7	295	8.2	8.7	
2870.5			2.7	292	8.3	8.6	
2870.8			2.6	292	8.3	8.6	
2871.1			2.5	291	8.2	8.4	
2871.4			2.5	292	8.2	8.4	
2871.7			2.4	289	8.2	8.3	
2872.0			2.4	286	8.2	8.2	
2872.3	12.6	89	2.4	282	8.2	8.2	D
2872.6	12.6	80	2.3	280	8.1	8.1	D
2872.9	12.4	76	2.3	285	8.0	8.0	D
2873.2	11.9	74	2.3	288	8.0	8.2	D
2873.5			2.3	288	7.9	8.3	
2873.8			2.3	288	7.7	8.3	
2874.1			2.3	286	7.6	8.4	
2874.5			2.3	282	7.5	8.3	
2874.8			2.3	284	7.5	8.3	
2875.1			2.3	285	7.5	8.3	
2875.4			2.3	286	7.7	8.4	
2875.7			2.2	287	7.8	8.5	
2876.0			2.2	287	7.9	8.6	
2876.3			2.2	286	8.0	8.6	
2876.6			2.1	285	8.1	8.5	
2876.9	32.2	287	2.1	286	8.1	8.3	B
2877.2	27.1	296	2.1	283	8.1	8.2	D
2877.5	31.7	146	2.1	284	8.2	8.2	D
2877.8	31.3	140	2.1	287	8.2	8.2	D
2878.1			2.1	287	8.2	8.5	
2878.4			2.1	291	8.2	8.6	
2878.7			2.1	293	8.0	8.6	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2879.0	39.1	295	2.2	297	8.0	8.6	D
2879.3			2.2	300	8.1	8.5	
2879.6			2.3	302	8.2	8.6	
2879.9			2.3	306	8.3	8.7	
2880.2			2.3	308	8.4	8.7	
2880.6			2.3	313	8.3	8.7	
2880.9			2.3	315	8.2	8.3	
2881.2			2.3	316	8.1	8.0	
2881.5			2.3	319	8.0	7.7	
2881.8			2.3	321	7.8	7.5	
2882.1			2.3	325	7.8	7.4	
2882.4			2.3	318	7.7	7.3	
2882.7			2.3	319	7.7	7.2	
2883.0			2.3	321	7.7	7.1	
2883.3			2.3	321	7.8	7.1	
2883.6			2.4	330	7.9	7.2	
2883.9			2.4	327	8.1	7.3	
2884.2			2.4	317	8.0	7.3	
2884.5			2.4	315	7.9	7.3	
2884.8			2.5	311	7.6	7.3	
2885.1			2.5	311	7.3	7.4	
2885.4			2.5	314	7.2	7.5	
2885.7			2.5	309	7.2	7.6	
2886.0			2.5	310	7.5	7.7	
2886.3			2.5	312	7.7	7.6	
2886.6			2.5	305	7.8	7.6	
2887.0			2.5	305	7.9	7.6	
2887.3			2.5	302	8.0	7.7	
2887.6			2.5	297	8.0	7.8	
2887.9			2.5	300	8.0	8.0	
2888.2			2.5	297	8.0	8.1	
2888.5			2.5	294	7.9	7.8	
2888.8			2.5	296	7.9	7.5	
2889.1			2.5	295	7.8	7.3	
2889.4			2.4	297	7.8	7.2	
2889.7			2.4	294	7.7	7.2	
2890.0			2.4	292	7.6	7.3	
2890.3			2.4	291	7.5	7.3	
2890.6			2.4	292	7.5	7.3	
2890.9			2.4	293	7.5	7.5	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2891.2			2.5	298	7.6	7.8	
2891.5			2.4	299	7.7	8.0	
2891.8			2.4	297	7.9	8.3	
2892.1			2.4	295	8.0	8.5	
2892.4			2.4	293	8.0	8.4	
2892.7	27.6	33	2.4	295	7.9	8.3	D
2893.0	21.0	29	2.4	298	7.7	8.1	D
2893.4	24.7	34	2.3	292	7.6	8.0	B
2893.7			2.3	288	7.8	8.0	
2894.0			2.3	285	7.9	8.1	
2894.3			2.3	282	8.1	8.1	
2894.6			2.3	285	8.1	8.3	
2894.9			2.3	285	8.0	8.4	
2895.2			2.3	284	8.1	8.4	
2895.5			2.3	285	8.1	8.5	
2895.8			2.3	285	8.1	8.5	
2896.1			2.3	285	8.1	8.4	
2896.4			2.3	286	8.0	8.5	
2896.7			2.3	282	8.0	8.6	
2897.0			2.3	281	8.1	8.6	
2897.3			2.2	280	8.3	8.6	
2897.6			2.2	282	8.3	8.6	
2897.9			2.2	284	8.3	8.6	
2898.2			2.2	286	8.3	8.6	
2898.5			2.2	289	8.3	8.6	
2898.8			2.2	291	8.4	8.7	
2899.1			2.3	298	8.4	8.7	
2899.4			2.3	306	8.4	8.7	
2899.8			2.3	311	8.4	8.6	
2900.1			2.3	316	8.4	8.5	
2900.4			2.3	317	8.4	8.5	
2900.7			2.3	314	8.3	8.6	
2901.0			2.3	317	8.3	8.8	
2901.3			2.4	317	8.3	9.0	
2901.6			2.4	321	8.3	9.0	
2901.9			2.4	323	8.3	9.1	
2902.2			2.4	322	8.3	9.1	
2902.5			2.4	323	8.3	9.0	
2902.8			2.5	317	8.2	8.8	
2903.1			2.5	318	8.2	8.8	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2903.4			2.5	314	8.3	8.7	
2903.7			2.6	314	8.3	8.7	
2904.0			2.6	317	8.4	8.7	
2904.3	53.6	251	2.5	316	8.4	8.6	D
2904.6	54.3	249	2.5	318	8.6	8.6	D
2904.9	53.6	250	2.5	322	8.9	8.5	D
2905.2	53.8	247	2.6	319	9.1	8.4	D
2905.5			2.6	317	9.4	8.4	
2905.8			2.6	316	9.5	8.4	
2906.2			2.6	313	9.9	8.4	
2906.5			2.6	311	10.2	8.4	
2906.8			2.6	309	10.6	8.5	
2907.1			2.6	304	10.5	8.4	
2907.4			2.6	301	9.8	8.1	
2907.7			2.6	302	9.3	7.8	
2908.0			2.7	305	8.8	7.6	
2908.3			2.7	310	8.6	7.3	
2908.6			2.7	313	8.7	7.4	
2908.9			2.7	313	8.8	7.5	
2909.2			2.7	315	8.7	7.6	
2909.5			2.7	321	8.6	7.7	
2909.8			2.7	323	8.5	7.9	
2910.1			2.7	322	8.4	8.2	
2910.4			2.7	317	8.4	8.4	
2910.7			2.7	314	8.3	8.5	
2911.0			2.6	312	8.0	8.3	
2911.3			2.5	312	7.8	7.9	
2911.6			2.5	312	7.7	7.6	
2911.9			2.5	313	7.7	7.3	
2912.2			2.5	313	7.8	7.2	
2912.6			2.5	314	7.8	7.1	
2912.9			2.5	315	7.9	7.1	
2913.2			2.5	315	7.9	7.2	
2913.5	23.7	202	2.4	316	7.6	7.2	C
2913.8	22.3	189	2.4	314	7.5	7.1	A
2914.1	23.0	192	2.4	313	7.3	7.1	A
2914.4	23.3	190	2.4	312	7.1	7.1	A
2914.7			2.4	311	7.3	7.2	
2915.0			2.4	310	7.5	7.4	
2915.3			2.4	305	7.6	7.5	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2915.6			2.5	300	7.6	7.6	
2915.9			2.5	296	7.6	7.7	
2916.2			2.5	297	7.5	7.7	
2916.5			2.5	300	7.4	7.7	
2916.8			2.5	302	7.4	7.7	
2917.1			2.5	299	7.4	7.7	
2917.4			2.5	295	7.5	7.7	
2917.7			2.5	294	7.6	7.7	
2918.0			2.5	295	7.7	7.7	
2918.3			2.5	299	7.7	7.8	
2918.7			2.5	301	7.7	7.8	
2919.0	14.3	188	2.5	304	7.6	7.9	D
2919.3	14.0	175	2.5	302	7.7	8.2	D
2919.6	11.7	183	2.5	299	7.7	8.3	D
2919.9	11.2	181	2.5	296	7.8	8.3	D
2920.2	17.9	189	2.5	293	7.8	8.3	D
2920.5			2.6	292	7.7	8.1	
2920.8			2.6	291	7.6	8.2	
2921.1			2.6	291	7.7	8.3	
2921.4			2.6	291	7.8	8.4	
2921.7			2.5	290	7.8	8.5	
2922.0			2.5	294	7.8	8.4	
2922.3			2.4	292	8.0	8.5	
2922.6			2.4	288	8.1	8.5	
2922.9			2.4	283	8.3	8.6	
2923.2			2.3	280	8.3	8.6	
2923.5			2.3	279	8.3	8.6	
2923.8			2.3	276	8.2	8.5	
2924.1			2.3	279	8.2	8.5	
2924.4			2.3	280	8.2	8.5	
2924.7			2.3	281	8.2	8.5	
2925.1			2.3	284	7.9	8.4	
2925.4			2.3	285	7.7	8.3	
2925.7			2.3	281	7.7	8.2	
2926.0			2.3	281	7.8	8.1	
2926.3			2.3	278	8.1	8.0	
2926.6			2.2	278	8.3	7.9	
2926.9			2.2	281	8.4	7.9	
2927.2			2.2	281	8.2	7.9	
2927.5			2.2	282	8.1	8.0	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2927.8			2.2	282	7.9	8.1	
2928.1			2.2	282	7.8	8.1	
2928.4			2.2	283	7.7	8.2	
2928.7	40.9	352	2.2	284	7.7	8.2	B
2929.0	39.3	347	2.2	283	7.7	8.3	D
2929.3	38.9	348	2.2	281	7.7	8.3	D
2929.6			2.2	284	7.5	8.2	
2929.9			2.2	286	7.4	8.0	
2930.2			2.2	288	7.3	7.9	
2930.5			2.3	288	7.2	7.8	
2930.8			2.2	286	7.3	7.9	
2931.1			2.2	286	7.3	7.8	
2931.5			2.2	287	7.1	7.7	
2931.8			2.2	288	6.9	7.7	
2932.1			2.2	291	6.8	7.6	
2932.4			2.2	292	6.8	7.7	
2932.7			2.2	295	6.8	7.6	
2933.0			2.1	295	6.9	7.5	
2933.3			2.2	295	7.0	7.4	
2933.6			2.2	295	7.1	7.4	
2933.9			2.3	293	7.2	7.5	
2934.2			2.3	296	7.1	7.5	
2934.5			2.3	302	7.1	7.5	
2934.8			2.3	308	7.1	7.5	
2935.1			2.3	313	7.1	7.4	
2935.4			2.3	317	7.2	7.3	
2935.7			2.3	319	7.3	7.2	
2936.0			2.3	321	7.3	7.3	
2936.3	38.4	359	2.3	324	7.3	7.3	D
2936.6	36.4	356	2.3	323	7.4	7.4	D
2936.9			2.3	322	7.5	7.4	
2937.2	27.2	151	2.3	321	7.5	7.5	D
2937.5	34.1	140	2.3	318	7.5	7.6	B
2937.9	35.5	144	2.3	320	7.5	7.8	D
2938.2	31.1	141	2.3	320	7.5	8.0	B
2938.5	37.3	360	2.3	320	7.4	8.0	D
2938.8			2.3	320	7.3	7.8	
2939.1			2.3	319	7.3	7.5	
2939.4			2.4	317	7.3	7.2	
2939.7			2.4	308	7.3	7.0	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2940.0			2.4	303	7.2	6.9	
2940.3			2.5	296	7.2	6.9	
2940.6			2.5	293	7.2	7.0	
2940.9			2.5	296	7.2	7.1	
2941.2			2.5	298	7.2	7.4	
2941.5			2.6	298	7.3	7.6	
2941.8			2.6	299	7.3	7.8	
2942.1			2.6	298	7.4	7.9	
2942.4	64.0	105	2.6	300	7.4	8.0	D
2942.7	54.0	106	2.6	300	7.5	8.2	D
2943.0			2.6	299	7.6	8.4	
2943.3			2.6	296	7.7	8.4	
2943.6			2.6	294	7.8	8.5	
2943.9			2.6	294	7.8	8.4	
2944.3	45.7	147	2.6	297	7.9	8.3	B
2944.6			2.6	302	8.0	8.2	
2944.9	4.6	285	2.6	300	7.9	8.1	D
2945.2	57.8	353	2.6	300	7.7	8.2	D
2945.5			2.5	295	7.4	8.4	
2945.8			2.5	295	7.4	8.3	
2946.1			2.5	295	7.5	8.3	
2946.4			2.5	294	7.8	8.3	
2946.7			2.5	293	8.0	8.3	
2947.0			2.4	289	8.2	8.4	
2947.3			2.4	286	8.2	8.5	
2947.6	24.0	329	2.4	283	8.1	8.3	D
2947.9	26.6	333	2.3	278	8.0	8.2	D
2948.2	26.7	332	2.3	275	7.9	8.2	D
2948.5			2.3	275	7.8	8.3	
2948.8			2.3	275	7.7	8.3	
2949.1			2.3	275	7.7	8.3	
2949.4			2.3	274	7.6	8.2	
2949.7	46.1	301	2.3	275	7.6	7.8	D
2950.0	55.4	14	2.3	279	7.7	7.4	D
2950.3	55.8	8	2.3	281	7.8	7.2	D
2950.7			2.3	281	7.9	7.0	
2951.0			2.3	280	8.1	7.1	
2951.3			2.3	279	8.0	7.1	
2951.6			2.2	281	8.0	7.1	
2951.9			2.2	284	8.0	7.2	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2952.2			2.2	291	8.0	7.2	
2952.5			2.2	297	8.1	7.5	
2952.8			2.1	301	8.1	7.9	
2953.1			2.1	302	8.0	8.5	
2953.4			2.0	302	7.9	8.8	
2953.7			2.0	305	7.7	9.1	
2954.0			2.0	307	7.6	9.0	
2954.3			2.1	306	7.7	8.9	
2954.6			2.0	306	7.9	8.7	
2954.9			2.1	307	8.0	8.6	
2955.2			2.1	307	8.2	8.5	
2955.5			2.2	318	8.2	8.5	
2955.8			2.2	318	8.2	8.3	
2956.1	12.7	340	2.2	318	8.2	8.3	D
2956.4			2.2	317	8.1	8.4	
2956.8	14.3	4	2.2	310	8.1	8.6	B
2957.1			2.1	311	8.0	8.9	
2957.4			2.0	313	7.9	9.1	
2957.7			2.0	315	7.9	9.2	
2958.0			2.0	316	7.8	9.2	
2958.3			2.0	317	7.8	9.4	
2958.6			2.1	318	7.9	9.5	
2958.9			2.1	317	8.0	9.8	
2959.2			2.1	318	8.1	10.0	
2959.5	15.8	58	2.1	317	8.1	10.0	D
2959.8	15.4	50	2.2	318	8.1	10.0	D
2960.1	13.3	35	2.2	320	8.2	9.6	D
2960.4			2.3	321	8.2	9.1	
2960.7			2.3	323	8.3	8.9	
2961.0			2.3	323	8.3	8.8	
2961.3			2.3	321	8.3	8.8	
2961.6			2.3	316	8.3	8.8	
2961.9			2.3	310	8.2	8.7	
2962.2			2.3	303	8.2	8.7	
2962.5			2.3	297	8.1	8.6	
2962.8			2.3	296	8.1	8.6	
2963.2			2.3	298	8.1	8.6	
2963.5			2.3	297	8.1	8.6	
2963.8			2.3	299	8.1	8.6	
2964.1			2.3	297	8.2	8.6	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2964.4			2.3	294	8.2	8.7	
2964.7			2.3	290	8.2	8.8	
2965.0			2.3	286	8.2	9.0	
2965.3			2.3	280	8.2	9.2	
2965.6			2.3	276	8.3	9.2	
2965.9			2.3	276	8.3	9.0	
2966.2			2.3	276	8.2	8.7	
2966.5			2.3	275	8.2	8.4	
2966.8			2.3	274	8.2	8.3	
2967.1			2.2	273	8.2	8.4	
2967.4			2.2	271	8.3	8.5	
2967.7			2.1	269	8.3	8.5	
2968.0			2.1	268	8.3	8.4	
2968.3			2.0	265	8.1	8.2	
2968.6	49.1	213	2.0	261	8.1	8.1	D
2968.9	49.6	212	2.0	264	8.1	8.1	D
2969.2	54.1	235	2.0	271	8.1	8.2	D
2969.6	53.9	235	2.0	276	8.2	8.4	D
2969.9			1.9	281	8.2	8.5	
2970.2			1.9	283	8.1	8.6	
2970.5			1.9	284	8.0	8.6	
2970.8			1.9	282	7.9	8.6	
2971.1			1.9	282	7.8	8.6	
2971.4			1.9	282	7.8	8.6	
2971.7			1.9	281	7.8	8.4	
2972.0			1.9	281	7.8	8.4	
2972.3			1.8	281	8.0	8.4	
2972.6			1.8	282	8.1	8.4	
2972.9	36.1	254	1.8	282	8.2	8.6	D
2973.2	36.1	252	1.8	282	8.2	8.6	D
2973.5	35.9	250	1.8	282	8.2	8.6	D
2973.8	32.7	253	1.8	284	8.1	8.2	D
2974.1			1.8	289	8.0	7.8	
2974.4			1.8	293	7.9	7.5	
2974.7			1.8	294	7.9	7.5	
2975.0			1.8	297	7.9	7.7	
2975.3			1.8	297	7.9	8.0	
2975.6			1.8	301	7.9	8.3	
2976.0	18.6	219	1.7	305	7.9	8.5	D
2976.3	17.7	211	1.7	308	7.9	8.5	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2976.6	16.5	209	1.6	312	8.0	8.5	D
2976.9	16.7	206	1.6	314	8.1	8.4	D
2977.2	53.8	213	1.6	317	8.1	8.4	D
2977.5	89.0	215	1.7	316	8.1	8.4	D
2977.8	54.4	324	1.7	312	8.1	8.4	B
2978.1			1.7	313	7.9	8.3	
2978.4			1.7	312	7.8	8.3	
2978.7			1.7	314	7.8	8.2	
2979.0			1.7	318	7.9	8.2	
2979.3			1.7	316	7.9	8.2	
2979.6			1.7	316	8.0	8.3	
2979.9			1.7	312	8.0	8.4	
2980.2			1.7	310	7.9	8.4	
2980.5			1.7	312	8.0	8.4	
2980.8	49.2	196	1.7	311	8.0	8.4	D
2981.1			1.8	314	8.0	8.4	
2981.4			1.8	318	8.1	8.3	
2981.7			1.8	318	8.1	8.4	
2982.0			1.9	321	8.1	8.3	
2982.4	20.0	225	2.0	324	8.1	8.3	A
2982.7	19.7	221	2.1	324	8.1	8.2	A
2983.0	20.3	215	2.1	321	8.1	8.1	A
2983.3	7.3	164	2.1	318	8.1	8.0	D
2983.6	31.4	187	2.1	311	8.0	8.0	D
2983.9	32.6	185	2.1	309	8.0	7.9	D
2984.2	34.9	182	2.1	310	8.1	8.0	D
2984.5	36.0	179	2.1	310	8.1	8.0	D
2984.8			2.0	312	8.2	8.1	
2985.1			1.9	308	8.2	8.2	
2985.4			1.9	302	8.1	8.2	
2985.7			1.9	306	8.2	8.3	
2986.0			1.9	305	8.3	8.3	
2986.3			1.9	312	8.3	8.3	
2986.6			1.9	306	8.3	8.5	
2986.9			1.9	302	8.3	8.5	
2987.2			2.0	296	8.3	8.5	
2987.5	64.0	227	2.0	287	8.3	8.7	D
2987.8	64.8	226	2.0	291	8.3	8.7	D
2988.1			2.1	291	8.3	8.6	
2988.4			2.1	290	8.2	8.5	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
2988.8			2.1	288	8.1	8.4	
2989.1			2.1	283	8.0	8.4	
2989.4			2.1	279	8.1	8.6	
2989.7			2.1	275	8.2	8.6	
2990.0			2.0	275	8.3	8.6	
2990.3			2.0	276	8.4	8.6	
2990.6			1.9	274	8.3	8.6	
2990.9			1.9	274	8.3	8.7	
2991.2			1.9	271	8.3	8.7	
2991.5			1.9	269	8.3	8.7	
2991.8			1.8	269	8.3	8.7	
2992.1			1.8	267	8.5	8.7	
2992.4			1.8	263	8.5	8.8	
2992.7			1.7	262	8.7	8.9	
2993.0			1.7	263	8.9	8.9	
2993.3			1.7	264	9.2	8.8	
2993.6			1.7	265	9.9	8.7	
2993.9			1.8	265	10.4	8.7	
2994.2			1.8	262	10.7	8.6	
2994.5			1.8	259	10.7	8.6	
2994.9	35.8	243	1.8	263	10.1	8.6	B
2995.2	36.8	304	1.8	266	9.4	8.7	B
2995.5	36.6	245	1.8	271	9.0	8.8	D
2995.8			1.8	275	8.9	8.8	
2996.1			1.8	275	8.9	8.8	
2996.4			1.8	276	9.0	8.7	
2996.7			1.8	277	8.8	8.7	
2997.0			1.8	279	8.6	8.7	
2997.3			1.7	281	8.5	8.8	
2997.6			1.7	288	8.5	8.8	
2997.9			1.7	293	8.4	8.8	
2998.2			1.7	299	8.4	8.8	
2998.5			1.7	306	8.3	8.9	
2998.8			1.7	307	8.3	9.3	
2999.1			1.8	311	8.3	9.9	
2999.4			1.8	312	8.3	10.8	
2999.7			1.8	306	8.3	11.4	
3000.0			1.7	309	8.3	11.1	
3000.3			1.7	308	8.3	10.4	
3000.6			1.8	307	8.3	9.7	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
3000.9			1.8	312	8.3	8.9	
3001.3			1.9	313	8.3	8.8	
3001.6			2.0	317	8.3	8.8	
3001.9			2.1	323	8.4	8.8	
3002.2			2.2	324	8.3	8.7	
3002.5			2.2	324	8.3	8.7	
3002.8			2.3	321	8.4	8.7	
3003.1	43.5	294	2.3	316	8.3	8.7	D
3003.4			2.2	314	8.6	8.7	
3003.7			2.3	319	9.7	8.6	
3004.0			2.2	320	10.7	8.5	
3004.3			2.2	325	11.6	8.4	
3004.6			2.2	323	11.3	8.4	
3004.9			2.2	321	10.3	8.4	
3005.2	44.9	248	2.3	322	9.0	8.5	D
3005.5			2.3	322	8.5	8.5	
3005.8			2.3	326	8.4	8.6	
3006.1			2.3	326	8.5	8.7	
3006.4			2.3	317	8.6	8.6	
3006.7	48.9	243	2.4	318	8.6	8.6	D
3007.0			2.4	317	8.9	8.6	
3007.3			2.4	323	9.2	8.6	
3007.7	53.0	253	2.4	324	9.2	8.7	D
3008.0			2.4	318	9.1	8.6	
3008.3			2.3	310	8.7	8.7	
3008.6			2.3	304	8.4	8.7	
3008.9			2.3	300	8.4	8.8	
3009.2			2.3	293	8.5	8.9	
3009.5			2.3	292	8.5	8.8	
3009.8			2.3	290	8.4	8.7	
3010.1			2.3	292	8.4	8.7	
3010.4			2.3	292	8.4	8.7	
3010.7			2.3	294	8.4	8.7	
3011.0			2.3	291	8.4	8.7	
3011.3			2.3	288	8.4	8.8	
3011.6			2.3	285	8.4	8.9	
3011.9			2.3	282	8.5	8.9	
3012.2	36.8	108	2.3	280	8.5	9.0	D
3012.5	36.2	104	2.3	281	8.5	9.0	D
3012.8			2.2	281	8.5	8.9	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
3013.1			2.2	280	8.5	8.6	
3013.4			2.1	278	8.5	8.8	
3013.7			2.0	275	8.5	8.8	
3014.1	62.8	88	2.0	277	8.4	8.7	D
3014.4	31.5	68	1.9	275	8.4	8.8	D
3014.7	31.5	60	2.0	274	8.4	8.7	D
3015.0	31.6	49	2.0	279	8.3	8.7	D
3015.3	30.9	42	2.0	281	8.3	8.7	D
3015.6	17.6	269	2.0	283	8.4	8.7	D
3015.9	17.9	263	2.1	286	8.4	8.7	D
3016.2			2.1	288	8.4	8.8	
3016.5			2.1	288	8.5	8.9	
3016.8			2.2	292	8.4	8.8	
3017.1			2.2	296	8.5	8.9	
3017.4			2.2	302	8.4	8.8	
3017.7			2.2	311	8.4	8.8	
3018.0			2.2	318	8.4	8.9	
3018.3			2.2	322	8.4	8.9	
3018.6	58.2	103	2.2	322	8.4	8.8	D
3018.9			2.2	322	8.4	8.8	
3019.2			2.3	322	8.3	8.8	
3019.5			2.3	325	8.4	8.8	
3019.8			2.3	328	8.4	8.6	
3020.1			2.3	331	8.4	8.8	
3020.5			2.4	332	8.5	8.8	
3020.8			2.4	328	8.5	8.8	
3021.1			2.4	325	8.5	8.7	
3021.4	62.4	109	2.4	326	8.5	8.7	D
3021.7			2.4	324	8.9	8.7	
3022.0			2.4	321	9.2	8.6	
3022.3			2.4	316	10.0	8.5	
3022.6			2.5	311	10.5	8.4	
3022.9			2.5	306	10.7	8.4	
3023.2	17.2	359	2.5	304	10.4	8.6	D
3023.5	10.7	356	2.5	300	9.8	8.6	D
3023.8	9.8	351	2.5	297	9.1	8.5	D
3024.1	9.6	338	2.5	296	8.5	8.6	D
3024.4	9.9	332	2.5	299	8.3	8.6	D
3024.7			2.5	297	8.4	8.8	
3025.0			2.5	295	8.4	8.9	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
3025.3			2.5	293	8.5	8.9	
3025.6			2.5	295	8.4	8.9	
3025.9			2.5	298	8.4	8.9	
3026.2			2.4	297	8.4	9.1	
3026.5			2.4	295	8.4	9.3	
3026.9			2.3	291	8.3	9.4	
3027.2			2.3	287	8.3	9.7	
3027.5			2.3	284	8.2	9.8	
3027.8	45.2	76	2.3	280	8.2	9.6	D
3028.1	45.5	73	2.3	279	8.3	9.3	D
3028.4			2.3	274	8.3	8.9	
3028.7	49.8	75	2.3	275	8.4	8.7	D
3029.0			2.3	276	8.4	8.6	
3029.3			2.3	278	8.4	8.6	
3029.6			2.3	282	8.4	8.5	
3029.9			2.3	282	8.4	8.5	
3030.2	23.0	171	2.3	283	8.5	8.5	D
3030.5	23.0	167	2.3	282	8.6	8.5	D
3030.8	22.4	163	2.3	283	8.8	8.6	D
3031.1			2.3	286	9.2	8.7	
3031.4			2.3	290	9.6	8.6	
3031.7	24.8	176	2.3	297	9.9	8.5	D
3032.0			2.3	296	10.1	8.5	
3032.3			2.3	296	9.9	8.4	
3032.6			2.3	293	9.6	8.5	
3033.0			2.3	288	9.5	8.6	
3033.3			2.3	285	9.1	8.6	
3033.6			2.3	282	8.8	8.6	
3033.9			2.3	279	8.8	8.7	
3034.2	56.1	127	2.3	277	8.6	8.6	D
3034.5	55.7	124	2.3	278	8.6	8.7	D
3034.8			2.3	276	8.7	8.7	
3035.1			2.3	279	9.0	8.7	
3035.4			2.3	283	9.2	8.6	
3035.7			2.3	284	9.4	8.5	
3036.0			2.3	287	9.4	8.5	
3036.3			2.3	283	9.5	8.5	
3036.6			2.3	282	9.5	8.6	
3036.9	49.3	46	2.3	284	9.6	8.5	A
3037.2	50.1	43	2.3	284	9.5	8.4	C

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
3037.5	49.5	44	2.3	287	9.5	8.4	C
3037.8	50.0	49	2.3	287	9.3	8.3	C
3038.1			2.3	282	9.2	8.4	
3038.4			2.3	278	9.1	8.6	
3038.7			2.3	276	8.9	8.6	
3039.0			2.3	276	8.7	8.6	
3039.4			2.3	278	8.6	8.7	
3039.7			2.3	279	8.7	8.6	
3040.0			2.3	277	9.1	8.5	
3040.3			2.3	277	9.5	8.5	
3040.6	44.3	46	2.2	277	9.9	8.5	D
3040.9			2.2	280	10.0	8.4	
3041.2	64.5	11	2.1	283	9.8	8.4	D
3041.5			2.0	285	9.4	8.4	
3041.8			2.0	285	9.0	8.4	
3042.1	45.9	62	2.0	286	8.7	8.5	D
3042.4	46.3	58	2.0	287	8.4	8.5	D
3042.7			2.0	289	8.2	8.4	
3043.0			2.0	294	8.1	8.4	
3043.3			2.0	298	8.1	8.4	
3043.6			2.0	301	8.0	8.4	
3043.9			1.9	306	7.9	8.3	
3044.2			2.0	308	7.9	8.3	
3044.5			2.1	309	7.9	8.4	
3044.8			2.2	312	7.9	8.5	
3045.1			2.3	314	8.0	8.6	
3045.4			2.3	315	8.1	8.8	
3045.8			2.3	317	8.1	8.8	
3046.1			2.3	317	8.1	8.8	
3046.4			2.3	319	8.1	8.9	
3046.7			2.3	318	8.2	9.0	
3047.0			2.3	316	8.3	9.6	
3047.3			2.3	318	8.2	10.1	
3047.6			2.3	317	8.1	10.5	
3047.9			2.3	318	8.1	10.6	
3048.2			2.3	322	8.0	10.0	
3048.5			2.3	321	8.1	9.4	
3048.8			2.3	319	8.1	8.9	
3049.1			2.3	319	8.2	8.7	
3049.4			2.3	322	8.2	8.8	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
3049.7			2.4	323	8.2	8.8	
3050.0			2.4	319	8.3	8.6	
3050.3			2.4	324	8.2	8.6	
3050.6			2.5	321	8.2	8.5	
3050.9			2.5	327	8.2	8.5	
3051.2			2.5	332		8.5	
3051.5			2.6	327		8.5	
3051.8			2.6	330	8.5	8.6	
3052.2			2.7	323	8.5	8.7	
3052.5			2.7	323	8.7	8.6	
3052.8			2.8	326	8.8	8.5	
3053.1			2.8	323	9.0	8.4	
3053.4			2.8	327	9.2	8.4	
3053.7			2.7	323	9.3	8.4	
3054.0			2.7	323	9.5	8.4	
3054.3			2.8	321	9.6	8.5	
3054.6	67.3	81	2.8	319	9.4	8.5	D
3054.9			2.8	320	9.3	8.6	
3055.2	37.3	354	2.7	318	9.2	8.7	B
3055.5			2.7	319	9.0	8.7	
3055.8	31.3	349	2.8	313	8.8	8.6	D
3056.1	30.8	349	2.8	308	8.7	8.5	D
3056.4			2.9	308	8.6	8.5	
3056.7			2.9	306	8.5	8.5	
3057.0			2.9	311	8.5	8.5	
3057.3			2.8	310	8.4	8.6	
3057.6			2.8	306	8.2	8.5	
3057.9			2.8	309	8.1	8.4	
3058.2			2.8	314	8.1	8.5	
3058.6			2.7	315	8.2	9.0	
3058.9			2.7	318	8.3	9.5	
3059.2			2.6	317	8.3	9.6	
3059.5			2.6	315	8.4	9.5	
3059.8			2.6	312	8.3	9.1	
3060.1			2.6	311	8.3	8.7	
3060.4			2.6	305	8.3	8.6	
3060.7			2.6	303	8.3	8.7	
3061.0			2.5	303	8.4	8.7	
3061.3			2.4	304	8.4	8.8	
3061.6			2.4	305	8.4	8.8	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
3061.9	60.6	268	2.4	300	8.4	8.8	D
3062.2	58.4	265	2.3	301	8.4	8.7	D
3062.5			2.4	298	8.4	8.7	
3062.8			2.3	295	8.4	8.6	
3063.1	70.9	128	2.3	296	8.4	8.6	D
3063.4			2.4	296	8.4	8.6	
3063.7			2.4	298	8.4	8.7	
3064.0			2.5	301	8.4	8.7	
3064.3			2.5	301	8.4	8.8	
3064.6			2.6	304	8.4	8.8	
3065.0			2.5	308	8.5	8.8	
3065.3			2.5	316	8.4	8.8	
3065.6			2.5	322	8.4	8.7	
3065.9			2.5	323	8.4	8.7	
3066.2			2.5	325	8.3	8.7	
3066.5	16.6	27	2.5	326	8.4	9.0	D
3066.8	16.0	17	2.6	328	8.3	9.8	D
3067.1	15.0	26	2.6	330	8.2	10.3	D
3067.4	14.9	28	2.6	327	8.2	10.7	D
3067.7			2.5	326	8.1	10.6	
3068.0			2.5	325	8.1	10.0	
3068.3			2.5	329	8.0	9.6	
3068.6	55.9	310	2.5	331	8.1	9.7	D
3068.9	33.1	92	2.6	332	8.1	9.6	D
3069.2			2.6	333	8.2	9.5	
3069.5			2.6	332	8.3	9.2	
3069.8	36.3	83	2.7	337	8.4	8.7	D
3070.1	34.9	93	2.7	342	8.4	8.7	D
3070.4			2.8	340	8.3	8.6	
3070.7			2.8	340	8.3	8.6	
3071.1			2.8	344	8.3	8.6	
3071.4			2.9	337	8.2	8.6	
3071.7			2.9	336	8.3	8.7	
3072.0	28.7	80	2.9	330	8.2	8.7	C
3072.3	28.9	69	2.9	325	8.2	8.6	C
3072.6	29.0	63	2.9	324	8.2	8.6	C
3072.9			3.0	321	8.2	8.6	
3073.			3.0	322	8.3	8.7	
3073.5			3.0	317	8.3	8.7	
3073.8	38.8	232	3.0	312	8.3	8.6	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
3074.1	41.7	40	2.9	314	8.0	8.4	D
3074.4	42.5	35	2.9	316	7.6	8.0	D

TEXACO CANADA RESOURCES — TEXACO MOBIL BOVIE LAKE — SUMMARY

DEPTH	DIP	DIP AZM	DEV	DEV AZM	DIAM 1-3	DIAM 2-4	QUAL
TOP 1900.9	4.2	31.	0.7	33.	8.8	8.8	A
BOTTOM 2048.4	0.6	149.	0.0	0.	9.3	8.8	A
TOP 2611.1	49.8	28.	4.2	289.	8.6	9.1	
BOTTOM 3074.4	42.5	35.	2.9	316.	7.6	8.0	D

Schlumberger

TEXACO CANADA INC.

TEC 212-A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 69
ROTARY ☑ SERVICE ☐
FIELD Bowe Lake
LEASE Jonas Wabil
WELL NO. 11-15
PROVINCE N.W.T.

CONTRACTOR Kenting Drilling RIG NO. 22E DATE 80/12/05

MORNING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C.	PUMP SPM														
NO. D.C.	PUMP PRESS														
PUMP STROKE	ROTARY RPM														
LINER SIZE	WT. ON BIT														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0000	0800	Jean down Staff pool Shoe Lines, Clean Tanks	8	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lockyer

DAYLIGHT TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C.	PUMP SPM														
NO. D.C.	PUMP PRESS														
PUMP STROKE	ROTARY RPM														
LINER SIZE	WT. ON BIT														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
		TAKE DOWN TARPS FLOOR & PUMP HOUSE		
		TAKE DOWN PUMP HOUSE		
		MUD TANKS READY TO LOAD OUT.		
		SHUT DOWN WATER PUMPS & BLOW LINES		
		REMOVE STORE ALL WATER STEAM & AIR LINES.		
		PUMPS & PRECHARGE SKID TO LOAD OUT.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Rig RELEASED @ 1600 hrs Dec 4

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R. Hagner

EVENING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C.	PUMP SPM														
NO. D.C.	PUMP PRESS														
PUMP STROKE	ROTARY RPM														
LINER SIZE	WT. ON BIT														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
		SPOOL UP DRILLING LINE		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER

CAMP ☐ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

ROTARY ☑ SERVICE ☐

REPORT NUMBER 68
FIELD Bower Lake
LEASE Texaco Model
WELL NO. M-78
PROVINCE N.W.T.

CONTRACTOR Kenting Drilling RIG NO. 22E DATE 80/3/27

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNITS
SIZE D.C.	PUMP SPM													Bicarb	46.4
NO. D.C.	PUMP PRESS														
PUMP STROKE	ROTARY RPM														
LINER SIZE	WT. ON BIT														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0100	Circulate	1	
0100	0200	Cement + Displace plug #1	1	
0200	0230	Hoist 10 stands of tbg		30
0230	0400	Circulate	1	30
0400	0530	Hoist 34 stands	1	30
0530	0600	Cement + Displace 1st Stage of plug #2		30
0600	0630	Hoist 7 stands of tbg		30
0630	0800	Circulate	1	30

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Cement Plug #1 2982 - 3082 mKB
Cemented w/ 4.56 m³ 3 T 2-1-8% SlurryHR7 Slurry 1420
Displace w/ 21.23 m³ POB 0230
No Feel

Cement Plug #2 1545-1860 mKB
1st Stg - 1860 - 1705 Cemented w/ 6.48 m³ 6T 1-1-2% .3% HR4 Slurry 1590
Displace w/ 11.85 m³ POB 0500

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Leon Lapointe

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNITS
SIZE D.C.	PUMP SPM														
NO. D.C.	PUMP PRESS														
PUMP STROKE	ROTARY RPM														
LINER SIZE	WT. ON BIT														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0800	0830	CEMENT + DISPLACE plug #3		
0830	0900	HOIST 9 stands.		
0900	0930	CIRC		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

2nd Stg 1705-1545
Cemented w/ 6.48 m³ 6 T 1-1-2% .3% HR4 Slurry 1590.
Displace w/ 10.22 m³ POB 0830
W.O.C 7 HRS
Felt Top of Cement @ 1528 mKB

D.S.N.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNITS
SIZE D.C.	PUMP SPM														
NO. D.C.	PUMP PRESS														
PUMP STROKE	ROTARY RPM														
LINER SIZE	WT. ON BIT														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	2000	Test Plug Lay Down Pipe	6	
2000	2400	Test out Stack + Flare Clear Mud Tank	2	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Start Camp Light Plant
1600 Hours March 27/80

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Leon Lapointe

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH
SIGNED D.A. Reid CO. REP.

TEXACO CANADA INC.

TEC-17-A(R-9)

DAILY DRILLING WELL REPORT

REPORT NUMBER 67
ROTARY ☑ FIELD TEXACO
SERVICE ☐ LEASE BOUIE LAKE
WELL NO. M-78
CONTRACTOR KENTING DRILLING RIG NO. 22E DATE 84/03/26 PROVINCE N.W.T.

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | NO. D.C. 22 | PUMP STROKE 215.9 | LINER SIZE 139.7 | PUMP SPM 50 | PUMP PRESS 4500 | ROTARY RPM 70 | WT. ON BIT 6 tons

BIT DATA: NO. 10 | SIZE 216 | TYPE J3 | METRES 48821 | HRS RUN | JETS 3/11-1

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL BARITE 2000 kg

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0130	RUN IN HOLE WITH BIT	1	30
		START TO HANG UP ON AKUB RUBBER @ 2870 m.		
0130	0330	BREAK CIRC & ROTATE ON RUBBER	2	
0330	0400	RUN IN TO 2945 m. WORK PIPE		30
0400	0800	BREAK CIRC & WORK RUBBER & REAM ON RUBBER TO BOTTOM	4	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R. Murphy

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. | NO. D.C. | PUMP STROKE | LINER SIZE | PUMP SPM 100 | PUMP PRESS 4500 | ROTARY RPM | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME 0900 | WT. 1340 | VIS 73 | W.L. | P.H. 10.0 | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	0830	Circulate on Btm. work pipe	1	30
0830	1330	Depart pipe & collars	4	
1330	1420	Rig up pipe smaller	1	
1420	1520	Pick up 12" angle of pipe	1	
1520	1700	Depart pipe & Collars		30

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lybbert

EVENING TOUR

OPERATING DATA: SIZE D.C. | NO. D.C. | PUMP STROKE | LINER SIZE | PUMP SPM | PUMP PRESS | ROTARY RPM | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1700	1730	RUN IN DRILL PIPE		
1730	1800	LAY DOWN COLLARS.		
1800	2200	RUN IN P.P.		
2200		CIRC & ROTATE SLOWLY.		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER N. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

ROTARY ☑ SERVICE ☐

REPORT NUMBER 22
FIELD [illegible]
LEASE [illegible]
WELL NO. [illegible]
PROVINCE [illegible]

CONTRACTOR Kerr Drilling RIG NO. 22E DATE [illegible]

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT KG
SIZE D.C. 7 11	PUMP SPM													
NO. D.C. 22	PUMP PRESS													
PUMP STROKE	ROTARY RPM													
LINER SIZE	WT. ON BIT													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
		[illegible]	3	
		[illegible]		15
		[illegible]	3	45

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

[illegible]

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER [illegible]

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT KG
SIZE D.C.	PUMP SPM													Barite 1861 KG
NO. D.C.	PUMP PRESS													
PUMP STROKE	ROTARY RPM													
LI SIZE	WT. ON BIT													

DR FROM	DR TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	1400	Tag Bridge Eight Hole Packer Rubbers Leaked OFF	6	
1400	1530	Wrap Barite Circulate Gas	1	30
1530	1600	Back DST #3		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DST #3 1778-1811 Kiska
S.I.P. Good air blow decreasing on F.F. No gas to surface
No fluid recovery. Tripped thru pump and sub.

IHP	23478		
IFP	1077	IF	30 mins
ISIP	1077	ISI	60 ✓
FP	898	FF	30 mins
FFP	898	FSI	60 ✓
FSIP	898		
FHP	23116		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Pelpart

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT KG
SIZE D.C. 17 1	PUMP SPM	10 RR	216	J33										
NO. D.C. 22	PUMP PRESS	SER	488	21										
PUMP STROKE	ROTARY RPM	JAS	3	11-1										
LINER SIZE	WT. ON BIT													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1930	Test DST #3	3	30
1930	2130	BREAK DOWN & LAY DOWN TEST TOOL & PACKER RUBBER DOWN HOLE	2	
2130	2400	RUN IN HOLE WITH BIT	2	30

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Packer pulled loose O.K. Then pulled tight & stuck for approximately 1 hr. OK & stand pipe. Casing. Pulled tite for 2 stds in Casing Pulling up (45000 lbs) and breaking full flow. Unable to go further. Mud in annulus very gassy. Pumped down pump out sub attempt to pump to formation Very tite spot. pull in pipe. Pull out of hole, not tite No swabbing.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R. Murphy

CAMP ☐ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [illegible] TOOLPUSH

SIGNED Lee Horner CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

ROTARY ☑ SERVICE ☐

REPORT NUMBER 05
FIELD [illegible]
LEASE [illegible]
WELL NO. [illegible]
PROVINCE [illegible]

CONTRACTOR [illegible] RIG NO. 22 DATE [illegible]

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNITS
SIZE D.C. [illegible]	PUMP SPM	[illegible]												Wt Mat	2224
NO. D.C. [illegible]	PUMP PRESS	[illegible]													
PUMP STROKE [illegible]	ROTARY RPM	[illegible]													
LINER SIZE [illegible]	WT. ON BIT	[illegible]													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Mud cut to 1320 - 1330

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
[illegible]		[illegible]	3	
[illegible]		Mud tank & pit (Rig idle)		
[illegible]		[illegible] - test	3	
[illegible]		[illegible] make up test tool	2	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER [illegible]

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNITS
SIZE D.C.	PUMP SPM														
NO. D.C.	PUMP PRESS														
PUMP STROKE	ROTARY RPM														
LINER SIZE	WT. ON BIT														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DST #2 1775-1811
Misrun
Plugged tool

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0845	1000	Make up Test Tool	1	
1000	1330	Run in DST #2	3	30
1330	1400	Rig up Test Head		30
1400	1600	Conduct DST #2	2	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dan Lybyak

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNITS
SIZE D.C. [illegible]	PUMP SPM														
NO. D.C. [illegible]	PUMP PRESS														
PUMP STROKE	ROTARY RPM														
LINER SIZE	WT. ON BIT														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	1630	Conduct DST #2		30
1630	1930	Pull DST #2	3	
1930	2100	Partially break down Run-Out		30
		Test tool recover recorder & check packer bleeds		
2100	2230	Wait on orders	1	30
		Service test tool		
2230	2234	Make up test tool		1
2234	2349	Rig service		15
2349	[illegible]	Run in hole [illegible] DST #3		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER [illegible]

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH
SIGNED [illegible] CO. REP.

TEXACO CANADA INC.

TEC 717 - A (6-73)

DAILY DRILLING WELL REPORT

REPORT NUMBER 14
ROTARY ☐ FIELD TEXACO
SERVICE ☐ LEASE BLUE LAKE
WELL NO. 11-25
PROVINCE N.W.T.

CONTRACTOR KENTING DRILLING RIG NO. 22E DATE 82/05/23

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM | NO. D.C. 22 | PUMP PRESS | PUMP STROKE 216.1 | ROTARY RPM | LINER SIZE 136.7 | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
		CIRCULATE FOR TRIP MIX MUD 1.05 TON	1	30
		CIRCULATE & MIX MUD 1.05 TON	5	15
		TEST TOOL STRING IN		
		HOLE TO 2610 M. PULL UP & MIX MUD TO 1.05 TON		
		READY TO TEST FORMATION		
		FAILED	1	15

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RUN TEST TOOL TO 2610 M. TEST FAILED - POOH TO PICK UP MIX MUD TO 1.05 TON. RIH TO 2610 M. CIRCULATE EVERY 2 HRS TO BOTTOM. POOH TO TEST. TEST COMPLETED.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER R. Murphy

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0800	0830	Condition mud for DST #1	2	30
0830	1130	Trip in test tools with tight hole	3	
1130	1600	Test DST #1	4	30

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DST #1 2610-2653 (Slave Point)
No initial Puff. No air flow
No gas to surface
610 m fluid cushion (Water)
Formation press less than
fluid cushion.

IHP	30325	FHP	30304
IFP	7215	I.F.	30 mins
ISIP	14231	ISI	60 mins
FP	7416	F.F.	90 mins
FFP	6513	FSI	60 mins
FSIP	9621		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER Dean Kupchuk

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 2 | NO. D.C. 22 | PUMP PRESS 3 | PUMP STROKE 216.1 | ROTARY RPM 22 | LINER SIZE 136.7 | WT. ON BIT 2

BIT DATA: NO. 1 | SIZE 12¼ | TYPE F3 | METRES 216 | HRS RUN 21

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	1700	Test DST #1	1	
1700	2000	Lay down test tools change pack rubbers	3	
2000	2400	RUN IN TO 2000 METERS WITH BIT FOR CLEAN OUT (62 STDS)		
2400	0740	CIRCULATE CONDITION MUD FOR TRIP. WORK PIPE.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

20 meters muddy water
H2O + water & cushion
Lost 100 gallons of water
cushion to formation
Both rubbers on tool
damaged.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER R. Murphy

CAMP ☐ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ? SIGNED _____ TOOLPUSH

SIGNED A.B. Thornton CO. REP.

TEXACO CANADA INC.

TEC 217 A (6-75)

DAILY DRILLING WELL REPORT

ROTARY ☐
SERVICE ☐

REPORT NUMBER 63
FIELD Elk
LEASE Bull Lake
WELL NO. A-79
PROVINCE Alta.

CONTRACTOR Kerr-McClellan RIG NO. 226 DATE 80/6/22

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM														
NO. D.C. 22	PUMP PRESS														
PUMP STROKE 315.1	ROTARY RPM														
LINER SIZE 139.7	WT. ON BIT														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Logging details on Right # 62

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
		Ran Logging Unit & Wireline Repeat		
		Formation Logs	7	
0700	0800	Make up Bit & BHA	1	
		Run in Collars Can't work Tight		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW
EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R Murphy

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM 95	1	10 1/2	216 J-3			1500	1205	66	36	10.5			Scaleban	84
NO. D.C. 22	PUMP PRESS 7000													Polysen	45.4
PUMP STROKE 316	ROTARY RPM													Barite	1986.
LINER SIZE 139.7	WT. ON BIT														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	1130	Run in & T 2930 Break off	3	30
1130	1230	Clean T 2930 - 2952	1	
1230	1330	Circulate gas at T 2952	1	
1330	1400	Run in T 2952 - 3069		30
1400	1430	Clean T 3069 & Blow. 1m Fill.		30
1430	1600	Circulate, condition mud, work pipe	1	30

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW
EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapchuk

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM														
NO. D.C. 22	PUMP PRESS														
PUMP STROKE 315.1	ROTARY RPM														
LINER SIZE 139.7	WT. ON BIT														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1730	Circulate, condition mud, work pipe	1	30
1730	2200	Short T & Test	4	30
2200	2400	Pull out make up test tool	2	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW
EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R Murphy

CAMP ☐ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED AE Hosmer CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

ROTARY ☑ SERVICE ☐

REPORT NUMBER 62
FIELD TEXACO
LEASE COLIN LAKE
WELL NO. B-79
PROVINCE N.W.T.

CONTRACTOR KENTING OILFIELD RIG NO. 224 DATE 90 07 21

MORNING TOUR

OPERATING DATA: SIZE D.C. 7" | PUMP SPM | NO. D.C. 22 | PUMP PRESS | PUMP STROKE 12.7 | ROTARY RPM | LINER SIZE 7 3/4" | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

0600/0700 RIG SERVICE - TO INTERMEDIATE CSG

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TD - 1502.00

1) D.I.R. Sonic T.D. to Intermediate Csg.
Scale 1/240 & 1/600
Logs T.D. Logger TD 3083
BH Temp 133°C.
2) CNL FDC T.D. to Intermediate Csg
Scale 1/240, Temp 135°C.
3) GR SP DLL T.D. to Intermediate Csg
Scale 1/240 & 1/600

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER R. Mercredi

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

0600/1600 Logging 8

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

4) Microlog 1900 - 3050 & 600 - TD
Scale 1/240.
5) Dipmeter T.D. to Intermediate Csg
Scale 1/240

Timed Logging 0600 hrs
30-03-22

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER Dean Lychpuk

EVENING TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

1600/2400 Logging 8

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature] TOOLPUSH

SIGNED Bob Harmer CO. REP.

TEXACO CANADA INC.

TLC (12-A) (R-12)

DAILY DRILLING WELL REPORT

REPORT NUMBER 6
ROTARY ☑
SERVICE ☐
FIELD TEXACO
LEASE BOUTE LAKE
WELL NO. M 29
PROVINCE ALTA

CONTRACTOR KELLY BROS DRILLING RIG NO. 54E DATE 2/6/80

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C. 7 7/8	PUMP SPM 72	1	7 7/8	SEC S33F	2020	20	1100	60	30		10.5			KCL 750 MUDGARD 50
NO. D.C. 22	PUMP PRESS 1100						1100	1155	67		10.5			SOS 20L KELZAN 25
PUMP STROKE 9 1/2"	ROTARY RPM 65						0600	1155	70		10.5			CAUSTIC HOLESEAL
LINER SIZE 6 1/4"	WT. ON BIT 3/4													BARITE 2632 CALCIUM

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE
2026	2082				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
		DRILL ROTARY 2026 TO 2082	1	
		CIRC & RIG SERVICE	1	15
		WIPER TRIP 5 STDS	2	15
		CIRC & CONDITION		
		CHECK BOP & KELLY PACK OFF		15
		LAY DOWN PUMP OIL BIT & TEST		
		TRIP OUT OF HOLE & LAY DOWN		
		DC'S	2	15

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R Murphy

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C.	PUMP SPM 72													
NO. D.C.	PUMP PRESS													
PUMP STROKE	ROTARY RPM													
LINER SIZE	WT. ON BIT													

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0800	1145	Hoist & T 16 Strap out	3	45
1145	1600	Rig up & log + log	4	15

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Driller 2082.00
Strap 2080.22
Diff 1.78

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dan Lagrick

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C.	PUMP SPM													
NO. D.C.	PUMP PRESS													
PUMP STROKE	ROTARY RPM													
LINER SIZE	WT. ON BIT													

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	2400	Logging		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER F Myers

CAMP ☐ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED R. Gaetz TOOLPUSH
SIGNED AC Holmes CO. REP.

TEXACO CANADA INC.

D.A. 948

DAILY DRILLING WELL REPORT

REPORT NUMBER 60
FIELD TEXACO
LEASE BOUVIE LAKE
WELL NO. 11-28
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR XENTIC DRLG RIG NO. 22E DATE 86/05/19

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C. 171	PUMP SPM 110	NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
NO. D.C. 22	PUMP PRESS 11000	1	16	215 STGF	70	2½	6:00	1190	66		10.5			CAUSTIC 91 STAFLO 25
PUMP STROKE 216	ROTARY RPM 55	SER# 82665L					12:00	1180	66		10.5			OXYGEON 3135 SAPP 20
LINER SIZE 139.7	WT. ON BIT 16	JETS 3/2-19					6:00	1180	54	25	10.5			SCALEBAN 601 MILGARD 50
														KCL 750 KELZAN 25

DRILLED 15 REAMED SURVEYS

FROM	TO	FROM	TO	DEPTH	ANGLE
3010	3025				

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0000	0600	DRILL AHEAD.		
0600	0700	RIG SERVICE		
0700	0800	DRILL AHEAD		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGASSER RUN 8 hrs.

Retrieve Lower Pipe rams

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO 8 hrs

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C. 171	PUMP SPM 95	NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
NO. D.C. 22	PUMP PRESS 11000	1	16	216 STGF	99	23¾	6:00	1190	57		10.0			CAUSTIC 91 KELZAN 25
PUMP STROKE 216	ROTARY RPM 52	SER# 82665L					12:00	1190	57		10.5			SOS 201 MILGARD 50
LINER SIZE 139.7	WT. ON BIT 19-22	JETS 2/2/19					15:00	1190	64		10.5			KCL 750 SCALEBAN 27
														NOX 136

DRILLED 24 REAMED SURVEYS

FROM	TO	FROM	TO	DEPTH	ANGLE
3026	3050				

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0900	1000	DRILL 216 mm HOLE	2	
1000	1015	RIG SERV. CLOSE TOP RAM		15
1015	1600	DRILL 216 mm HOLE	5	45

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGASSER run 8 hrs

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R. Murphy

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C. 171	PUMP SPM 95	NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
NO. D.C. 22	PUMP PRESS 11000	1	16	216 STGF	121	37¼	18:00	1185	73		10.5			Oxygen 45.4
PUMP STROKE 216	ROTARY RPM 52						21:00	1195	70		10.0			Scalebane 8L
LINER SIZE 139.7	WT. ON BIT 18						23:00	1185	64		10.5			Caustic 45.4

DRILLED REAMED SURVEYS

FROM	TO	FROM	TO	DEPTH	ANGLE
3054	3076				

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	2400	Drill	8	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapak

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ? SIGNED _____ TOOLPUS

SIGNED A.C. Horsler CO. REP

TEXACO CANADA INC.

D.A. 948

DAILY DRILLING WELL REPORT

REPORT NUMBER 60
FIELD TEXACO
LEASE BOUVIE LAKE
WELL NO. M-74
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR KENTING DRLG. RIG NO. 22E DATE 80/03/19

MORNING TOUR

OPERATING DATA: SIZE D.C. 17 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 1000 | PUMP STROKE 21.5 | ROTARY RPM 55 | LINER SIZE 12 | WT. ON BIT 10

BIT DATA: NO. 1 | SIZE 16 | TYPE HP53A | METRES 397 | HRS RUN 20 | 2½ | SERIAL 62668 | JETS 3-20-20-19

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0700	1190	60			10.5	
0900	1180	66			10.5	
0600	1190	54	35	10.5		

MUD ADDED THIS TOUR

MATERIAL	UNITS/BAG
CAUSTIC SI	STA-LO 25
NOXYGEN 3185	SAS 20
SCALEBAN 60L	KWIKSEAL 50
KCL 750	KELZAN 25

DRILLED 15 | REAMED | SURVEYS DEPTH / ANGLE

FROM 3010 TO 3025

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0100	DRILL AHEAD.		
0100	0200	RIG SERVICE		
0200	0800	DRILL AHEAD		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGASSER RUN 8 hrs.

Activate Lower Pipe rams.

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER W. Wynes

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 17½ | PUMP SPM 95 | NO. D.C. 22 | PUMP PRESS 1100 | PUMP STROKE 21½ | ROTARY RPM 52 | LINER SIZE 12¼ | WT. ON BIT 1800

BIT DATA: NO. 1 | SIZE 16 | 21½ | TYPE HP53A | METRES 397 | HRS RUN 17 | 21¾ | SERIAL 62668 | JETS 3-20-20-19

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0700	1190	52			10.0	
1100	1190	57			10.0	
1500	1190	64			10.5	

MUD ADDED THIS TOUR

MATERIAL	UNITS/BAG	MATERIAL	UNITS/BAG
CAUSTIC SI	KELZAN	25	
SAS 20L	MILGARD	50	
KCL 750	SCALEBAN	27	
NOX 136			

DRILLED 21 | REAMED | SURVEYS DEPTH / ANGLE

FROM 3010 TO 3031

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	1000	DRILL 21½ mm HOLE	2	
1000	1015	RIG SERV. CHANGE TOP DR. PIN		15
1015	1500	DRILL 21½ mm HOLE	4	45

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGASSER run 8 hrs

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER R. Murphy

EVENING TOUR

OPERATING DATA: SIZE D.C. 17½ | PUMP SPM 95 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 21½ | ROTARY RPM 53 | LINER SIZE 12¼ | WT. ON BIT 18

BIT DATA: NO. 1 | SIZE 16 | 21½ | TYPE HP53A | METRES 681 | HRS RUN 37¼

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1800	1185	73			10.5	
2100	1145	70			10.0	
2300	1185	64			10.5	

MUD ADDED THIS TOUR

MATERIAL	UNITS/BAG
NOXYGEN	454
SCALEBAN	82
CAUSTIC	454

DRILLED | REAMED | SURVEYS DEPTH / ANGLE

FROM 3054 TO 3076

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	2400	Drill	8	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER Dean Lapak

CAMP ☑ YES ☐ NO | BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED A.C. Horner CO. REP.

TEXACO CANADA INC.

REPORT NUMBER 59

DAILY DRILLING WELL REPORT

ROTARY ☑ SERVICE ☐

FIELD TEXACO
LEASE BOUIE LAKE
WELL NO. M-74
PROVINCE N.W.T.

CONTRACTOR XENTING DRLG RIG NO. 22E DATE 88/03/28

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C. 171	PUMP SPM 110	#16	215.9	3987										
NO. D.C. 22	PUMP PRESS 11000	SER#	826682											
PUMP STROKE 215.9	ROTARY RPM 99/100	JETS	8-7/32	9-9	11-9		0600	1186	44		10.5			
LINER SIZE 139.7	WT. ON BIT 1/2-1													

DRILLED 0 REAMED SURVEYS: DEPTH / ANGLE

FROM	TO	FROM	TO
2955	2955	2905	2942

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0000	0030	BREAK BIT - DRESS BIT #16		
0030	0100	RUN IN D.C.		
0100	0400	RUN IN D.P. LAY 45 SINGLES DOWN & FILL PIPE.		
0445	0500	FILL PIPE PUT ON KELLY		
0500	0800	BREAK CIRC REAM 2905.60-2942.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wagner

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C. 171	PUMP SPM 105	16	216	S86F	28	5 3/4	0800	1190	47		10.5			KCL 750 / STAFLO 25
NO. D.C. 22	PUMP PRESS 11000	SER.	826682				1200	1200	54	32	10.5			SOS 20 / KELZAN 25
PUMP STROKE 215.9	ROTARY RPM 60	JETS	8-7	3/32-9			1500	1200	57		10.5			MILGARD 50 / NOX ~~1.5~~
LINER SIZE 139.7	WT. ON BIT 18000													CAUSTIC 67-8 / SCR 13-6

DRILLED 28 REAMED 13. SURVEYS: DEPTH / ANGLE

FROM	TO	FROM	TO
2955	2983	2942	2955

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0800	1000	REAM UNDERGUAGE HOLE 1M FILL	2	
1000	1445	DRILL 216 MM HOLE	4	45
1445	1500	RIG SERVICE CLOSE HYDRIL		15
1500	1600	DRILL 216 MM HOLE	1	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER R Murphy

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C. 171	PUMP SPM 99	16	216	S86F	45	13 3/4	1800	1200	57		10.5			GEL 1816
NO. D.C. 22	PUMP PRESS 11000	SER	826682				2200	1180	63		10.5			
PUMP STROKE 215.9	ROTARY RPM 60/55	JETS	8-7	3/32-9			2400	1150	57		10.5			
LINER SIZE 139.7	WT. ON BIT 18000													

DRILLED 17 REAMED SURVEYS: DEPTH / ANGLE

FROM	TO	FROM	TO
2983	3010		

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	2400	DRILL 216 MM HOLE.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

END.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TEC 112 A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 58
FIELD TEXACO
LEASE BOUVIE LAKE
WELL NO. M-78
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR KENTING DRLG. RIG NO. 22E DATE 30/03/77

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 215.9 | ROTARY RPM 60 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 15 | SIZE 215.9 | TYPE F-2 | METRES 306.64 | HRS RUN 0200 | SER# AP2019 | JETS 8-7-2/7.9

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0200	1180	47		10.5		
0400	1180	44		10.5		
0600						

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG	MATERIAL	UNIT/KG
CAUSTIC 90.8	STAFLO	25	
KCL 750	SCALECHEM	70L	
SOS 20L	KELZAN	25	
MILGARD 50	NOXEGEN	36L	

DRILLED 26 | REAMED | SURVEYS (DEPTH, ANGLE)

FROM	TO
2908	2934

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
2000	0015	R16 SERVICE.		
0015	0800	DRILL AHEAD.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGASSER RUN 8 hrs.

Actuate Lower Pipe Rams

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐

DRILLER N. Wegner

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 215.9 | ROTARY RPM 60 | LINER SIZE 139.7 | WT. ON BIT 18000

BIT DATA: NO. 15 | SIZE 216 | TYPE F2 | METRES 325 | HRS RUN 7 1/4 | SER AP2019 | JETS 8-7 3/7.9

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0900	1200	45	32	10.5		
1200	1200	47		10.5		
1500	1210	45		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG	MATERIAL	UNIT/KG
KCL 750	KELZAN	25	
NOX 90.8	MILGARD	50	
SCR 9.08L	SOS	70 L	
	BARITE	2179	

DRILLED 19 | REAMED | SURVEYS (DEPTH, ANGLE)

FROM	TO
2934	2953

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	1300	DRILL 216 MM HOLE	5	
1300	1315	RIG SERVICE CLOSE TOP PIPE RAMS		15
1315	1600	DRILL 216 MM HOLE	2	45

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐

DRILLER R. Murphy

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 215.9 | ROTARY RPM 60 | LINER SIZE 139.7 | WT. ON BIT 18000

BIT DATA: NO. 15 | SIZE 216 | TYPE F2 | METRES 327 | HRS RUN 7 3 | SER AP2019

DRILLED 2 | REAMED | SURVEYS (DEPTH 2955, ANGLE 1/2°)

FROM	TO
2953	2953

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1715	DRILL 216 MM HOLE	1	15
1715	1730	DROP SURVEY. PUMP DOWN.		15
1730	1745	PUMP PILL BLOW KELLY TRIP FOR BIT STRIP OUT		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGASSER RUN 8 hrs.

HOLE TOOK 26 m³

PULLED WET PIPE

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐

DRILLER N. Wegner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TEC 217 A (5-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 57
ROTARY ☑ FIELD TEXACO
SERVICE ☐ LEASE M-78
WELL NO. BOUIE LAKE
PROVINCE N.W.T.

CONTRACTOR KENTING DRLG. RIG NO. 22E DATE 80/03/16

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 215.9 | ROTARY RPM 80/75 | LINER SIZE 139.7 | WT. ON BIT 12

BIT DATA: NO. 5 | SIZE 215.9 | TYPE F-2 | METRES 2104 | HRS RUN 6½ | SER# AP2019

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0200	1210	44		10.5		
0400	1213	42	31	10.5		
0600	1200	40		10		

MUD ADDED THIS TOUR:

MATERIAL	UNIT/KG
KCL 750	
MILGARD 50	
SOS 20L	
SCALNOX 80L	

DRILLED 75 (FROM 2803 TO 2838) | REAMED (FROM / TO) | SURVEYS (DEPTH / ANGLE)

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0015	CIRC.		
0015	0045	SURVEY RERUN 2° NE 1m		
0045	0135	RUN IN 1 stand 2 singles.		
0135	0800	DRILL AHEAD.		

8 hrs.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wagner

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 215.9 | ROTARY RPM 75 | LINER SIZE 139.7 | WT. ON BIT 17000

BIT DATA: NO. 5 | SIZE 216 | TYPE F2 | METRES 248 | HRS RUN 8 4¼ | SER# AP2019 | JETS 8-7 | 35.9

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0500	1200	42	37	10.5		
1200	1210	45		10.5		
1500	1200	44		10.5		

MUD ADDED THIS TOUR:

MATERIAL		UNIT/KG
STAFLO 25	MILGARD	50
KELZAN 25	SCAVENOX	40L
± KCL 750	SCALBAN	90.8
SOS 20L	CAUSTIC	90.8

DRILLED 38 (FROM 2838 TO 2876) | REAMED (FROM / TO) | SURVEYS (DEPTH / ANGLE)

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0800	1015	DRILL 216 MM HOLE	2	15
1015	1030	RIG SERVICE CLOSE TOP RAMS		15
1030	1600	DRILL 216 MM HOLE	5	30

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER R. Murphy

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 215.9 | ROTARY RPM 60 | LINER SIZE 139.7 | WT. ON BIT 17000

BIT DATA: NO. 5 | SIZE 216 | TYPE F2 | METRES 280 | HRS RUN 36¼ | SER# AP2019 | JETS 8-7 | 35.9

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1800	1200	48		10.5		
2200	1190	46		10.5		
2400	1170	44		10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNIT/KG
Gel	127.7
Nex	90.8
SCALEBAN	181.2

DRILLED 32 (FROM 2876 TO 2908) | REAMED (FROM / TO) | SURVEYS (DEPTH / ANGLE)

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	2400	DRILL 216 MM HOLE		

8 hrs

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED D. J. Nash CO. REP.

TEXACO CANADA INC.

TEC 212 A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 56
FIELD TEXACO
LEASE BOUIE LAKE
WELL NO. M-79
PROVINCE N.W.T.
ROTARY ☑
SERVICE ☐

CONTRACTOR XENTING DRLG. RIG NO. 22E DATE 80/03/15

MORNING TOUR

OPERATING DATA: SIZE D.C. 171, NO. D.C. 22, PUMP STROKE 215.9, LINER SIZE 139.7, PUMP SPM 110, PUMP PRESS 11000, ROTARY RPM 65, WT. ON BIT 16/17

BIT DATA: NO. 15, SIZE 215.9, TYPE F-2, METRES 1012, HRS RUN 42, SER# AP2019, JETS 8-7-7-9-7-9

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1000	1176	45		10.0		
0400	1190	43		10.0		
0600	1185	46	48	10.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
NOXYGEN EOL STAFLO	25
KELZAN 25 SOS	20L
MILGARD 44.4	
SOS 20L KCL	750
CAUSTIC	

DRILLED 42 (FROM 2693 TO 2735) REAMED (FROM TO) SURVEYS (DEPTH, ANGLE)

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

DES. RUN 4 hrs.

D.F. 1290 O.F. 1180

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1000	0215	DRILL AHEAD.		
0215	0230	RIG SERVICE. CLOSE LOWER PIPE RAMS		
0230	0515	DRILL AHEAD.		
0515	0530	FLOW CHEK		
0530	0600	DRILL AHEAD		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wegner

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171, NO. D.C. 22, PUMP STROKE 215.9, LINER SIZE 139.1, PUMP SPM 110, PUMP PRESS 11000, ROTARY RPM 60/90, WT. ON BIT 18000/10000

BIT DATA: NO. 15, SIZE 216, TYPE F2, METRES 1475, HRS RUN 28½, SER. AP2019, JETS 8-7 3/8-9

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0900	1220	44		10.5		
1200	1210	45	44	10.5		
1500	1220	44		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
MILGUARD 50 KELZAN	25
SOS 20L STAFLO	50
KCL 750 SCAVENOX	80L
CAUSTIC 45 SCALEBAN	2.72L

DRILLED (FROM 2735 TO 2775) REAMED (FROM TO) SURVEYS (DEPTH 2761, ANGLE 5°)

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

DESILTER ran 4 Hrs

DF 1300 OF 1190.

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0800	1415	DRILL 216 MM HOLE	6	15
1415	1445	RUN SURVEY		30
1445	1500	RIG SERVICE CLOSE HY DRIL		15
1500	1530	BLEEDOFF & REPRIME BIRLOCKER PUMP		30
1530	1600	DRILL 216 MM HOLE		30

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER R. Murphy

EVENING TOUR

OPERATING DATA: SIZE D.C. 171, NO. D.C. 22, PUMP STROKE 215.9, LINER SIZE 139.1, PUMP SPM 110, PUMP PRESS 11000, ROTARY RPM 90, WT. ON BIT 10000

BIT DATA: NO. 15, SIZE 216, TYPE F2, METRES 1753, HRS RUN 34, SER AP2019, JETS 8-7 3/8-9

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1800	1210	43		10.5		

DRILLED 28 (FROM 2775 TO 2803) REAMED (FROM TO) SURVEYS (DEPTH, ANGLE)

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

DESILTER RAN 2 HRS

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	1915	DRILL 216 MM HOLE	3	15
1915	1930	CIRCULATE		15
1930	2000	RUN SURVEY 2771 1°		
2000	2215	DRILL		
2215	2230	CIRC.		
2230	2330	RUN SURVEY 2793 - 2½°		
2330	2400	PULL OUT 5 singles to Re-Run SURVEY 2761. - 2°		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wegner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 55

ROTARY ☑ SERVICE ☐

FIELD TEXALO

LEASE BOUIE LAKE

WELL NO. M-79

PROVINCE N.WT.

CONTRACTOR ZENTING DRLG. RIG NO 22E DATE 20/07/74

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM — | NO. D.C. 22 | PUMP PRESS — | PUMP STROKE 215.9 | ROTARY RPM — | LINER SIZE 139.7 | WT. ON BIT —

BIT DATA: NO. — SIZE — TYPE — METRES — HRS RUN — TOTAL
#15 2159 F-2
JETS - 8.7-7.9-7.9
SER# AP20A

MUD TEST DATA: TIME — WT — VIS — W.L. — P.H. — P.V. — Y.P.

MUD ADDED THIS TOUR: MATERIAL — UNITS/KG

DRILLED: FROM 2610.35 TO 2610.35

REAMED: FROM — TO

SURVEYS: DEPTH — ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0130	RECOVER CORE		
0130	0300	BREAK DOWN C/BBL.		
0300	0430	PICKUP H.H.A. RUN IN.		
0430	0900	START RUN IN DRILL PIPE FILLING PIPE.		

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER W. Wegner

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 11,000 | PUMP STROKE 215.9 | ROTARY RPM 60 | LINER SIZE 139.7 | WT. ON BIT 18000

BIT DATA: NO. 15 | SIZE 216 | TYPE F2 | SERIAL # AP2019A

MUD TEST DATA

TIME	WT	VIS	W.L.	P.H.	P.V.	Y.P.
1100	1165	45		10.0		
1300	1190	43		10.0		
1500	1190	45		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
Gel	136.2
Soda Ash	45.4
Caustic	113.6

DRILLED: FROM 2628 TO 2654

REAMED: FROM 2610 TO 2628

SURVEYS: DEPTH — ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0800	0930	R.I.H FILL PIPE CHANGE CORROSION RINGS	1	30
0930	1145	REAM UNDERGAUGE HOLE FROM 2610 TO 2628	2	15
1145	1315	DRILL 216 MM HOLE	1	30
1315	1330	RIG SERVICE OPERATE TOP PIPE RAMS		15
1330	1600	DRILL 216 MM HOLE	2	30

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER A. Murphy

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 11,000 | PUMP STROKE 215.9 | ROTARY RPM 60 | LINER SIZE 139.7 | WT. ON BIT 18000

BIT DATA: NO. 15 | SIZE 216 | TYPE F2 | METRES 65 | HRS RUN 14¼ | SERIAL # AP2019

MUD TEST DATA

TIME	WT	VIS	W.L.	P.H.	P.V.	Y.P.
1700	1145	44		10.0		
1900	1210	45		10.0		
2200	1190	43		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG	MATERIAL	UNITS/KG
KCL 750		Mudguard	50
Staflo 50		Scalaran	9.1 L
Kelzan 22.6		Sunenox	20 L
SOS 20 L			

DRILLED 39: FROM 2654 TO 2693

REAMED: FROM — TO

SURVEYS: DEPTH — ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	2400	DRILL 216 MM HOLE		

Desilter ran 6. Hrs (14¼ hrs - 2¼ Reaming time.) 8 hrs.

pressure gradient 18.5

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER W. Wegner

CAMP ☑ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TFC 712 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 51
FIELD TEXACO
LEASE TEXACO
WELL NO. M-79
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR ZENTING DRLG. RIG NO. 22E DATE 80/03/13

MORNING TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM 110		1	214	◇			0300	1180	48		10.0			CAUSTIC 45	
NO. D.C. 22	PUMP PRESS 9300		SER# MC-20					0800	1180	45	4.0	2.0	10.0		NOKEGEN 91	
PUMP STROKE 26.9	ROTARY RPM 40/60														SCALEBAN 16.0	
LINER SIZE 139.7	WT. ON BIT 11															

C ~~DRILLED~~ 4.86 REAMED

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
2610.35	2615.21				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0400	0130	RUN IN C/BBL.		
0130	0200	CIRC GAS CUT MUD		
0200	0315	DR OF BALL CIRC.		
0315	0800	CORE.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

DAYLIGHT TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM 111		14	215.9	HYCALOG			0900	1175	45		10.0			STAPLO 45.4 NOKYGEN	90.8
NO. D.C. 22	PUMP PRESS 9300		~~SER#~~ MC-20					1200	1150	45		10.0			SOS 20 L SCALEBAN	9.0 8L
PUMP STROKE 215.9	ROTARY RPM 60		SER. # 80E0316					1500	1155	45		10.0			CAUSTIC 45.4 KCL	75C
LINER SIZE 139.7	WT. ON BIT 11														MUDGUARD 50 XC POL	23.7

DRILLED REAMED

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	1300	CORE	5	
1300	1315	RIG SERVICE & CLOSE HYDRIL		1/4
1315	1600	CORE		2 3/4

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DESILTER RAN 1 HR

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R. Murphy

EVENING TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM 111		14	215.9	HYCALOG										WT mat ~~$43.4~~	
NO. D.C. 22	PUMP PRESS 9300		SERIAL # 80E0316													1646.8
PUMP STROKE 215.9	ROTARY RPM 60															
LINER SIZE 139.7	WT. ON BIT 11															

CORED ~~DRILLED~~ 3 REAMED

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
2625.6	2628.6				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1800	CORE	2.	
1800	2330	PUMP PILL BLOW KELLY POH		
2330	2400	CLEAN CORE BBL.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

CORED 18.25 m
in 15 3/4 hrs.

Core #1 2610-2628 Cut 18m Slave Pt.
Recov. Same.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TEC 312 - A (6/78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 53
FIELD Bonnie Lake
LEASE Lafleche Model
WELL NO. MM-76
PROVINCE Nfld

ROTARY ☑
SERVICE ☐

CONTRACTOR Kenting Drilling RIG NO. 22E DATE 80/3/12

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 2400 | PUMP STROKE 216 | ROTARY RPM 95 | LINER SIZE 139.7 | WT. ON BIT 19

BIT DATA: NO. 13 | SIZE 216 | TYPE J-3 | METRES 95 | HRS RUN 26½

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
02°°	1.95	53		10.5		
04°°	1.95	50	40	10.5		
06°°	1.80	47		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
KCL	750
SOS	80L
M.I.GARD	45.4
Oxygen	136.
Scrubaw	2.4
BHATE	170 K

DRILLED FROM 2590 TO 2610

REAMED FROM TO

SURVEYS DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Actuated top pipe rams.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0030	Drill		30
0030	0045	Rig Service		15
0045	0245	Drill	2	
0245	0400	Circulate Sample	1	15
0400	0730	Drill	3	30
0730	0800	Circulate Sample		30

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER Dean Lafford

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM | NO. D.C. 22 | PUMP PRESS | PUMP STROKE 215.9 | ROTARY RPM | LINER SIZE 139.7 | WT. ON BIT

BIT DATA: NO. #13 | SIZE 215.9 | TYPE J-3 | SER# 53279 | JETS 3/7.9

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED FROM 2610 TO

REAMED FROM TO

SURVEYS DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0715		Circulate Sample		

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER W. Wagner

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM | NO. D.C. 22 | PUMP PRESS | PUMP STROKE 215.9 | ROTARY RPM | LINER SIZE 139.7 | WT. ON BIT

BIT DATA: NO. 13 | SIZE 216 | TYPE J3 | METRES 95 | HRS RUN 37

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED FROM TO

REAMED FROM TO

SURVEYS DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

PICK UP & RUN CORE BARREL.

PIPE TALLY CORRECTION 2610.35

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	1830	Pull Bit #13 STRAPOUT	2	30
1830	2130	PICK UP & MAKE UP CORE BARREL	3	
2130	2400	RUN IN HOLE.	2	30

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER R. Murphy

CAMP ☑ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED D. Ward CO. REP.

TEXACO CANADA INC.

TEC 212 - A (6-79)

DAILY DRILLING WELL REPORT

REPORT NUMBER 5
FIELD Bovie Lake
ROTARY ☐ SERVICE ☐
LEASE Jean Marie
WELL NO. M-18
PROVINCE NWT

CONTRACTOR Bearing Drilling RIG NO. 22E DATE 80/2/11

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS
SIZE D.C. 171	PUMP SPM 110	#2	216	J-33	55	14 3/4	0900	1205	57		10.5			KCL 750 MIGARD 850
NO. D.C. 22	PUMP PRESS 15200						0400	1215	58	40	10.5			SOS 20L Caustic 45
PUMP STROKE 215.9	ROTARY RPM 95						0600	1205	52		10.0			Scleroan 24L Staflo 50
LINER SIZE 139.7	WT. ON B.T 18													Noxygen 136.2 Kelzan 25

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
2532	2550				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0445	Drill	4	45
0445	0700	Rig Service		15
0700	0800	Circ	6	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Activated Crystal

Driller Ran 8 HRS

Dev. @ 1185

Dev @ 1566

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapointe

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS
SIZE D.C. 171	PUMP SPM 110	#3	215.9	J33	55	22½	0600	1190	54		10.5			CAUSTIC 45 KCL 750
NO. D.C. 22	PUMP PRESS 13000	SER#	5327	9			1200	1190	52		10.5			KELZAN 25 SOS 20L
PUMP STROKE 215.9	ROTARY RPM 95	JETS	3/12.9				1500	1180	50		10.5			STAFLO 25 NOXGEN 142
LINER SIZE 139.7	WT. ON BIT 18													SCLEROAN 32 L

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
2550	2570				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800		DRILL AHEAD.		
0900	0915	RIG SERVICE.		
0915	1100	DRILL AHEAD.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS
SIZE D.C. 171	PUMP SPM 110	#3	216	J-3	75	20½	0700	1190	50		10.5			
NO. D.C. 22	PUMP PRESS 15000						2400	1195	57		10.5			
PUMP STROKE 215.9	ROTARY RPM 96													
LINER SIZE 139.7	WT. ON BIT 19													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
2570	2596				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	2400	DRILL AHEAD.	8	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapointe

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED Ric Kuttner TOOLPUSHER
SIGNED Ric Hornier CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 5
FIELD Bonnie Lake
LEASE Fedco Mobil
WELL NO. M-75
PROVINCE Alta
ROTARY ✓
SERVICE

CONTRACTOR Kenting Drilling RIG NO 23 DATE 80/3/10

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 1500 | PUMP STROKE 216 | ROTARY RPM 93 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 12 | SIZE 216 | TYPE J-3 | METRES 189 | HRS. RUN 60½

MUD TEST DATA: TIME 0300 | WT. 1155 | VIS 51 | W.L. 40 | P.H. 10.5 | P.V. | Y.P.

TRIP

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
KCL 750	KELZAN 35
SOS 30L	STARCH 35
OXYGEN 1362	MICARBS
CAUSTIC 34L	BARITE 1316

DRILLED: FROM 2506 TO 2515

REAMED: FROM TO

SURVEYS: DEPTH 2512 | ANGLE 1¼°

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Drilling 2515
Slug Diff 2511.99
3.01

Hole Took 18m³

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0315	Drill	3	15
0315	0345	Dyg Survey		30
0345	0800	Hard hat & Strap out	4	15

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dan Lapchuk

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM — | NO. D.C. 22 | PUMP PRESS — | PUMP STROKE 215.9 | ROTARY RPM — | LINER SIZE 139.7 | WT. ON BIT —

BIT DATA: NO. #13 | SIZE 215.9 | TYPE J3 | SER# 53279 | JETS 3/19

MUD TEST DATA: TRIP

DRILLED: FROM 2515 TO 2515

REAMED: FROM TO

SURVEYS: DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Pressure test Hydril, H/2 & Blind rams to 17 MPa. OK. for 5 mins.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0830	0930	HOIST BIT #12 Fill Hole.		
0830	0930	LAY DOWN COLLAR & SHOCK SUB & pick up retreiver & Pressure Test.		
0930	1230	Pressure test B.O.P.S. to 11,000 #		
1230	1600	RUN IN DRILL COLLARS		
1600	1630	RUN IN DRILL PIPE & FILL PIPE.		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER N. Wagner

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. ~~22~~ | PUMP PRESS 1300 | PUMP STROKE 215.9 | ROTARY RPM 95 | LINER SIZE 139.7 | WT. ON BIT 14/19

BIT DATA: NO. #13 | SIZE 215.9 | TYPE J3 | METRES 1 | HRS. RUN 7

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0800	1200	54	45	10.0		
1200	1220	55	46	10.0		
2400	1240	58		10.5		

DRILLED: FROM 2515 TO 2532

REAMED: FROM TO

SURVEYS: DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1630	RUN IN W/BIT #13		30
1630	1700	PUT ON KELLY & CLEAN TO BTTM.		
1700	2400	DRILL AHEAD.		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER

CAMP ☑ YES ☐ NO
BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE?

SIGNED Dick Stutsman TOOLPUSH
SIGNED D.C. Warner CO. REP.

TEXACO CANADA INC.

TFC 117 A (6-79)

DAILY DRILLING WELL REPORT

ROTARY ☑ SERVICE ☐

REPORT NUMBER 50
FIELD Boss Lake
LEASE Texaco Mobil
WELL NO. 11-7
PROVINCE Alta

CONTRACTOR Koutney Dulling RIG NO. 22E DATE 80/3/19

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 1500 | PUMP STROKE 216 | ROTARY RPM 98 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 12 | SIZE 216 | TYPE J-3 | METRES 38 | HRS RUN 43½

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
02:00	1150	51	38	10.5		
04:00	1170	47		10.5		
06:00	1035	50		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
KCL	750
CAUSTIC	45
NOXYGEN	90.8
SOS	90
SCALEBAN 16L	
BAR. 1= 3694	

DRILLED FROM 2462 TO 2462 | REAMED FROM — TO — | SURVEYS DEPTH — ANGLE — ° | DAY WORK HRS. 8 MIN.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION
0000	0800	Drill

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

CREW: EXTRA ☐ SPECIFY JOB AND HOURS — SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER Dean Pankiewicz

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 1500 | PUMP STROKE 215.9 | ROTARY RPM 95 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. #2 | SIZE 215.9 | TYPE J3 | METRES 160 | HRS RUN 5½ | SER# 53296 | JETS 3/7.9

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
08:00	1180	43		10.5		
	1195	44		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
SOS 20L SCALEBAN	16
REZAN 25 NOXYGEN	90
CAUSTIC 91 GEL	2400
SAPP 25 KCL	750

DRILLED 25 FROM 2462 TO 2487 | REAMED FROM — TO — | SURVEYS DEPTH — ANGLE — ° | DAY WORK HRS. MIN.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION
0800	1600	DRILL AHEAD.

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

pressure gradient 18.5

8 hrs.

S.P.L. 6800 kPa @ 55 spm

CREW: EXTRA ☐ SPECIFY JOB AND HOURS — SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER D. Wagner

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 1500 | PUMP STROKE 215.9 | ROTARY RPM 95 | LINER SIZE 139.7 | WT. ON BIT 19/26

BIT DATA: NO. #2 | SIZE 215.9 | TYPE J3 | METRES 179 | HRS RUN 59¼

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
00:00	1195	52		10.5		
04:00	1110	50		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG

DRILLED FROM 2487 TO 2506 | REAMED FROM — TO — | SURVEYS DEPTH — ANGLE — ° | DAY WORK HRS. 2 MIN. 15

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	2115	DRILL AHEAD.	5	15
2115	2130	Rig Service		15
2130	2400	Drill	2	30

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Activated top pipe rams

CREW: EXTRA ☐ SPECIFY JOB AND HOURS — SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER Dean Pankiewicz

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED R. Pankiewicz TOOLPUSH

SIGNED A.G. Mariner CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 49
FIELD Bear Lake
LEASE Texaco Model
WELL NO. 11-18
PROVINCE N.W.T.

ROTARY ✓
SERVICE

CONTRACTOR Kenting Drilling RIG NO 33E DATE 80/3/15

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | NO. D.C. 22 | PUMP STROKE 216 | LINER SIZE 139.7 | PUMP SPM 110 | PUMP PRESS 13000 | ROTARY RPM 95 | WT. ON BIT 18

BIT DATA: NO. 12 | SIZE 2¼ | TYPE J-3 | METRES 62 | HRS RUN 20

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
02[00]	1200	45		10.0		
0400	1195	43		10.5		
0600	1185	46		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
KCL	750
CAUSTIC	45
Nonygen	90.8
Scalebar	16 L
SAS	20 L

DRILLED FROM 2313 TO 2389

REAMED FROM — TO —

SURVEYS DEPTH — ANGLE —

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0800	Drill	8	

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.

Desilter Ran 3 HRS

Des of 1180

Des of 1310

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER Don Lapointe

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | NO. D.C. 22 | PUMP STROKE 215.9 | LINER SIZE 139.7 | PUMP SPM 110 | PUMP PRESS 13000 | ROTARY RPM 95 | WT. ON BIT 18

BIT DATA: NO. #12 | SIZE 215.9 | TYPE J-3 | METRES 55 27/40 | HRS RUN 9¼ | SER# 532886 | JETS - 3/7.9

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
09[00]	1200	45		10.5		
12[00]	1195	45		10.5		
15[00]	1195	47		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
STAFLO 25	
KELZAN 25	
SOS 20L	
KCL 750	KG
Noxygen 91	KG
SCALEBAN 16L	
CAUSTIC 45.5	

DRILLED 23 FROM 2389 TO 2412

REAMED FROM — TO —

SURVEYS DEPTH — ANGLE —

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0900	DRILL AHEAD		
0900	0915	RIG SERVICE		
0915	1600	DRILL AHEAD		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

pressure grad. on 13.5

DES. RUN 2 Loc

U.F. 1190
O.F. 1180

System P.L. 5800 kPa 55 str.
II pump

Shoe

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER W Wagner

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | NO. D.C. 22 | PUMP STROKE 215.9 | LINER SIZE 139.7 | PUMP SPM 110 | PUMP PRESS 13000 | ROTARY RPM 95 | WT. ON BIT 18/20

BIT DATA: NO. #12 | SIZE 215.9 | TYPE J3 | METRES 110 | HRS RUN 33½

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
18[00]	1180	51	35	10.5		
22[00]	1185	51		10.0		
24[00]	1180	50		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG

DRILLED 24 FROM 2412 TO 2487

REAMED FROM — TO —

SURVEYS DEPTH — ANGLE —

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
16[00]	2200	DRILL AHEAD	6	
2200	2215	Rig Service		15
2215	2400	Drill	1	45

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Activated Top pipe rams

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

DRILLER Dean Lapointe

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature] TOOLPUSH

SIGNED [signature] CO. REP.

TEXACO CANADA INC.

TEC 717 A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 48
ROTARY ☑ FIELD Grand Forks
SERVICE ☐ LEASE Provo Field
WELL NO. PPP 78
PROVINCE BCT

CONTRACTOR Kenting Drilling RIG NO. 225 DATE 80/3/7

MORNING TOUR

OPERATING DATA			BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN		TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG.
SIZE D.C. 171	PUMP SPM	110	11	216	J-3	100	28		02[00]	1205	47		10.5			KCL 750 Kelzan 25
NO. D.C. 22	PUMP PRESS	13000	12	216	J-3				TRIP							Nokygen 90.8 Staflo 25
PUMP STROKE 216	ROTARY RPM	120														Scalebar 16L Caustic 45.4
LINER SIZE 139.7	WT. ON BIT	18														SOS 20L Barite 2270

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
2321	2327			2327	1/4

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Actuated top pipe rams
Actuated Blind Rams
Desilter Ran 3 HRS
Des c/f 1200
Des o/f 1450

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAYWORK HRS.	DAYWORK MIN.
0000	0100	Drill	1	
0100	0115	Rig Service		15
0115	0200	Drill		45
0200	0230	Dev Survey		30
0230	0700	Hoist Get Bit Make Trip Tank 160 bbl	4	30
0700	0800	Make up Bit 12 Run in	1	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Don Fitzpatrick

DAYLIGHT TOUR

OPERATING DATA			BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN		TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG.
SIZE D.C. 171	PUMP SPM	110	#12	215.9	J 3	11	4/4		12[00]	1235	45	30	10.5			KCL 1075 STAFLO 25
NO. D.C. 22	PUMP PRESS	13000	SER #53296						15[00]	1235	47		10.5			NOKEGEN 91 SOS 20L
PUMP STROKE 215.9	ROTARY RPM	90	JETS 3/32													KELZAN 25
LINER SIZE 139.7	WT. ON BIT	16/18														SCALEBAN 16L

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
2327	2338				

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DESILTER RUN 3 hrs.
DES. U.F. 1300
DES. O.F. 1180

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
15[45]	11[30]	RUN IN DRILL PIPE		
11[30]	11[45]	FILL PIPE FLT ON KELLY		
		REAM TO BTM. .5m FILL		
11[45]	16[00]	DRILL AHEAD		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER J. Turner

EVENING TOUR

OPERATING DATA			BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN		TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG.
SIZE D.C. 171	PUMP SPM	110	#12	215.9	S336	8			22[00]	1215	43	40	10.5			GEL
NO. D.C. 22	PUMP PRESS	13000							24[00]	1210	45		10.5			
PUMP STROKE 215.9	ROTARY RPM	90														
LINER SIZE 139.7	WT. ON BIT	18														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
2338	2343				

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES. RUN. U.F.
O.F.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
16[00]	2100	DRILL AHEAD	5	00
2100	2130	Rig Service		30
2130	2400	Drill	2	30

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Don Fitzpatrick

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED R. Kaufmer TOOLPUSH
SIGNED R. C. Horner CO. REP.

14

TEXACO CANADA INC.

TEC 212 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 47
ROTARY ✓
SERVICE
FIELD Bovie Lake
LEASE Texaco Mobil
WELL NO. 11-78
PROVINCE NWT

CONTRACTOR Kenting Drilling RIG NO. 22E DATE 80/3/6

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 3000 | PUMP STROKE 216 | ROTARY RPM 120 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 11 | SIZE 216 | TYPE J33 | METRES 38 | HRS RUN 10½

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0200	1210	42	4.0	10.0		
0400	1229	43		10.5		
0600	1215	45		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
KCL 1000	Scalehan 16
STAFLO #2.7	SOS 20
Kelzan 95	Caustic 45
WCX/SEW 90.8	

DRILLED FROM 2235 TO 2265

REAMED FROM TO

SURVEYS DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Activated Typical

Desilter Ran 3 HRS

Des of 1205

Des of 1650

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0100	Drill	1	
0100	0115	Rig Service		15
0115	0800	Drill	6	45

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lafleur

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 13000 | PUMP STROKE 215.9 | ROTARY RPM 120 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. #11 | SIZE 215.9 | TYPE J33 | METRES 68 | HRS RUN 18
SER# 533274
JETS 3/12.9

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0400	1210	47	52	10.5		
1100	1210	48		10.5		
1300	1200	49		10.5		
1500	1200	45		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
POTASH 750	
SOS 20L	
NOXYGEN 182	
STAFLO 22.68	

DRILLED 30 FROM 2265 TO 2295

REAMED FROM TO

SURVEYS DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

KELZAN 25

CHECKED OUT LOWER PIPE RAMS O.K.

RIG TIME DATA THIS TOUR SCALEBAN 32 DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0800	1300	DRILL AHEAD.		
1300	1330	RIG SERVICE		
1330	1600	DRILL AHEAD.		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 13000 | PUMP STROKE 215.9 | ROTARY RPM 115 | LINER SIZE 139.7 | WT. ON BIT 18/19

BIT DATA: NO. #11 | SIZE 215.9 | TYPE J33 | METRES 53.97 | HRS RUN 26

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1800	1210	47	50	10.5		
2200	1215	47	50	10.0		
2400	1221	47		10.5		

DRILLED FROM 2295 TO 2321

REAMED FROM TO

SURVEYS DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	2400	DRILL AHEAD.	8	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lafleur

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature] TOOLPUSH

SIGNED [signature] CO. REP.

TEXACO CANADA INC.

TEC 717 - A (6/78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 46
FIELD Bonnie Lake
LEASE Texaco Mobil
WELL NO. 111-78
PROVINCE N.W.T.

ROTARY ☐
SERVICE ☐

CONTRACTOR Kenting Drlg Ltd RIG NO. 22K DATE 80/3/5

MORNING TOUR

OPERATING DATA: SIZE D.C. 7 1/4 | PUMP SPM 100 | NO. D.C. 22 | PUMP PRESS 1000 | PUMP STROKE 216 | ROTARY RPM 100 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 10 | SIZE 8 1/2 | TYPE J-33 | METRES 175 | HRS RUN 37 1/4

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0200	10.0	42				
0400	10.0	42				
0600	10.0	42				

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED 73 — FROM 2202 TO 2275

REAMED — FROM — TO

SURVEYS — DEPTH — ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0230	Drill	2	30
0230	0245	Rig Service		15
0245	0800	Drill	5	15

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS — SHORT ☐ " " " "

DRILLER B. Kehler

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 7 1/4 | PUMP SPM 100 | NO. D.C. 22 | PUMP PRESS 0500 | PUMP STROKE 216 | ROTARY RPM 100 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 10 | SIZE 8 1/2 | TYPE J-33 | METRES 177 | HRS RUN 55 1/4

MUD TEST DATA: TRIP

MUD ADDED THIS TOUR: BARITE 3324

DRILLED — FROM 2275 TO 2327

REAMED — FROM — TO

SURVEYS — DEPTH 2327 — ANGLE 1°

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Conduct Weekly Safety inspection of Drill Collars.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0830	Drill		30
0830	0900	Drop Survey		30
0900	1600	Short Trip	7	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS — SHORT ☐ " " " "

DRILLER Dean Lapchuk

EVENING TOUR

OPERATING DATA: SIZE D.C. 7 1/4 | PUMP SPM 67/105 | NO. D.C. 22 | PUMP PRESS 1050 | PUMP STROKE 215/269 | ROTARY RPM 80/120 | LINER SIZE 139.7 | WT. ON BIT 10/16

BIT DATA: NO. #1 | SIZE 12 1/4 | TYPE J-33 | METRES 215.9 | HRS RUN 46 2 1/4

SER#5327H JETS 3/19

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
2100	10.0	45				
2300	10.5	42	7.0			

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED 4 — FROM 2271 TO 2275

REAMED — FROM — TO

SURVEYS — DEPTH — ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT, PLUGS, ETC.)

Close Blind Rams.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1100	1600	TRIP + LAY DOWN 4 1/2" DRILL COLLARS + CHECK OUT 8" COLLARS	5	
1600	1730	CHANGE BIT RUN IN 8" COLLARS	1	30
1730	2100	RUN IN PIPE - FILL PIPE @ CASING SHOE	3	30
2100	2115	Change Corrosion ring + Ream To Btm		15
2115	2200	DRILL AHEAD.		45

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS — SHORT ☐ " " " "

DRILLER N. Wagner

CAMP ☐ YES ☐ NO — BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE?

SIGNED

SIGNED Leo Horner TOOLPUSH CO. REP.

TEXACO CANADA INC.

TFC 212 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 45
FIELD Boyer Lake
LEASE Texaco Mobil
WELL NO. 10-28
PROVINCE N.W.T.

ROTARY ☐
SERVICE ☐

CONTRACTOR Kenting Drilling RIG NO. 225 DATE 80/3/4

MORNING TOUR

OPERATING DATA			BIT DATA NO.	SIZE	TYPE	METRES	HRS RUN	MUD TEST DATA TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MUD ADDED THIS TOUR MATERIAL	UNIT KG
SIZE D.C. 171	PUMP SPM	105	10	2 1/6	J-3	102.7	113 3/4	0200	1220	40		10.5			KCL	1000
NO. D.C. 22	PUMP PRESS	12.5													SOS	20L
PUMP STROKE 216	ROTARY RPM	90													SCALBAN 8L Oxygen	90.8
LINER SIZE 139.7	WT. ON BIT	18000														

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE	RIG TIME DATA THIS TOUR FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
2152	2152					0000	0015	Rig Service		15
						0015	0800	Drill	7	45

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Activate Tool-ET

Pipe rams

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☑ SPECIFY JOB AND HOURS ☐ SHORT ☐ " " " "

DRILLER B. Johnson

DAYLIGHT TOUR

OPERATING DATA			BIT DATA NO.	SIZE	TYPE	METRES	HRS RUN	MUD TEST DATA TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MUD ADDED THIS TOUR MATERIAL	UNIT KG
SIZE D.C. 171	PUMP SPM	100	10	2 1/6	J-3	127	42	1000	1210	42		10.5			KCL 1000 Kg	Oxygen 90.8
NO. D.C. 22	PUMP PRESS	10500						1300	1205	42		10.0			SOS 20L	Scalaban 8L
PUMP STROKE 216	ROTARY RPM	120						1600	1200	40		10.5			Staflo 25 Kg	Caustic 41.5
LINER SIZE 139.7	WT. ON BIT	18													Kelzan 22.7	

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE	RIG TIME DATA THIS TOUR FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
2152	2177			2170	1/2	0800	1115	Drill	3	15
						1115	1130	Rig Service		15
						1130	1430	Drill	3	
						1430	1500	Survey		30
						1500	1600	Drill	1	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Activated Kydill

Desilted Rm 3 HRS

Dev @ 1195
Dev @ 1450

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS ☐ SHORT ☐ " " " "

DRILLER Dean Lybyak

EVENING TOUR

OPERATING DATA			BIT DATA NO.	SIZE	TYPE	METRES	HRS RUN	MUD TEST DATA TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MUC ADDED THIS TOUR MATERIAL	UNIT KG
SIZE D.C. 171	PUMP SPM	100	10	2 1/6	J-3	122.50		1800	1210	42	50	11.5			KCL 100 Kg	20L
NO. D.C. 22	PUMP PRESS	10500						2000	1195	43		10.5			STAFLO 25 Kg	Scalaban 8L
PUMP STROKE 216	ROTARY RPM	120													XC Polymer 2.5 Kg	
LINER SIZE 139.7	WT. ON BIT	18													Nonyl-en 10.0 Kg	

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE	RIG TIME DATA THIS TOUR FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
2177	2202					1600	2400	Drill	8	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS ☐ SHORT ☐ " " " "

DRILLER B. Johnson

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TEC 212 A (5-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 44
FIELD Bovie Lake
LEASE Texaco Hen. 1
WELL NO. HN-7B
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR Kenting Drlg Ltd RIG NO. 225 DATE 80/3/2

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 105 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 216 | ROTARY RPM 95 | LINER SIZE 139.7 | WT. ON BIT 16

BIT DATA: NO. 10 | SIZE 216 | TYPE J-3 | METRES 54 | HRS. RUN 11.74

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0200	1240	42		10.5		
0400	1250	42	5.6	10.5		
0700	1255	40		10.3		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
SOS 20L	
SCALEBAN	8L
KCL	1000 KG
Nitrogen	90-8

DRILLED: FROM 2060 TO 2084

REAMED: FROM TO

SURVEYS: DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0130	0300	Drill	3	
0300	0315	Rig service - Hydril		15
0315	0800	Drill	4	45

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R. Johnson

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 100 | NO. D.C. 22 | PUMP PRESS 14500 | PUMP STROKE 216 | ROTARY RPM 100 | LINER SIZE 139.7 | WT. ON BIT 16

BIT DATA: NO. 10 | SIZE 216 | TYPE J-3 | METRES 58 | HRS. RUN 19

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
10[00]	1230	42		10.5		
13[00]	1225	40		10.5		
16[00]	1220	38	5.0	10.0		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
KCL	1000 KG
Nitrogen	90.8 KG
SCALEBAN	8 L
Kelzan	20.7 KG
SOS	20 L

DRILLED: FROM 2084 TO 2108

REAMED: FROM TO

SURVEYS: DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.

Activated top pipe rams

Driller RAN 3 HRS

Dev @ 1225
Dev @ 1790

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0500	0815	Rig service		15
0815	1600	Drill	7	45

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lykpuk

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 105 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 216 | ROTARY RPM 100 | LINER SIZE 139.7 | WT. ON BIT 16

BIT DATA: NO. 10 | SIZE 216 | TYPE J-3 | METRES 24 | HRS. RUN 7

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
18[00]	1220	40		10.0		
20[00]	1215	43	4.0	10.5		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
CAUSTIC	45.4

DRILLED: FROM 2108 TO 2132

REAMED: FROM TO

SURVEYS: DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	HRS	Drill		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER B. Johnson

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED SIGNED TOOLPUSH / CO. REP.

TEXACO CANADA INC.

TEC 217 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 43
FIELD Bonnie Lake
LEASE Texaco Mobil
WELL NO. M-78
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR Kenting Drlg Ltd RIG NO 225 DATE 80/3/2

MORNING TOUR

OPERATING DATA

SIZE D.C. 171	PUMP SPM		
NO. D.C. 22	PUMP PRESS		
PUMP STROKE 216	ROTARY RPM	80	
LINER SIZE 139.7	WT. ON BIT	18	

BIT DATA

NO.	SIZE	TYPE	METRES	HRS RUN
9	216	FH52	54	29½

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0200	12+	40		11.		
0700	12+	70	6.5	10.5		
0700	12+	70		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
SOS 20L	8L
KCL 1000 KG	25 46
XC Polymer	25
Oxygen	90.8

DRILLED FROM 2039 TO 2050
REAMED FROM TO
SURVEYS DEPTH ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0730	Drill		
0730	0800			

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R. Kahn

DAYLIGHT TOUR

OPERATING DATA

SIZE D.C. 171	PUMP SPM		
NO. D.C. 22	PUMP PRESS		
PUMP STROKE 216	ROTARY RPM		
LINER SIZE 139.7	WT. ON BIT		

BIT DATA

NO.	SIZE	TYPE	METRES	HRS RUN
9	216	HP62		

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
TRIP						

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
BARITE	2951 KG

DRILLED FROM 2050 TO
REAMED FROM TO
SURVEYS DEPTH ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	1000	Work on pumps	2	
1000	1330	Change bit 9 + trip out.	5	
1500	1600	Work up bit to Run	1	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Bit got washed out on bit 9
Depth 2050
Strap 2046.14
Diff. 3.36
Hole took 1.14 m³

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapoint

EVENING TOUR

OPERATING DATA

SIZE D.C. 171	PUMP SPM	100	
NO. D.C. 22	PUMP PRESS	11000	
PUMP STROKE 216	ROTARY RPM	90	
LINER SIZE 139.7	WT. ON BIT	15	

BIT DATA

NO.	SIZE	TYPE	METRES	HRS RUN
10	216	J3	10	3½

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG

DRILLED 10 FROM 2050 TO 2060
REAMED FROM TO
SURVEYS DEPTH ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1930	Run in	3	30
1930	2000	Break Circ & clean to btm.		30
2000	2200	Drill	2	
2200	2210	Rig Service		10
2210	2340	Drill	1	30

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R. Kahn

CAMP ☑ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TEC 717 A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 42
FIELD Bodo Lake
LEASE Imperial Bodo
WELL NO. Y1-72
PROVINCE N.W.T.

ROTARY ☑ SERVICE ☐

CONTRACTOR Kenting Drlg Ltd RIG NO. 22E DATE 80/3/01

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM | NO. D.C. 22 | PUMP PRESS | PUMP STROKE 216 | ROTARY RPM | LINER SIZE 139.7 | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0300	1220	44	6.5	10.5		
0500	1225	42		10.5		
0700	1230	46		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
SOS 20L | SCALEGON	4L
KCL 1000 KG | CAUSTIC	454
Nexygen 454 | STOFLOW	25
KCL Polymer	25

DRILLED: FROM 1996 TO 2006

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0030	Rig up w/ b.t. # 9	1	30
0130	0145	Break Circ & clean to btm		15
0145	0800	Drill		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 105 | NO. D.C. 22 | PUMP PRESS 10300 | PUMP STROKE 216 | ROTARY RPM 70 | LINER SIZE 139.7 | WT. ON BIT 20

BIT DATA: NO. 9 | SIZE 216 | TYPE FP52 | METRES 24 | HRS RUN 14

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1000	1225	45		10.5		
1300	1225	44		10.5		
1600	1225	44	40	10.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
Oxygen	90.8 KG
Scale ban	8 L
KCL	1000 KG
Milpolymer 303	22.7 KG
SOS	20 L

DRILLED: FROM 2006 TO 2020

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	0845	DRILL		45
0845	0900	RIG Service		15
0900	1600	DRILL	7	-

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO 8

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 105 | NO. D.C. 22 | PUMP PRESS 10300 | PUMP STROKE 216 | ROTARY RPM 70 | LINER SIZE 139.7 | WT. ON BIT 20

BIT DATA: NO. 9 | SIZE 216 | TYPE FP52 | METRES 43 | HRS RUN 22

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1800	1225	43		10.5		
2000	1232	41		10.5		

DRILLED: FROM 2020 TO 2039

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	2400	DRILL	8	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature] TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TEC 212 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 41
ROTARY ☑ FIELD Doig Lake
SERVICE ☐ LEASE W-78
WELL NO. Texaco Mobil
PROVINCE N.W.T.

CONTRACTOR Kenting Drlg Ltd RIG NO. 225 DATE 80/2/29

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 100 | NO. D.C. 22 | PUMP PRESS 10500 | PUMP STROKE 216 | ROTARY RPM 105 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 8 | SIZE 216 | TYPE STT | METRES 76 | HRS RUN 30

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0200	1225	47		11.0		
0500	1230	44	5.8	11.0		
0700	1240	50		10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNIT/KG
KCL	1000
Nosorb	90.8
Starflow	81
SOS 206	

DRILLED 21 (FROM 1956 TO 1977) | REAMED (FROM / TO) | SURVEYS (DEPTH / ANGLE)

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Top pipe rams → OK.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0400	Drill	4	
0400	0415	Rig Service		15
0415	0800	Drill	3	45

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER B. [illegible]

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 100 | NO. D.C. 22 | PUMP PRESS 10500 | PUMP STROKE 216 | ROTARY RPM 80 | LINER SIZE 139.7 | WT. ON BIT 22

BIT DATA: NO. 8 | SIZE 216 | TYPE STT | METRES 115 | HRS RUN 37¼

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1000	1245	46	4.0	10.0		
1300	1245	43		10.5		
1600	1245	45		10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNIT/KG
KCL	1000 KG
Noxygen	90.8
Scalebon	16 L
Caustic	45.4

DRILLED (FROM 1977 TO 1996) | REAMED (FROM / TO) | SURVEYS (DEPTH / ANGLE)

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Detected loss in pipe rams.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	0815	Rig Service		15
0815	1400	Drill	7	45

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER Dean Lychpeck

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM — | NO. D.C. 22 | PUMP PRESS — | PUMP STROKE 216 | ROTARY RPM — | LINER SIZE 139.7 | WT. ON BIT —

BIT DATA: NO. 8 | SIZE 216 | TYPE STT | METRES 115 | HRS RUN 37¼
NO. 9 | SIZE 216 | TYPE F32

MUD TEST DATA: TRIP

MUD ADDED THIS TOUR:

MATERIAL	UNIT/KG
BARITE	2724 KG

DRILLED (FROM / TO) | REAMED (FROM / TO) | SURVEYS (DEPTH 896 / ANGLE 1½)

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Attempt to bleed pipe rams
Clear out of hole

13.6 m³ mud to fill hole

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1630	Dep Survey		30
1630	2000	Trip out of hole	3	30
2000	2015	Flow check		15
2015	2345	Finish out w/ bit		30
2345	0230	Make up BIT & Run in	2	15
0230	0400	Slip & cut drlg line	1	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER [illegible]

CAMP ☑ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOL PUSH

SIGNED [illegible] CO. REP.

TEXACO CANADA INC.

TEC 212 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 40
FIELD Bove Lake
LEASE Texaco Hob.
WELL NO. M-78
PROVINCE N.W.T

ROTARY ☑
SERVICE ☐

CONTRACTOR Kenting Dale Zapl RIG NO. 225 DATE 5/12/82

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 100 | NO. D.C. 22 | PUMP PRESS 10500 | PUMP STROKE 216 | ROTARY RPM 120 | LINER SIZE 139.7 | WT. ON BIT 15

BIT DATA: NO. 1 | SIZE 216 | TYPE STC 18 | METRES 544 | HRS RUN 23/4

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0300	1240	50	38	10		
0300	1240	75		10		
0700	1240	ST		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
SOS 20L Biocide	8L
Caustic	45.4
Oxygen Scav	90.8
HCL	1200

DRILLED: FROM 1881 TO 1899 | REAMED: FROM TO | SURVEYS: DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG-TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0045	Run in w/ bit		
0045	0100	Break Circ. Clean 1/2 m to btm		45
0100	0300	Drill 216 mm Hole	2	15
0300	0315	Work on pumps		15
0315	0700	Drill	4	45

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER D. Fahrni

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 100 | NO. D.C. 22 | PUMP PRESS 10500 | PUMP STROKE 216 | ROTARY RPM 90 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 1 | SIZE 216 | TYPE STC | METRES 51 | HRS RUN 1 1/2

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1000	1240	47	36	10.5		
1300	1240	47		100		
1600	1240	50		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
KCL	1000
SOS	20
Oxygen Scav	90.8
Scale Inhib	16.6
Caustic	45.4

DRILLED: FROM 1899 TO 1932 | REAMED: FROM TO | SURVEYS: DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Activated Asphalt

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0845	Drill		45
0845	0900	Rig Service		15
0900	1600	Drill	7	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER Dean Lybyck

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 100 | NO. D.C. 22 | PUMP PRESS 10500 | PUMP STROKE 216 | ROTARY RPM 100 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 1 | SIZE 216 | TYPE STC 344 | METRES 75 | HRS RUN 2 1/4

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1800	1240	60		10.5		
2000	1240	50		10.5		
2200	1230	52	48	11.0		
0400	1230	48		11.0		

DRILLED: FROM 1932 TO 1956 | REAMED: FROM TO | SURVEYS: DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Activate Aston pipe rams

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	2130	Drill	5	30
2130	2145	Rig Service		15
2145	0400	Drill	7	15

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☑ " " " "

DRILLER E. Fahrni

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TEC 213 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 39
ROTARY ✓ FIELD TEXACO
SERVICE ☐ LEASE M-79
WELL NO. BOUIE LAKE
PROVINCE N.W.T.

CONTRACTOR XENTING DRLG RIG NO. 22E DATE 80-01-27

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 6000 | PUMP STROKE 215.9 | ROTARY RPM 120 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 1 | SIZE 215.9 | TYPE J22 | METRES 432 | HRS RUN 22

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
02:00	1200	52		10.5		
04:00	1205	50		10.5		
06:00	1210	48	46	10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNITS
SOS 20 cs.	
OXYGEN 45.5	kgs
SCRUBBAN 4	cs
CAUSTIC 45.5	

DRILLED 16 | REAMED | SURVEYS DEPTH / ANGLE

RIG TIME DATA THIS TOUR (DAYWORK) — ATCO #1250

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1851	1867	0600 06:00 DRILL AHEAD.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGASSER RUN 8 hrs.

Pressure Gradient 0.5
SPM 055 for #2 Pump 3800 kPa

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER W. Wynes

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 6000 | PUMP STROKE 216 | ROTARY RPM 80 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 1 | SIZE 216 | TYPE [illegible] | METRES 57 | HRS RUN 28¾

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0900	1210	50	52	10		
1200	1210	52		10		
1500	1200	52		10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNITS
BARITE	2724
Incl 1000 kg SOS	20
XC Polymer	25
Steelead	25
Caustic	454
Nitrogen	900

DRILLED 14 | REAMED | SURVEYS DEPTH / ANGLE

RIG TIME DATA THIS TOUR (DAYWORK) — SCHEEBAN 4L

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1867	1881	0600 0800 Drill	2	
		0800 1015 Rig Service		15
		1015 1500 Drill	4	45
		1500 1615 Pump pill & Drop Survey		15
		1515 1600 Trip out.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Actuated Lower Pipe rams

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER B. Hahn

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM | NO. D.C. 22 | PUMP PRESS | PUMP STROKE 216 | ROTARY RPM | LINER SIZE 139.7 | WT. ON BIT

BIT DATA: NO. 2 | SIZE 216 | TYPE S44

MUD TEST DATA: Trip

DRILLED | REAMED | SURVEYS DEPTH / ANGLE

RIG TIME DATA THIS TOUR (DAYWORK)

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1881		1600 2015 Hoist pipe ✓	4	15
		2015 2400 Make up bit & Ream in	3	45

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Close Blind Rams. Log on same.

Hole took 15m³

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER Don Lloyd

CAMP ☑ YES ☐ NO | BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature] TOOLPUSHER

SIGNED [signature] CO. REP.

TEXACO CANADA INC.

REPORT NUMBER 38

DAILY DRILLING WELL REPORT

ROTARY ☑ FIELD TEXACO HOBBLE
SERVICE ☐ LEASE BIVIE LAKE
WELL NO. H-28
PROVINCE N.W.T.

CONTRACTOR KENTING DRLG. RIG NO. 22E DATE 80/2/26

MORNING TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM	—	#1	215	J22											
NO. D.C. 22	PUMP PRESS	—	SER# 436/8													
PUMP STROKE 215.9	ROTARY RPM	—	JETS 16-16-13													
LINER SIZE 139.7	WT. ON BIT	—														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
1824	1824			1824	2°

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0800	0845	TRIP OUT BIT #6		
0845	0945	RUN IN W/BIT #7 FILL PIPE		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGASSER RUN 8 HRS.

Checked blind rams O.K.
HOLE TOOK 9 m³ FILL.
pressure gradient 18.5

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER D. Dyer

DAYLIGHT TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM	110	7	216	J22	11	6 1/4	1030	1205	52		10.0			NOXYGEN	90.8
NO. D.C. 22	PUMP PRESS	6800						1300	1210	56		9.5			SCALEBAN	8L
PUMP STROKE 215.9	ROTARY RPM	90						1600	1210	62	30	10.0			LIL	1000
LINER SIZE 139.7	WT. ON BIT	13													CAUSTIC	45.4

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
1824	1835				

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0800	0900	Finish in D.T #7	1	
0900	0930	Break Circ & Cut		30
0930	1515	Drill	5	45
1515	1530	Rig Service		15
1530	1600	Drill		30

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Actuate Top pipe rams

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER E. Gowan

EVENING TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM	110	7	216	J22	27	14	1900	1205	58	4.2	10.0			SOS	22C
NO. D.C. 22	PUMP PRESS	6800						2400	1200	54	4.2	10.0			NOXYGEN	45.5
PUMP STROKE 215.9	ROTARY RPM	100						2400	1195	52	4.2	10.0			SCALEBAN	4L
LINER SIZE 139.7	WT. ON BIT	13														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
1835	1851				

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	2000	DRILL		
2000	2045	RIG SERVICE		
2045	2400	DRILL AHEAD.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGASSER RUN 8 hrs.

Checked bottom #2 pipe rams. OK.

8 hrs.

STRAP 1.82 m Less than geol.

S.F.L. @ #2 pump 55 SPM = 3500 kPa

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R. Wagner

CAMP ☑ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED J. B. Gowan CO. REP.

TEXACO CANADA INC.

TEC 217 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 37
FIELD TEXACO PROBLE
LEASE BOUIE LAKE
WELL NO. M-27
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR KENTING DALG - RIG NO. 22E DATE 86/2/25

MORNING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C. 171	PUMP SPM 100	NO.	SIZE	TYPE	METRES	HRS RUN		TIME	WT.	VIS	W.L.	P.H.	P.V. Y.P.	MATERIAL	UNIT/KG
NO. D.C. 22	PUMP PRESS 11000	#6	215.9	J3	2660	57¾		1000	1055	54		11.0		NITROGEN	
PUMP STROKE 215.9	ROTARY RPM 30							0300	1020	54		11.0		SCALEBAN	
LINER SIZE 139.7	WT. ON BIT —							0600	1110	54		11.0		BARITE	

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE
1824	1824				

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0600	0800	CIRC & Condition Mud. mix Barite.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGASSER RUN 6 hrs.

Short trip

Pressure Gradient 18.5

S.P.L. @ 55 str #1 Pump 3840 K.Pa.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER D. Wegner

DAYLIGHT TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C. 171	PUMP SPM 100	NO.	SIZE	TYPE	METRES	HRS RUN		TIME	WT.	VIS	W.L.	P.H.	P.V. Y.P.	MATERIAL	UNIT/KG
NO. D.C. 22	PUMP PRESS 11000	6	215.9	J3	2660	57¾		0100	1160	52		10.5		SCALEBAN	12L
PUMP STROKE 215.9	ROTARY RPM —							1300	1180	50		10.5		Nitrogen	1360
LINER SIZE 139.7	WT. ON BIT —							1600	1170	50		10.0		BARITE	4540 KG

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE
1824					

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0600	1000	Circ & cond mud	4	
1000	1600	Circ choke & pull back degasser 6		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Mud very gassy
Mud @ shaker Density 1080
" @ suction " 1240
after 1 circ thru choke, 7500 KPA
Back Press.
Mud @ shaker Density 1095
" @ suction " 1240 after
2 circ thru choke 4000 KPa
Back Press.
Mud @ shaker Density 1120
" @ suction " 1240 after
3rd circ thru choke 4000 KPa.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS Back Press.
SHORT ☐ " " " "

DRILLER B. [illegible]

EVENING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C. 171	PUMP SPM 35	NO.	SIZE	TYPE	METRES	HRS RUN		WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
NO. D.C. 22	PUMP PRESS 3800	6	216	J3	260	57¾		1120	50		10.0				
PUMP STROKE 215.9	ROTARY RPM —							1120	50		10.0			BARITE	
LINER SIZE 139.7	WT. ON BIT —							1120	50		10.0				

DRILLED FROM	TO	REAMED FROM	TO	SURV. DEPTH	ANGLE
1824	1824				

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	1700	Circ		
1700	2100	SHUT IN WELL ~~through~~ ~~kelly cock degasser choke~~ w/ kelly cock & safety valve in drill pipe.		
2100	2300	CIRC BTMS UP 2 circ		
2300	2315	PUMP PILL		
2315	2330	ROT. SURVEY BLOW KELLY		
2330	2400	HOIST. BIT #6		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGASSER RUN 6 hrs.
Shut in well after 1 hr 2700 KPa "0" on D.P.
"0" on annulus
after 2 hrs "0" on D.P.
+ 1500 KPa on annulus
this 1500 KPa is the diff in
Mud density D.P. to annulus.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER D. Wegner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature] TOOLPUSH
SIGNED [signature] CO. REP.

TEXACO CANADA INC.

TEC 217-A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 36
FIELD TEXACO MOBILE
LEASE BOUE LAKE
WELL NO. 44-28
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR ZENTING DRLG. RIG NO. 22E DATE 80/2/24

MORNING TOUR

OPERATING DATA: SIZE D.C. 171, NO. D.C. 22, PUMP STROKE 215.9, LINER SIZE 139.7, PUMP SPM 110, PUMP PRESS 11000, ROTARY RPM 120, WT. ON BIT 14

BIT DATA: NO. 6, SIZE 215J, TYPE 3, METRES 245, HRS RUN 55; SERIAL 43615; SEALS 7.9-7.9-7.9

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0200	11			11.0		
0400	1115	33		11.0		
0600	1115	33		11.0		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
NOXEGEN	50#
SCALEBAN	8L
SOS	20L

DRILLED 19 — FROM 1791 TO 1810

REAMED — FROM — TO

SURVEYS — DEPTH — ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RUN DEGASSER. 8 hrs.

At 1750-55 lost 6-7M³ Mud. No drilling breaks anywhere near this depth.

Mix 25 sqf Sawdust.

Volume fluctuations, static.

1000 HRS Volume increased by 10M³ to 16M³. Start mixing barite

1200 HRS Volume decreased to 15M³.

Pressure Gradient 18.6

S.P.L. #1 Pump 3540 L.Pa.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0045	DRILL AHEAD.		
0045	0430	CIRC + MIX SAWDUST, Work pipe		
0430	0850	DRILL AHEAD.		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO: 8 hrs.

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wagner

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171, NO. D.C. 22, PUMP STROKE 215.9, LINER SIZE 139.7, PUMP SPM 115, PUMP PRESS 11000, ROTARY RPM 120, WT. ON BIT 14

BIT DATA: NO. 6, SIZE 215.53

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0330	1130	52		10.		
0800	1135	52		100.		
1600	48	50		10.		
1900		50		10.		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
NOXYGEN	12 L
NOXYGEN	136 KG
BARITE	7264 KG

DRILLED 19 — FROM 1810 TO 1854

REAMED — FROM — TO

SURVEYS — DEPTH — ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Degasser Ran 8 hrs

Mud lost of flowline very gassy

Shaker & Mud Degasser

Continue to mix barite

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	0930	Drill	1	30
0930	0945	Flow check		15
0945	1100	Drill	1	15
1100	1105	Circ & mix Barite		5

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER B. Johnson

EVENING TOUR

OPERATING DATA: SIZE D.C. 171, NO. D.C. 22, PUMP STROKE 215.9, LINER SIZE 139.7, PUMP SPM 110, PUMP PRESS 11000, ROTARY RPM 120, WT. ON BIT —

BIT DATA: NO. 6, SIZE 215J, TYPE 3, METRES 260, HRS RUN 57¾

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1700	30			10.0		
2400	1030	51		11.0		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
BARITE	7280 KG

DRILLED 0 — FROM 1854 TO 1829

REAMED — FROM — TO

SURVEYS — DEPTH — ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DEGasser = 8 hrs.

Mud volume not fluctuating more than 1 m³ either way

Continue to mix barite

Mud very gassy at flowline

Final depth 1829

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1800	2400	Circ & condition mud w/Barite		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO: 8 hrs.

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature] TOOLPUSH

SIGOCO [signature] CO. REP.

TEXACO CANADA INC.

TEC 212-A (4-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 35
FIELD TEXACO MOBILE
LEASE M-73
WELL NO. DOVIE
PROVINCE N.W.T.

ROTARY ☑ SERVICE ☐

CONTRACTOR ZENTING DRLG. RIG NO. 22E DATE 80/2/23

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 215.4 | ROTARY RPM 120 | LINER SIZE 139.7 | WT. ON BIT 14

BIT DATA: NO. 6 | SIZE 215.9 | TYPE J3 | METRES 140 | HRS RUN 35¾ | SER# 43618 | JETS 7.9-7.9-7.9

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0100	1125	44	44	10.5		
0300	1125	46		10.5		
0600	1130	45	47	10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNIT/KG
POTASH	175 Kg
SLAKEBAN	132 Kg
NOXEGEN	210 Kg
GEL	270 Kg
SOS	40 Kg

DRILLED 43 | REAMED | SURVEYS DEPTH / ANGLE | RIG TIME DATA THIS TOUR 8 Hrs | DAY WORK

FROM	TO
1662	1705

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0000	0115	DRILL AHEAD.		
0115	0130	RIG SERVICE CHECK #1		
0130	0800	DRILL AHEAD. PIPE RAMS		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES. OF. 1180 OF. 1120
CEN. OF. 1095
BOTH RUN 8 hrs.

Pressure Gradient 15.52 Pa.

S.P.L. #1 Pump 3940 kPa

8 Hrs.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS. SHORT ☐ " " " "

DRILLER W. Wagner

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 215.4 | ROTARY RPM 120 | LINER SIZE 139.7 | WT. ON BIT 14

BIT DATA: NO. 6 | SIZE 216 | TYPE J3 | METRES 162 | HRS RUN 43¾ | TIME 1600

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1200	1120	48		9.5		
1700	1130	52	40	9.0		
2300	1130	52		9.5		
1500	1130	52	40	10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNIT/KG
SOS 40 L	SCALEBAN 32 L
CAUSTIC 45 L	
H.C.L. 750	
Noxygen 35	

DRILLED | REAMED | SURVEYS DEPTH 1701 ANGLE 1° | RIG TIME DATA THIS TOUR | DAY WORK

FROM	TO
1705	1747

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0800	0830	Drill		
0830	0900	Survey @ 1709 - 1° Rig Service		
0900	1600	Drill		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Check Top Rams 4½

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS. SHORT ☐ " " " "

DRILLER E. Johnson

EVENING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 110 | NO. D.C. 22 | PUMP PRESS 11000 | PUMP STROKE 215.9 | ROTARY RPM 120 | LINER SIZE 139.7 | WT. ON BIT 14

BIT DATA: NO. 6 | SIZE 216 | TYPE J3 | METRES 226 | HRS RUN 50¾ | TIME 2400

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1700	1125	48		10.5		
2400	1125	50	47	10.5		
1200	1130	53		10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNIT/KG
NOXEGEN	50 Kg
SCALEBAN	32 Kg
SOS	20 Kg

DRILLED | REAMED | SURVEYS DEPTH / ANGLE | RIG TIME DATA THIS TOUR | DAY WORK

FROM	TO
1747	1791

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	2045	Drill		
2045	2100	Rig Service, Checked Lower Pipe Rams 4½" O.K.		
2100	2200	Drill		
2200	2215	Detect well flowing, Run Flow Check		
2215	2400	Drill Ahead.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES. OF. 1185 OF. 1175
CEN. OF. 1150 1053

BOTH RUN 7 hrs.

POT DEGASSER ON 2330 hrs

(1780 - 1785)

2400 hrs. Pit Loss = 5.5 m³

S.P.L. #1 Pump 3840 kPa.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS. SHORT ☐ " " " "

DRILLER W. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED Lee Warner CO. REP.

TEXACO CANADA INC.

TEC 217 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 34
ROTARY ☑ FIELD TEXACO MOBILE
SERVICE ☐ LEASE BOUIE LAKE
WELL NO. M-78
PROVINCE N.W.T.

CONTRACTOR KENTING DRLG RIG NO 22E DATE 90/2/22

MORNING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM 90 90	#6	259	J3	25	15/4	0200	1135	58		11.0			COUSTIC	113 4
NO. D.C. 22	PUMP PRESS 10 ~~00~~	SER# 43618					0400	1135	79		10.5			SCALEBAN	24L
PUMP STROKE 215.9	ROTARY RPM 65	SETS 7.9-7.9-7.9.					0600	1135	72		10.5			NOXEGEN	150 kg.
LINER SIZE 134.7	WT. ON BIT 12													POTASH	100 GK.

DRILLED 18 REAMED SURVEYS

FROM	TO	FROM	TO	DEPTH	ANGLE
1572	1590				

RIG TIME DATA THIS TOUR 505 40L

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
000	0100	DRILL AHEAD.		
0100	0130	RIG SERVICE		
0130	0500	DRILL AHEAD.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES. U.F. 1135 OF. 1140
CEN. OF. 1100
BOTH RUN 8 hrs.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO 8 hrs

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER N. Wegner

DAYLIGHT TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM 110	6	216	J2	~~55~~	22 3/4									
NO. D.C. 22	PUMP PRESS 11000														
PUMP STROKE 215.9	ROTARY RPM 110														
LINER SIZE 139.7	WT. ON BIT 14														

DRILLED 27 REAMED SURVEYS

FROM	TO	FROM	TO	DEPTH	ANGLE
1590	1617				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
800	0915	Drill	1	15
0915	0945	Run formation leak off test		30
0945	1600	Drill	6	15

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Des Met Run 8 hrs.
C. 1110 U. 1200
Cent a- 1090
Check Hydril OK

Depth Drilled 1393
Casing depth 1564
Gradient of Mud 11.72 KPa/M.
Hyd. Press @ shoe 17349
Leak off press 12000
Total Press 29349
Form. Press.
Gradient 18.5 KPa/M

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER R. Kotyk

EVENING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 171	PUMP SPM 110	6	215	J3	97	~~45~~ 28	1600	1135	42	10.0				SIGMA SOLICAL	1150
NO. D.C. 22	PUMP PRESS 11000						2000	1135	45	10.5				LIGNOSOL	45
PUMP STROKE 215.9	ROTARY RPM 110						2200	1135	47	10.5				NOXEGEN	175
LINER SIZE 139.7	WT. ON BIT 14													BARITE	1362
														SCALEBAN	24L

DRILLED 45 REAMED SURVEYS

FROM	TO	FROM	TO	DEPTH	ANGLE
1617	1662				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	2400	Drill 215.9 mm Hole		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES U.F. OF.
CEN. OF.
BOTH RUN 8 hrs.

TIME	DENS.	VIS.	P.H.
1900	1120	44	10.5
2000	1125	47	10.5
2400	1125	47	10.5

Pressure Gradient 18.56 Pa

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER N. Wegner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH
SIGNED _____ CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 33
ROTARY ☑ FIELD TEXACO MOBILE
SERVICE ☐ LEASE M-73
WELL NO. BOUELTEE
PROVINCE N.W.T.

CONTRACTOR KENTING DRLG. RIG NO. 22E DATE 80/2/21st.

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C. 171	PUMP SPM	NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS/KG
NO. D.C. 22	PUMP PRESS	#6	2159	J3										
PUMP STROKE 215.9	ROTARY RPM	JETS 7-7-7-7-9												
LINER SIZE 139.7	WT. ON BIT	SER# 43618												

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE
15					

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0001	03	FINISH FLOW LINE GET FLOOR READY.		
03	06	PRESSURE TEST ALL 4 main valves ON B.O.P.S. & PRESSURE TEST ALL MANIFOLD VALVES TO 17000 kPa O.K. on flare line to pit bay frozen BLOW OUT with steam & air all lines. O.K.		
06	08	START TO RUN IN.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

PRES. OF. U.T.
CEN. OF.
BOTH RUN 8 hrs.

Press test Blind Rams to 17000 KPa for 5 min O.K.
Low Press to 1500 KPA O.K. for 5 mins

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER N. Wagner

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C.	PUMP SPM	NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS/KG
NO. D.C.	PUMP PRESS													
PUMP STROKE	ROTARY RPM													
LINER SIZE	WT. ON BIT													

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0300	0930	Run in with bit	1	30
0930	1015	Repair hydraulics		45
1015	1230	Finishing pick up singles	1	45
1230	1300	Back Out & Cir.		30
1300	1430	Pressure test	1	
1430	1500	Drill out plug	1	30

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Press test all valves Control Manifold, HCR & Choke Line etc. to 17000 KPA & 1500 O.K.
Press test Hydril, Top 4½ & Btm 4½" Rams to 1500 KPa. & 17250 KPA all O.K. for 5 mins
Motor shutoff working
Press Kelly cock & Control valve to 17000 KPa O.K.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER E. [illegible]

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C. 171	PUMP SPM 110	NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS/KG
NO. D.C. 22	PUMP PRESS 1050	#6	2159											
PUMP STROKE 215.0	ROTARY RPM 65													
LINER SIZE 139.7	WT. ON BIT 12													

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE
1564	1572				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	1700	Drill cmt plug & shoe		
1700	1930	DRILL AHEAD.		
1930	2015	WORK ON PUMP.		
2015	TD	DRILL AHEAD		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Float @ 1533
Shoe @ 1564

38 hrs W.O.C.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER N. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature]

SIGNED A.B. Horner TOOLPUSH / CO. REP.

TEXACO CANADA INC.

TEC 212 A (6-71)

DAILY DRILLING WELL REPORT

ROTARY ☑ SERVICE ☐

REPORT NUMBER 22
FIELD Bonnie Lake
LEASE Imperial
WELL NO. 10-78
PROVINCE West

CONTRACTOR Bearing Drilling RIG NO. 226 DATE 30/9/70

MORNING TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNITS

DRILLED: FROM | TO — 1383'

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Des. of 1115 of 1180

Cent of 1030

Each RAN 8 HRS.

Cap String west 7" Csg.

Filly dozen 6500 lbs.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0200	Cement & displace casing	2	
0200		Change rams on BOPs, remove bowl protector, flow nipple, kill line and choke lines	3	
0500	0700	Test BOPs & csg	2	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER Don Lapoint

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNITS

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

8.93 cut off.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0800	0900	CUT OFF CASING		
0900	1000	HELP WELDER.		
1000	1500	SET ON TUBE & pool.		
1500	1600	TUBE WEAR AIN 5000 X 10 X - 50013"		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wagner

EVENING TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNITS

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	2400	Rig up HCR line, manifold, fill & kill line, tighten all flanges		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER L. Johnson

CAMP ☑ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED A. E. Stevens CO. REP.

TEXACO CANADA INC.

TEC 212 A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 31
FIELD Bons Lake
LEASE Texaco Mobil
WELL NO. M-78
PROVINCE NWT

ROTARY ☑
SERVICE ☐

CONTRACTOR Kenting Drilling RIG NO. 22E DATE 80/12/19

MORNING TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME-DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0300	Layout LT HRL	3	
0300	0400	Rig up pipe cradle	1	
0400		Lay down 225 mm collars, jars		
		Unload BOP	2	
0600	0700	Change rams on BOPs	1	
0700	0800	Rig up power tongs	1	

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Des of 1175 to 1180

Cent of 1040

EACH RAN 8 HRS

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lybrook

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0800	0915	RIG UP TO RUN CASING.		
0915	1045	PUT ON SHOE & FLOAT COLLAR		
1045	1600	RUN CASING		

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Run 9 jts 244.5 mm 59.5 Kg MN80 BdLT&C - 105.76 m
89 ✓ ✓ ✓ K55 ✓ ✓ 412.83
89 ✓ ✓ 53.5 ✓ ✓ 1046.69
TOTAL 1565.28 m Float Shoe @ 1564.7 MKB Float Collar @ 1555 MKB

Cemented w/ 13.6 MT 1-1-2% Jel .5% CFR-2 14.7 m³ Slurry
Displaced w/ 62.6 m³ mud
POB @ 0520
Good Returns thru out

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER N. Wagner

EVENING TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM 80 | NO. D.C. | PUMP PRESS 2000 | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME 2330 | WT. 1115 | VIS 61 | W.L. | P.H. 10.0 | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	2100	Run Casing	5	
2100	2130	Rig up & Circulate		30
2130	2330	Clean & Clear for Cmt	1	
2330	2430	Circulate work casing	1	30

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Des of 1180 to 1175

Cent of 1035

EACH RAN 8 HRS

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lybrook

CAMP ☐ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TEC 217 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 30
ROTARY ✓
SERVICE
FIELD Bonnie Lake
LEASE Texaco Mobil
WELL NO. M-78
PROVINCE Alta

CONTRACTOR Kenting Drilling RIG NO. 22E DATE 89/3/18

MORNING TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN | TIME

MUD TEST DATA: WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNITS/KG

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
1533					

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
		0000 0800 Logging	8	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Des of 1130 of 1180

Cent of 1040

EACH RAN 8 HRS

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dan Lukpuk

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN | TIME

MUD TEST DATA: WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNITS/KG

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Log #1 GR-BHCS-Cal 1560-400 mKB
2 GR-SP-DLL 1560-400 mKB
3 GR Cal FDC-CNL 1560-400 mKB
4 GR Micro Lateral Log 1560-1250 mKB

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY ... AND HOURS
SHORT ☐ " " " "

DRILLER

EVENING TOUR

OPERATING DATA: SIZE D.C. 228 | PUMP SPM 160 | NO. D.C. 32 17 | PUMP PRESS 2500 | PUMP STROKE 216 | ROTARY RPM | LINER SIZE 397 | WT. ON BIT

BIT DATA: NO. 4RR | SIZE 311 | TYPE S-33 | METRES | HRS RUN | TIME

MUD TEST DATA: WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL DARIC | UNITS/KG 1906.8

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
1533					

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
2030	2330	Circulate wash pipe	3	30
2330	2400	Load Bit #2 RR		30

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Des of 1125 of 1180

Cent of 1035

EACH RAN 8 HRS

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dan Lukpuk

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED D. Wade CO. REP.

TEXACO CANADA INC.

TEC 212 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 19
ROTARY ☑ FIELD Bonnie Lake
SERVICE ☐ LEASE Jarvis Mobil
WELL NO. 11-18
PROVINCE N.W.T.

CONTRACTOR Keating Drilling RIG NO 22E DATE 80/3/17

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C. 6-7/8	PUMP SPM 160	5	311	OSC5			02:00	1135	52		10.5			CAUSTIC 45.4 kg
NO. D.C. 22-171	PUMP PRESS 3400						04:00	1135	52		10.5			GEL 317.8 kg
PUMP STROKE 216	ROTARY RPM						06:00	1135	51	60	10.0			
LINER SIZE 139.7	WT. ON BIT													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANG
	1335				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000		Circulate Drilling Mud work		
0800		pipe went on loggs	8	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Held SAP talk with crew

Dep of 1130 of 1185

cent of 1045

EACH RAN 8 HRS

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapchuk

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE 22-171	PUMP SPM 160	4	311	OSC3J	111	23½								
NO. D.C. 228	PUMP PRESS 3400													
PUMP STROKE 215.9	ROTARY RPM —													
LINER SIZE 139.7	WT. ON BIT —													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
	1555				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0800	1130	CIRC Mud work pipe		
1130	1145	PUMP DOWN PILL		
1145	1215	BLOW KELLY DROP SURVEY		
1215	1600	HOIST BIT #5 tal LOG		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wesson

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE 22-171	PUMP SPM —													
NO. D.C. 228	PUMP PRESS —													
PUMP STROKE 215.9	ROTARY RPM —													
LINER SIZE 139.7	WT. ON BIT —													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
1555					

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	1700	HOIST 9" COLLARS BREAK BIT.	1	
1700	2400	RIG UP LOGGERS & LOG.	7	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Dep of 1135 of 1180

cent of 1035

EACH RAN 8 HRS.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapchuk

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ? SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TECTIC A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 28
ROTARY ✓ FIELD Bonnie Lake
SERVICE ☐ LEASE Texaco Mobil
WELL NO. HZ-28
PROVINCE NWT

CONTRACTOR Keating Drilling RIG NO. 226 DATE 80/7/16

MORNING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNITS/KG
SIZE D.C. 6-228	PUMP SPM 120	5	311	OSJ	111	22¾	07:00	1.50	52		10.5			KCL	1100 kg
NO. D.C. 22-171	PUMP PRESS 5500						04:00	1150	53	60	10.5			Mixygen	50 kg
PUMP STROKE 216	ROTARY RPM						06:00	1150	53		10.5			SCA 42 ban	8 L
LINER SIZE 139.7	WT. ON BIT													M.I. Lcymer 303	23.7
DRILLED FROM 1555 TO	REAMED FROM TO	SURVEYS DEPTH	ANGLE												DAYWORK HRS. 40 ½

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
	2000	Circulate condition mud, work DP, pipe, wait on logs	8	

Des of 1145 of 1190
cent of 1045
8 hrs each.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Pohjola

DAYLIGHT TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNITS/KG
SIZE D.C. 6-228	PUMP SPM 120	5	311	OSJ	111	23½									
NO. D.C. 22-171	PUMP PRESS 5500														
PUMP STROKE 216	ROTARY RPM														
LINER SIZE 139.7	WT. ON BIT														
DRILLED FROM 1555 TO 1555	REAMED FROM TO	SURVEYS DEPTH	ANGLE												DAYWORK HRS.

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0000	0745	Circ. & condition		45
0745	1000	Dummy Trip 20 stds	1	15
1000	1600	Circ & cond mud wait on logs DJH	6	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER

EVENING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNITS/KG
SIZE D.C. 6-228	PUMP SPM 120	5	311	OSJ	111	23½	22:00	1145	56	60	10.5			BARITE	1362 kg
NO. D.C. 22-171	PUMP PRESS 5500														
PUMP STROKE 216	ROTARY RPM														
LINER SIZE 139.7	WT. ON BIT														
DRILLED FROM 1555 TO	REAMED FROM TO	SURVEYS DEPTH	ANGLE												DAYWORK HRS.

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	2400	Circulate wait on logs	8	

Des of 1135 of 1190
cent of 1030
8 HRS EACH
Have both pumps

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED TOOLPUSH

SIGNED CO. REP.

TEXACO CANADA INC.

TEC 117 A (6-81)

DAILY DRILLING WELL REPORT

REPORT NUMBER 27
FIELD Boyce Lake
LEASE Texaco Mobil
WELL NO. 11-28
PROVINCE NWT

ROTARY ✓
SERVICE

CONTRACTOR Keating Drilling RIG NO. 22E DATE 86/2/15

MORNING TOUR

OPERATING DATA			BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 6-228	PUMP SPM 180		5	311	HW	~~1225~~ 15		02:00	1155	55		10.0			KCL	975kg
NO. D.C. 22-171	PUMP PRESS 10560					81		04:00	1155	57	8.0	10.0			Oxygen	100kg
PUMP STROKE 216	ROTARY RPM 110							06:00	1150	60		9.5			Scavenger	16L
LINER SIZE 134.7	WT. ON BIT 18														SOS	40L
DRILLED FROM 1470	TO 1525	REAMED FROM	TO	SURVEYS DEPTH	ANGLE										Caustic	50kg

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0000	0600	Drill	6	

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Dev of 1145 at 1225
cent of 1060
Bad Run & Ins
Reduced pump Liner
#140 Liner 60 Stroke apart
2000 KPA

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lockpuck

DAYLIGHT TOUR

OPERATING DATA			BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 6-228	PUMP SPM 180		5	311	OSC5	109	22¾	1000	1145	63	7.0	10.0				
NO. D.C. 22-171	PUMP PRESS 10560							1300	1140	60	7.0	10.0				
PUMP STROKE 216	ROTARY RPM 110							1500	1145	55		10.0				
LINER SIZE 134.7	WT. ON BIT 18															
DRILLED FROM 1525	TO 1553	REAMED FROM	TO	SURVEYS DEPTH	ANGLE											

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0600	0645	Drill		45
0645	0700	Rig Service		15
0700	1400	Drill	7	

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Check all with pipe rams → OK.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER E. Kotchea

EVENING TOUR

OPERATING DATA			BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 6-228	PUMP SPM 180		5	311	OSC5	111	23½	22:00	1140	52		10.0			GEL	1370kg
NO. D.C. 22-171	PUMP PRESS 10600							24:00	1150	55		10.0				
PUMP STROKE 216	ROTARY RPM 110															
LINER SIZE 134.7	WT. ON BIT 18															
DRILLED FROM 1553	TO 1535	REAMED FROM	TO	SURVEYS DEPTH	ANGLE											

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	1645	Drill		45
1645	1830	Circ to condition hole	1	45
1830	2030	Dynamag Trip 15 stands & Monitor Hole 2		
2030	2400	Circulate work pipe every 30 on bypass Condition Mud		

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lockpuck

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE?

SIGNED _____ TOOLPUSH

SIGNED D. Nuce CO. REP.

TEXACO CANADA INC.

TEC 317 A (6-78)

DAILY DRILLING WELL REPORT

ROTARY ☑ SERVICE ☐

REPORT NUMBER 26
FIELD Bovic Lake
LEASE Texaco Mobil
WELL NO. M 7E
PROVINCE N.W.T.

CONTRACTOR Kenting Drilling RIG NO 224 DATE 89/02/14

MORNING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C. 6 5/8	PUMP SPM 180	NO.	SIZE	TYPE	METRES	HRS	RUN	TIME	WT.	VIS.	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS
NO. D.C. 22-171	PUMP PRESS 10000	4	311	S-33	303	5	1/4	02:00	1140	51		10.5			SOS 40L
PUMP STROKE 216	ROTARY RPM 110							04:00	1145	54		10.0			Nonyon 50kg
LINER SIZE 139.7	WT. ON BIT 16							06:00	1150	56	8.0	10.0			SCRUBBAN 8L
															CAUSTIC 50kg

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
1417	1444			1444	1 1/2

RIG TIME DATA THIS TOUR Baa Te 13 HRS

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1200	0445	Drill		45
0445	0500	Rig Repair		15
2200	0115	Drill	4	15
0115	0200	Drill Survey		45
		Circ Gel Pill Short Trip		
0500		Work Tight Hole to 1400 -		
1420				

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.

Kelly Hose Pump Line #1 & Pump 1430
30 Stroke Leak 8600 KPA

Des of 1145 of 1230
cent of 1100
Each Man 8 HRS

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapointe

DAYLIGHT TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C. 6 5/8	PUMP SPM 180	NO.	SIZE	TYPE	METRES	HRS	RUN	TIME	WT.	VIS.	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS
NO. D.C. 22-171	PUMP PRESS 1100	4	311	S33	303	5	1/4								
PUMP STROKE 216	ROTARY RPM —	5	311	OSC35											
LINER SIZE 139.7	WT. ON BIT —														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
1444					

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0500	0545	Circ & work tite hole		45
0545	0900	Pump out 2 singles		15
1100	1130	Pump pill & blow Kelly		30
0830	1230	Trip bit #4	3	
1230	1330	Change bits Recover survey bbl	1	
1330	1600	Run in bit #5	2	30

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.

Actuated Blind Rams

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER B. Palmer

EVENING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
SIZE D.C. 6 5/8	PUMP SPM 180	NO.	SIZE	TYPE	METRES	HRS	RUN	TIME	WT.	VIS.	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS
NO. D.C. 22-171	PUMP PRESS 10500	5	311	OSC35	36	7		22:00	1150	50		10.0			
PUMP STROKE 216	ROTARY RPM 110							24:00	1162	54		10.0			
LINER SIZE 139.7	WT. ON BIT 16														

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
1444	1470				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1630	Run in		30
1630	1645	Clean to Btm.		15
1645	2100	Drill	5	15
2100	2115	Rig Repair		15
2115	2400	Drill	1	45

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.

Actuated Lydril

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapointe

CAMP ☑ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ☐

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TEC 717 A (6-68)

DAILY DRILLING WELL REPORT

REPORT NUMBER 25
ROTARY ☐ FIELD Boyer Lake
SERVICE ☐ LEASE TEXACO Mobil
WELL NO. Mobil #78
CONTRACTOR Keating Drlg Ltd RIG NO. 22E DATE 80/5/13 PROVINCE N.W.T.

MORNING TOUR

OPERATING DATA: SIZE D.C. 6 3/8 | PUMP SPM 190 | NO. D.C. 22-171 | PUMP PRESS 10500 | PUMP STROKE 216 | ROTARY RPM 110 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 4 | SIZE 311 | TYPE S-33J | NOZZLES 3-20 | HRS RUN 30 1/4

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
02[29]	1120	47		10.0		
04[29]	1125	49		10.0		
06[00]	1125	49		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
Soda Ash 45.4 KCL	975
Gel 2179 SOS	20
Scale Ban	4.54
Caustic 45# Oxygen	25

DRILLED: FROM 1294 TO 1341

REAMED: FROM TO

SURVEYS: DEPTH ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	1245	Drill		
1215	1230	Rig Service		15
1230	2400	Drill	5	30

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Des of ~~test~~ wf 1250
Cent of 1050

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER B. Johnson

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 6 3/8 | PUMP SPM 160 | NO. D.C. 22-171 | PUMP PRESS 10000 | PUMP STROKE 216 | ROTARY RPM 110 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 4 | SIZE 311 | TYPE S-33J

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
10[00]	1130	53	6.0	10.0		
13[00]	1130	55		9.5		
16[00]	1135	55	6.0	10.0		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
KCL	1035
Scale ban	9L
Oxygen	50kg
SOS	40L
Caustic 50kg	

DRILLED: FROM 1311 TO 1377

REAMED: FROM TO

SURVEYS: DEPTH ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	0815	Drill	1	15
0815	0930	Rig Service		15
0930	1600	Drill	6	30

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Retrieved Top Sub Assm
Des of 1100 wf 1205
Cent of 1060

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Hayduk

EVENING TOUR

OPERATING DATA: SIZE D.C. 6 3/8 | PUMP SPM 180 | NO. D.C. 22 7/7 | PUMP PRESS 15000 | PUMP STROKE 216 | ROTARY RPM 110 | LINER SIZE 139.7 | WT. ON BIT 18

BIT DATA: NO. 4 | SIZE 311 | TYPE S-33J | NOZZLES 3-20 | HRS RUN 45 3/4

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG

DRILLED: FROM 1377 TO 1417

REAMED: FROM TO

SURVEYS: DEPTH ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1945	Drill	3	45
1945	2000	Rig Service		15
2000	2400	Drill	4	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER B. Johnson

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED R. Kuttner TOOLPUSH
SIGNED CO. REP.

TEXACO CANADA INC.

TEC 212 - A (6/78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 24
ROTARY ☑ SERVICE ☐
FIELD Bouse Lake
LEASE Texaco Hz. 1
WELL NO. 133-7A
PROVINCE N.W.T

CONTRACTOR Kenting Drlg. Ltd RIG NO. 22E DATE 80/2/12

MORNING TOUR

OPERATING DATA: SIZE D.C. 6 3/4 | PUMP SPM 180 | NO. D.C. 22-171 | PUMP PRESS 2500 | PUMP STROKE 216 | ROTARY RPM 110 | LINER SIZE 140 | WT. ON BIT 16

BIT DATA: NO. 4 | SIZE 311 | TYPE 533 | METRES 77.1 | HRS RUN 14

DRILLED 47 (FROM 1141 TO 1188) REAMED (FROM TO)

SURVEYS: DEPTH 1185 | ANGLE 2 1/4

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.):

Des of 1075 uf 1210
Cent of 1060
Each Ran 5 HRS

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0200	1090	37		10.0		
0400	1085	37		10.0		
0600	1085	42		10.0		

MUD ADDED THIS TOUR

MATERIAL		UNIT/KG
KCL	750	
SOS	20	
KELZAN		22.7
MIL POL		22.7
NOXYGEN		25
SCALEBAN		4.54

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0030	Drill		30
0030	0045	Rig Service		15
0045	0645	Drill	6	
0645	0715	Survey @ 1153		30
0715	0800	Drill		45

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER B. Kehler

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 6 3/4 | PUMP SPM 180 | NO. D.C. 22-171 | PUMP PRESS 2500 | PUMP STROKE 216 | ROTARY RPM 110 | LINER SIZE 139.7 | WT. ON BIT 16

BIT DATA: NO. 4 | SIZE 311 | TYPE 533 | METRES 107 | HRS RUN 15

DRILLED (FROM 1188 TO 1248) REAMED (FROM TO)

SURVEYS: DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.):

Actuated Lydril
Des of 1105 uf 1210
cent of 1060
Each Ran 8 HRS

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1000	1090	43	30	9.5		
1300	1100	41		10.0		
1600	1115	43	50	10.0		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
KCL	835 KG
Noxygen	50 KG
SCALEBAN	8 L
SOS	20 L
CAUSTIC	50 KG

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	0815	Lydril		15
0815	0830	Rig Service		15
0830	1630	Drill	7	30

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER Dean Polspak

EVENING TOUR

OPERATING DATA: SIZE D.C. 6 3/4 | PUMP SPM 180 | NO. D.C. 22-171 | PUMP PRESS 2500 | PUMP STROKE 216 | ROTARY RPM 110 | LINER SIZE 139.7 | WT. ON BIT 16

BIT DATA: NO. 4 | SIZE 311 | TYPE 533 | METRES 153 | HRS RUN 22 1/2

DRILLED (FROM 1248 TO 1424) REAMED (FROM TO)

SURVEYS: DEPTH 1378 | ANGLE 1 3/4

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.):

Des of 1110 uf 1260
Cent of 1060

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1800	1120	43		10.0		
2000	1120	43		10.0		
2200	1120	47		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
CAUSTIC	45.4
NOXYGEN	25
SCALEBAN	4.54
SOS	20 L

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1630	2100	Drill		5
2100	2130	Survey @ 1379 m		30
2130	0400	Drill	2	30

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER K. Kehler

CAMP ☐ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED R. Gauthier TOOLPUSH
SIGNED A.C. Horner CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 23
ROTARY ☑ FIELD Bocie Lake
SERVICE ☐ LEASE Texaco Mckay
WELL NO. 11-25
PROVINCE N.W.T.

CONTRACTOR Kenting Drlg Ltd RIG NO. 2-E DATE 80/2/11

MORNING TOUR

OPERATING DATA: SIZE D.C. 6-2 1/2 | PUMP SPM 120 | NO. D.C. 22-7 | PUMP PRESS 1000 | PUMP STROKE 216 | ROTARY RPM 65 | LINER SIZE 7 1/2 | WT. ON BIT 20

BIT DATA: NO. 2 | SIZE 3 11 | TYPE FH2 | METRES 324.7 | HRS RUN 17 1/4

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
02:00	1085	35		10.0		
04:00	1085	37		10.0		
06:00	1085	40		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
CAUSTIC	22.7
NORYGEN	25
SAUBAN	H.54
SOS	20 L

DRILLED 33 | REAMED | SURVEYS DEPTH ANGLE

FROM	TO
1078	1111

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
		CORE HOLE DRILL	4	15
		RIG SERVICE		15
		CORE HOLE DRILL	2	30

DAY WORK

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Des of 1075 to 1320
Cent of 1050

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER B. Kelsey

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 6 1/2 | PUMP SPM 120 | NO. D.C. 22-7 1/2 | PUMP PRESS 10000 | PUMP STROKE 216 | ROTARY RPM 70 | LINER SIZE 7 1/2 | WT. ON BIT 18

BIT DATA: NO. 3 | SIZE 3 11 | TYPE FH2 | METRES 353 | HRS RUN 79 1/2

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
10:00	1085	40		10.0		
13:00	1085	39		9.5		
16:00	1085	38		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
KCL	750 KG
Norygen	50 L
Schleban	8 L
SOS	10 L

DRILLED | REAMED | SURVEYS DEPTH ANGLE

FROM	TO
1111	1135

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
08:30	08:30	Drill	1	30
08:30	09:45	Rig Service		15
09:45	11:00	Drill	1	15

DAY WORK

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Des of 1075 to 1160
Cent of 1055
Each Bag 8 HRS

Depth

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER Frank Fort

EVENING TOUR

OPERATING DATA: SIZE D.C. 6 1/2 | PUMP SPM 120 | NO. D.C. 22-7 1/2 | PUMP PRESS 10000 | PUMP STROKE 216 | ROTARY RPM 70 | LINER SIZE 7 1/2 | WT. ON BIT 20

BIT DATA: NO. 3 | SIZE 3 11 | TYPE FH2 | METRES 357 | HRS RUN 83 1/4

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
18:00	TRIP					
20:00						

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
Kelzan XC	22.7 KG
Milpolymer 303	22.7 KG
GEL	2 1/2 SX
CAUSTIC	50 KG

DRILLED | REAMED | SURVEYS DEPTH ANGLE

FROM	TO	DEPTH	ANGLE
1135	1141	1135	2°

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
18:00	18:30	Log to 1135		30
18:30	19:45	Drill		
19:45	20:30	Short Trip #5		
20:30	23:45	Drill to 1141		
23:45	24:00	Break Circ. etc.		

DAY WORK

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Activate Blind Rams.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER B. Kelsey

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED R. Trettner TOOLPUSH
SIGNED Rod Horner CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 22
FIELD Bovie Lake
LEASE Texaco McB.
WELL NO. 101-32
PROVINCE N.W.T.

ROTARY ☐
SERVICE ☐

CONTRACTOR Keating Drlg Ltd RIG NO. 225 DATE 82/2/10

MORNING TOUR

OPERATING DATA: SIZE D.C. 6 3/8 | PUMP SPM 200 | NO. D.C. 22-171 | PUMP PRESS 900 | PUMP STROKE 16 | ROTARY RPM 70 | LINER SIZE 170 | WT. ON BIT 20

BIT DATA: NO. 2 | SIZE 2.1 | TYPE FP32 | METERS 847 | HRS 22 | RPM | TIME 02:00 1050 / 04:00 1045 / 06:00 1050

MUD TEST DATA: WT. | VIS | W.L. | P.M. 10.5 / 10.5 / 10.5 | P.V. | Y.P.

MUD ADDED THIS TOUR:

MATERIAL	UNITS/KG
SOS	20
KCL	750
Nonygen	35
SCALEBAN	1.5#

DRILLED: FROM 973 TO 1010
REAMED: FROM TO
SURVEYS: DEPTH 972 ANGLE 1/4

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
06:00	06:15	Rig Service		15
06:15	08:30	Drill	2	15
08:30	08:45	Rig Service - Hydril		15
08:45	09:00	Drill	5	15

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Des of 1050 uf 1370
Cent of 1040.

Each Ran 8 1/2 Hrs

Actuate Hydril

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " "

DRILLER B. Fortin

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 6 3/8 | PUMP SPM 200 | NO. D.C. 22-171 | PUMP PRESS 900 | PUMP STROKE 16 | ROTARY RPM 70 | LINER SIZE 139.7 | WT. ON BIT 20

BIT DATA: NO. 3 | SIZE 311 | TYPE FP32 | METERS 313 | HRS 8 1/2 | RPM | TIME 09:00 1065 / 13:00 1070 / 16:00 1080

MUD TEST DATA: WT. | VIS | W.L. | P.M. 10.0 / 9.5 / 10.0 | P.V. | Y.P.

MUD ADDED THIS TOUR:

MATERIAL	UNITS/KG
KCL	1950 KG
Nonygen	50 KG
Scalebann	8 #
SOS	20 L
CAUSTIC	5 PK

DRILLED: FROM 1010 TO 1045
REAMED: FROM TO
SURVEYS: DEPTH 1038 ANGLE 3/4

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
06:00	06:15	Rig Service		15
06:15	07:30	Drill	1	15
07:30	13:00	Surveys 2 1/2		30
13:00	16:00	Drill	3	

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Actuated top pipe rams.

Des of 1075 uf 1325
Cent of 1045
Both Ran 8 HRS

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " "

DRILLER Dean Lockyer

EVENING TOUR

OPERATING DATA: SIZE D.C. 6 3/8 | PUMP SPM 200 | NO. D.C. 22-171 | PUMP PRESS 1000 | PUMP STROKE 16 | ROTARY RPM 65 | LINER SIZE 139.7 | WT. ON BIT 20

BIT DATA: NO. 3 | SIZE 311 | TYPE FP32 | METERS 376 | HRS 6-1 | RPM | TIME 18:00 1080 / 20:00 1080 / 22:00 1050

MUD TEST DATA: WT. | VIS 35 | W.L. | P.M. 10.5 / 10.0 / 10.5 | P.V. | Y.P.

MUD ADDED THIS TOUR:

MATERIAL	UNITS/KG
GEL	2724
Nonygen	25
SCALEBAN	1.5#
CAUSTIC	45#

DRILLED: FROM 1045 TO 1078
REAMED: FROM TO
SURVEYS: DEPTH 1078 ANGLE 1/4

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
06:00	13:30	Drill	7	30
13:30	14:00	Surveys		30

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Desilter of 1075 uf 1310
Centrifuge of 1045

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " "

DRILLER B. Fortin

CAMP ☑ YES ☐ NO
BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED
SIGNED D.C. Hunter TOOLPUSH
CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 21
ROTARY ☐ FIELD Bovie Lake
SERVICE ☐ LEASE Texaco
WELL NO. D1-78
PROVINCE N.W.T.

CONTRACTOR Keating Drlg Ltd RIG NO. 22E DATE 80/2/9

MORNING TOUR

OPERATING DATA: SIZE D.C. 6-228 | NO. D.C. 12-171 | PUMP STROKE 16 | LINER SIZE 140 | PUMP SPM 200 | PUMP PRESS 9000 | ROTARY RPM 70 | WT. ON BIT 20

BIT DATA: NO. 3 | SIZE 311 | TYPE FDS | METRES 1062½ | HRS. RUN 52

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0500	1045			10.5		
0400	1045			10.0		
0600	1040			10.0		

MUD ADDED THIS TOUR:

MATERIAL	UNITS/KG
Oxygen	25
Scalebar	4.54
KCL	450
Caustic	45.5

DRILLED: FROM 879 TO 885

REAMED: FROM TO

SURVEYS: DEPTH 818 ANGLE 2°

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0015	Rig Service & 100' wiper run		15
0015	0545	Drill 311 in HOLE	5	30
0545	0615	Survey @ 879		30
0615	0800	Circ.	1	45

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Des of 1035 uf 1190
Cent of 1025
Each ran 8 hrs
Actuate blow
pipe rams.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER B. Johnson

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 6-228 | NO. D.C. 12-171 | PUMP STROKE 16 | LINER SIZE 139.7 | PUMP SPM 200 | PUMP PRESS 9000 | ROTARY RPM 70 | WT. ON BIT 18

BIT DATA: NO. 3 | SIZE 311 | TYPE FDS | METRES 143 | HRS. RUN 33¾

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1300	1055			10.5		
1600	1065			10.0		

MUD ADDED THIS TOUR:

MATERIAL	UNITS/KG
KCL	750kg
Oxygen	50kg
Scale ban	8 L
SOS	30 L

DRILLED: FROM 888 TO 925

REAMED: FROM TO

SURVEYS: DEPTH 923 ANGLE 2¼°

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0800	0815	Rig service		15
0815	2330	Drill	7	15
2330	0000	Survey 923 2¼°		30

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Des of 1065 uf 1165
cent of 1055
both ran 8 HRS
Actuated blow pipe rams

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER Dan Lafleur

EVENING TOUR

OPERATING DATA: SIZE D.C. 6-228 | NO. D.C. 12-171 | PUMP STROKE 16 | LINER SIZE 139.7 | PUMP SPM 200 | PUMP PRESS 9000 | ROTARY RPM 10 | WT. ON BIT 5K

BIT DATA: NO. 3 | SIZE 311 | TYPE FDS | METRES 171 | HRS. RUN 41¾

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1500	1055			9.5		
2000	1055			9.5		

MUD ADDED THIS TOUR:

MATERIAL	UNITS/KG
CAUSTIC	50kg
OXYGEN	25

DRILLED 4 TO: FROM 925 TO 175

REAMED: FROM TO

SURVEYS: DEPTH ANGLE

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	2400	Drill		

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER B. Johnson

CAMP ☒ YES ☐ NO BOILER ☒ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [illegible] TOOLPUSH

SIGNED [illegible] CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 20
ROTARY ☐ FIELD Bovie Lake
SERVICE ☐ LEASE M-78
WELL NO. Texaco
PROVINCE N.W.T

CONTRACTOR Keating Drlg Ltd RIG NO. 22E DATE 80/12/8

MORNING TOUR

OPERATING DATA: SIZE D.C. 6-7¾ | NO. D.C. 22-171 | PUMP STROKE 216 | LINER SIZE 140 | PUMP SPM 200 | PUMP PRESS 7000 | ROTARY RPM 70 | WT. ON BIT 16

BIT DATA: NO. 2 | SIZE 311 | TYPE FP52 | METRES 7 | HRS. RUN 4

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0520	1035			10.5		
0720	1040			10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNIT KG
KCL	750

DRILLED 9 FROM 782 TO 791

REAMED FROM TO

SURVEYS DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Des of 1030 UF 1360
CENT 1015

EACH RAN 8 HRS

closed blind rams when out of hole.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0100	Take up bit & lay down Shock Sub	1	
0100	0200	Run in collars	1	
0200	0245	slip cut line		45
0245	0315	Finish in Hole	1	
0315	0400	Break Circ & clean Jnto btm		15
0400	0800	Drill 31 Jn Hole	4	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " "

DRILLER B. Kehler

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 6-7¾ | NO. D.C. 22-171 | PUMP STROKE 216 | LINER SIZE 139.7 | PUMP SPM 200 | PUMP PRESS 9000 | ROTARY RPM 70 | WT. ON BIT 18

BIT DATA: NO. 3 | SIZE 311 | TYPE FP2337 | METRES 11 | HRS. RUN 11¾

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1000	1035			10.5		
1320	1045			10.5		
1760	1050			10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNIT KG
KCL	750 KG
Nonyon	50 KG
scale ban	8 L
CAUSTIC	50 KG

DRILLED FROM 791 TO 819

REAMED FROM TO

SURVEYS DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Des of 1045 of 1155
cent of 1045

EACH RAN 8 HRS

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	0815	Rig service & top pipe ram		15
0815	1600	Drill	7	45

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER Dean Lysyk

EVENING TOUR

OPERATING DATA: SIZE D.C. 6-7¾ | NO. D.C. 22-171 | PUMP STROKE 216 | LINER SIZE 139.7 | PUMP SPM 200 | PUMP PRESS 9000 | ROTARY RPM 70 | WT. ON BIT 18

BIT DATA: NO. 3 | SIZE 311 | TYPE FP2367 | METRES 19 | HRS. RUN 19¼

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1800	1045			10.5		
2000	1040			10.5		
2200	1040			10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNIT KG
CAUSTIC	4.5
NONYGEN	25
SOS	20

DRILLED 32 FROM 819 TO 849

REAMED FROM TO

SURVEYS DEPTH 831 ANGLE 2½

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1930	Drill	3	30
1930	2000	Survey @ 831m		30
2000	2400	Drill	2	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER R. Kehler

CAMP ☐ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ? YES

SIGNED R. Lattimer TOOLPUSH

SIGNED C.C. Hormir CO. REP.

TEXACO CANADA INC.

TEC 717 - A (6-73)

DAILY DRILLING WELL REPORT

REPORT NUMBER 19
ROTARY ☐ FIELD Dome Beaverhill Lake
SERVICE ☐ LEASE Texaco Mobil
WELL NO. Mitsue 13-25
PROVINCE N.W.T.

CONTRACTOR Kenting Drlg Ltd RIG NO. 225 DATE 80/2/7

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	MFR/SER	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C. 6-228	PUMP SPM 200						0200	1035			11.0			Gel Chem 40
NO. D.C. 22-171	PUMP PRESS 1000						0800	1040			11.0			KCL 515
PUMP STROKE 216	ROTARY RPM 80						Bit	1035			11.0			Scleran 11.09
LINER SIZE 140	WT. ON BIT 15													Oxygen 50

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
717	749				

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
		Circ & Cond. Drill		45
		Rig Service		15
		Pick up Drill		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Trip out of hole with 1020
Change out 1020
Test BOP & Hours

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER B. Kehn

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	MFR/SER	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C. 6-228	PUMP SPM 200	2	311	FBJ	305	107½	1040	1040			11.0			KCL 750kg
NO. D.C. 22-171	PUMP PRESS 1000						1300	1045			10.5			SOS 20 L
PUMP STROKE 216	ROTARY RPM ~~80~~ 70						1600	1050			10.5			Oxygen 50kg
LINER SIZE 139.7	WT. ON BIT 18													Scleran 8 L

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
743	764			746	2°

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	1015	Drill	2	15
1015	1030	Rig service & Lubril		45
1030	1100	Survey 746m		30
1100	1600	Drill	5	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Des of 1050 & 1265
Cent of 1040
Both Ran 8 HRS

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lybyak

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	MFR/SER	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C. 6-228	PUMP SPM 200	2	311	FBJ		15¾	1040	1040			10.5			
NO. D.C. 7-171	PUMP PRESS 1000						1045	1045			10.5			
PUMP STROKE 216	ROTARY RPM 70						1050	1050			10.5			
LINER SIZE 139.7	WT. ON BIT 8													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
764	802			802	2½

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
		Drill	5	45
		Rig Service		15
		Drill		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED TOOLPUSH
SIGNED CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER #18
FIELD TEXACO FT. NELSON
LEASE M-75
WELL NO. BOVIE LAKE
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR RENTING DRLG. RIG NO. 22E DATE 80/2/6

MORNING TOUR

OPERATING DATA: SIZE 6 1/4 PUMP SPM 220 = 2.31 | NO. 22-171 PUMP PRESS 10000 | PUMP STROKE 215.9 ROTARY RPM 60/90 | LINER SIZE 139.7 WT. ON BIT 18

BIT DATA: NO. 2 SIZE 6 1/4 TYPE FP5121 WITHDRAWN HRS RUN 77 1/4 | SER. # 379791 | JETS 12-12-11-11

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0400	1035			10.5		
0400	1035			10.5		
0600	1030			10.5		

MUD ADDED THIS TOUR

MATERIAL	UNITS
KCL 1600 SOS 80L	
NOXEGEN 100 KG	
SCALEBAN 19 L	

DRILLED 31 | REAMED | SURVEYS DEPTH ANGLE

FROM 647 TO 678

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0200	DRILL AHEAD.		
0200	0300	RIG SERVICE		
0300	0800	DRILL		

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

DES. OF. 1070 OF. 1030
CEN. OF. 1005
20TH RUN 8 hrs.

8 hrs

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

DAYLIGHT TOUR

OPERATING DATA: SIZE DIC 6 1/4 PUMP SPM 220 | NO. 22-171 PUMP PRESS 1,000 | PUMP STROKE 216 ROTARY RPM 65 | LINER SIZE 5 1/2 WT. ON BIT 20

BIT DATA: NO. 2 SIZE 6 1/4 TYPE FP5 | WITHDRAWN 338 HRS RUN 13 1/4

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
600	1045			10.5		
2100	1050			11.0		
2400	1040			10.5		

MUD ADDED THIS TOUR

MATERIAL	UNITS
KCL	750
SOS	20L
NOXYGEN	25
SCALEBAN	4L

DRILLED 21 | REAMED | SURVEYS DEPTH 690 ANGLE 1 1/2

FROM 678 TO 699

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0030	Drill		30
0030	0045	Rig Service		15
0045	0130	Trip	5	15
0130	0245	Survey @ 690		15
0245	0600	Drill		

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER B. Fortune

EVENING TOUR

OPERATING DATA: SIZE DIC 6 1/4 PUMP SPM 200 | NO. 22-171 PUMP PRESS 9000 | PUMP STROKE 216 ROTARY RPM 50 | LINER SIZE 139.7 WT. ON BIT 18

BIT DATA: NO. 2 SIZE 6 1/4 TYPE FP5121 WITHDRAWN 336 HRS RUN 336

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1800	1045			10.5		
2100	1050			11.0		
2400	1040			10.5		

MUD ADDED THIS TOUR

MATERIAL	UNITS
KCL	750
SOS	20L
NOXYGEN	25
SCALEBAN	4L

DRILLED | REAMED | SURVEYS DEPTH ANGLE

FROM 699 TO 717

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	1715	Drill	1	15
1715	1730	Rig Service		15
1730	2400	Drill	6	30

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.:

Des of 1190 of 1040
Cent of 1020
31 L.P.M.

Both Ran 8 HRS

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Gerhardt

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature] TOOLPUSH

SIGNED [signature] CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

#17

REPORT NUMBER
FIELD TEXACO - BILE
LEASE M-79
WELL NO. BOUVIE M-79
PROVINCE N.W.T.

ROTARY ✓
SERVICE

CONTRACTOR KENTILE DRLG. RIG NO. 22E DATE 80/2/5

MORNING TOUR

OPERATING DATA: SIZE D.C. 6 2/8 | NO. D.C. 22 171 | PUMP STROKE 215.9 | LINER SIZE 139.7 | PUMP SPM 220 | PUMP PRESS 9500 | ROTARY RPM 65 | WT. ON BIT 12/14

BIT DATA: NO. 2 | SIZE 311 | TYPE FP51 | SERIAL NO. 899791 | JETS 12.7-12.7-11.1

MUD TEST DATA: TIME 24 hrs | WT. 10.5 | VIS 50 | W.L. | P.V. | Y.P.

MUD ADDED THIS TOUR

MATERIAL	UNITS
CAUSTIC	45.36
OXYGEN	100 KGS
KCL	1750
SCALEBAN	1 BL

DRILLED 21 | REAMED | SURVEY DEPTH 594 ANGLE 1¼°

RIG TIME DATA THIS TOUR 5 DAY WORK 5 HRS 40 MIN

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
581	602			
0000	0230	DRILL AHEAD		
0230	0300	CIRC & SURVEY		
0300	0500	DRILL AHEAD		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES. OF. 1050 OF. 1020
CEN OF. 1000
BOTH RUN 8 HRS.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 6 2/8 | NO. D.C. 22 171 | PUMP STROKE 215.9 | LINER SIZE 139.7 | PUMP SPM 110 | PUMP PRESS 1000 | ROTARY RPM 65 | WT. ON BIT 15

BIT DATA: NO. 2 | SIZE 311 | TYPE FP51 | SERIAL NO. VC7.62

MUD TEST DATA: TIME 24 hrs | WT. 10.5 | VIS 50 | W.L. | P.V. | Y.P.

MUD ADDED THIS TOUR

MATERIAL	UNITS
OXYGEN	4 BK
SCALEBAN	1 BLOCK
CAUS	7.5

DRILLED 26 | REAMED | SURVEY DEPTH 613 ANGLE 1°

RIG TIME DATA THIS TOUR DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
602	628			
0000	0345	DRILL		45
0345	0400	[illegible]		15
0400	1100	DRILL		
1100	1130	SURVEY @ 1130		30
1130	1600	DRILL		+ 30

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

CENT @ 1010
DES @ 1025 OF 1005
CASING 8 HRS

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER [illegible]

EVENING TOUR

OPERATING DATA: SIZE D.C. 6 2/8 | NO. D.C. 22 171 | PUMP STROKE 215.9 | LINER SIZE 139.7 | PUMP SPM 220 | PUMP PRESS 10000 | ROTARY RPM 65 | WT. ON BIT 15/20

BIT DATA: NO. 2 | SIZE 311 | TYPE FP51 | SERIAL NO. 18669½

MUD TEST DATA: TIME 24 hrs | WT. 10.5 | VIS 50 | W.L. | P.V. | Y.P.

MUD ADDED THIS TOUR

MATERIAL	UNITS

DRILLED 19 | REAMED | SURVEY DEPTH | ANGLE

RIG TIME DATA THIS TOUR DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
628	647			
1600	2130	DRILL		
2130	2200	SURVEY		
2200	2400	DRILL		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES. OF. 1200 OF. 1020
CEN OF. 1020
BOTH RUN 8 hrs.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE?

SIGNED _____ TOOLPUSH

SIGNED D. Nicol CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 16
ROTARY ✓ FIELD TEXACO MOBILE
SERVICE ☐ LEASE A-73 BOVIE
CONTRACTOR KENTING DRLG RIG NO. 22E WELL NO. N.W.T.
DATE 80/7/4 PROVINCE M.78

MORNING TOUR

OPERATING DATA: SIZE 6 7/8 | PUMP SPM 220 | NO. 22171 | PUMP PRESS 1000 | PUMP STROKE 215-9 | ROTARY RPM 100 | LINER SIZE 139.7 | WT. ON BIT 12/13

BIT DATA: NO. 2 | SIZE 311 | TYPE FP51 | METRES 75 | HRS RUN 32 | TIME 03[00] | WT. 1025 | JETS 12.7-12.7-11.1 SER# 849791

MUD TEST DATA: 06[00] 1030 | W.L. | P.H. 10.0 | P.V. 10.0 | Y.P.

MUD ADDED THIS TOUR: MATERIAL — UNIT/KG
DOT FSH 3500
S CALEBAN 22.2L
NOMGEN 100
SOS 220L

DRILLED 16 | REAMED | SURVEYS DEPTH | ANGLE

FROM	TO
520	536

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0200	0215	DRILL BHEAD		
0215	0300	RIG SERVICE.		
0300	0800	DRILL		

DAY WORK

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES. U.F. 1050 O.F. 1015
CEN. O.F. 10.00
BOTH RUN 8 hrs.

8 hrs.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " "

DRILLER N. Wagner

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 6-2 7/8 | PUMP SPM 220 | NO. D.C. 2-171 | PUMP PRESS 1000 | PUMP STROKE 215-9 | ROTARY RPM 100 | LINER SIZE 139.7 | WT. ON BIT 12

BIT DATA: NO. 2 | SIZE 311 | TYPE FP51 | METRES 75 | HRS RUN 3 1/2

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
09[00]	1030			10.0		
12[00]	1035			10.0		
15[00]	1050			10.0		

MUD ADDED THIS TOUR:

MATERIAL	UNITS
NOMGEN	4
SCALEBAN	18 L
SOS	5
KCL	25

DRILLED 20 | REAMED

FROM	TO
536	556

SURVEYS

DEPTH	ANGLE
536	3/4
556	3/4

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0800	0815	Survey		15
0815	1515	Drill	7	
1515	1530	Survey		15
1530	2400	Drill	16	

DAY WORK

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DESILTER OF 1020 U.F. 1205
CENTRIFUGE OF 1010
Each Ran 5 hrs

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " "

DRILLER B. Kerr

EVENING TOUR

OPERATING DATA: SIZE D.C. 6-2 7/8 | PUMP SPM 220 | NO. D.C. 2-171 | PUMP PRESS 950 | PUMP STROKE 215-9 | ROTARY RPM 65 | LINER SIZE 139.7 | WT. ON BIT 12/14

BIT DATA: NO. 2 | SIZE 311 | TYPE FP51 | METRES 120 | HRS RUN 4 1/4 SER# 849791 | JETS 12.7-12.7-11.1

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL — UNITS

DRILLED 25 | REAMED | SURVEYS DEPTH | ANGLE

FROM	TO
556	581.00

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	2200	Drill		
2200	2215	RIG SERVICE		
2215	2400	DRILL		

DAY WORK

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES. U.F. 1210 O.F. 1020
CEN. O.F. 1010
BOTH RUN 8 hrs.

8 hrs.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " "

DRILLER D. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 15
ROTARY ✓ FIELD TEXACO MOBILE
SERVICE ☐ LEASE M-78
WELL NO. M-78 BOURE
CONTRACTOR KENTING DRLG RIG NO. 22E DATE 30/2/82 PROVINCE N.W.T.

MORNING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN		TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT KG
SIZE BIT 6 22	PUMP SPM 210	#2	311	FP51	23	8¾		0200	1040			10			
NO. 22-171	PUMP PRESS 10000	SER # 899791						0400	1040			10			
PUMP STROKE 215.9	ROTARY RPM 80	JETS 12.7-12.7-11.1													
LINER SIZE 139.7	WT. ON BIT 6														

DRILLED		REAMED		SURVEYS DEPTH	ANGLE
FROM	TO	FROM	TO		
465	484			479	1½°

RIG TIME DATA THIS TOUR			DAY WORK
FROM	TO	DESCRIPTION OF OPERATION	HRS. MIN.
0400	0430	DRILL AHEAD.	
0430	0445	CIRC TO SURVEY	
0445	0500	SURVEY	
0500	0800	DRILL AHEAD.	
		8 hrs	
		TOTAL DAY WORK TIME CHARGEABLE TO TEXACO	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)
DES. OF 1040 UF, 1090
GEN. OF, 10.0
BOTH RUN 8 hrs.

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER N. Wagner

DAYLIGHT TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN		TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT KG
SIZE BIT 6 22	PUMP SPM 105	2	311	FP51	44	16¼	2000	1030				11			140L FCL 1125
NO. 22-171	PUMP PRESS 1500						1700	1020				11			GEL 2724
PUMP STROKE 215.9	ROTARY RPM 30						1500	1025				10.5			NOXYGEN 100
LINER SIZE 139.7	WT. ON BIT 10														Sawdust 2276

DRILLED		REAMED		SURVEYS DEPTH	ANGLE
FROM	TO	FROM	TO		
454	505				

RIG TIME DATA THIS TOUR			DAY WORK
FROM	TO	DESCRIPTION OF OPERATION	HRS. MIN.
0000	0115	Dr. 11	1 15
0115	0130	R & Service c Bop	15
0130	0800	Dr. 11	6 30
		TOTAL DAY WORK TIME CHARGEABLE TO TEXACO	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER E. Johnson

EVENING TOUR

OPERATING DATA		BIT DATA						MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN		TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT KG
SIZE BIT 6 22	PUMP SPM 1000	2	311	FP51	59	24¼		1500	1025			10.5			
NO. 22-171	PUMP PRESS 4220														
PUMP STROKE 215.9	ROTARY RPM 95														
LINER SIZE 139.7	WT. ON BIT 12														

DRILLED		REAMED		SURVEYS DEPTH	ANGLE
FROM	TO	FROM	TO		
505	520			500	2°

RIG TIME DATA THIS TOUR			DAY WORK
FROM	TO	DESCRIPTION OF OPERATION	HRS. MIN.
1600	1745	Dr. 11	1 45
1745	1800	Survey @ 508 m.	15
1800	2400	Dr. 11	
		8 hrs	
		TOTAL DAY WORK TIME CHARGEABLE TO TEXACO	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)
GEN. OF. 10.00
DES. UF, 1050 OF, 1015
BOTH RUN 8 hrs.

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER N. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED B. Kuhnke TOOLPUSH
SIGNED [illegible] CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 161
FIELD TEXACO MABLE
LEASE M-78
WELL NO. M-78
PROVINCE N.W.T.
ROTARY ☑
SERVICE ☐

CONTRACTOR ZENTIN & DALE RIG NO. 22E DATE 90/2/2

MORNING TOUR

OPERATING DATA: SIZE 6.228 | PUMP SPM 80 | NO. 2 171 | PUMP PRESS 72 | PUMP STROKE 215 | ROTARY RPM 100 | LINER SIZE 139.7 | WT. ON BIT 6/8

BIT DATA: NO. 1 | SIZE 311 | TYPE DTJ | METRES 32 | HRS RUN 5 1/4

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED 32 | FROM 400m | TO 432

REAMED | FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Leak off Test @ 410m
Hydrostatic @ Shoe 4022 KPa
Leak off 4600 KPa
Total Press 6622 -
Formation Press Gradient 21.55 KPa/m

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0000	0100	DRILL OUT CEMENT PLUG & SHOE		
0100	0300	DRILL AHEAD		
0300	0415	RIG SERVICE, CHECKED BOPs		
0415	0700	DRILL AHEAD		
0700	0715	RUN LEAK OFF TEST		
0715	0800	DRILL AHEAD		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER W. Wagner

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 6.225 | PUMP SPM 180 | NO. D.C. 22 171 | PUMP PRESS 1000 | PUMP STROKE 216 | ROTARY RPM 120 | LINER SIZE 14 | WT. ON BIT 4

BIT DATA: NO. 1 | SIZE 311 | TYPE DTJ | METRES 29 | HRS RUN 10 3/4

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0200	1050	/		10.0		
2400	1050	/		10.0		

MUD ADDED THIS TOUR:

MATERIAL	UNIT/KG
Novagel	25
Soda	20

DRILLED 29 | FROM 432 | TO 461

REAMED | FROM | TO

SURVEYS: 451 | 1 3/4° | 461 | 1 5/8°

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Desilter @ 1040 U/F 1170
Centrifuge @ 1070 U/F solids

Each team 11 hrs

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0800	1030	Drill 311 mm Hole	2	30
1030	1045	Rig Service		15
1045	1100	Survey		15
1100	1400	Drill	3	
1400	1600	Trip out	2	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER B. Fisher

EVENING TOUR

OPERATING DATA: SIZE D.C. 6.225 | PUMP SPM 220 | NO. D.C. 22 171 | PUMP PRESS 10 000 | PUMP STROKE 215 | ROTARY RPM 89 | LINER SIZE 139.7 | WT. ON BIT 6/7

BIT DATA: NO. 2 | SIZE 311 | TYPE FP53 | METRES 4 | HRS RUN 1 1/4

SER# 899791
JETS. 12.7-12.7-11.1

DRILLED | FROM 461 | TO 465

REAMED | FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	1630	Trip out		30
1630	1730	Pick up SRS ream stab - make up bit		
1730	2000	Run in RIG		
2000	2100	PULL OUT IN JARS		
2100	2200	RUN IN JARS & COLLARS		
2200	2215	BLOW KELLY		
2215	2400	PUT ON KELLY & DRILL		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER W. Wagner

CAMP ☑ YES ☐ NO | BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature] TOOLPUSH

SIGNED [signature] CO. REP.

TEXACO CANADA INC.

TEC 215 A (5-78)

REPORT NUMBER 13

DAILY DRILLING WELL REPORT

ROTARY ☑ SERVICE ☐

FIELD TEXACO MOBILE

LEASE M-78

WELL NO. M-78

CONTRACTOR BENTING DRLG RIG NO. 22E DATE 80/2/10 PROVINCE N.W.T.

MORNING TOUR

OPERATING DATA: SIZE D.C. / PUMP SPM; NO. D.C. / PUMP PRESS; PUMP STROKE / ROTARY RPM; LINER SIZE / WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNITS/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0800	0900	NIPPLE UP.		
		MIX K.C.L + TO PITS.		
		GET PUMPS READY & CIRC THROUGH PODS.		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wagner

DAYLIGHT TOUR

OPERATING DATA: SIZE 6 3/8 / PUMP SPM; NO. D.C. 92-171 / PUMP PRESS; PUMP STROKE / ROTARY RPM; LINER SIZE / WT. ON BIT

BIT DATA: NO. 1 | SIZE 311 | TYPE DTJ

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNITS/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

FRAC TEST 1000/5000 KPa 10mm Hi 1200 15 min

Blind Rams ✓

DP Rams ✓

Control Valves Manifold ✓

Kelly Cock STAB Valve ✓

Hydril ✓ 11000 ✓

DSV

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0800	1000	PRESSURE TEST CASING Drill Out Plug & all manifold lines to 5000 Kpa Held OK	2	30
1000	1030	Blow all lines clear		30
1030	1130	Prepare to Run in.	1	
1130	1300	Run in w/bit.	1	30

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER E. Holden

EVENING TOUR

OPERATING DATA: SIZE 6 3/8 / PUMP SPM 79/89; NO. D.C. 92 171 / PUMP PRESS 2500; PUMP STROKE 215.9 / ROTARY RPM 50/60; LINER SIZE 139.7 / WT. ON BIT 0

BIT DATA: NO. 1 | SIZE 311 | TYPE DTJ | METRES 400 | HRS RUN 400

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNITS/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

W.O.C. 3100 hrs.

Cement @ 381

Collar @ 388

Shoe @ 400

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	1700	Run in	1	
1700	1800	Repair Rig motors ✓	1	
1800	2000	Thaw out Kelly	2	
2000	2100	PRESSURE TEST 2 FLANGES KELLY COCK BOTH PIPE RAMS TO 7000 KPa. + STAB VALVE	1	
2100	2330	HOLD BLOW OUT DRILL & DRILL THROUGH CEMENT	2	30
2330	2400	DRILL PLUG.		30

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 12
ROTARY ☑ FIELD TEXACO
SERVICE ☐ LEASE M-75 Bonnie
WELL NO. M-75
PROVINCE N.W.T.

CONTRACTOR CENTING DRLG. RIG NO. 22E DATE 50/1/31st.

MORNING TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS. RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNITS/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

0003 0100 CLEAN OUT CELLAR.
0100 0130 WELD ON BOWL BLOW LINES.
0130 0430 RIG UP SPOOLER FOR BOPS.
0430 0600 CHANGE ~~HOLS~~. RIG UP TO
0600 0700 LIFT STACK.

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: ☐ EXTRA SPECIFY JOB AND HOURS ☐ SHORT " " " "

DRILLER W. Wegner

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS. RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNITS/KG

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

0700 1600 Change over Spools to Head up Bops 8

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: ☐ EXTRA SPECIFY JOB AND HOURS ☐ SHORT " " " "

DRILLER E. Tobin

EVENING TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS. RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNITS/KG
POTASH 5000.
CAUSTIC 90.72

DRILLED: FROM | TO

REAMED: FROM | TO

SURVEYS: DEPTH | ANGLE

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

1600 2400 Head up Bops

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: ☐ EXTRA SPECIFY JOB AND HOURS ☐ SHORT " " " "

DRILLER W. Wegner

CAMP ☐ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED R. Tomlinson TOOLPUSH

SIGNED CO. REP.

TEXACO CANADA INC.

TEC 117 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 11
FIELD Sousie
LEASE Jessomville
WELL NO. 11-78
PROVINCE N.W.T.

ROTARY ✓
SERVICE

CONTRACTOR Kenting Drilling RIG NO 22E DATE 80/11/30

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS
SIZE D.C.	PUMP SPM													
NO. D.C.	PUMP PRESS													
PUMP STROKE	ROTARY RPM													
LINER SIZE	WT. ON BIT													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0600		Run Casing.		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Ran 35 jts 340mm, 81.1 Kg/M K-55 STC Kg Ht 3 casing
Buttress Threads New

Landed @ 400
Float @ 388.04m
Lift on Hole

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lockyer

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS
SIZE D.C.	PUMP SPM													
NO. D.C.	PUMP PRESS													
PUMP STROKE	ROTARY RPM													
LINER SIZE	WT. ON BIT													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
08[00]	09[00]	MOVE SIDE 605 TO TAG BTM		
09[00]	10[30]	LOAD OUT POWER TONGS		
10[30]	12[00]	CIRC CASING & WORK PIPE		
12[00]	12[55]	WAIT ON CEMENTERS		
12[55]	15[00]	CEMENT CASING		
15[00]	16[00]	DRAIN CELLAR & BBL. FLOW LINE		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Casing shoe 1st. 30, [illegible]
Cemented w/ 38.3T Neat Cement 29.3m³ slurry
Tailed w/ 12.5T 2% CaCl2 9.5m³ slurry
Displaced w/ 31.59m³ water. P013425
15m³ Figured cement returns Float would not hold
held press w/ check until rubber would cut on annulus
Slowly pumped against plug maintaining a constant press (7500 KPA) 1½ hrs
until cement set. Bled press off + holding OK
Cement hole up in Surf Csg OK.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNITS
SIZE D.C.	PUMP SPM													
NO. D.C.	PUMP PRESS													
PUMP STROKE	ROTARY RPM													
LINER SIZE	WT. ON BIT													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1800	2000	Wait on Cementers & Lay down Hydril 6		
2000	[illegible]	Cut Casing & Clean Cellar	2	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER [illegible]

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [illegible] TOOLPUSH
SIGNED [illegible] CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

REPORT NUMBER 10
FIELD Bone Lake
LEASE Texaco Hotel
WELL NO. 11-18
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR Kenting Drilling RIG NO. 22E DATE Dec 1/79

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT KG
SIZE D.C. 6-7/8	PUMP SPM 120	1RR	12 1/4	HP	56	30½	0200	1136	59		10.0			Gell 1170
NO. D.C. 22-17	PUMP PRESS 650						0500	1140	64		10.5			Caustic 45 2
PUMP STROKE 24	ROTARY RPM 150						0700	1140	70		10			
LINER SIZE 13.7	WT. ON BIT 10													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
		360	400		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Schlumberger D.F 1115 H.F 1240
Centrifuge D.F 1105

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0100	0215	Rig Service		15
0215	0645	Ream 360 - 400	6	30
0645	0800	Circulate work pipe	1	15

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " "

DRILLER Dean Lapchuk

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT KG
SIZE D.C.	PUMP SPM													
NO. D.C.	PUMP PRESS													
PUMP STROKE	ROTARY RPM													
LINER SIZE	WT. ON BIT													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
T.D. SURF.					

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0800	1000	HOIST TO RUN CASING		
1000	1200	PU KELLY ON TIGHT HOLE RUN IN		
1200	1420	CIRC WORK PIPE MIX GEL		
1420	1445	BLOW KELLY AIR STEAM		
1445	1600	HOIST TO RUN CASING.		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " "

DRILLER N. Wagner

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT KG
SIZE D.C.	PUMP SPM													
NO. D.C.	PUMP PRESS													
PUMP STROKE	ROTARY RPM													
LINER SIZE	WT. ON BIT													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR — DAY WORK

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	1700	HOIST TO RUN CASING.	1	
1700	1645	BREAK OFF TOT 9" JOINT RA BIT #5		
1845	1900	CUT OFF LUGS ON BIT.		15
1900	1930	BREAK OFF RM: BIT SUB & SHOCK SUB,		30
1930	2130	RIG UP POWER TONGS.	2	
2130	2300	Weld on shoe and float	1	30
2300	2400	Run Casing	1	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " "

DRILLER Dean Lapchuk

CAMP ☐ YES ☐ NO BOILER ☐ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature] TOOL PUSH
SIGNED D.B. Harmon CO. REP.

TEXACO CANADA INC.

TEC 212 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 9
ROTARY ✓
SERVICE
FIELD Bouse Lake
LEASE Jean Marie
WELL NO. M-78
PROVINCE N.W.T.

CONTRACTOR Hardisty Drilling RIG NO 225 DATE 30/1/78

MORNING TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V. Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 6-228	PUMP SPM	220	Reamer	445	Smith	76	8 3/4	0200	1120	72		10.0		Gel	600
NO. D.C. -171	PUMP PRESS	6000						0400	1120	64		10.0			
PUMP STROKE 216	ROTARY RPM	130						0800	1250			10.5			
LINER SIZE 139.7	WT. ON BIT	11													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
		274	290		

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0015	Rig Service - Lydiel		15
0015	0700	Ream 274-290	7	45

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Desilter U.F. 1230 O.F. 1125
Centrifuge O.F. 1090
8 hrs each.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapierre

DAYLIGHT TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V. Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 6-228	PUMP SPM	220	RR#2	445	Smith	112	16	0400	1120	67		10			
NO. D.C. 22-171	PUMP PRESS	5500						0200	1120	58		9.5			
PUMP STROKE 215.9	ROTARY RPM	150													
LINER SIZE 139.7	WT. ON BIT	11/12													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
		290	326		

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0800	0830	RIG SERVICE CHECKED HYDRIL		
0830	1600	REAM		

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES U.F. 1190 O.F. 1090
CEN. O.F. 1070
BOTH RUN 8 hrs.

8 hrs.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

EVENING TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V. Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 6228	PUMP SPM	220	RR#2	445	Smith	146	24	1900	1130	95		10			
NO. D.C. 22-171	PUMP PRESS	5500						2200	1140	77		10			
PUMP STROKE 215.9	ROTARY RPM	140						2400	1140	74		10			
LINER SIZE 139.7	WT. ON BIT	11/12													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
		326	360		

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	2400	REAM 326-360	8	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES U.F. 1240 O.F. 1115
CEN. O.F. 1100
BOTH RUN 8 hrs.

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapierre

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED R. Luttmer TOOLPUSH
SIGNED W. Wagner CO. REP.

TEXACO CA..ADA INC.

TEC 7[illegible] A (6-71)

DAILY DRILLING WELL REPORT

REPORT NUMBER 8
ROTARY ✓
SERVICE
FIELD Grand Liard
LEASE Texaco Mobil
WELL NO. M-78
PROVINCE N.W.T.

CONTRACTOR Kenting Drilling RIG NO 22E DATE 86/1/27

MORNING TOUR

OPERATING DATA: SIZE D.C. 6-228; NO. D.C. ; PUMP STROKE 216; LINER SIZE 139.7; PUMP SPM 220 Reeve 445; PUMP PRESS 3000; ROTARY RPM 160; WT. ON BIT 8

BIT DATA: NO. 12; SIZE ; TYPE ; METRES ; HRS. RUN

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0200	1090	65		10.0		
0400	1110	74		10.0		
0700	1110	65		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNITS/KG
CAUSTIC	45.2
GEL	1200

DRILLED FROM 1446 TO 139

REAMED FROM TO

SURVEYS DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Dauphin M.F 1320 D.F 1090
Boat D.F 1065

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0400	Ream #6 446 - 109	4	
0400	0415	Rig Service		15
0415	0800	Ream f 109 - 139	3	45

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER Dean Lapierre

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 6-228; NO. D.C. 3-171; PUMP STROKE 215.9; LINER SIZE 139.7; PUMP SPM 230 R.M.; PUMP PRESS 4000; ROTARY RPM 150; WT. ON BIT 3/10

BIT DATA: NO. ; SIZE ; TYPE ; METRES ; HRS. RUN 19½

MUD TEST DATA: (none)

MUD ADDED THIS TOUR: (none)

DRILLED FROM 139 TO 186

REAMED 47 FROM TO

SURVEYS DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES. U.F. 1290 D.F. 1085.
CEN. D.F. 1070
BOTH RUN 8 hrs

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
8[illegible]	15[illegible]	REAM		
15[illegible]	16[illegible]	RUN IN 171 Stand of Collars.		

TOTAL DAY WORK TIME CHARGE[illegible] TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER N. Wagner

EVENING TOUR

OPERATING DATA: SIZE D.C. 6-228; NO. D.C. -171; PUMP STROKE 216; LINER SIZE 139.7; PUMP SPM 220; PUMP PRESS 4000; ROTARY RPM 150; WT. ON BIT 3/10

BIT DATA: NO. R.M. 445 3-in-1; SIZE ; TYPE ; METRES 10; HRS. RUN 1½

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
0000	1120	80		10.0		

MUD ADDED THIS TOUR: (none)

DRILLED FROM 186 TO 224.12

REAMED FROM TO

SURVEYS DEPTH ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES. U.F. 1290 D.F. 1100
CEN. D.F. 1080
BOTH RUN 8 hrs.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
16[illegible]	18[illegible]	REAM	2	30
18[illegible]	18[illegible]	BLOW KELLY LAY DOWN 2 singles		
18[illegible]	2030	HOIST REAMER	1	15
2030		Lay down Reamer put off bit		
		Pick up new Reamer welded	1	30
2200	2330	Ream in f 214	1	30
2330	2400	Ream 214 - 224.12		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER Dean Lapierre

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED

SIGNED A.C. Horner TOOLPUSH CO. REP

TEXACO CANADA INC.

TEC (12-A15-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 7
ROTARY ☑ FIELD Bove Lake
SERVICE ☐ LEASE Texaco Mobil
WELL NO. 10-78
PROVINCE N.W.T.

CONTRACTOR Kenting Drilling RIG NO. 22E DATE 80/1/26

MORNING TOUR

OPERATING DATA			BIT DATA NO.	SIZE	TYPE	METRES	HRS RUN	MUD TEST DATA TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MUD ADDED THIS TOUR MATERIAL	UNIT/KG
SIZE D.C. 6 228	PUMP SPM	200	3A	311	DTJ	134	36 1/4	0200	10.8	47		10.0			Gel	
NO. D.C. 6-171	PUMP PRESS	6000						0400	10.8	50		10.0				
PUMP STROKE 216	ROTARY RPM	150						0700	10.7	46		10.0				
LINER SIZE 139.7	WT. ON BIT	6														

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE
354	375			364	3/4

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.

Desilter @ 1055 @ 1140
Centrifuge @ 1045
6 hrs each

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0315	Drill	3	15
0315	0330	Rig Serv		15
0330	0345	Survey 364 - 3/4°		15
0345	0500	Drill	2	15

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lockyer

DAYLIGHT TOUR

OPERATING DATA			BIT DATA NO.	SIZE	TYPE	METRES	HRS RUN	MUD TEST DATA TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MUD ADDED THIS TOUR MATERIAL	UNIT/KG
SIZE D.C. 6-228	PUMP SPM	200	5A	311	DTJ			0900	10.8	46		10				
NO. D.C. 6-171	PUMP PRESS	6000						1200	10.6	48		10				
PUMP STROKE 216	ROTARY RPM	150						1500	10.9	68		10				
LINER SIZE 139.7	WT. ON BIT	6														

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE
375	400			395	1°

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.

DES. UT 1065 OF 1140
CEN. OF 1045
BOTH RUN 8 hrs.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0800	0930	DRILL		
0930	0945	RIG SERVICE		
0945	1000	SURVEY		
1000	1400	DRILL		
1400	1415	SURVEY		
1415	1530	DRILL		
1530	1700	CIRC. CON. HOLE		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER W. Wagner

EVENING TOUR

OPERATING DATA			BIT DATA NO.	SIZE	TYPE	METRES	HRS RUN	MUD TEST DATA TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MUD ADDED THIS TOUR MATERIAL	UNIT/KG
SIZE D.C. ~~5 3/4~~	PUMP SPM	220	Reed 445				4 1/4	1800								
NO. D.C. 5	PUMP PRESS	3000						2100	10.8	68		10.0				
PUMP STROKE 216	ROTARY RPM	65						2400	10.8	77		10.0				
LINER SIZE 139.7	WT. ON BIT	2														

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE
		35.75	64.46		

REMARKS AND REPORTS OF SPECIAL OPERATIONS TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.

Desilter @ 1030 @ 1050
Centrifuge @ 1050
6 hrs each

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	1615	BLOW KELLY LAY DOWN one single		15
1615	1845	HOIST BIT # 5A	2	30
1845	1900	CHAN BIT REAMER.		45
1900	2000	BREW KELLY REAM TO BTM		30
2000	2400	Ream 35.75 - 64.46	4	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lockyer

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH
SIGNED A.C. Horner CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

ROTARY ☑ SERVICE ☐

REPORT NUMBER 6
FIELD Bonnie Lake
LEASE Texaco Mobil NTR
WELL NO. M-78
PROVINCE NWT

CONTRACTOR Kenting Drilling RIG NO 22E DATE 80/1/22

MORNING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C. 6-228	PUMP SPM 200	5A	311	DTJ	61	4	0100	1070	67		10.0			Gel 1040
NO. D.C. 16-171	PUMP PRESS 1000						0400	1066	62		10.6			Caustic 45.2
PUMP STROKE 216	ROTARY RPM 150						0700	1070	70		10.0			
LINER SIZE 139.7	WT. ON BIT 3													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
263	302			287	1 3/4
				297	1 3/4

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Desilter @ 1065 @ 1145
Centrifuge @ 1045
8 hrs each.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0230	Drill	2	30
0230	0245	Rig Serv.		15
0245	0257	Survey 287 - 1 3/4		12
0300	0630	Drill	3	30
0630	0645	Survey 1 3/4°	2	15
0645	0800	Drill	1	15

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW ☐ EXTRA ☐ SPECIFY JOB AND HOURS ☐ SHORT ☐ " " " "

DRILLER Dean Lychpuk

DAYLIGHT TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C. 6-228	PUMP SPM 200	5A	311	DTJ	84	21½	0942	1070	64		10			GEL
NO. D.C. 16-171	PUMP PRESS 1000						1202	1070	53		10			CAUSTIC 45.2 Kgs.
PUMP STROKE 216	ROTARY RPM 150						1500	1050	45		10			
LINER SIZE 139.7	WT. ON BIT 3													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
302	325			309	1½°

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DES. U.F. OF.
CEN. OF.
BOTH RUN 8 hrs.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0530	1000	DRILL		
1000	1030	RIG SERVICE, CHECKED HYDRIL		
1030	1030	SURVEY		
1030	1600	DRILL		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW ☐ EXTRA ☐ SPECIFY JOB AND HOURS ☐ SHORT ☐ " " " "

DRILLER J. Wagner

EVENING TOUR

OPERATING DATA		BIT DATA					MUD TEST DATA						MUD ADDED THIS TOUR	
		NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL / UNIT/KG
SIZE D.C. 6-228	PUMP SPM 200	5A	311	DTJ	113	28¾	1855	1080	43		10			Gel 9.625
NO. D.C. 16-171	PUMP PRESS 1000						2100	1080	52		10			Caustic 45.2
PUMP STROKE 216	ROTARY RPM 150						2400	1075	53		10			
LINER SIZE 139.7	WT. ON BIT 6													

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
325	334			327	⅜°
				345	1½°

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Desilter @ 1100 @ 1080
Centrifuge @ 1050
8 hrs each.

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1700	DRILL	1	
1700	1730	SURVEY 327 ⅜°		30
1730	2130	DRILL	4	
2130	2145	Survey 345 - 1½°		15
2145	2400	Drill	2	15

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW ☐ EXTRA ☐ SPECIFY JOB AND HOURS ☐ SHORT ☐ " " " "

DRILLER Dean Lychpuk

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED R. Guttormsen TOOLPUSH
SIGNED A.G. Hamer CO. REP.

TEXACO CANADA INC.

DAILY DRILLING WELL REPORT

ROTARY ☑ SERVICE ☐

REPORT NUMBER 5
FIELD Bear Lake
LEASE Texaco Mobil M78
WELL NO. M-78
PROVINCE Alta

CONTRACTOR Kenting Drilling RIG NO 22E DATE 80/6/24

MORNING TOUR

OPERATING DATA			BIT DATA NO.	SIZE	TYPE	METRES	HRS RUN	MUD TEST DATA TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MUD ADDED THIS TOUR MATERIAL	UNITS
SIZE D.C. 6-228	PUMP SPM	160	4A	311	DTJ	108	16½	0200	1100	70		10			Caustic	452
NO. D.C. 16-171	PUMP PRESS	3000						1500	1090	65		9.5				
PUMP STROKE 216	ROTARY RPM	150						0700	1050	55		10				
LINER SIZE 139.7	WT. ON BIT	4														

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE
185	227			202	1°
				220	1/4°

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Centrifuge @ 1045
Desilter @ 1065 @ 1155
Cent Rec 3 hrs

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0245	Drill	2	45
0245	0300	Rig Service & Hydril		15
0300	0315	Survey 202		15
0315	0615	Drill	3	
0615	0630	Survey 220 1/4°		15
0630	0800	Drill	1	30

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☑ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER Don Lakpat

DAYLIGHT TOUR

OPERATING DATA			BIT DATA NO.	SIZE	TYPE	METRES	HRS RUN	MUD TEST DATA TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MUD ADDED THIS TOUR MATERIAL	UNITS
SIZE D.C. 6-228	PUMP SPM	160	4A	311	DTJ			1500	1050	53		10				
NO. D.C. 16-171	PUMP PRESS	3000														
PUMP STROKE 216	ROTARY RPM	150														
LINER SIZE 139.7	WT. ON BIT	4														

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE
227	241			232	1°

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

CEN UE. 1080 OE. 1080
DES UE. 1140 OE. 1070
BOTH RUN 3 hrs

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0815	0815	DRILL		
0815	0830	RIG SERVICE		
1930	0945	SURVEY		
0945	1030	DRILL		
1030	1045	CIRC TO HOIST BIT = 4H.		
1045	1100	BLOW KELLY dispose to joint		
1100	1300	TRIP FOR BIT.		
1230	1600	RUN IN.		

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER W. Wegner

EVENING TOUR

OPERATING DATA			BIT DATA NO.	SIZE	TYPE	METRES	HRS RUN	MUD TEST DATA TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MUD ADDED THIS TOUR MATERIAL	UNITS
SIZE D.C. 6-228	PUMP SPM	160	5A	311	DTJ	42	6 3/4	1800	1070	44		10			GEL 13.62 Kgs	
NO. D.C. 16-171	PUMP PRESS	4000						2200	1070	46		10.0			Caustic 96.4 Kgs	
PUMP STROKE 216	ROTARY RPM	150						2400	1070	72		10.0				
LINER SIZE 139.7	WT. ON BIT	5														

DRILLED FROM	TO	REAMED FROM	TO	SURVEYS DEPTH	ANGLE
241	288			241	1°
				251	1°

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Desilter @ 1160 @ 1060
Centrifuge @ 1035
3 hrs each

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1600	1615	REAMED TWO singles OUR HOLE CLEAN.		15
1615	1700	DRILL AHEAD		45
1700	1730	SURVEY BAILED BIT.		30
1730	1815	DRILL.		45
1815	1830	SURVEY 261 1¼°		15
1830	2330	Drill	4	
2330	2345	Survey 278 1 3/4°		15
2345	0100	Drill	1	15

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☑ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER Don Lakpat

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED [signature] TOOLPUSH

SIGNED [signature] CO. REP.

TEXACO CANADA INC.

TEC 212 -A (5-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 4
FIELD Bouvier Lake
LEASE Texaco Mobil
WELL NO. 121-78
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR Kenting Drlg Ltd RIG NO. 22E DATE 80/11/23

MORNING TOUR

OPERATING DATA: SIZE D.C. 6-22 | PUMP SPM 80 | NO. D.C. 17 | PUMP PRESS 4000 | PUMP STROKE 216 | ROTARY RPM 120 | LINER SIZE 170 | WT. ON BIT 3-4

BIT DATA: NO. 3A | SIZE 311 | TYPE XL | METRES 29 | HRS RUN 7½

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1090	1060	160		10.5		
1090	1060	130		10.5		
1090	1060	120		10.5		

MUD ADDED THIS TOUR:

MATERIAL	UNITS/KG
GEL	212.4
SODA ASH	45.4
CAUSTIC	~~45.4~~ 22.7

DRILLED 29 (FROM 80 TO 109) | REAMED (FROM — TO —)

SURVEYS: DEPTH 41 ANGLE 1° | DEPTH 100 ANGLE 1°

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

DESILTER

OF 1050 UF 1270

ran 6 hrs

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0000	0200	Drill 311 mm Hole	2	
0200	0215	Survey		15
0215	0445	Drill	2	30
0445	0500	Survey		15
0500	0800	Drill	3	

DAY WORK TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER B. Johnson

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 6-22 | PUMP SPM 160 | NO. D.C. 8-17 | PUMP PRESS 3000 | PUMP STROKE 216 | ROTARY RPM 150 | LINER SIZE 139.7 | WT. ON BIT 4

BIT DATA: NO. 3A | SIZE 311 | TYPE XL | METRES 39 | HRS RUN 9¼
NO. 4A | SIZE 311 | TYPE DT | METRES 29 | HRS RUN 3¼

MUD TEST DATA:

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1000	1070	116		10.0		
1300	1070	96		10.0		
1600	1060	96		10		

MUD ADDED THIS TOUR:

MATERIAL	UNITS/KG
CAUSTIC	45.2

DRILLED (FROM 109 TO 148) | REAMED (FROM — TO —)

SURVEYS: DEPTH 110 ANGLE 1° | DEPTH 137 ANGLE 1½

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0000	0515	Rig Service		15
0515	1000	Drill	1	45
1000	1015	Hyd Survey		15
1015	1100	Trip BIT 3A		45
1100	1200	Pick up BIT 4A Ream	1	
1200	1330	Drill	1	30
1330	1400	Survey 137 m 1½		30
1400	1500	Drill	1	
1500	1515	Survey 137m ¾°		15
1515	1600	Drill		45

DAY WORK TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER Dean Lafferty

EVENING TOUR

OPERATING DATA: SIZE D.C. 6225 | PUMP SPM 80 | NO. D.C. — | PUMP PRESS 3000 | PUMP STROKE 215.9 | ROTARY RPM 150 | LINER SIZE 139.7 | WT. ON BIT 4

BIT DATA: NO. 4A | SIZE 311 | TYPE DT

DRILLED (FROM 148 TO 185) | REAMED (FROM — TO —)

SURVEYS: DEPTH 146 ANGLE 1° | DEPTH 155 ANGLE —

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

176m 1°

185m 1°

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	1630	Drill		30
1630	1645	Survey 146m		15
1645	1745	Drill	1	
1745	1815	Survey		
1815	1945	DRILL		
1945	1945	SURVEY		
1945	2145	DRILL		
2145	2145	SURVEY		
2145		DRILL		

DAY WORK TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS | SHORT ☐ " " " "

DRILLER W. Wagner

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC.

TEC 212 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 3
FIELD Bouie Lake
LEASE Texaco Provost
WELL NO. M-78
PROVINCE N.W.T.

ROTARY ☑
SERVICE ☐

CONTRACTOR Kenting Drlg Ltd RIG NO. 22E DATE 80/1/22

MORNING TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 228	PUMP SPM 50		1	ARR	311	5386	39	1 1/4	01:00	1070	45		10.0		Gel	5448
NO. D.C. 7	PUMP PRESS 3000								03:00	1070	50		10.0		Caustic	90.5
PUMP STROKE 216	ROTARY RPM 60								06:00	1070	57		10.5		Soda Ash	45.4
LINER SIZE 140	WT. ON BIT 1-2														Lime	22.6

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE
—	—	72	80	72	1¼

RIG TIME DATA THIS TOUR FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0000	0100	Ream Rat hole	1	
0100	0115	Survey		15
0115		Ream (boulders caving in)	4	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

Desilter OF 1040 UF 1400

ran 5 hrs

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER B. Johnson

DAYLIGHT TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 228	PUMP SPM 60		1RR	311	516	59		1100	1070	67		10.5			Soda Ash	45.2
NO. D.C. 7	PUMP PRESS 4500		3	311	516			1300	1080	62		11.0			Gel	400
PUMP STROKE 216	ROTARY RPM 3							1600	1090	55		11.0				
LINER SIZE 139.7	WT. ON BIT															

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
0500	1130	Ream 20-31m (boulders falling in)	4	30
1130	1230	Circ. Bit 1RR	1	
1230	1500	Make up BHA Run 216.0m	1	30
1500	1600	Ream on Boulder 216.0-70m	1	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Dean Lapointe

EVENING TOUR

OPERATING DATA			BIT DATA					MUD TEST DATA							MUD ADDED THIS TOUR	
			NO.	SIZE	TYPE	METRES	HRS RUN	TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.	MATERIAL	UNIT/KG
SIZE D.C. 6-22½	PUMP SPM 50		3	311	XL16	—	—	1900	1080	60		11.0			Gel	2239.6
NO. D.C. 1-171	PUMP PRESS 3200							2100	1080	56		11.0				
PUMP STROKE 216	ROTARY RPM -							2300	1090	90		11.0				
LINER SIZE 177.8	WT. ON BIT -															

DRILLED FROM	DRILLED TO	REAMED FROM	REAMED TO	SURVEYS DEPTH	SURVEYS ANGLE

RIG TIME DATA THIS TOUR FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	MIN.
1100	1630	Ream on Boulder 60-70		30
1630	1800	Trip out check bit Ream	1	30
1800	2400	Ream on boulders	6	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER B. Johnson

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE?

SIGNED _____ TOOLPUSH

SIGNED _____ CO. REP.

TEXACO CANADA INC. TFC 712 - A (6-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 2
ROTARY ✓ FIELD Bonnie Lake
SERVICE ☐ LEASE M-TX
WELL NO. M-TX
PROVINCE Alta

CONTRACTOR Kenting Drlg RIG NO. 22E DATE 80/1/21

MORNING TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 50 | NO. D.C. 6 | PUMP PRESS 6000 | PUMP STROKE 216 | ROTARY RPM 80 | LINER SIZE 140 | WT. ON BIT 3-4

BIT DATA

NO.	SIZE	TYPE	METRES	HRS RUN
2A	216	J3	25	4

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
02:00	/	32		8.0		
04:00	/	35		8.0		
06:00		36		8.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
Caustic	45.4
Gel	136.2

DRILLED 25 (FROM 41 TO 66) | REAMED (FROM / TO) | SURVEYS DEPTH 52 ANGLE 1°; DEPTH 61 ANGLE 7/8°

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0000	0530	Drill		30
0000	0730	Stand back 9" pick up 7"	3	
0830	0845	Rig Service		15
0845	0900	Drill 216 mm Hole		15
0900	0915	Survey @ 52 m.		15
0915	0930	Drill		15
0930	0930	Survey @ 61 m.		30
0930	0930	Drill	2	30

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER B. Johnson

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 171 | PUMP SPM 160 | NO. D.C. 7 | PUMP PRESS 3500 | PUMP STROKE 216 | ROTARY RPM 140 | LINER SIZE 139.7 | WT. ON BIT 4

BIT DATA

NO.	SIZE	TYPE	METRES	HRS RUN
2A	216	J3	59	5½

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1100	1040	44		10.5		
1400	1045	55		10.5		
1600	1045	61		10.5		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
Gel	207.9
Caustic	45.2

DRILLED (FROM 66 TO 80) | REAMED (FROM / TO) | SURVEYS DEPTH / ANGLE

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
0700	0730	Drill		30
0730	1300	Work hole 61-70 m bobbins pulling	6	30
1300	1400	Drill	1	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER Dean Lysack

EVENING TOUR

OPERATING DATA: SIZE D.C. 228 | PUMP SPM 40 | NO. D.C. 7 | PUMP PRESS 3200 | PUMP STROKE 216 | ROTARY RPM 50/72 | LINER SIZE 140 | WT. ON BIT 1-2

BIT DATA

NO.	SIZE	TYPE	METRES	HRS RUN
2A	216	J-33	39	5½
HKK	311	5126	31	4

MUD TEST DATA

TIME	WT.	VIS	W.L.	P.H.	P.V.	Y.P.
1900						
2100	1050 1040	42		10.0		
2300	1060	42		10.0		

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
Gel	
Caustic	45.2

DRILLED (FROM / TO) | REAMED 31 (FROM 41 TO 72) | SURVEYS DEPTH 70 ANGLE 1¼

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

RIG TIME DATA THIS TOUR

FROM	TO	DESCRIPTION OF OPERATION	DAY WORK HRS.	DAY WORK MIN.
1600	1730	Work hole 70-80m	1	30
1730	1745	Survey 70m		15
1745	1815	Trip out 2A		30
1815	2000	Pick up 216mm Stab Sub 8mm Bit & Collars	1	45
2000	2400	Ream bot hole from 41-72 m.	4	

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS; SHORT ☐ " " " "

DRILLER B. Johnson

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH

SIGNED J. Wiedman CO. REP.

TEXACO CANADA INC.

TEC 212 - A (R-78)

DAILY DRILLING WELL REPORT

REPORT NUMBER 1
FIELD BOUIE LAKE
LEASE TEXACO Mobil
WELL NO. M78
PROVINCE NWT

ROTARY ☑
SERVICE ☐

CONTRACTOR KENTING RIG NO. 22E DATE 80-01-20

MORNING TOUR

OPERATING DATA: SIZE D.C. | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE | ROTARY RPM | LINER SIZE | WT. ON BIT

BIT DATA: NO. | SIZE | TYPE | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR

MATERIAL	UNIT/KG
GEL	216.9
CAUSTIC	45.2
SODA ASH	90.4

DRILLED FROM / TO | REAMED FROM / TO | SURVEYS DEPTH / ANGLE

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER

DAYLIGHT TOUR

OPERATING DATA: SIZE D.C. 228 | PUMP SPM | NO. D.C. | PUMP PRESS | PUMP STROKE 216 | ROTARY RPM | LINER SIZE 139.7 | WT. ON BIT

BIT DATA: NO. 1P | SIZE 311 | TYPE 313 | METRES | HRS RUN

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED FROM / TO | REAMED FROM / TO | SURVEYS DEPTH / ANGLE

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
0800	0900	Pick up 228mm Collars	1	
0900	1100	Mix up spud mud	2	
1100	1600	Work on getting liquid & pressure	5	

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☐ " " " "

DRILLER Quentin Spink

EVENING TOUR

OPERATING DATA: SIZE D.C. 228 | PUMP SPM 32 | NO. D.C. 5 | PUMP PRESS 1500 | PUMP STROKE 216 | ROTARY RPM 40 | LINER SIZE 140 | WT. ON BIT 1-2

BIT DATA: NO. 1A | SIZE 311 | TYPE 5136 | METRES 15 | HRS RUN 3¼

MUD TEST DATA: TIME | WT. | VIS | W.L. | P.H. | P.V. | Y.P.

MUD ADDED THIS TOUR: MATERIAL | UNIT/KG

DRILLED 14 FROM 27 TO 41 | REAMED FROM / TO | SURVEYS DEPTH / ANGLE: 31 @ 1¼ | 41 @ 1½

RIG TIME DATA THIS TOUR: FROM | TO | DESCRIPTION OF OPERATION | DAY WORK HRS. | MIN.

FROM	TO	DESCRIPTION OF OPERATION	HRS.	MIN.
1600	2000	Work on Accumulator	4	
2000	2200	Level in Kelly	2	
2200	2215	Rig Service		15
2215	2230	Survey @ 31m		15
2230	2345	Drill	1	15
2345	2400	Survey @ 41m		15

REMARKS AND REPORTS OF SPECIAL OPERATIONS (TESTING, CORING, CASING RUN, CEMENT PLUGS, ETC.)

SPUD @ 2000
80-01-20

TOTAL DAY WORK TIME CHARGEABLE TO TEXACO 8

CREW: EXTRA ☐ SPECIFY JOB AND HOURS
SHORT ☑ " " " "

DRILLER B. Johnson

CAMP ☑ YES ☐ NO BOILER ☑ YES ☐ NO

IS YOUR REPORT COMPLETE ?

SIGNED _____ TOOLPUSH
SIGNED _____ CO. REP.