Indian and Northern Affairs Affaires indiennes et du Nord

Well Name / Nom du puits	DECALTA DOME LRI ET AL KEELE N-62	Drilling Authority No. / Autorisation de forage n°	709
Field/Area / Gisement/Région		Date Issued / Date d'émission	September 17, 1973
Location / Emplacement — Unit / Unité	Section N-62-64-30-124-45	Permit or Lease	5423

Latitude 64°21'48" N Longitude 124°57'12" W

U.W.L.R. / N.R.U.E.P. Lat. 64.36333° N Long. 124.95333° W.

U.W.I. No. / N.I.P. No. 300N626430124450

File Microfilmed

Rig. Release Date / Date de transfert de la tour de forage 21-10-73

Tour Sheets, Microfilmed

Status / Statut D+A

Information Release Date / Date de publication autorisée des informations 21-10-75

CHANGE OF NAME:
CHANGEMENT DE NOM:

Change of Location
Changement de emplacement

INDEX	DATE RECEIVED / RECU LE		INDEX
Application for a Drilling Authority	Sept.25, 1973	K	Demande d'autorisation de forage
Well Completion Data	✓		Renseignements sur le forage d'un puits
Well History Report	✓		Données chronologiques sur le puits
Application to Amend a Drilling Authority			Demande de modification d'une autorisation de forage
Application to Change a Well Name			Demande de changement du nom d'un puits
Application to Abandon a Well or Suspend Drilling	✓		Demande d'abandon d'un puits ou de suspension du forage
Application to Alter Condition of a Well			Demande d'autorisation de modifier l'état d'un puits
Well History Supplement			Supplément aux données chronologiques sur le puits
Well Completion Data			Renseignements sur le forage d'un puits
Work-Over Report No.			Rapport de reconditionnement n° . . . . .
Application to Commingle Production before Measurement			Demande d'autorisation de mélanger la production avant jaugeage
Data for Back Pressure Test on Natural Gas Wells			Données de calcul de la capacité de production d'un puits de gaz naturel – Méthode graphique n° 7
Data for Back Pressure Test on Natural Gas Walls			Données de calcul de la capacité de production d'un puits de gaz naturel – Méthode de Vitter
M.P.R. – Oil – Calculations			Calcul du T.M.P. (Taux maximal de production) de pétrole
New Oil Well Report			Rapport sur un nouveau puits de pétrole
New Gas Well Report			Rapport sur un nouveau puits de gaz naturel
Well Inspection Report			Rapport d'inspection de l'emplacement d'un puits
Rig Inspection Report			Rapport d'inspection d'une tour de forage
Battery Inspection Report			Rapport d'inspection d'une batterie de puits
Equipment Report			Rapport d'inspection des compteurs
Well Card			Fiche de puits
New Service Well Report			Rapport sur un nouveau puits de service
Strat Service Logs			Rapport mensuel des injections d'eau
Logs – Large scale			Diagrammes: Grande échelle
Logs – Small scale			Diagrammes: Petite échelle

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

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

OIL & GAS DIVISION
DIVISION DU PÉTROLE ET DES MINÉRAUX

WELL COMPLETION DATA
RENSEIGNEMENTS SUR LES FORAGES

Drilling Authority No. / *N° de l'autorisation de forage*: 709
Date Issued / *Date de délivrance*: Sept. 17, 1973

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

Well Name & No. — *Nom et n° du puits*	Permit No. — *N° de permis*	Lease No. — *N° de concession*
DECALTA DOME LRI ET AL KEELE N-62	5423	–

(Permittee, License, Lessee) — *(Détenteur de permis ou de licence, du concessionnaire)*	Exploratory Licence No. — *N° de licence de sondage*
Total Petroleum (North American) Ltd.	2035
(Operator) — *(Exécutant)*	Exploratory Licence No. — *N° de licence de sondage*
Western Decalta Petroleum Limited	2255

LOCATION — *EMPLACEMENT*

Unit — *Unité*	Section	Grid — *Étendue quadrillée*	Latitude	Longitude
N	62	64-30-124-45	64°21'48"N	124°57'12"W

Unique Well Identifier — *Code d'ordinateur*	Universal Well Location Reference — *Références universelles d'emplacement du puits*
300N626430124450	Lat. 64.36333°N. Long. 124.95333°W.

	Date	Depth — *Profoneur*
Spudded / *Début des travaux*	Sept.20/73	
Suspended / *Suspension des travaux*		
Resumed Operations / *Reprise des travaux*		
Finished Drilling / *Forage terminé*		
Deepened / *Approfondissement*		
Complete (Gas/Oil) / *Achèvement (Gaz/Pétrole)*		
Abandoned / *Abandon*	Oct.21/73	4199'
Rig Released / *Fin des travaux*	Oct. 21/73	

Pool(s) / *Gisement(s)*:
Interval(s) Open to Production / *Intervalle(s) de production*: NIL

Elevation: Gr. / *Altitude du sol*: 729' K.B. / *du carré d'entraînement*: 740'
Rig No. / *N° de la tour de forage*: 7H
Drilling Contractor / *Entrepreneur en forage*: Guthrie McLaren
Contractor's Business Licence No. / *N° du permis de l'entrepreneur*: 10920

CASING RECORD — *TUBAGE*

Casing Size (Inches) / *Diamètre (en pouces)*	Grade / *Qualité*	Weight / *Poids*	Amount / *Longeur*	Set at — / *Fixation à*	Sacks of Cement and Additives / *Sacs de ciment et d'additifs*
1. 10-3/4 Conductor Pipe		36.5#	62'	62'	30 sax permafrost cement + 2% $CaCl_2$
2. 7	KS	20	16 jts	523.7'	135 sax construction cement + 2% $CaCl_2$
3.					
4.					
5.					
6.					

Geological Tops / *Sommet des formations*	Elevation — *Profondeur*: Depths / *Sous le niveau du sol*	Sub-Sea / *Sous le niveau de la mer*
Top of Little Bear	1131	-391
Top of Basal Little Bear San Unit	1830	-1090
Slater River	2128	-1388
San Sault	2783	-2043
Ronning	2840	-2100
Saline River	3530	-2790

Core Record — *Carottes*

From — *de*	To — *à*	Rec. / *Récupérés*	From — *de*	To — *à*	Rec. / *Recup.*
	NIL				

Log Record — *Diagrammes*

Run / *Série*	Type of Log / *Genre de diagramme*	From — *De*	To — *À*
	Schlumberger		
1	Dual Induction-Laterolog	4191	520
1	Formation Density Log	4196	520
1	Borehole Compensated Sonic Log	4196	520

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
CONSERVATION ENGINEER
FEB 15 1974
YELLOWKNIFE, N.W.T.
NORTHERN ECONOMIC DEVELOPMENT BRANCH

52-90-2 (7-71)

CEMENTING RECORD (Plug, Squeeze, etc.) CIMENTATION (Bouchon, sous pression, etc.)			
Date	From – de	To – à	Remarks – Remarques
1973			
Oct. 19	4199	4100	66 sax + 2% $CaCl_2$
Oct. 20	2890	2790	35 sax +3% $CaCl_2$ Felt @ 2785'
Oct. 20	570	470	41 sax + 3% $CaCl_2$ Felt @ 475'
Oct. 20	Surface		5 sax

PERFORATING RECORD (Bullet, Jet) PERFORATION (à balles, à jet)			
Date	From de	To – à	Remarks - Remarques

SERVICING RECORD (Acidizing, Fracing, etc.) ENTRETIEN (acidification, fracturation, etc.)			
Date	From – de	To – à	Remarks – Remarques

DRILL STEM TESTS – ESSAIS AUX TIGES

No. – N°	Date 1973	Formation	From – de	To – à	V.O. Mins. Vanne ouverte (minutes)	I.S.I. Mins. Première obturation (minutes)	F.S.I. Mins. Obturation définitive (minutes)	I.S.I.B.H.P. Pression de fond à la 1re obturation	F.S.I.B.H.P. Pression de fond à l'obturation définitive	I.F.B.H.P. Pression defond au jaillissement	F.F.B.H.P. Pression de fond à l'écoulement définitif	L.H.P. Pression hydrostatique de début	F.H.P. Pression hydrostatique définitif	Remarks – Remarques
1	Sept.25	Top of Little Bear	1121	1155	60	30	90	315	304	95	304	525	515	Rec. 600' Fresh Water
2	Sept.28	Basal Little Bear	1877	1910	60	30	90	671	650	50	346	879	889	Rec. 775' Fresh Water
3	Oct. 2	Ronning	2853	2895	90	30	90	1172	1161	34	228	1349	1338	Rec. 30' Mud, 471' Salt Water
4	Oct. 19	Ronning	3350	3430	60	60	90	1396	1394	154	621	1841	1810	Rec. 180' Mud,960' Salt Water
								FIELD FIGURES						

ANALYSIS – ANALYSE

Lab. No. N° de laboratoire	Sample Echantillon	From – de	To – à	Source	Remarks – Remarques
7021-31523	1	1155	1121	DST #1	
7021-31523	2	1910	1877	DST #2	
7021-21523	3	2895	2853	DST #3	
E73-2964	1	3350	3430	DST #4	

PRESENT STATUS OF WELL ETAT ACTUEL DU PUITS

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

Company Société: WESTERN DECALTA PETROLEUM LIMITED

Signed by Signé par: [signature]

Title Titre: VICE PRESIDENT EXPLORATION

Date: February 11, 1974

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

Présenter les formules remplies à l'ingénieur en conservation du dis

File No.
Drilling Authority No. 709

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

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

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

Name and number of well DECALTA DOME LRI ET AL KEELE N-62

Location: Unit N Section 62 Grid 64-30-124-45

Latitude 64°21'48"N Longitude 124°57'12"W

Unique Well Identifier ~~[illegible]~~ 300N626430124450

Universal Well Location Reference Lat. 64.36333°N. Long. 124.95333°W

Permit No. 5423 Lease No. -

Total Petroleum (North America) Lt
(Permittee, Licensee, Lessee)

Date of commencement of proposed program October 19, 1973.

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at NIL

Gas at NIL

Water at 1111 - 1155, 1877 - 1910, 2853 - 2895, 3350 - 3430

Total Depth 4199' Date of last operations October 21, 1973 (Rig Release)

Present condition of well Plugged and Abandoned

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 10-3/4" Conductor Pipe	36.5#	52'	52'	-	Nil
2. 7"	20#	16 jts	523.7'	135 sax construction + 2% $CaCl_2$	Plug in place @ 5:15 a.m.
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	4199 - 4100	Saline River	66 sax + 2%	
2	2890 - 2790	Ronning	35 sax + 3%	Felt @ 2785'
3	470 - 570	Bottom of Surface Casing	41 sax + 3%	Felt @ 475'
				Welded on name plate.

The following logs have been run BHCS, DIL, FD

Other operations proposed Nil

Operations to be carried out by Guthrie McLaren Contractor Licence No. 0989

Address 14630 - 119 Avenue Address Edmonton, Alberta

Responsible Agent in field J. Ontko

Dated at Calgary this 22 Day of October 19 73

Signed by [signature] Company Western Decalta Petroleum Limited

Title Vice President Exploration Operator's Exploratory Licence No. 2255

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

(For OIL AND MINERAL DIVISION use only)

APPROVAL

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

Confirming oral approval given October 19, 1973.

Dated November 9, 19 73

[signature]
Oil Conservation Engineer

IAND 52-90 (3) (2-69)

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

Drilling Authority No. 709

Project No.

File No.

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
CONSERVATION ENGINEER
SEP 13 1973
YELLOWKNIFE, N.W.T.

Application for a Drilling Authority

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

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

Name and number of well: DECALTA DOME LRI ET AL KEELE N-62

Location: Unit: N Section: 62 Grid: 64-30-124-45

Latitude: 64° 21' 48" N Longitude: 124° 57' 12" W

Unique Well Identifier: 300N626430124450

Universal Well Location Reference: Lat. 64.36333° N. Long. 124.95333° W.

Elevation: Ground: 732 K.B.: 742 feet above sea-level.

Well is expected to produce from: Ronning formation at a depth of about: 4200' feet. Expected total final depth: 4200'

Area assigned to well: Exploratory

(for Oil Conservation Engineer's use only)

Permit No.: 5423 Lease No.: - Acreage: 55,344

Permittee, licensee, or lessee: Total Petroleum (North American) Ltd.

Exploratory Licence No.: 2035

Surface owned by Crown or: Crown

(If alienated submit name and address of owner and occupant.)

Petroleum and natural-gas rights owned by: Crown

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. 10-3/4"	32.75	H-40	New	100	100
2. 7"	20	J-55	New	500	200
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment:
Hydril and Double-gate Shaffer 6" - 900 series

Well will be drilled with Rotary Rig No. 7H by Guthrie McLaren Drilling Limited
(Drilling Contractor or company)

14630-119th Ave., Edmonton, Alberta T5L 2P2

Responsible agent of applicant:— Contractor's Business Licence No. 10920

At well: Guthrie Toolpusher At registered office: W.G. Tyler

Address: - Address: 630-6th Ave. S.W., Calgary, Alberta T2P 0T2

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

Dated at: Calgary, Alberta, this 29 day of August 19 73

Signed by: [signature] Company: Western Decalta Petroleum Limited

Title: Chief Engineer Operator's Licence No. 2255

(For Oil and Mineral Division use only)

APPROVED

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

The Conditions of Approval that are attached will affect your operations. Please read and post these Conditions at the drilling site.

Dated: September 17, 19 73

[signature] Oil Conservation Engineer

Forms to be submitted to Oil Conservation Engineer, Department of Indian Affairs and Northern Development, Calgary, Alberta.

IAND 52-90-1 (3-69)

TO BE ATTACHED TO AND MADE A PART OF DRILLING AUTHORITY NO. 709

FOR Decalta Dome LRI et al Keele N-62 APPROVED Sept. 17, 1973.

CONDITIONS OF APPROVAL:

1. Copies of this Drilling Authority or Amendments to a Drilling Authority shall be exhibited at the drilling rig in both the Doghouse and the Drilling Foreman's office between spud and rig release dates.

2. The Company shall submit to this office, on Tuesday of each week/daily, the latest reports received on the progress of the well.

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

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

5. Approval must be obtained from the District Conservation Engineer to run any casing or liners not approved on the Drilling Authority.

6. All shows of oil and/or gas, and water flows, or any unusual events shall be reported to the District Conservation Engineer immediately.

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

8. Two field print copies of all well logs and three copies of the core analyses and fluid analyses must be forwarded to the District Conservation Engineer as soon as they are available.

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

10. The District Conservation Engineer must be notified at least 24 hours before spudding the well.

11. Permission to drill beyond the approved final total depth must be obtained from the District Conservation Engineer.

B Wood
for GE Blue.

GEOLOGICAL PROGNOSIS

DECALTA DOME LRI ET AL KEELE O-62

64° 21' 48" N 124° 57' 12" W

Unit O Sec. 62 Grid 64 30 - 124 45

N.W.T. PERMIT 5423

S.P. 46 Line K

Ground Elevation 732' K.B. 745'±

Spud in Cretaceous	Depth	Elevation
Sans Sault	2900'	-2155'
Ronning	2980'	-2235'
Total Depth	4200'	-3355'

Samples

Ten foot samples will be caught from grass roots to T.D.

One set of washed samples will be put in vials at the wellsite.

The remainder of the sample will be forwarded to the Geological Survey of Canada.

Testing

All significant porosity will be evaluated. Water samples will be put in metal containers for subsequent benzene analysis.

Coring

If significant hydrocarbons are recovered on a test, a program of coring and testing will be commenced.

Logging

The logging program will be decided at the appropriate time, but will consist of at least IES AND BHCS logs.

Reports

All reports will be sent to Decalta's Calgary office for distribution. This is a 'TIGHT HOLE', all reports in code.

DRILLING PROGRAM ON DECALTA DOME LRI ET AL KEELE O-62

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
CONSERVATION ENGINEER
SEP 13 1973
YELLOWKNIFE, N.W.T.
NORTHERN ECONOMIC DEVELOPMENT BRANCH

Elevations: G.L. 732'
K.B. 742'

1. Drill sufficient 13-3/8" hole with dry auger to set 10-3/4", 32.75# conductor casing into a consolidated formation below perma-frost. Cement with sufficient perma-frost cement to obtain returns to the surface.

2. After waiting on cement, drill out below 10-3/4" casing with 9" bit, test cement job on conductor and continue drilling 9" hole.

3. After drilling 500 feet of 9" hole, run sufficient 7", 20# casing to land on bottom. Cement with sufficient cement (3% $CaCl_2$) to obtain surface returns.

4. In 8 hours, slack off casing and install casing bowl and blowout preventers. Prior to drilling out in 12 hours, test casing and blowout preventers to 1000 psi and log results.

5. After drilling out shoe with 6¼" bit, test surface casing cement job to 150 psi for 15 mins. If test satisfactory continue drilling 6¼" hole with water until mud-up required by hole conditions.

6. Ten foot samples will be caught and any zones of interest will be tested as they are penetrated.

7. After penetrating all zones down to 4200' (-3355), the hole will be logged and all additional zones of interest tested.

8. After evaluating the hole, further completion details will be approved out of the Calgary office of Western Decalta Petroleum Limited.

SURVEYS AND TALLIES

1. Take Totco surveys every 100' on surface hole. Maximum deviation will be one degree.

2. Surveys to be taken every 500' below the shoe in accordance with Government regulations. Maximum deviation is 3 degrees. Deviation in excess of 3 degrees will be reported to a Western Decalta representative.

3. Double tallies to be taken prior to logging and recorded in tour book.

LOGGING PROGRAM

A. IES

(2" - 100') from total depth to surface casing.
(5" - 100') from total depth to surface casing.

B. BHCS/Gamma Ray/Caliper

(2" - 100') from total depth to surface casing.
(5" - 100') from total depth to surface casing.

C. Additional logs may be run at this time if required by geological department, i.e., dipmeter.

DRILLING MUD

Hole will be drilled with water until hole conditions require mud-up. A Gel/Chemical mud system will be used. Anhydrite will be treated out with soda ash.

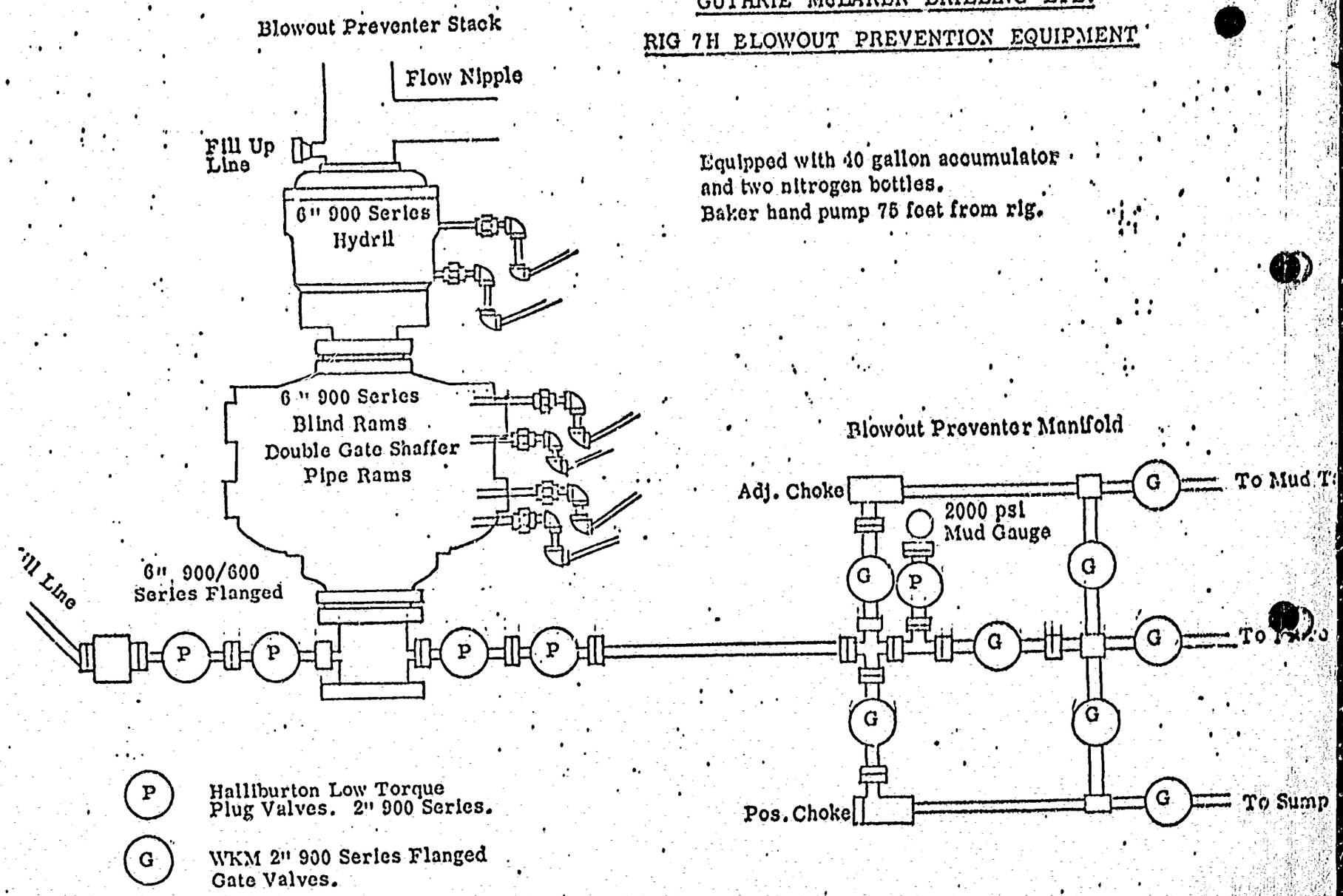
W.G. Tyler
Chief Engineer

11 September 1973

GUTHRIE McLAREN DRILLING LTD.

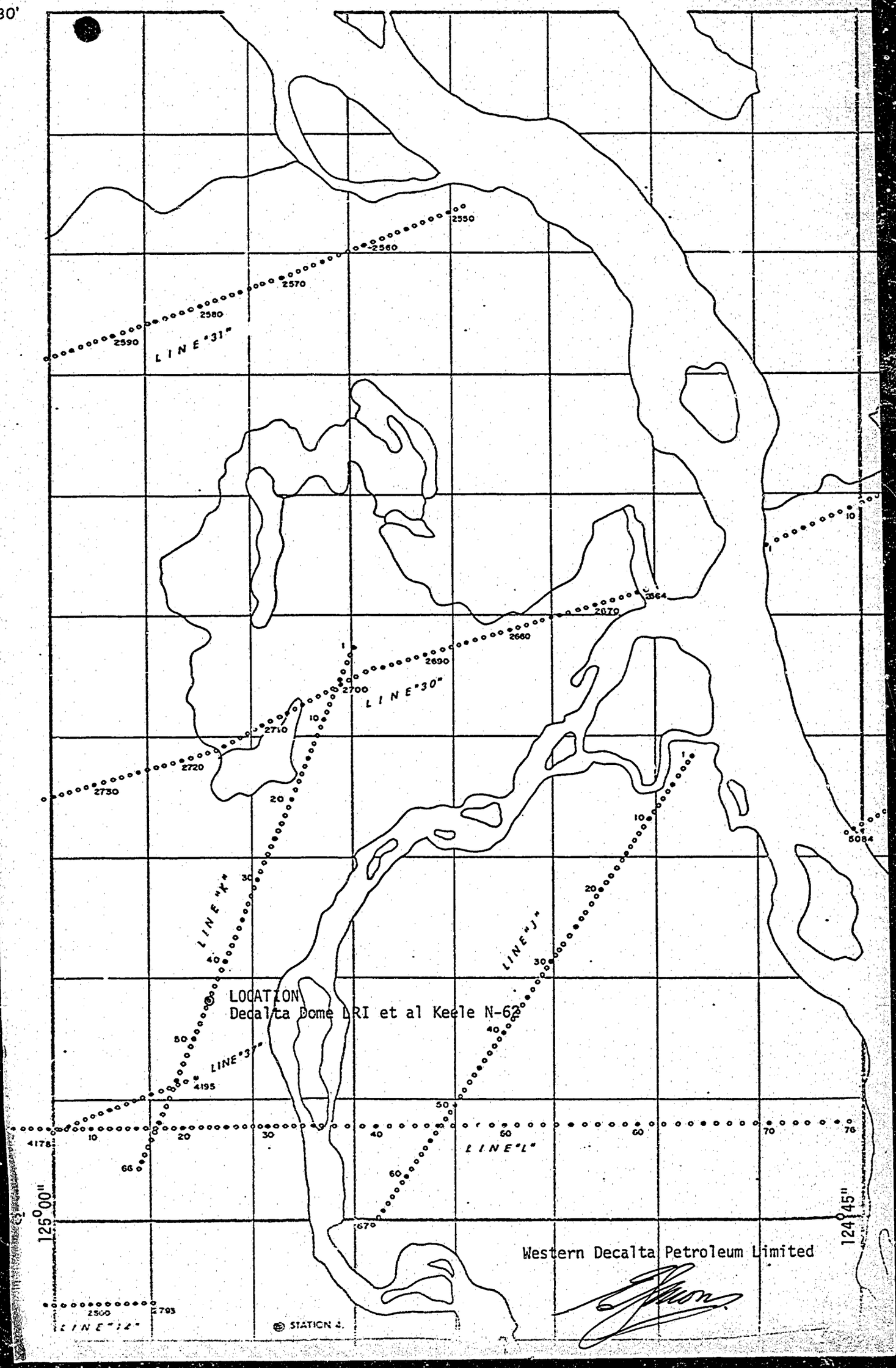
RIG 7H BLOWOUT PREVENTION EQUIPMENT

Equipped with 40 gallon accumulator and two nitrogen bottles.
Baker hand pump 75 feet from rig.



P — Halliburton Low Torque Plug Valves. 2" 900 Series.

G — WKM 2" 900 Series Flanged Gate Valves.


125°00'
124°45'
°30'
LINE "31"
LINE "30"
LINE "K"
LINE "J"
LINE "3"
LINE "L"
LINE "14"
LOCATION
Decalta Dome LRI et al Keele N-62
STATION 4.
125°00"
124°45"
Western Decalta Petroleum Limited

019-11-04-049

DECALTA DOME LRI ET AL KEELE N-62

64°21'48"N. 124°57'12"W

NORTHWEST TERRITORIES

N-7940-1-790

019-11-04-049

WELL HISTORY REPORT

on

DECALTA DOME LRI et al KEELE N-62

64 deg.21'48"N 124 deg.57'12"W

NORTHWEST TERRITORIES

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
CONSERVATION ENGINEER
FEB 15 1974
YELLOWKNIFE, N.W.T.
NORTHERN ECONOMIC DEVELOPMENT BRANCH

Submitted by:
John K. Ontko
Professional Geologist

TABLE OF CONTENTS

SUMMARY OF PERTINENT DATA

SUMMARY OF SUB SURFACE DATA

SAMPLE DESCRIPTION

ENGINEERING SUMMARY
- (a) Bit Record
- (b) Mud Record
- (c) Daily Progress Report
- (d) Deviation Record
- (f) Drill Stem Tests
- (e) Abandonment Record

SUMMARY OF PERTINENT WELL DATA

NAME OF WELL:	Decalta Dome LRI et al Keele N-52
PERMITTEE:	Total Petroleum (North America) Ltd.
OPERATOR:	Western Decalta Petroleum Limited 630 - 6th Avenue S.W., Calgary, Alberta.
LOCATION:	Lat. 64 deg., 21' 48"N. Long. 124 deg., 57' 12"W. Unit N Sec. 62 Grid 64-30; 124-45 Shot Point 46 of Line K.
PERMIT:	5423
DRILLING CONTRACTOR:	Guthrie McLaren Drilling Ltd., Rig#7 Helicopter
DRILLING AUTHORITY:	709 Issued Sept. 17th, 1973.
CLASSIFICATION:	New Field Wildcat
ELEVATION:	729' ground, 740' K.B.
SPUDDED:	8:00 AM, Sept. 20th, 1973
COMPLETED DRILLING:	8:00 AM, Oct. 14th, 1973
TOTAL DEPTH:	4199 - driller 4196 - logger
WELL STATUS:	D & A
RIG RELEASE:	12:01 AM, Oct. 21st, 1973
HOLE SIZES:	13-3/8" 0 - 60' 9" 60 - 521' 6¼" 521' - T.D.
CASING:	Conductor - 62' - 10-3/4" 32.75# w/30 sax permafrost +2% $CaCl_2$ Surface - 523.7' - 7" 20# w/135 sax construction + 2% $CaCl_2$
RIG MOVE & SUPPLY:	Okanagan Helicopters Ltd.
NO. OF DST's:	4
NO. OF CORES:	0
LOGS:	Schlumberger
TOOLPUSHERS:	R. Rutherford; A. Field
WELLSITE SUPERVISION:	J. Ontko
HEADQUARTER SUPERVISORS:	A. Patterson & K. Bassaraba (geology) T. Tyler (engineering)
DISTRIBUTION OF DATA:	Well cuttings (1 set bags) - Institute of Petroleum & Sedimentary Geology-Calgary Well cuttings (3 set bottles + 1 envelope) Decalta.

SURFACE CASING TALLY

Ran 16 joints 7" 20# Simotimo KS casing, measured 523.70' K.B. with float shoe, collar, 3 scratchers, 2 centralizers. Cemented with 135 sax construction + 2% $CaCl_2$.

Plug in place 5:15 AM, with 800# and good returns. Held pressure on same as float did not hold.

Joint		
1	30.43'	
2	32.00	
3	33.21	
4	32.75	
5	33.70	
6	30.75	
7	33.40	
8	33.70	
9	33.32	
10	33.70	
11	33.62	
12	32.53	
13	32.70	
14	31.34	
15	33.70	
16	30.72	
	521.57'	
	.95	shoe
	1.18	float
TOTAL	523.70'	

SUMMARY OF PERTINENT WELL DATA CONT'D.

DISTRIBUTION OF DATA: Schlumberger Logs (Field and original)
Decalta
Geolograph - 1 Decalta & 1 Guthrie
McLaren
Well Reports - Decalta (all) for
distribution

SUMMARY OF SUB-SURFACE DATA

K.B. 740'

FORMATION	LOG DEPTH	ELEVATION
Perma Frost		
CRETACEOUS		
Top of Little Bear	1131	- 391
Top of Basal Little Bear Sand Unit	1830	-1090
Slater River	2128	-1388
Sans Sault	2783	-2043
Ronning	2840	-2100
Saline River	3530	-2790

Total Depth - 4199 - driller
4196 - logger

S A M P L E D E S C R I P T I O N

SAMPLE DESCRIPTIONS

10' interval (lagged) Start at 60' K.B.

60 - 70	Shale - dark grey, soft, blocky to fissile in part. Occasionally micro-micaceous.
80	Shale - as above, with a chitinous fish tooth observed.
90 - 100	Shale as above. Poor samples.
110 - 210	Shale as above. Improvement in sample quality. Cuttings difficult to wash, because when wet it becomes a goo.
220	Shale - as above with occasional chip of light brown mudstone.
230	Shale as above.
240	Shale - as above, one chip of a black, rounded chert pebble (cavings?)
250 - 320	Shale as above.
330	Shale - as above, with a chip of a rounded, black , chert pebble present.
340 - 50	Shale - as above with a trace amount of dark grey to black chert fragments.
360 - 70	Shale - as above with considerable very fine to fine grained, loose, angular, sand grains.
380 - 400	Shale - as before with very occasional pyrite fragment.
410 - 20	Shale - as above, with pyrite more easily noticeable. Occasional black, rounded, chert pebble or fragment there of.
430 - 40	as above with occasional chip of ironstone.
450 - 70	with considerable, very fine sized, loose quartz sand grains.
480 - 520	Shale as above with occasional trace of pyrite and black chert.
	Surface casing run at 521'.
530	Shale - as above with trace of light purple sederite with coarse, angular, quartz grain inclusions.

540 - 550	Shale as above with trace of light grey, slightly salt and peppered, very fine grained, sub-angular, sandstone, with occasional solitary, angular, coarse quartz grains and pyrite fragment.
570 - 80	as above with shale becoming light brown and silty in part.
590	as above, becoming more arenaceous.
600	as above with trace of solitary, coarse, sub-rounded, coarse vari-colored chert and quartz grains (appear cemented in a light purple siderite.)
610	Shale - grey to brown grey, blocky, silty, slightly carbonaceous in part, with occasional pyrite and solitary quartz and/or chert grains. Trace to minor amount of grey, argillaceous, very fine grained sandstone.
640 - 60	as above with argillaceous sandstone varying from common (more obvious) to a trace.
670 - 700	as above with shale becoming more brownish in part. Argillaceous sandstone of above is common to abundant (10% - 40%.) Occasional fragment of pyrite remains present, however, the chert and quartz grains have all but disappeared.
710 - 30	as above with occasional chip of brown mudstone. The argillaceous sandstone has become minor to trace in amount.
740 - 50	with a few chips of greyish-green shale. Decrease in argillaceous sandstone to nil.
760 - 820	Shale - predominantly grey, blocky, silty, with minor grey, argillaceous, very fine grained sandstone. Occasional pyrite fragment present.
830	decrease in pyrite and chert to trace.

850	Shale - grey to dark grey, blocky, silty, grading to sandy in part, with minor to trace of grey, argillaceous, very fine grained sandstone. Occasional pyrite and few chips of green marl.
860 - 910	as above with shale becoming less arenaceous to only slightly. Pyrite and green shale (marl) remain as occasional.
920	as above with abundant dark grey to black, blocky shale, increase in pyrite. Trace of rusty iron (stone?)
930 - 50	Shale - dark grey in part silty, brownish grey, blocky, with minor to trace amount of pale green shale. Trace of grey, argillaceous, in part kaolinitic sandstone. Occasional pyrite and chert pebble (grain) present. (Note: shale is soft when wet, but not bentonitic.)
960	as above with decrease of brown grey shale to minor with trace of darker green shale.
970 - 1020	as above, dark grey and brownish grey shale. with occasional chip of green shale and pyrite fragment.
1030 - 40	as above with slightly brownish grey shale predominant.
1050 - 70	dark grey shale as above predominant.
1080	as above with occasional coarse, rounded, black chert grain. A foram noticed.
1090 - 1110	Shale as above (occasional green shale chip remains present.)
1120	as above with few angular chips of dark grey to black chert, trace of grey, argillaceous, very fine grained, slightly salt and peppered sandstone. Pyrite obvious.

1130	Grit - vari-colored chert, angular to sub-roundness of chips exhibited. Probably a pebble conglomerate in a shale matrix as no sandstone present.
1140	Grit - loose, coarse, vari-colored chert grains as above, in a light grey, fine grained, poorly sorted, sub-rounded to sub-angular, slightly salt and peppered sandstone. Poor to fair porosity. No oil stain or fluorescence.
1150	Sandstone - as above with minor amount of vari-colored chert. Poor to good porosity. Occasional chip appears stained (iron?) No fluorescence or cut.
1155 circu-lated	Sandstone as above, very slightly glauconitic. Porosity mostly poor, but grading to good. No stain or fluorescence.
1160	becoming argillaceous with minor kaolinite matrix, vari-colored, sub-rounded chert pebbles common. Porosity poor, occasionally fair.
1170 - 1200	with minor amount to trace of grey shale. Decrease in chert to minor. Occasional pyrite.
1210 - 20	decrease in sandstone becoming more argillaceous and finer textured. Abundant sub-rounded, vari-colored chert (grit) with black predominant. Much grey, silty shale present.
1230	Sandstone - grey, very argillaceous, silty to very fine grained, occasionally fine grained, contains trace of black flecks and glauconite, occasional pyrite. Porosity poor and spotty. Chert decreasing to minor.
1240	as above with minor amount of grey shale.
1250	increase in medium and dark grey shale to abundant. Trace of pale green shale and light grey marl with quartz grain inclusions.

1260	becoming fine grained in part with poor to fair porosity. Chert abundant. Decrease in above shales.
1270 - 80	Sandstone - grey, friable, salt and peppered, sub-angular, fair to poorly sorted, decrease in grit sized chert to minor, shale minor in amount.
1290 - 1300	Sandstone - grey, fine grained, fair to good sorting, sub-angular, salt and peppered, less friable than above, kaolinitic matrix, loose angular quartz and vari-colored chert grains common. Good porosity, no stain.
1310	grading to finer texture and becoming argillaceous. Grey shale common. Trace of coarse, chert and quartz grains.
1320	predominantly argillaceous sandstone and shale as above.
1330 - 50	Shale - grey, silty to sandy in part, with grey argillaceous sandstone of above common.
1360	with light grey, very fine grained, slightly black flecked, argillaceous sandstone abundant. Occasional rusty shale chip present.
1370	Sandstone - as above with above shale common. Trace of light brown (iron stained) sandstone and shale.
1380 - 90	argillaceous, silty to very fine grained sandstone as above.
1400 - 10	as above, with minor amount of grey shale.
1420	as above, shale becoming common, light brown mudstone obvious.
1430	as above, grading to predominantly shale.
1440	Shale - grey, blocky with lighter grey, silty to sandy shale abundant.
1450	as above, decrease in silty, sandy shale (very argillaceous sandstone) to common. Less than 25%.

1460	predominantly argillaceous sandstone of above.
1470 - 80	Sandstone - very fine grained to silty, argillaceous (as above) with minor amount of above shale.
1490	as above with shale decreasing to a trace.
1500 - 10	grading to primarily an argillaceous siltstone.
1520 - 30	interbedded with dark grey, blocky shale which is abundant.
1540 - 50	Shale - grey, blocky, silty in part.
1560	increase in grey, argillaceous siltstone (very fine grained sandstone common - app.35%.)
1570	decrease in siltstone to minor.
1580	as above with trace of light brown mudstone with occasional rusty ironstone chip.
1590 - 1600	witj increase in grey, argillaceous siltstone (very fine grained sandstone) to common - 30%.
1610 - 50	Shale as above with very minor siltstone content. Less than 15%. Occasional chip of brown mudstone present.
1660	Sandstone - grey, argillaceous, very fine grained. (Same as above.)
1670	grading to a very argillaceous siltstone.
1680	Shale - grey, blocky, with varying minor amounts of grey, argillaceous siltstone and very fine grained sandstone.
1690 - 1700	Sandstone and siltstone of above predominant.
1710 - 50	predominantly shaly with siltstone (very fine grained sandstone) as above.
1760	as above with light grey, silty shale common.
1770 - 90	Shale - dark grey, blocky, silty in part. Same as above.
1800	with minor amount of lighter grey, argillaceous siltstone (very fine grained sandstone.)
1810	Sandstone - as above, very argillaceous, very fine grained, grading to siltstone in part. Shale minor in amount. Trace brown ironstone.

1820	grading to a silty shale.
1830 - 40	Shale - grey, blocky, silty to sandy.
1850	with few coarse, sub-rounded, vari-colored chert pebbles.
1860	as above, with minor amount of light grey, slightly salt and peppered and micaceous, slightly kaolinitic, fine grained, sub-angular sandstone with vari-colored, coarse sub-rounded chert grains (grit) obvious. Few chips of cement are also present, suggesting this is a poor sample, as some of the cuttings may have been in a mud tank for awhile.
1870	as above with only a trace of above sandstone, chert and cement.
1880	with grey, salt and peppered, fine to medium grained, poorly sorted sandstone. Poor to good porosity. No stain or fluorescence.
1890	Sandstone - as above with a spotty kaolinite matrix, and occasional mica flake. Porosity is poor to good. No stain etc.
1900	becoming argillaceous in part with grey, blocky shale common.
1910	grading to an argillaceous, very fine grained, tight sandstone.
1920 - 70	Shale and Sandstone - grey, blocky, silty with varying amounts of grey, argillaceous, very fine to fine grained sandstone (from minor to abundant.)
1980 - 90	as above. Occasional chip of aragonite columns.
2000	with minor amount of grey, slightly argillaceous, salt and peppered, very fine to fine sized, angular to sub-angular, slightly porous sandstone.

2010 - 20	Sandstone - grey, fine to medium sized, angular to sub-angular, poorly sorted, slightly salt and peppered, in part ferruginous stained, good to excellent porosity. The quartz is clear, opaque to translucent types. Occasional loose, coarse, sub-angular to sub-rounded opaque quartz grain. Much grey, blocky shale of above present.
2030	Sandstone - as above with good to excellent porosity. Some iron stain.
2040 - 60	as above with some kaolinite matrix. Porosity varies from poor to excellent. Some disseminated pyrite.
2070 - 90	Sandstone - as above becoming fine grained, angular to sub-angular, fair to good sorting. Good to excellent porosity.
2100 - 30	as above, decrease in porosity to poor to fair. Occasional chip of brown mudstone present.
2140	grading to very fine grained, argillaceous, tight. Minor amount of grey shale.
2150	Shale - grey, blocky, silty in part with minor amount of grey, argillaceous, very fine grained sandstone of above.
2160	Sandstone, Siltstone and Shale - as above with grey, argillaceous, very fine grained sandstone and siltstone abundant (prevalent.)
2170 - 80	Shale - as above predominates with abundant siltstone and sandstone of above.
2190	Shale - as above with minor dark grey, blocky to fissile in part shale.
2200 - 90	Shale - as above, dark grey, blocky to slightly fissile.
2300 - 20	as above with a very minor amount of grey siltstone, grading in part to sandstone.
2300 - 2430	Shale - as above, with occasional trace of argillaceous siltstone and/or sandstone.

2440 - 60	as above with minor amount of dark grey shale with a slight metallic lustre.
2470 - 80	Shale - as above, dark grey, blocky, fissile in part. Occasional trace of siltstone and/or sandstone.
2490	Shale - as above with minor grey, argillaceous very fine grained sandstone grading to siltstone.
2500 - 10	as above with decrease in amount of arenaceous content. Few pale green, and brown shale chips.
2520	as above, shale looks darker as it was burned when being dried.
2530	with a few chips of light brown, and greenish brown chert.
2540	Shale - as above, dark grey, blocky to fissile in part.
2550	as above, with minor grey, argillaceous, very fine grained sandstone and siltstone. Occasional chip of yellow. grey, and black chert (angular) present. Few pyrite grains are also occasionally present.
2560	as above. No chert.
2570 - 90	as above with decrease in arenaceous content. Occasional chip of pale green shale remains present.
2600 - 20	as above with occasional chip of chert as before.
2630	Shale - as above with minor amount of darker grey shale.
2640 - 50	Shale - as before, grey to dark grey, blocky to slightly fissile, with trace of siltstone grading to argillaceous, very fine grained sandstone. Occasional chip of chert continues to be present.
2660	as above with minor amount of brown, blocky shale.

2670 - 90	Shale - as above, grey, blocky, and dark grey, blocky to fissile in part.
2700 - 20	Shale - as above with hard, brown, blocky shale minor to a trace.
2730	becoming hard, dark brown to black when wet (brittle.)
2740 - 30	predominantly dark brown to black, brittle as above. Fish remains occasionally obvious.
2750	as above with trace of pale grey green shale.
2760	with minor black (dull steel grey lustre) shale. Trace of argillaceous quartzite sandstone. Occasional chert (quartzite) chip and pyrite fragment.
2770	as above with minor grey, argillaceous, quartzitic sandstone.
2780	as above with few chips of light grey, fine grained, poorly sorted, angular to sub-angular, slightly salt and peppered, glauconitic sandstone with kaolinite cement. Tight.
2790	sandstone of above more common, with slight trace of patchy, poor to fair inter-granular porosity. No stain or fluorescence. (Possibly 1 to 2 feet of porosity.)
2800	Siltstone - grey, quartzitic with abundant grey, blocky shale.
2810	as above with minor amount of light grey, fine grained, glauconitic, and in part micaceous sandstone (as before.) Porosity poor and patchy.
2820	Siltstone - as above, decrease in sandstone to a few chips only.
2830	Sandstone - as above, light grey to white, very fine grained, fair sorting, micaceous giving rock a salt and peppered appearance, glauconitic, angular to sub-angular, quartzose. Usually well packed, quartzite looking, on occasion has lighter color with kaolinite cement. (This type may have spotty, poor porosity.)

2840	Limestone - white, chalky and light grey, dense, micro-crystalline.
2850	as above with abundant light grey brown, dense, micro-crystalline dolomite.
2860	Dolomite - light brown, micro to very finely crystalline in part, fossiliferous with considerable calcite infilled vugs. Occasional trace of poor pin-point and inter-crystalline porosity. No stain or cut.
2870	as above with poor pin-point porosity.
2880 - 90	Dolomite - light brown, crypto to micro to occasionally very finely crystalline, dense, tight, slightly argillaceous with minor amount of light grey to brownish grey, crypto and white, soft, chalky limestone.
2900 - 10	as above with dolomite becoming predominantly crypto-crystalline, and slightly limy. Chalky limestone present in minor amount.
2920 - 40	as above with limestone common. Partly fossiliferous. Occasional clear calcite chip present.
2980 - 3000	Dolomite - as above, occasionally very fine crystalline with trace of inter-crystalline porosity (appears to be fracture or fossil cavity lining), ibumen is occasionally present along in these contacts. Some fluorescence which is limited to calcite, no cut. (Note: considerable shale with some sandstone present caused by high R.P.M. of drill pipe to correct deviation.)
3010 - 20	Dolomite - light brown, crypto to micro-crystalline, dense, slightly limy with minor chalky limestone.
3030 - 40	with minor amount of sandy dolomite, containing sub-rounded, clear quartz grain inclusions and occasional glauconite.

3050 - 60	sandy dolomite of above is abundant with trace of greenish shale and greenish grey, very fine to fine grained quartz sandstone. (Samples have considerable shale cavings caused by high R.P.M. of drill pipe.)
3070	as above with much dark to black, fissile, white speckled shale, considerable other recognized lithology from up-hole present.
3080	as above, light brown, sandy dolomite with minor light grey, dolic sandstone. Trace of light grey marl, which is occasionally micaceous (muscovite), pyrite is obvious.
3090	Limestone and sandstone - Limestone is light grey, occasionally stained reddish, chalky to very finely crystalline in part silty to very sandy. Tight (40%.) Sandstone - predominantly reddish brown or rust stained, in part light grey to greenish, calcareous to feldspathic, silty to fine grained, sub-rounded, predominantly clear quartz, poorly sorted. (40%.) Light brown, light grey, dense, micro-crystalline dolomite common. (A pot pourri.)
3100	a mixture as above, with sandstone prevalent 50+%.
3110	as above with decrease in reddish stain, above carbonates are abundant to prevalent.
3120	Limestone - light grey brown, to light brown, dense, micro-crystalline, dolomitic, grading to dolomite. White to light grey, soft, chalky limestone is common.
3130 - 40	Red beds - reddish brown, slightly calcareous shale and siltstones interbedded with light brown to light grey limestone as above, and trace of light grey and greenish siltstone to very fine grained sandstone; and marlstone.
3150	as above with light brownish grey, dense, micro-crystalline dolomite abundant.

3160	as above with dolomite predominant.
3170 - 80	decrease in dolomite to minor, light grey to greenish grey, calcareous siltstone to very fine grained sandstone is becoming more obvious to minor in amount. Reddish sandstone and siltstone and shale prevalent.
3190	predominantly light grey, crypto to micro-crystalline dolomite.
3200	Dolomite - as above, white to light grey, soft to dense, crypto to micro-crystalline, very limy in part with abundant reddish (rusty to pinkish), sandy, silty, argillaceous, dolomite grading to dolomitic, silty shale - app.35%.
3210	Dolomite - becoming predominantly light grey brown, hard, crypto to micro-crystalline; with decrease in sandy, silty, reddish rust colored portion to less than 20%. Trace of yellow, soft limestone and dull greenish grey, crypto-crystalline, limy dolomite.
3220	as above, becoming medium brown, hard, dense, micro-crystalline dolomite, abundantly stained pinkish, rusty and maroon color. Occasional chip of translucent calcite present.
3240	Dolomite - as above, predominantly medium brown, silty, abundant red stained dolomitic siltstone and silty dolomite.
50	increase in reddish brown, grey, and yellowish dolomitic siltstone and very silty dolomite to abundant (40%). Minor amount grading to very fine grained quartzose dolomitic sandstone.
3260	as above with abundant light brown to grey to red and yellow stained, dolomitic to very dolomitic siltstone grading to very fine grained sandstone in part. Silty dolomite common, as well as reddish stained, silty shale.

3270 - 30 Dolomite - as above, vari-colored, light grey to light brown, abundant reddish and minor yellowish, silty and/or sandy and/or argillaceous dolomite. Floating, rounded to subrounded, clear quartz is often present. Trace of grey marl and occasional pyrite fragment. Dolomititic siltstone and sandstone often present in minor amount. Reddish shale common.

3290 - 3350 Shale - predominantly blocky, reddish brown to maroon, with minor to trace amount of brown, slightly dolomitic with minor dolomite. Occasional chip of green shale present.

3360 increase in dolomite to predominant. Most prevalent color of the crypto to micro-crystalline dolomite is light brown to slightly yellowish brown. Decrease in reddish shale content is obvious.

Color change from reddish to grey.

3370 Dolomite - light grey brown, dense, cryptocrystalline with minor greenish grey to greyish green, waxy, blocky shale.

3380 as above with minor amount of yellowish brown to reddish brown shale similar to before. Trace amount of soft, chalky, variably stained limestone remains present.

3390 Dolomite - light grey to brownish grey, dense, micro to finely crystalline. Trace of pinpoint porosity. No stain or fluorescence or cut.

3400 Shale - blocky, grey to grey green, dolomitic with considerable grey, dense, dolomite and blocky, yellow to reddish brown dolomitic shale.

3410 Dolomite - slightly limy, grey, micro-crystalline to finely crystalline with occasional pinpoint vug. Occasional ostracod observed. Perhaps occasional large vug present as indicated by some coarser sized crystals at chip edge.

3420 - 30	slightly limy dolomite as above, micro to finely crystalline.
3440	as above with trace of reddish, at times yellowish dolomite and shale as before (cavings?)
3450	the reddish to pinkish, slightly silty dolomite is common.
3460	dolomite as above, grey, micro to very finely crystalline, stained in part yellow, red to pink. Tight.
3470	as above with minor amount of reddish brown, slightly dolomitic, and sandy shale. A few pieces of orange stained dolomite.
3480	as above with considerable yellow stain. (Note: sample burned while drying.)
3490	as above, yellow and reddish stain abundant, when dried becomes a bright reddish orange(a light brick red color.)
3500 - 10	as above yellow stain abundant. Trace of red dolomitic shale.
3520 - 30	with reddish brown, slightly dolomitic shale becoming abundant.
3540 - 50	as above, reddish shale abundant. Trace of medium grey shale and a few chips of greenish grey to green, waxy shale.
3560	Shale - reddish brown to maroon interbedded with green, waxy shale (minor amount), grey to grey brown (often yellow stained), micro-crystalline, slightly silty dolomite is common. Trace of siltstone and sandstone.
3570	as above, greyish green and green shale type very abundant. Dolomite present as trace only.
3580	as above, decrease in green shale to minor. Increase in grey shale, light grey brown dolomite and light grey to buff marl to common.
3590	Shale - decrease in reddish brown shale to minor. The grey shale is most prevalent, green shale minor and grey argillaceous, earthy dolomite and light grey marl is common.

3600	Shale - predominantly grey, blocky, slightly dolomitic with grey green and dark grey shale (cavings) common. Minor light grey, micro-crystalline dolomite and reddish shale is present. Trace of anhydrite.
3610	Shale - predominantly grey as above with minor grey green shale and light grey marl. Trace dolomite. Occasional anhydrite.
3620 - 40	increase in light grey and green shale as well as dolomite. Numerous loose, angular, coarse, clear quartz grains present. Minor light grey marl. Minor anhydrite present, as indicated by mud reaction.
3650	as above with green shale becoming common to abundant.
3660 - 80	as above, the occasional solitary, clear quartz appear to be crystals as well as grains. (Very little to no transport.) Apparently quartz is imbedded in light grey marl.
3690	as above with minor light grey, micro-crystalline dolomite.
3700 - 10	as above, predominantly shale, dark grey and green, fissile to blocky, waxy appearing in part.
3720 - 40	becoming predominantly grey to dark grey shale with green minor to common; with minor amount of light grey, slightly dolomitic shale with considerable angular, vari-sized (silt to coarse), clear quartz grain and crystal inclusions. Trace of hard, black, silicified shale.
3750 - 60	Shale - grey and dark grey, blocky, fissile in part with decrease in amount of green shale to very minor. Trace of hard, dark brown dolomite. (Probably nodules.)
3770 - 80	as above, dark brown, micro-crystalline dolomite increased to minor in amount.

3790 - 3800	as above with considerable white clacite. (A fractured zone?) Shale is very dark.
3810 - 20	Shale - as above, very dark grey to shiny black with abundant medium grey. Minor green shale. Trace of dolomite, occasional calcite fragment.
3830 - 60	decrease in dark grey to black shale to common (20%) with corresponding increase in medium grey colored shale to predominant. Green shale remains obvious. Trace dolomite and occasional chip of light grey marl.
3870 - 80	with less dark grey shale, greyish green, slightly fissile to blocky shale common.
3890 - 4000	Shale - as above with greyish green shale (in part waxy appearing) becoming abundant to prevalent. Habit is blocky becoming more fissile than above and slightly splintery in part. Light brown dolomite present as trace amount only.
4010	Shale - as above, greyish green, waxy in part, blocky, fissile to splintery, with minor dark grey and grey shale.
4020 - 4200	as above, predominantly fissile to splintery habit.
4200 T.D.	

E N G I N E E R I N G

BIT RECORD

Bit No.	Size	Type	Serial	Depth In	Total Feet	Total Hours	Remarks
1-S	9	YT1	E22	60	265	10½	1-1-1
2-S	6¼	S4	4699346	325			
1	6¼	S3	432960	520	409	13-3/4	4-2-1
2	6¼	M4N	442960	930	225	9½	3-3-1
3	6¼	M4N	433513	1155	278	12½	5-4-1
4	6¼	M4L	911937	1433	190	9½	5-2-1
5	6¼	S4	429701	1623	230	12-3/4	4-5-1
6	6¼	J33	VN265	1853	632	39-3/4	1-2-1
7	6¼	M4N	442895	2485	159	22	4-2-1
8	6¼	J33	VR823	2644	330	26¼	1-1-1
9	6¼	M4N	436437	2974	67	23¼	4-6-1
10	6¼	M4N	433511	3043	43	13	3-3-1
11	6¼	J33	VR824	3086	556	62-3/4	1-1-1
12	6¼	J33	VR514	3642	553	50½	Lost one cone.
13	6¼	M4N	442889		Reaming		

DAILY MUD RECORD

Date	Depth	Weight #/Gal.	Vis. Sec.	W.L.	PH	Gel	Caustic	Peltex	Sawdust	Soda Ash	CMC	Wt.Mat.
Sept.20	60											
21	420	8.8	39			25	100	100				
22	521	9	47									
23	W.O.C.											
24	777	8.5	28									
25	1155	8.8	51			20	50					
26	1380	8.8	33			17			24			
27	1673	8.7	38		10.5	32	200					
28	1910	8.7	48		9.0	64	200		25			
29	2158	8.8	40		9.5	40	100					
30	2458	8.8	36		9.0	45	50					
Oct. 1	2626	8.8	37		9.0	72	150		14			
2	2851	8.9	37		9.5	54	150					
3	2944	9.0	38		10	20	50			100		
4	3023	9.2	37			20				100		
5	3043	9.1	35		10.5	10						
6	Work on Sump - Shut down											
7	3065	9.1	38		10	26	50					
8	3086	9.3	35		10	12	50					
9	3186	9.1	36		9.5	20	100					
10	3589	9.2	35		10.0	10	50					

DAILY MUD RECORD CONT'D.

Date	Depth	Weight #/Gal.	Vis. Sec.	W.L.	PH	Gel	Caustic	Peltex	Sawdust	Soda Ash	CMC	Wt.Mat.
Oct. 11	3580	9.2	43		10	20	50	50				
12	3758	9.4	62		12		50	25		2500		
13	4018	9.3	49		12			400		400		
14	4195	9.4	63	12	12				50		100	
15	4195	9.3	106	8.0	12	22	100	200			150	
16		9.5	95	8.8	10							
17		10.2	142	8.8	12	25	100		250		100	110
18		10.8	255	5.4	10.5	8	100	100				25

DAILY PROGRESS REPORT

Date	Depth	Footage	Hrs. on Bottom	Bit Nos.	8:00 AM Temp. & Weather	Remarks
Sept. 21	420	360	10½	1S, 2S	30 deg. clear	mud rings
22	521	101	3-3/4	3S, 2S	30 deg. cloudy	Ran casing
23	521					Cut casing, welded on bowl w/difficulty
24	777	257	7¼	1	25 deg. cloudy	Pressured BOP's - OK, Drill out
25	1155	378	15¼	1, 2	20 deg. clear	Drill
26	1380	225	9-3/4	2, 3	30 deg. clear	Ran DST #1, drill.
27	1673	293	15-3/4	3, 4, 5	32 deg. clear	Drill.
28	1910	234	13½	5, 6	25 deg. clear.	Prepare to run DST #2.
29	2158	248	12	6	25 deg. cloudy	Ran DST #2, drill.
30	2485	327	19	6	30 deg. clear	Drill.
Oct. 1	2626	141	19½	7	20 deg. clear	Drill.
2	2851	225	19	7, 8	25 deg. clear	Drill.
3	2944	93	7¼	8	15 deg. clear	Run DST #3.
4	3023	79	18-3/4	8, 9	20 deg. clear	Try to correct deviation.
5	3043	20	8-3/4	9	25 deg. clear	Shut Down by Board, 5:00PM, Oct. 4/73.
6		Work on new sump				
7	3065	22	5½	10	20 deg. clear	Finish sump, Drill.
8	3086	21	7½	10, 11	26 deg. cloudy	Drill. Waiting on pump clutch.
9	3186	100	12½	11	15 deg. clear	Waiting on clutch, drill.
10	3389	203	22-3/4	11	25 deg. cloudy	Drill.
11	3580	191	10½	11	25 deg. clear	Drill - circulate sample.
12	3758	178	16½	11, 12	20 deg. snow	Drill.

DAILY PROGRESS REPORT CONT'D.

Date	Depth	Footage	Hrs.on Bottom	Bit Nos.	8:00 AM Temp. & Weather	Remarks
Oct. 13	4018	260	23	12	25 deg. cloudy	Drill.
14	4199	177	18	12	10 deg. clear	Reached TD. Lost one cone.
15					5 deg. cloudy	Schlumberger reached 3350 - condition hole
16					10 deg. clear	Schlumberger reached 3151 - condition hole
17						Clean fill 3150 - TD.
18						Condition hole - start logging at 8:00 AM, Oct.18/73.
19						Ran Schlumberger logs. Run DST #4.
20						Ran abandonment plugs.

DEVIATION RECORD

Depth	Deviation (degrees)	Depth	Deviation (degrees)
100	¼	1897	2
186	3/4	1988	2
271	1	2080	1-3/4
298	1	2170	2
325	1-1/8	2266	2
350	3/4	2358	2-3/4
378	3/4	2422	2¼
521	1	2484	3
596	1	2502	2-3/4
656	1	2532	2-2/3
717	1½	2563	2½
777	1½	2593	3
838	1½	2623	2-1/8
899	1-3/4	2698	2¼
972	1½	2788	2-3/4
1070	1-3/4	2881	3½
1160	2	2972	4-3/4
1190	1-3/4	2992	4-3/4
1283	1½	3023	4½
1375	1½	3043	4¼
1405	1½	3085	4
1496	1-3/4	3126	4
1557	1¼	3186	4
1680	1¼	3309	4
1773	1½	3642	2½
1835	1-3/4	3772	2¼

SURFACE CASING TALLY

Ran 16 joints 7" 20# Simotimo KS casing, measured 523.70' K.B. with float shoe, collar, 3 scratchers, 2 centralizers. Cemented with 135 sax construction + 2% $CaCl_2$.

Plug in place 5:15 AM, with 800# and good returns. Held pressure on same as float did not hold.

Joint		
1	30.43'	
2	32.00	
3	33.21	
4	32.75	
5	33.70	
6	30.75	
7	33.40	
8	33.70	
9	33.32	
10	33.70	
11	33.62	
12	32.53	
13	32.70	
14	31.34	
15	33.70	
16	30.72	
	521.57'	
	.95	shoe
	1.18	float
TOTAL	523.70'	

DRILL STEM TESTS

Company - Lynes United Services Limited

DST #1 (Top of Little Bear) 1121 - 1155. Sept.25/73

Preflow 5 mins. ISI 30 mins. VO 60 mins. FSI 90 mins. Very weak air blow on preflow. Strong air blow growing weak in 45 mins. when valve opened. Recovered 600' fresh water.

Preflow 136	IHP	525	ISI	315	IFP	95
	FHP	515	FSI	304	FFP	304

DST #2 (Basal Little Bear) 1877 - 1910. Sept. 28/73

Preflow 5 mins. ISI 30 mins. VO 60 mins. FSI 90 mins. Weak air blow on preflow. Strong air blow when valve opened decreasing to fair at end of period. Recovered 775' fresh water.

Preflow 42#	IHP	879	ISI	671	IFP	50
	FHP	889	FSI	650	FFP	346

DST #3 (Ronning) 2853 - 2895. Oct.2/73

Preflow 5 mins. ISI 30 mins. VO 90 mins. FSI 90 mins. Good initial blow. Fair air blow decreasing to weak at end of test. Recovered 30' mud and 471' salt water.

Preflow 63#	IHP	1349	IFP	34	ISIP	1172
	FHP	1338	FFP	228	FSIP	1161
	Temp. 140 degrees F.					

DST #4 (Ronning) 3350 - 3430. Oct. 19/73

Preflow 5 mins. ISI 60 mins. VO 60 mins. FSI 90 mins. Weak air blow on preflow. Good air blow on valve opening increasing to strong during test. Recovered 180' mud and 960' salt water - salinity 9200 ppm.

Preflow. 401#	IHP	1841 #	IFP	154 #	ISP	1396 #
	FHP	1810 #	FFP	621 #	FSIP	1394 #
	4300# Recorder No.8820					

ABANDONMENT PROGRAM

Plug #1	4199 - 4100 (Bottom Plug) 66 sax cement, down @ 5:15 PM, Oct. 19th, 1973
Plug #2	2890 - 2790 (Top of Lime) 35 sax construction cement + 3% $CaCl_2$, down @ 6:45 PM, Oct. 19th, 1973. Felt @ 2785', 2:15 AM, Oct. 20th, 1973.
Plug #3	570 - 470 (Over surface casing shoe) 41 sax cement + 3% $CaCl_2$, down @ 3:30 AM, Oct. 20th, 1973. Felt @ 475', 11:30 AM, Oct. 20th, 1973.
Plug #4	(Top) Cemented with 5 sax. Cut off casing 3' below surface and welded on plate and well location marker.

Rig Released - 4:00 AM, October 21st, 1973

CORE LABORATORIES - CANADA LTD.
Petroleum Reservoir Engineering
CALGARY ALBERTA

Plastic (CONTAINER IDENTITY)		7021-31523 (LABORATORY NUMBER)
64° 21' 48.00 N.L.	Western Decalta Petroleum Limited (OPERATOR)	1 of 3 (PAGE)
LSD 124° 57' 12.00 W.L. (LOCATION)	Decalta Dome LR1 et al Keele N-62 (WELL OR SAMPLE LOCATION NAME)	740' (KB ELEV.) 732' (GRD. ELEV.)
Keele River Area, Northwest Territories (FIELD OR AREA)	Little Bear (POOL OR ZONE)	Lynes United Services (SAMPLER)
DST 1 (TEST TYPE & NO.)	600' Fresh Water (TEST RECOVERY)	
Top of Tool (POINT OF SAMPLE)	(AMT. & TYPE CUSHION)	@ °F (MUD RESISTIVITY)
1155' - 1121' (TEST INTERVALS OR PERFS.)	PUMPING FLOWING GAS LIFT SWAB WATER BBLS/D. OIL BBLS/D. GAS MFC/D.	
SEPARATOR RESERVOIR	@ °F (CONTAINER WHEN SAMPLED) @ °F (CONTAINER WHEN RECEIVED)	SEPARATOR
PRESSURES, PSIG		TEMPERATURES, °F
Sept. 25/73 (DATE SAMPLED (D/M/Y))	Oct. 16/73 (DATE RECEIVED (D/M/Y)) Oct. 22/73 (DATE ANALYSED (D/M/Y)) M.A. (ANALYST)	(REMARKS)

MUD FILTRATE ANALYSIS

Resistivity = 6.65 Ohm-meters @ 77°F.

Chloride = 84 mg/liters.

CORE LABORATORIES - CANADA LTD.
Petroleum Reservoir Engineering
CALGARY ALBERTA

WATER ANALYSIS

Plastic — CONTAINER IDENTITY

7021-31523 — LABORATORY NUMBER

Western Decalta Petroleum Limited — OPERATOR

2 of 3 — PAGE

64° 21' 48.00 N.L.
LSD 124° 57' 12.00 W.L. — LOCATION

Decalta Dome LR1 et al Keele N-62 — WELL OR SAMPLE LOCATION NAME

740' — KB ELEV. 732' — GRD. ELEV.

Keele River Area, Northwest Territories — FIELD OR AREA

Little Bear — POOL OR ZONE

Lynes United Services — SAMPLER

DST 2 — TEST TYPE & NO.

775' Fresh Water — TEST RECOVERY

Top of Tool — POINT OF SAMPLE

AMT. & TYPE CUSHION

@ °F — MUD RESISTIVITY

1910' - 1877' — TEST INTERVALS OR PERFS.

PUMPING FLOWING GAS LIFT SWAB

WATER BBLS/D. OIL BBLS/D. GAS MFC/D.

SEPARATOR RESERVOIR @ °F CONTAINER WHEN SAMPLED @ °F CONTAINER WHEN RECEIVED

PRESSURES, PSIG

SEPARATOR TEMPERATURES, °F

Sept. 28/73 — DATE SAMPLED (D/M/Y)
Oct. 16/73 — DATE RECEIVED (D/M/Y)
Oct. 22/73 — DATE ANALYSED (D/M/Y)
M.A. — ANALYST
REMARKS

ION	MG/L	MG%	MEQ/L
Na+K	860	31.1	37.4
K			
Ca	5	0.2	0.2
Mg	5	0.2	0.4
Ba			
Sr			
Fe		TRACE	

ION	MG/L	MG%	MEQ/L
Cl	409	14.8	11.5
Br			
I			
HCO_3	1352	49.0	22.2
SO_4	5	0.2	0.1
CO_3	125	4.5	4.2
OH	0	0.0	0.0
H_2S		ABSENT	

TOTAL SOLIDS MG/L

BY EVAPORATION @ 110°C

BY EVAPORATION @ 110°C

AT IGNITION

2,761 — CALCULATED

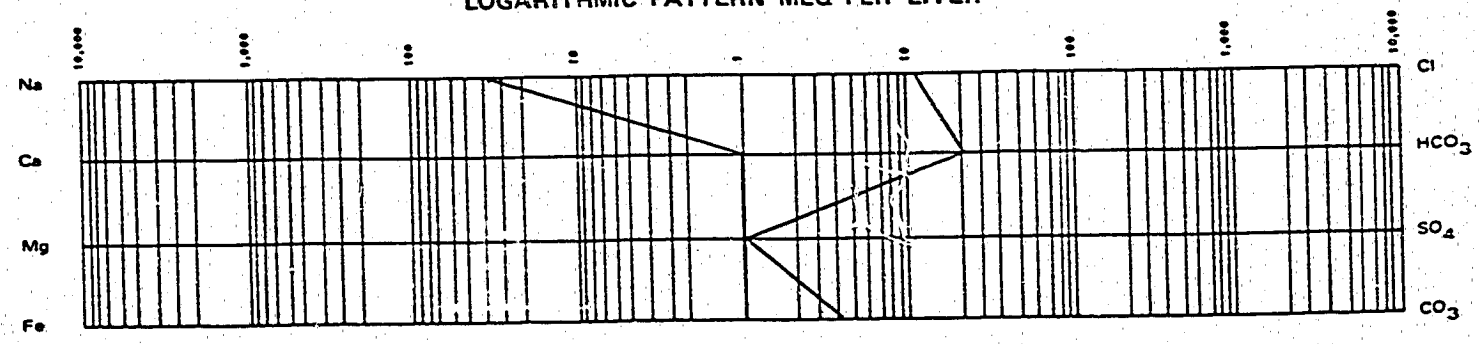
1.0019 @ 60°F — SPECIFIC GRAVITY

1.3320 @ 23°C — REFRACTIVE INDEX

8.9 — pH

2.91 @ 25°C — RESISTIVITY (OHM/METERS)

LOGARITHMIC PATTERN MEQ PER LITER



REMARKS

CORE LABORATORIES - CANADA LTD.
Petroleum Reservoir Engineering
CALGARY ALBERTA

Plastic — CONTAINER IDENTITY

WATER ANALYSIS

7021-31523 — LABORATORY NUMBER

Western Decalta Petroleum Limited — OPERATOR

3 of 3 — PAGE

64° 21' 48.00 N.L.
LSD 124° 57' 12.00 W.L. — LOCATION

Decalta Dome LR1 et al Keele N-62 — WELL OR SAMPLE LOCATION NAME

740 — KB ELEV.
732' — GRD. ELEV.

Keele River Area, Northwest Territories — FIELD OR AREA

Bear Rock — POOL OR ZONE

Lynes United Services — SAMPLER

DST 3 — TEST TYPE & NO.

501' Salt Water — TEST RECOVERY

Top of Tool — POINT OF SAMPLE

AMT. & TYPE CUSHION

@ °F — MUD RESISTIVITY

2895' - 2853' — TEST INTERVALS OR PERFS.

PUMPING FLOWING GAS LIFT SWAB

WATER BBLS/D. OIL BBLS/D. GAS MFC/D.

SEPARATOR RESERVOIR — @ °F CONTAINER WHEN SAMPLED — @ °F CONTAINER WHEN RECEIVED — SEPARATOR

PRESSURES, PSIG — TEMPERATURES, °F

Oct. 2/73 — DATE SAMPLED (D/M/Y)
Oct. 16/73 — DATE RECEIVED (D/M/Y)
Oct. 22/73 — DATE ANALYSED (D/M/Y)
M.A. — ANALYST
REMARKS

ION	MG/L	MG%	MEQ/L
Na+K	10863	35.5	472.3
K			
Ca	644	2.1	32.1
Mg	243	0.8	20.0
Ba			
Sr			
Fe		TRACE	

ION	MG/L	MG%	MEQ/L
Cl	17902	58.5	504.8
Br			
I			
HCO_3	151	0.5	2.5
SO_4	820	2.7	17.1
CO_3	0	0.0	0.0
OH	0	0.0	0.0
H_2S		ABSENT	

TOTAL SOLIDS MG/L

BY EVAPORATION @ 110°C

BY EVAPORATION @ 180°C

AT IGNITION

30,623 — CALCULATED

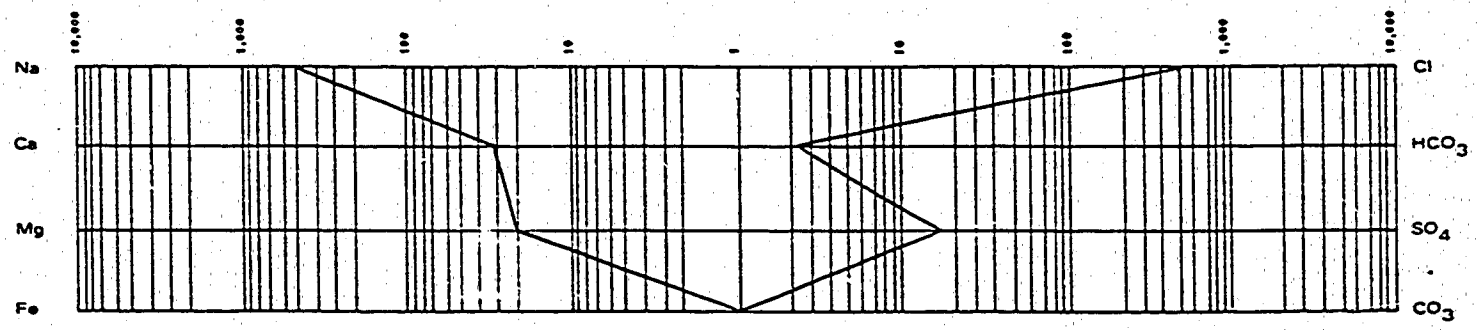
1.0218 @ 60°F — SPECIFIC GRAVITY

1.3371 @ 23°C — REFRACTIVE INDEX

7.7 — pH

0.225 @ 25°C — RESISTIVITY (OHM/METERS)

LOGARITHMIC PATTERN MEQ PER LITER



REMARKS

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

EDMONTON — FORT ST. JOHN — CALGARY

— WATER ANALYSIS —

CONTAINER IDENTITY: Quart Can

LABORATORY NUMBER: E73-2964

OPERATOR NAME AND ADDRESS: WESTERN DECALTA PETROLEUM LIMITED

SAMPLE LOCATION: 300N 6264 301 24450

WELL OR SAMPLE LOCATION NAME: Decalta Dome LRI et al Keele N-62

ELEVATIONS KB / GRD: 732'

FIELD OR AREA:

POOL OR ZONE: Ronning

NAME OF SAMPLER: W. Goodwin

COMPANY:

TEST TYPE & NO: D.S.T. 4

TEST RECOVERY: 1140'

TEST INTERVAL OR PERFS: 3350' - 3430'

POINT OF SAMPLE:

AMT & TYPE OF CUSHION:

MUD RESISTIVITY: @ °F

TYPE OF PRODUCTION: PUMPING FLOWING GAS LIFT SWAB

PRODUCTION RATES: WATER BBLS/D OIL BBLS/D GAS MCF/D

PRESSURES - PSIG: SEPARATOR TREATER RESERVOIR CONTAINER WHEN SAMPLED WHEN RECEIVED

TEMPERATURES (°F): SEPARATOR TREATER CONTAINER WHEN SAMPLED WHEN RECEIVED

DATE SAMPLED (D/M/Y): 19/10/73

DATE RECEIVED (D/M/Y): 02/11/73

DATE ANALYZED (D/M/Y): 04/12/73

ANALYST: R.J. Maloney

REMARKS:

ION	MG/L	MG%	MEQ/L	ION	MG/L	MG%	MEQ/L
Na	14048	34.36	611.07	Cl	23200	56.74	654.24
K				Br			
Ca	625	1.53	31.19	I			
Mg	719	1.76	59.10	HCO_3	280	0.68	4.59
Ba				SO_4	1971	4.82	41.00
Sr				CO_3	46	0.11	1.53
Fe	MUCH			OH	NIL		
				H_2S	NIL		

TOTAL SOLIDS Mg/L

BY EVAPORATION @ 110°C: 42510

BY EVAPORATION @ 180°C:

AT IGNITION: 39310

CALCULATED: 40889

ORGANIC MATTER: Present

SPECIFIC GRAVITY: 1.030 @ 60°F

REFRACTIVE INDEX: 1.3401 @ 25°C

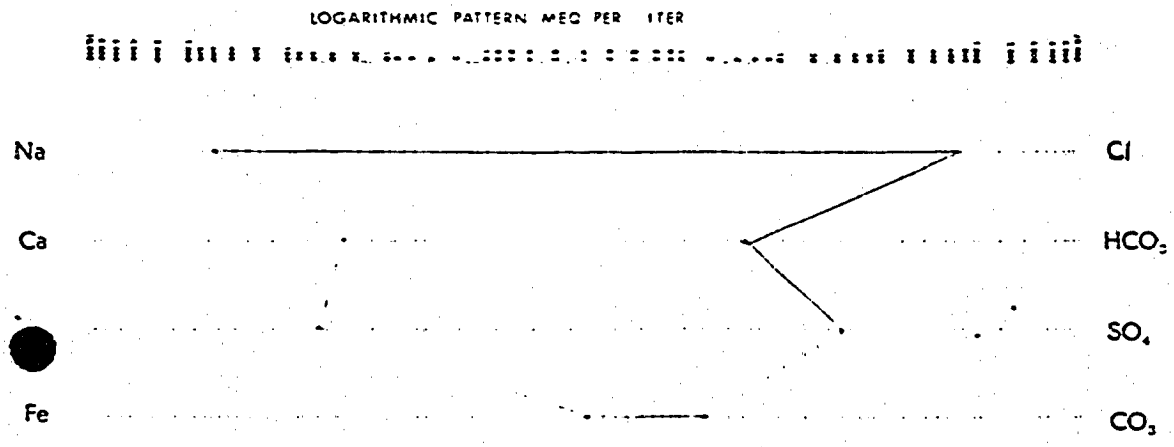
OBSERVED PH: 8.5 @ 70 °F

RESISTIVITY (Ohm/meters): 0.184 @ 25°C

Remarks and Conclusions

The sample consisted of muddy water with a dark yellow filtrate.

LOGARITHMIC PATTERN MEQ PER LITER



.....Continued

WESTERN DECALTA PETROLEUM LIMITED LABORATORY REPORT NUMBER: E73-2964

E73-2964-1: TOP

RESISTIVITY: 0.307 OHM-Meters @ 25°C.

Mud with a light brown filtrate.

E73-2964-3: BOTTOM

RESISTIVITY: 0.186 OHM-Meters @ 25°C.

Mud with a greenish filtrate.

BENZENE

E73-2964-1:

No trace of benzene indicated.

Sample was received in a 1-quart metal container with a foil insert present in the screw cap. Container was full, water was very muddy.

E73-2964-2:

No trace of benzene indicated.

Sample was received in a 1-quart metal container with a foil insert present in the screw cap. Container was full, water was muddy.

E73-2964-3:

No trace of benzene indicated.

Sample was received in a 1-quart metal container with a foil insert present in the screw cap. Container was full, very muddy but had settled out.

LYNES UNITED SERVICES LTD.

TEST DATA

Test No. 1 Lynes Test 1

Formation: Little Bear T.D. 1151 Ft.

Interval Tested: 1121 Ft. to 1155 Ft.

Interval Tested: 34 Ft. Net Pay Tested Ft.

Type of Test: Conventional Bottom Hole

Cushion Amount Ft.

Started in Hole at 11:25A.M. Hrs. Tool Open at 1:55 Hrs.

Pre-Flow: 5 Mins. Initial Shut-in: 30 Mins.

2nd Flow Mins. Second Shut-in Mins

Final Flow: 60 Mins. Final Shut-in: 90 Mins.

Remarks:

Blow: Very weak air blow on preflow. Strong air blow on final flow dying throughout valve open.

GENERAL INFORMATION +

Company: Western Decalta Petroleums Ltd.

Address: 2nd Floor, 630 - 6th Avenue S.W. Calgary, Alberta

Well Name: Decalta Dome LRI Et Al Keele

Well Number: N-62

K.B. Elevation: 740 Sub-Sea Elevation

Area: Keele River Province: N.W.T.

Company Rep.: John Ontko

Tester: Gary Hughes

Contractor: Guthrie McLaren Rig No. 7H

Ticket No.: 7778 Date: September 25, 1973

Service Reports To: 15 - above address

GAS BLOW MEASUREMENTS

Measured with

No Gas to surface.

Time	Surface Choke	Reading Inches	Cubic Feet/Day

MUD AND HOLE DATA

Mud Type: Gel

Weight: 9.0 Viscosity: 58 Water Loss

Filter Cake: 2/32 Bottom Hole Temperature

Drill Pipe Size: 3½IF Weight

Drill Collars: 3½IF I.D. Feet Run 501.72

Main Hole or Casing Size: 6½

Rathole or Liner Size No. of Feet

Bottom Hole Choke Size: ½"

Surface Choke Size: 1"

Packer Rubber Size: 5½

REMARKS

Shut-in pressures suggest high permeability within the interval tested.

RECOVERY

TOTAL FLUID RECOVERED 600 Ft. Consisting of:

600 Ft. of Fresh water

Ft. of

Ft. of

Ft. of

Test was/was not Reverse Circulated

Oil Recovery A.P.I. Water Specific Gravity

Salinity

PRESSURE READINGS

	Inside X Outside	Inside Outside X	Inside Outside	Inside Outside
Recorder No.	2235	1535		
Capacity	3350	4200		
Depth	1124	1128		

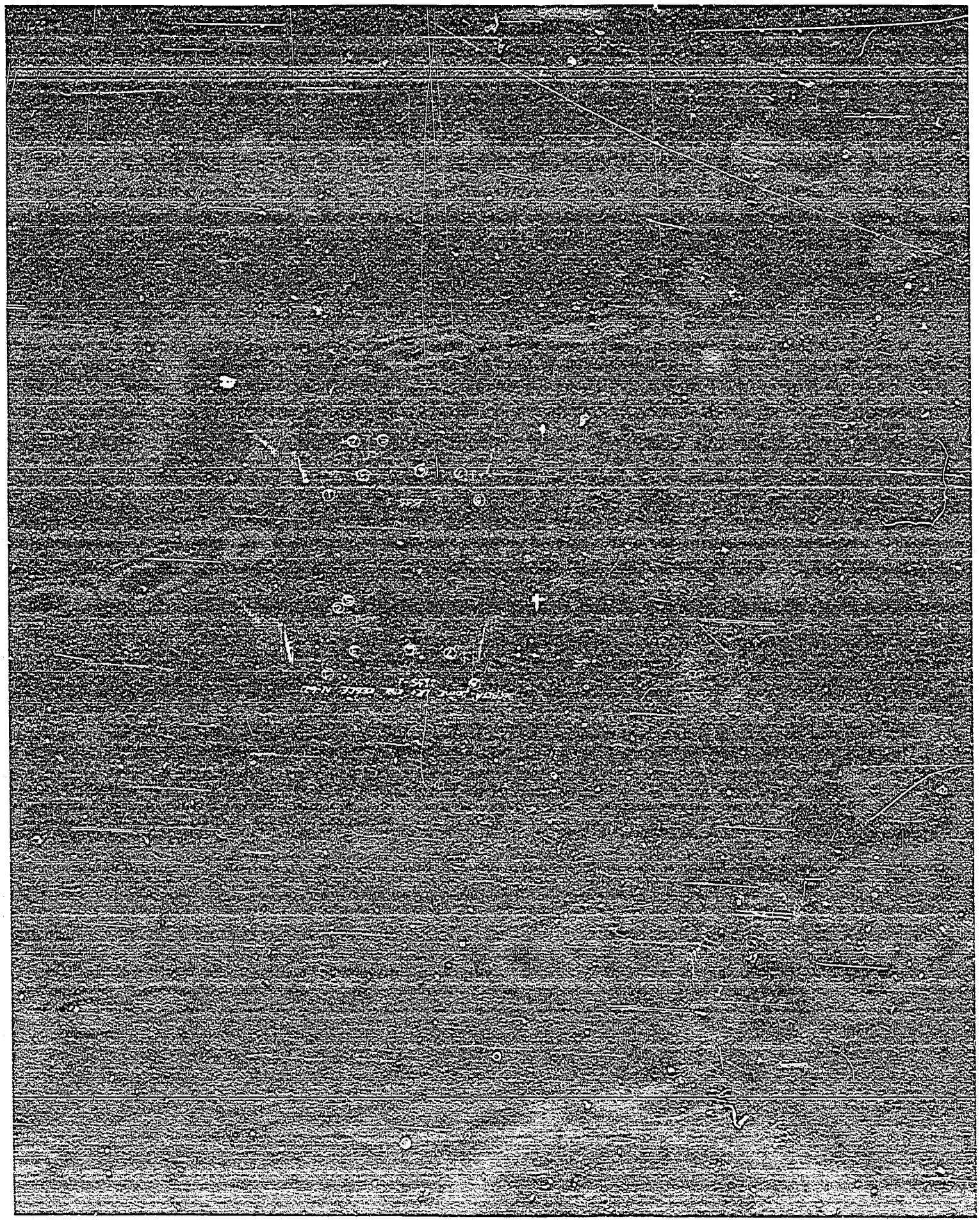
NUMBER KEY:				
1 - INITIAL HYDROSTATIC	544	533		
2 - PRE-FLOW	150	147		
3 - INITIAL SHUT-IN	322	319		
4a - 2nd INITIAL FLOW				
4b - 2nd FINAL FLOW				
4c - 2nd SHUT-IN				
5 - 3rd INITIAL FLOW	92	93		
6 - FINAL FLOW	316	316		
7 - FINAL SHUT-IN	316	316		
8 - FINAL HYDROSTATIC	536	533		

Company: Western Decalta Petroleums Ltd.

Well Name and Description: Decalta Dome LRI Et Al Keele N-62

Test No.: 1

Date of Test: September 25, 1973



LYNES UNITED SERVICES LTD.

TEST DATA

Test No. 2 Lynes Test 2

Formation: Little Bear T.D. 1910 Ft.

Interval Tested: 1877 Ft. to 1910 Ft.

Interval Tested: 33 Ft. Net Pay Tested: Ft.

Type of Test: Conventional Bottom Hole

Cushion: Amount: Ft.

Started in Hole at: 9:45 Hrs. Tool Open at: 11:40 Hrs.

Pre-Flow: 5 Mins. Initial Shut-in: 30 Mins.

2nd Flow: Mins. Second Shut-in: Mins.

Final Flow: 60 Mins. Final Shut-in: 90 Mins.

Remarks:

Blow: Very weak air blow on preflow. Dead in 2 mins. Strong air blow on final flow, decreasing throughout flow.

GENERAL INFORMATION +

Company: Western Decalta Petroleums Ltd.

Address: 2nd Floor, 620 - 6th Avenue S.W. Calgary, Alberta

Well Name: Decalta Dome LRI Et Al Keele

Well Number: N-62

K.B. Elevation: 740 Sub-Sea Elevation:

Area: Keele River Province: N.W.T.

Company Rep.: John Ontko

Tester: Gary Hughes

Contractor: Guthrie McLaren Rig No. 7H

Ticket No. 7779 Date: September 28, 1973

Service Reports To: 15 - above address

GAS BLOW MEASUREMENTS

Measured with

Time	Surface Choke	Reading Inches	Cubic Feet/Day

MUD AND HOLE DATA

Mud Type: Gel

Weight: 8.7 Viscosity: 48 Water Loss:

Filter Cake: 2/32 Bottom Hole Temperature: 145

Drill Pipe Size: 3½IF Weight:

Drill Collars: 3½IF I.D. Feet Run

Main Hole or Casing Size: 6¼

Rathole or Liner Size: No. of Feet

Bottom Hole Choke Size: ½"

Surface Choke Size: 1"

Packer Rubber Size: 5½

REMARKS

Shut-in pressures suggest average permeability within the interval tested.

RECOVERY

TOTAL FLUID RECOVERED 775 Ft. Consisting of:

775 Ft. of Fresh water

Ft. of

Ft. of

Ft. of

Test was/was not Reverse Circulated

Oil Recovery A.P.I. Water Specific Gravity

Salinity

PRESSURE READINGS

	Inside X Outside	Inside Outside X	Inside Outside	Inside Outside
Recorder No.	2235	1535		
Capacity	3350	4200		
Depth	1892	1887		

NUMBER KEY:

1 - INITIAL HYDROSTATIC	865	865		
2 - PRE-FLOW	64	54		
3 - INITIAL SHUT-IN	679	681		
4a - 2nd INITIAL FLOW				
4b - 2nd FINAL FLOW				
4c - 2nd SHUT-IN				
5 - 3rd INITIAL FLOW	53	56		
6 - FINAL FLOW	361	360		
7 - FINAL SHUT-IN	664	666		
8 - FINAL HYDROSTATIC	864	859		

Company: Western Decalta Petroleums Ltd.

Well Name and Description: Decalta Dome LRI ET Al Keele N-62

Test No. 2

Date of Test: September 28, 1973

LYNES UNITED SERVICES LTD.

WELL NAME - DECALTA DOME LPI ET AL KEELE

LOCATION - N-62

DST NUMBER - 2

INTERVAL TESTED - 1877 TO 1910

RECORDER NO. - 1535

DEPTH - 1887

INITIAL SHUT IN PRESSURE

TIME(MIN) Φ	T + Φ / Φ	PSIG
0	0.0000	54
3	2.6667	674
6	1.8333	680
9	1.5556	680
12	1.4167	681
15	1.3333	681
18	1.2778	681
21	1.2381	681
24	1.2083	681
27	1.1852	681
30	1.1667	681

EXTRAPOLATION OF INITIAL SHUT-IN = 681.66

LYNES UNITED SERVICES LTD.

WELL NAME - DECALTA DOME LPI ET AL KEELE

LOCATION - N-62

DST NUMBER - 2

INTERVAL TESTED - 1877 TO 1910

RECORDER NO. - 1535

DEPTH - 1887

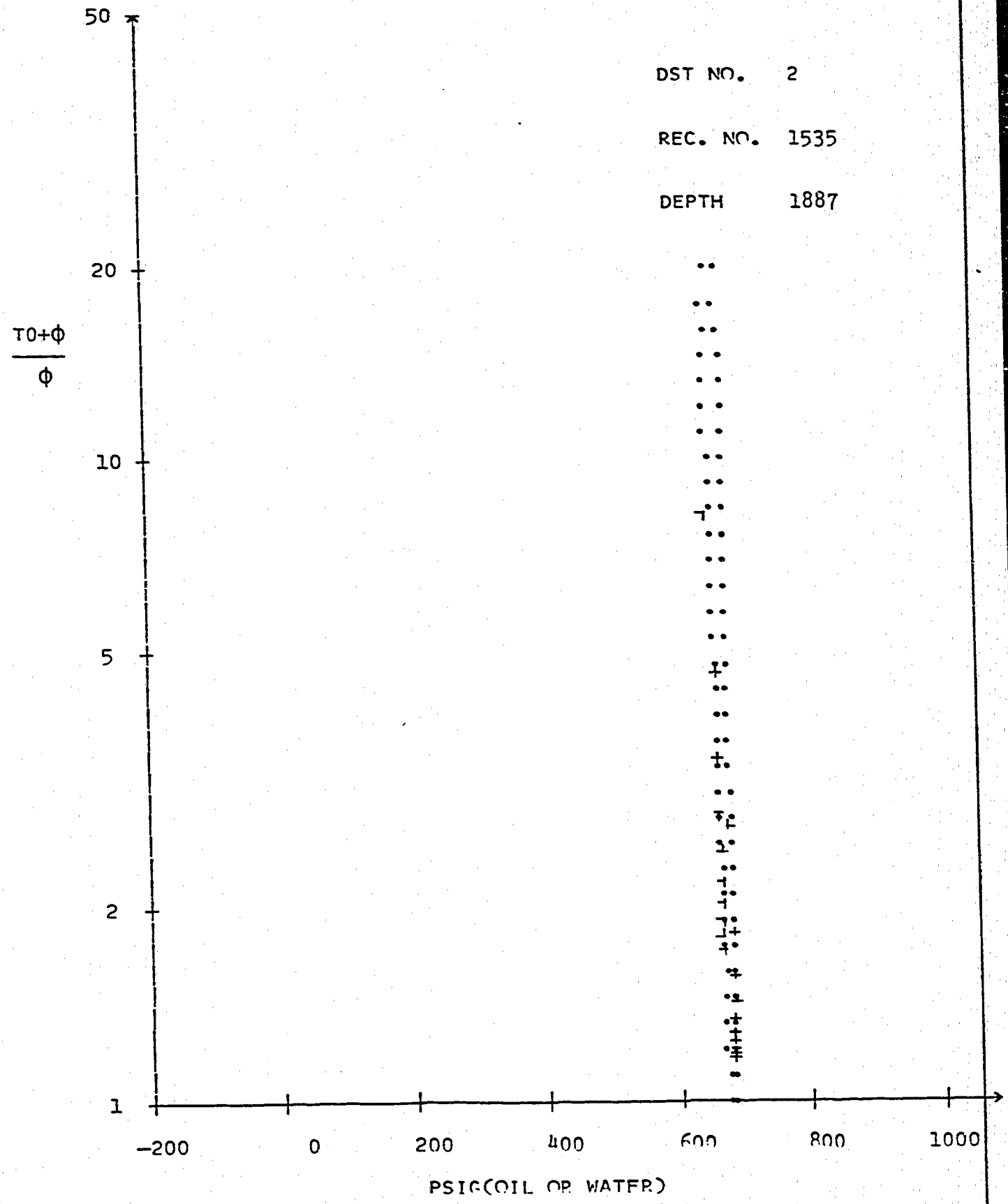
SECOND SHUT IN PRESSURE

TIME(MIN) Φ	T + Φ / Φ	PSIG
0	0.0000	360
9	8.2222	648
18	4.6111	659
27	3.4074	660
36	2.8056	662
45	2.4444	663
54	2.2037	664
63	2.0317	665
72	1.9028	666
81	1.8025	666
90	1.7222	666

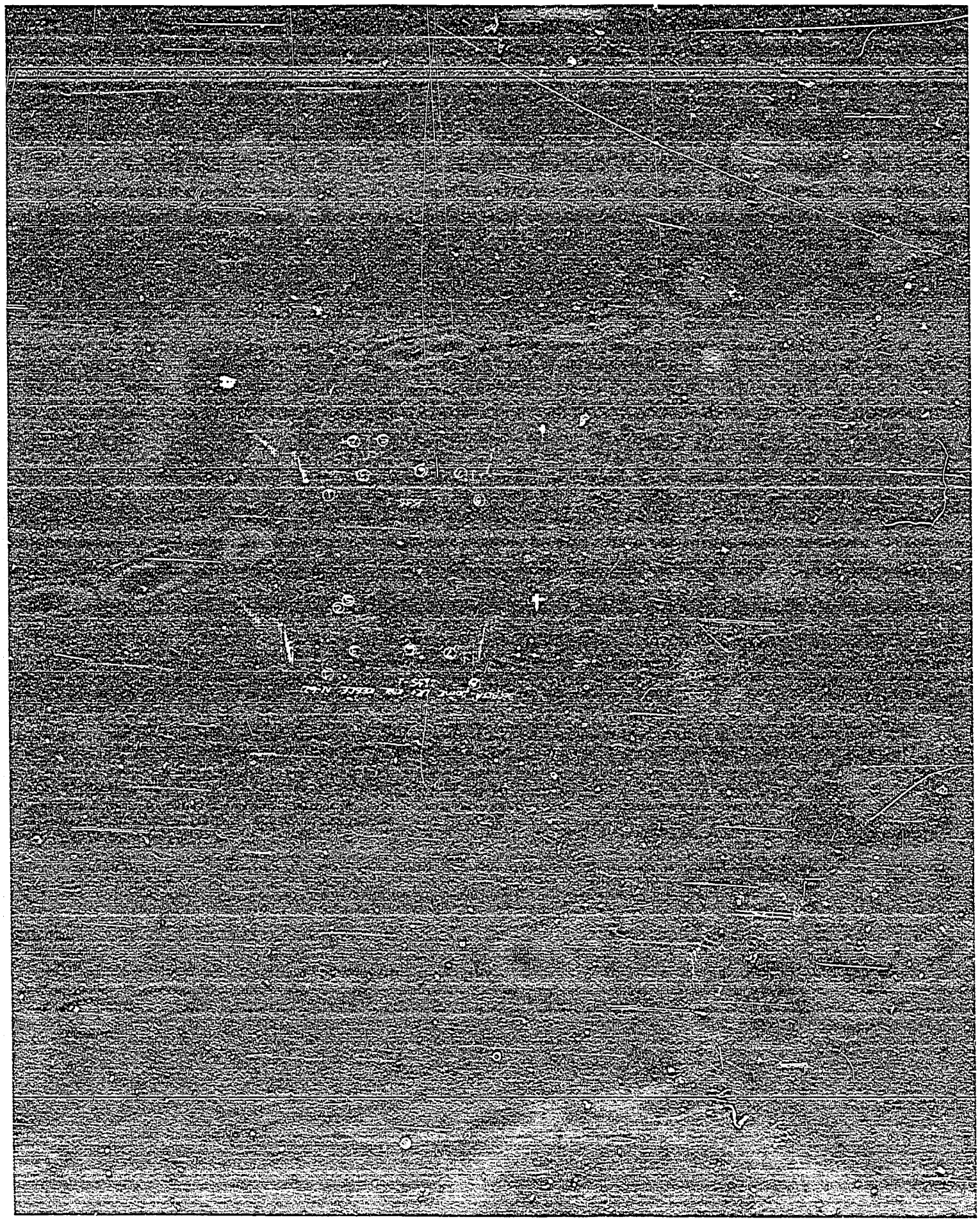
EQU. FITTED LINE IS LOG((TO+Φ)/Φ)= -0.04900 PSIG + 32.86819

EXTRAPOLATION OF SECOND SHUT-IN = 670.82 M= 20.41

LYNES UNITED SERVICES LTD.



PRESSURE EXTRAPOLATION PLOT



LYNES UNITED SERVICES LTD.

TEST DATA

Test No. 3 Lynes Test 3

Formation: Bear Rock T.D. 2895 Ft.

Interval Tested: 2853 Ft. to 2895 Ft.

Interval Tested: 42 Ft. Net Pay Tested: Ft.

Type of Test: Conventional Bottom Hole

Cushion: Amount: Ft.

Started in Hole at: 4:00A.M. Hrs. Tool Open at: 5:25 Hrs.

Pre-Flow: 5 Mins. Initial Shut-in: 30 Mins.

2nd Flow: Mins. Second Shut-in: Mins.

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

Remarks:

Blow: Very weak air blow on preflow. Very weak air blow on final flow, decreasing throughout valve open.

GENERAL INFORMATION +

Company: Western Decalta Petroleums Ltd

Address: 2nd Floor, 630 - 6th Avenue S.W. Calgary, Alberta

Well Name: Decalta Dome LRI Et Al Keele

Well Number: N-62

K.B. Elevation: 740 Sub-Sea Elevation:

Area: Keele River Province: N.W.T.

Company Rep.: John Ontko

Tester: Gary Hughes

Contractor: Guthrie McLaren Rig No. 7H

Ticket No. 7780 Date: October 2, 1973

Service Reports To: 15 - above address

GAS BLOW MEASUREMENTS

Measured with

Time	Surface Choke	Reading Inches	Cubic Feet/Day

MUD AND HOLE DATA

Mud Type: Gel

Weight: 9.0 Viscosity: 70 Water Loss: 16

Filter Cake: 2/32 Bottom Hole Temperature:

Drill Pipe Size: 3½IF Weight:

Drill Collars: 3½IF I.D. Feet Run: 501.72

Main Hole or Casing Size: 6¾

Rathole or Liner Size: No. of Feet

Bottom Hole Choke Size: ½"

Surface Choke Size: 1"

Packer Rubber Size: 5½"

REMARKS

Shut-in pressures suggest high permeability within the interval tested.

RECOVERY

TOTAL FLUID RECOVERED 501 Ft. Consisting of:

30 Ft. of Drilling Mud

471 Ft. of Salt Water

Ft. of

Ft. of

Test was/was not Reverse Circulated

Oil Recovery A.P.I. Water Specific Gravity

Salinity

PRESSURE READINGS

	Inside X Outside	Inside Outside X	Inside Outside	Inside Outside
Recorder No.	8870	1535		
Capacity	4300	4200		
Depth	2869	2864		

NUMBER KEY:				
1 - INITIAL HYDROSTATIC	1328	1333		
2 - PRE-FLOW	59	54		
3 - INITIAL SHUT-IN	1181	1176		
4a - 2nd INITIAL FLOW				
4b - 2nd FINAL FLOW				
4c - 2nd SHUT-IN				
5 - 3rd INITIAL FLOW	40	47		
6 - FINAL FLOW	239	238		
7 - FINAL SHUT-IN	1177	1177		
8 - FINAL HYDROSTATIC	1325	1328		

Company: Western Decalta Petroleums Ltd.

Well Name and Description: Decalta Dome LRI Et Al Keele N-62

Test No.: 3

Date of Test: October 2, 1973

LYNES UNITED SERVICES LTD.

WELL NAME - DECALTA DOME LRI ET AL KEELE

LOCATION - N-62

DST NUMBER - 3

INTERVAL TESTED - 2853 TO 2895

RECORDER NO. - 1535

DEPTH - 2864

INITIAL SHUT IN PRESSURE

TIME(MIN) Φ	$\frac{T + \Phi}{\Phi}$	PSIG
0	0.0000	54
3	2.6667	1164
6	1.8333	1172
9	1.5556	1174
12	1.4167	1176
15	1.3333	1176
18	1.2778	1176
21	1.2381	1176
24	1.2083	1176
27	1.1852	1176
30	1.1667	1176

EXTRAPOLATION OF INITIAL SHUT-IN = 1177.32

LYNES UNITED SERVICES LTD.

WELL NAME - DECALTA DOME LRI ET AL KEELE

LOCATION - N-62

DST NUMPEP - 3

INTEPVAL TESTED - 2853 TO 2895

RECORDER NO. - 1535

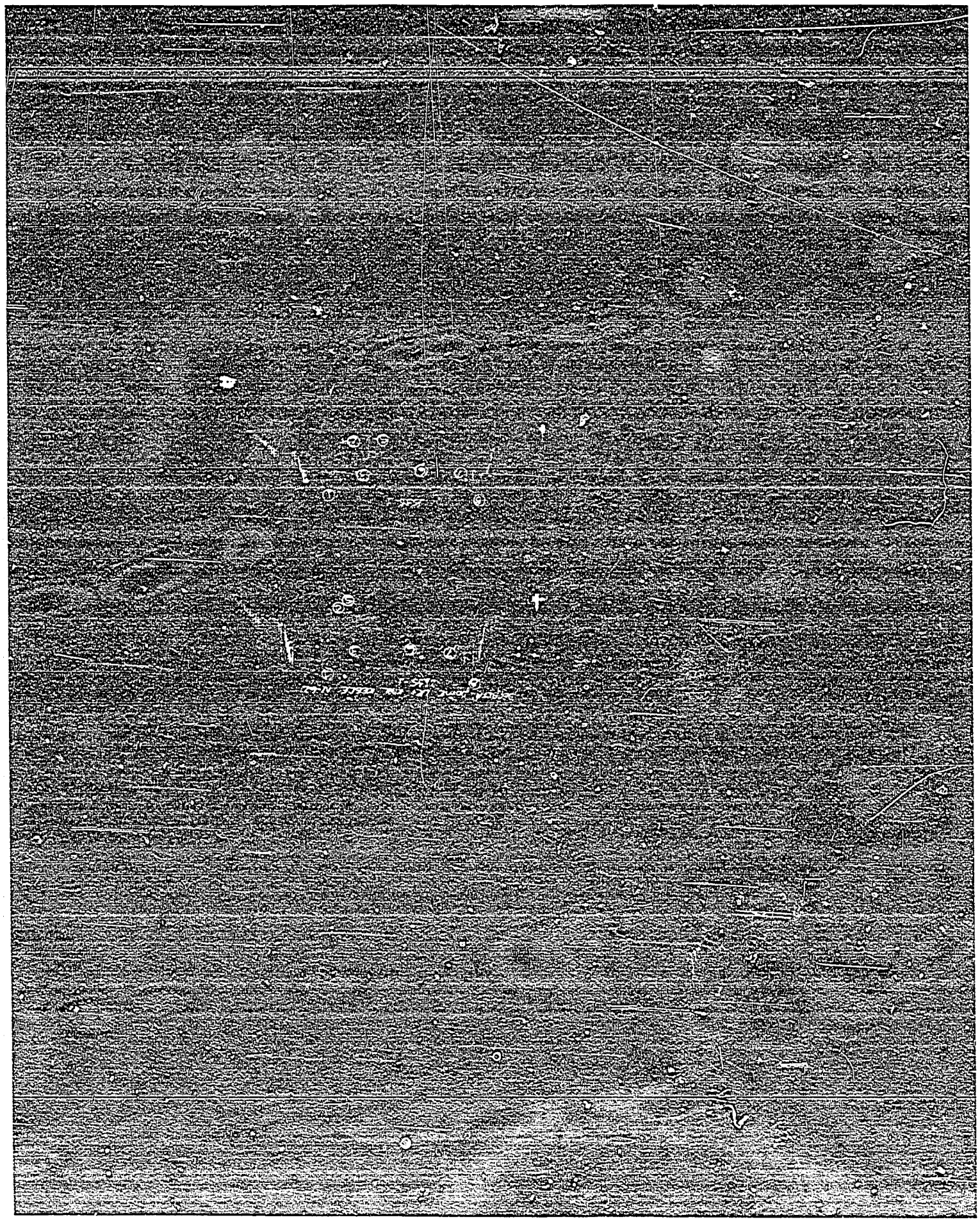
DEPTH - 2864

SECOND SHUT IN PRESSURE

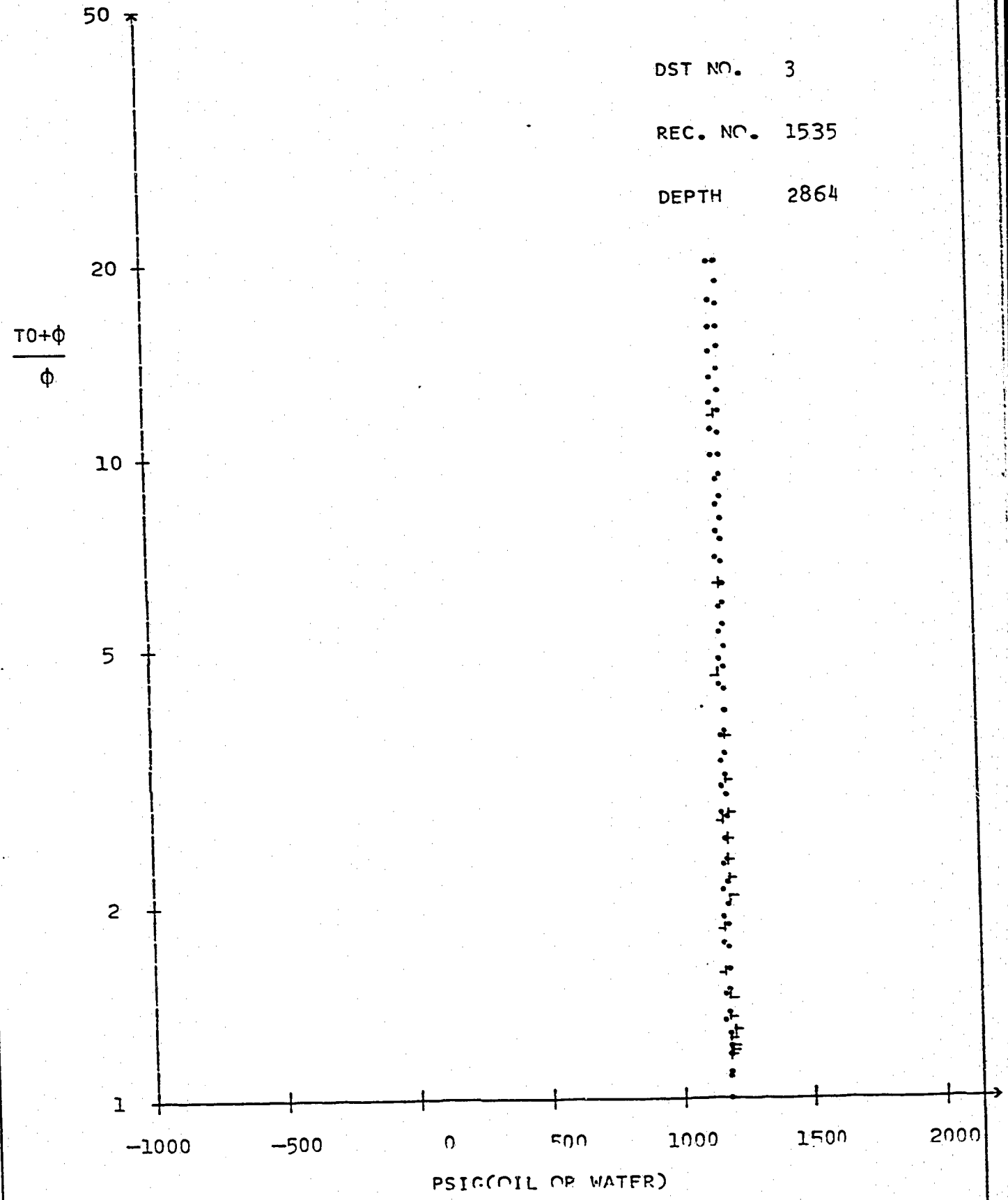
TIME(MIN) Φ	T + Φ / Φ	PSIG
0	0.0000	238
9	11.5556	1167
18	6.2778	1172
27	4.5185	1174
36	3.6389	1176
45	3.1111	1176
54	2.7593	1177
63	2.5079	1177
72	2.3194	1177
81	2.1728	1177
90	2.0556	1177

EQU. FITTED LINE IS LOG((TO+Φ)/Φ)= -0.11478 PSIG + 135.41020

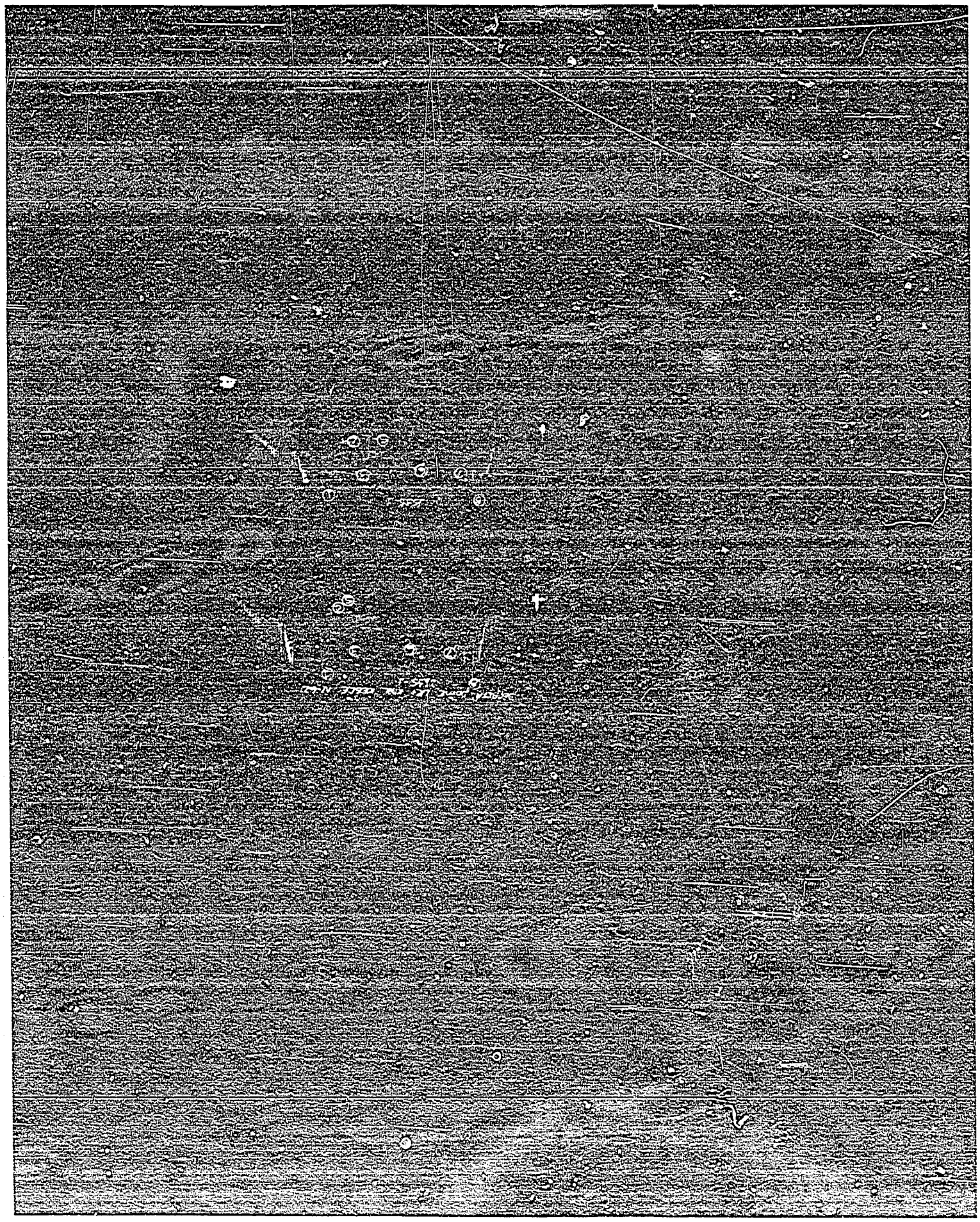
EXTRAPOLATION OF SECOND SHUT-IN = 1179.73 M= 8.71



LYNES UNITED SERVICES LTD.



PRESSURE EXTRAPOLATION PLOT



LYNES UNITED SERVICES LTD.

TEST DATA — Test No. 4 — Lynes Test

Formation: Ronning — T.D. 4199 Ft.

Interval Tested: 3350 Ft. to 3430 Ft.

Interval Tested: 80 Ft. — Net Pay Tested: Ft.

Type of Test: Conventional Straddle

Cushion: — Amount: Ft.

Started in Hole at: 9:30 Hrs. — Tool Open at: 12:15 Hrs.

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

2nd Flow: Mins. — Second Shut-in: Mins.

Final Flow: 60 Mins. — Final Shut-in: 90 Mins.

Remarks: Weak air blow on preflow. Weak air blow increasing to strong rapidly on final opening. Strong air blow throughout test.

GENERAL INFORMATION

Company: Western Decalta Petroleums Ltd.

Address:

Well Name: Decalta Dome LRI et al Keele

Well Number: N-62

K.B. Elevation: 732 — Sub-Sea Elevation:

Area: Norman Wells — Province: N.W.T.

Company Rep.: John Onko

Tester: W. Goodwin

Contractor: Guthrie McLaren — Rig No. 7H

Ticket No.: 7593 — Date: Oct. 18/73

Service Reports To: Above (15)

GAS BLOW MEASUREMENTS

Measured with:

Time	Surface Choke	Reading Inches	Cubic Feet/Day

MUD AND HOLE DATA

Mud Type: Gel Chem

Weight: 10.8 — Viscosity: 255 — Water Loss: 5.4

Filter Cake: 2/32 — Bottom Hole Temperature:

Drill Pipe Size: 3 1/2 IF — Weight: 13.6

Drill Collars: 5 1/4 — I.D. 2 — Feet Run: 180

Main Hole or Casing Size: 6 1/4

Rathole or Liner Size: — No. of Feet:

Bottom Hole Choke Size: 1/2

Surface Choke Size:

Packer Rubber Size: 5 1/2

REMARKS Shut-in pressures suggest relatively high permeability within the interval tested.

RECOVERY

TOTAL FLUID RECOVERED 1140 Ft. Consisting of:

180 Ft. of drilling fluid

960 Ft. of salt water

Ft. of

Ft. of

Test was/was not Reverse Circulated

Oil Recovery A.P.I. — Water Specific Gravity

Salinity: 9,620 PPM Salt

PRESSURE READINGS

	Inside X / Outside	Inside / Outside X	Inside / Outside X	Inside / Outside
Recorder No.	8870	1535	2235	
Capacity	4300	4200	3350	
Depth	3360	3365	3445	
NUMBER KEY:				
1 - INITIAL HYDROSTATIC	1836	1841	1920	
2 - PRE-FLOW	372	401		
3 - INITIAL SHUT-IN	1404	1396		
4a - 2nd INITIAL FLOW			Below	
4b - 2nd FINAL FLOW			Straddle	
4c - 2nd SHUT-IN				
5 - 3rd INITIAL FLOW	148	154		
6 - FINAL FLOW	632	621		
7 - FINAL SHUT-IN	1396	1394		
8 - FINAL HYDROSTATIC	1800	1810	1892	

Company: Western Decalta Petroleums Ltd.

Well Name and Description: Decalta Dome LRI et al Keele N-62

Test No.: #4

Date of Test: Oct. 18/73

NES UNITED SERVICES LTD.

WELL NAME - DECALTA DOME LRI ET AL KEELE

LOCATION - N-62

DST NUMBER - 4

INTERVAL TESTED - 3350 TO 3430

RECORDER NO. - 1535

DEPTH - 3365

INITIAL SHUT IN PRESSURE

TIME(MIN) Φ	T + Φ / Φ	PSIG
0	0.0000	401
5	2.0000	1390
10	1.5000	1393
15	1.3333	1394
20	1.2500	1394
25	1.2000	1395
30	1.1667	1395
35	1.1429	1395
40	1.1250	1395
45	1.1111	1396
50	1.1000	1396
55	1.0909	1396
60	1.0833	1397

EXTRAPOLATION OF INITIAL SHUT-IN = 1396.85

LYNES UNITED SERVICES LTD.

WELL NAME - DECALTA DOME LPI ET AL KEELE

LOCATION - N-62

DST NUMBER - 4

INTERVAL TESTED - 3350 TO 3430

RECORDER NO. - 1535

DEPTH - 3365

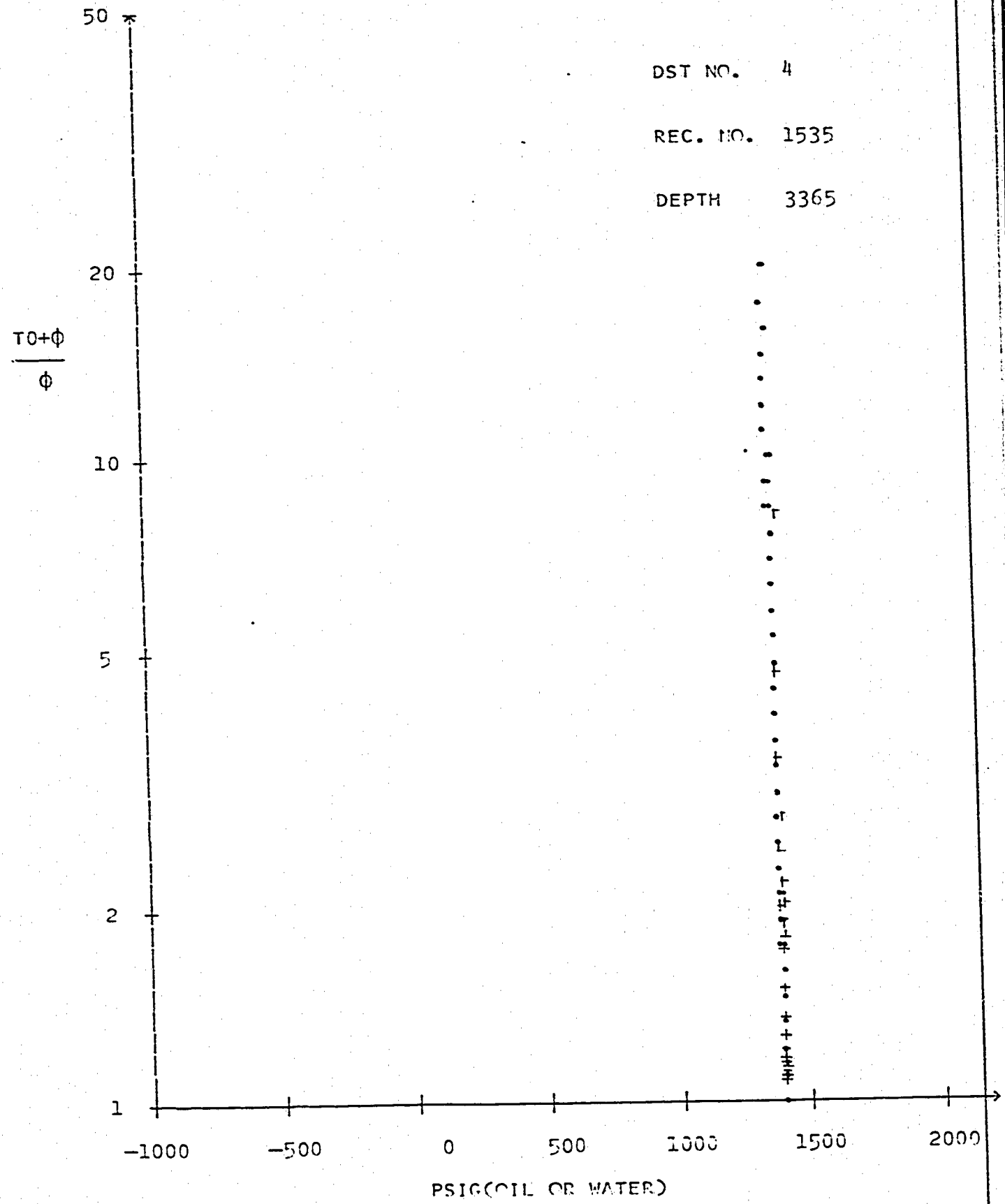
SECOND SHUT IN PRESSURE

TIME(MIN) Φ	T + Φ / Φ	PSIG
0	0.0000	621
9	8.2222	1377
18	4.6111	1383
27	3.4074	1387
36	2.8056	1389
45	2.4444	1390
54	2.2037	1391
63	2.0317	1391
72	1.9028	1393
81	1.8025	1393
90	1.7222	1394

EQU. FITTED LINE IS LOG((T0+Φ)/Φ)= -0.03863 PSIG + 54.08963

EXTRAPOLATION OF SECOND SHUT-IN = 1400.11 M= 25.89

LYNES UNITED SERVICES LTD.



PRESSURE EXTRAPOLATION PLOT

1707

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIVER N-62

Location — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. M

Date: OCT. 21 1973

Weather Condition: Cold | Road Conditions: Nil | Nearest Town: NORMAN WELLS | Water - Source: ___ Miles Hauled 1½ | Pumped ___ | Camp Distance from Rig: Next Door | Reason for Extra L. Plant: ___

OPERATOR: WESTERN DECALTA

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

Rig No.	Drill Pipe String No.	Drill Pipe String Size	Tool Joint Type Thd.	O.D.
7-H DWKS N-4	3	3½	H 3/4 11"	

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	C-350	7"
2.			
3.			

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

TIME DISTRIBUTION — HOURS

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

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

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

MORNING TOUR

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

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
								WASH UP RIG
								TEAR OUT BOPS
								CUT OF BOWL + Welded Cap.
								Rig Released @ 4 Am.
								Using D 500 Skidder Cat
								" D 311 Light Plant

DAY TOUR

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

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼						RIG SERV.
8.30	4PM	7½						TEAR DOWN RIG
								206 hauled WATER To Wash up Rig
								205 " Core BBL To Paladin
								Load of Planks To Siliene River
								Rock Site

EVENING TOUR

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

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

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

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

170F GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Keele River N-62

Location — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. ___ M.

Date: Oct 20 1973

Weather Condition: ___ Road Conditions: Nil Nearest Town: Norman Wells

Water - Source: River Miles Hauled: 1½ Pumped: ___ Camp Distance from Rig: 7 miles Reason for Extra L. Plant: Camp

OPERATOR: Western Decalta

Rig No. 7-H DWKS N4

Drill Pipe String: No. 2 Size 3½

Tool Joint: 4¾ O.D. Type Thd. IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: ___

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C-350	7
2.			
3.			

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

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

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.

No. of Lines ___ Size

Feet Slipped

Feet Cut Off

Present Length

Ton Mi. or Trips Since Last Cut

Cumulative Ton Mi. or Trips

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

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

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1:30	1½						W.O.C.
1:30	2:15	¾						Run in + Feel Plug #2 Plug @ 2785
2:15	3:30	1¼						Pull up to 570 + Run Plug #3
3:30	8:00	4½						W.O.C.
								Plug # 3 41 sks Const Cement Plus 3% CaCl2 Plug down @ 3:30 am. From 570 to 470.

DAY TOUR

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

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
5:00	11:00	3						W.O.C.
11:00	12:30	½						Run in Feel plug # 3 Plug @ 475
11:30	3:30	4						LAY DOWN D.P.
3:30	4:00	½						CLEAN UP RIG.
								Using D 500 Skidder Cat
								" D 311 Light Plant

EVENING TOUR

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

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	12:00	8						Wash Down Rig + Boats
								helecopter
								hauled Schlumberger Equipment To Norman
								hauled Water
								Took Geo. Tester + Cementer to N

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Keele River N62

Location — Lsd. Sec. Twp. Rge. W. M.

Date: Oct 19 1973

Weather Condition: Cold | Road Conditions: Nil | Nearest Town: Norman Wells | Water - Source: River | Miles Hauled: 1½ | Pumped | Camp Distance from Rig: 7 mi. | Reason for Extra L. Plant: Camp

OPERATOR: Western Decalta

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R Rutherford

Rig No.	Drill Pipe String No.	Drill Pipe String Size	Tool Joint	Type Thd.
7-4 Dwks N4	2	3½	4 3/4 O.D.	IF

PUMPS No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	C350	7"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	Semless	20# SKS	16	523.70	10.80	510	Cemented W/135 SK

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (Office Use Only)

Day Work

Hrs. W/DP

Hrs WO/DP

Hrs. Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines Size

Feet Slipped

Feet Cut Off

Present Length

Ton Mi. or Trips Since Last Cut

Cumulative Ton Mi. or Trips

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

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

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

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

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

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

Driller: Brian Lewis

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.30	½						Head up Test #4
12.30	4.00	3½						Testing
4.00	7.00	3						Hoist D.S.T. #4
7.00	8.00	1						Lay down Testing Tools
								Using D500 Skidder Cat
								" D311 Light Plant

DAY TOUR

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

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

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

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

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

Driller: Dwayne Lebrun

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	¼						Rig Serv.
8.15	9.00	¾						Lay down Testing Tools
9.00	12.00	3						Run in D.C. + Lay down Same
12.00	2.30	2½						Run in Hole with D.P. + Pick up 8 Singles
2.30	4.00	1½						Circ + wait on Orders
					Helecopter			
								2 Shift Changes
								Took mud Man with Legs to Dahodinni
								Took Schlumberger Men to Norman Wells
								hauled Water

EVENING TOUR

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

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

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

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

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

Driller

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.30	½						Circ - W.O.O.
4.30	5.15	¾						Run Plug # 1 + displace Same.
5.15	6.00	¾						Pull up to 2890
6.00	6.45	¾						Run Plug # 2 + displace Same
6.45	12.00	5¼						W.O.C.
								Plug #1 From 4199 to 4100 66 Bags
								Const. Cement Plug 25% Excess.
								Plug down @ 5.15 PM
								Plug # 2 From 2890 to 2790 35 Bags
								Const Cement Plus 3% Ca Cl2 Plug down
								@ 6.45 PM Feel in 8 hrs.

GUTHRIE McLAREN Drilling Co.

DAILY DRILLING REPORT

Form 6

Lease Well Name: KEELE RIVER

Location — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. M.

Date: OCT 18 1973

Weather Condition: ___ Road Conditions: FAIR. Nearest Town: FORMAN FIELD. Water - Source: RIVER. Miles Hauled ___ Pumped ___. Camp Distance from Rig: Trailer. Reason for Extra L. Plant: CAMP

OPERATOR: WESTERN DECHLTA

SIGNATURE OF OPERATOR'S REPRESENTATIVE: ___

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

Rig No. 7H. DWKS 14. Drill Pipe String: No. 2, Size 3½. Tool Joint 4¾ O.D. Type Thd. IF

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C 3-6	7
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7	SUMMIT	20 SRS	16	5230	1056	510	CEMENTED W/135SX

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming			
Conditioning Mud & Circulating	5¼		
Trips	1½		
Lubricate Rig	¼		
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8		

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.	
No. of Lines	6 Size 1"
Feet Slipped	505
Feet Cut Off	505
Present Length	4795
Ton Mi. or Trips Since Last Cut	341
Cumulative Ton Mi. or Trips	3653
No. of Days From Spud	
Cumulative Rotating Hrs.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		
	Stands D.P.	39 40 50 Ft.	Bit No.	14	Time	1200	300
	Singles D.P.	Ft.	Size	6¼	Weight	10.6	10.8
	D.C.		Mfg.	SEC	Visc.-Sec.	340	255
8	I.D. O.D.	23 2 48 Ft.	Type	M4R	W.L.-C.C.		5.4
	D.C.		Nozzle No.	3	FL. TR. CK.		2/32
	I.D. O.D.	Ft.	Nozzle Size	12	PH	10.5	10.5
	Stb. Body O.D.	Ft.	Ser. No.	44252	SD. Cont. %		
	Stb. Body O.D.	Ft.	Depth Out	R	Pressure Gradient		
	Rmr. Body O.D.	Ft.	Depth In	E			
1	Subs O.D.	2.95 Ft.	Total Ftg.	A	Mud & Chemicals Added		
	Bit or C.B.	Ft.	Total Hr. Run	M	Type / Amt / Type / Amt		
	Kelly Down	26 52 Ft.	Cond. of Bit	1			
	Total	41 99 Ft.	Reamer No.	N			
Wt. of String	82	Lbs.	Reamer Type	R			
Pipe in Hole		Jts.	Water Charges	Reg. Hrs. O.T. Hrs.			
Pipe on Racks		Jts.	Trucker				
Total Pipe on Lease		Jts.	Trucker		Driller: Lawrence Silver		
			Trucker				

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼						RIG SERV.
1215	530	5¼						CIRCULATING TO LOG
530	800	2½						HOIST TO LOG
								Using DSCO Skidder Cats
								" D311 Light Plant

DAY TOUR

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

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

Deviation Record	Depth	Dev	Direction	Depth	Dev	Direction	Depth	Dev	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	830	½						RIG UP TO LOG
8:30	1500	7½						LOGGING.
8:30	400							Rig Service & Change Out in Motor
								1 Shift Change
								Hauled 4 LOADS WATER.
								Took Crew To Norman Wells helecopt
								Went down ON RETURN TRIP.

EVENING TOUR

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

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	6:00	2						LOGGING
6:00	8:00	2						TEAR OUT LOGGERS
8:00	8:30	½						PRESSURE & PICK UP 12 STDS
8:30	10:00	1½						PICK UP TESTING TOOL
10:00	12:00	2						RUN IN WITH TEST #4

GUTHRIE McLAREN Drilling Co.

DAILY DRILLING REPORT

Form 6

Lease Well Name: KEEKE RIVER N 8-62

Date: OCT 17 1972

Location — Lsd. Sec. Twp. Rge. W. M.

Weather Condition | Road Conditions: WET | Nearest Town: FORT NELSON | Water - Source: RIVER | Miles Hauled | Pumped | Camp Distance from Rig: 7 MILES | Reason for Extra L. Plant: CAMP

OPERATOR: WESTERN DECALTA

Rig No. 7H | DWKS 144 | Drill Pipe String: No. 2 Size 3½ | Tool Joint 4¾ O.D. | Type Thd. IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D 350	7"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7	SEAMLESS	20 SRS	16	523.30	10.80	510	CEMENTED W/135SK

TIME DISTRIBUTION – HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming	4½		1
Conditioning Mud & Circulating	3½	6½	5½
Trips		1¼	1¼
Lubricate Rig	¼	¼	¼
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fish			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	9		

TIME SUMMARY (Office Use Only)

Day Work

Hrs W/DP

Hrs WO/DP

Hrs Standby

Total Day Work 5 5 5

WIRE LINE RECORD

Reel No.

No. of Lines 8 Size 1

Feet Slipped 505

Feet Cut Off 505

Present Length 4795

Ton Mi. or Trips Since Last Cut 290

Cumulative Ton Mi. or Trips 3602.

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD			
	Stands D.P.	3946.50 Ft.	Bit No.	14	Time	3:00	5:00	7:00
	Singles D.P.	Ft.	Size	6¾	Weight	10.0	10	10.2
	D.C.		Mfg	SEC	Visc.-Sec.	141	143	14[illegible]
8	I.D. O.D.	232.48 Ft.	Type	M4N	W.L.-C.C.			
	D.C.		Nozzle No.	3	FL TR CK			
	I.D. O.D.	Ft.	Nozzle Size	12	pH	12+	12+	12
	Stb. Body O.D.	Ft.	Ser. No.	44262	SD. Cont. %			
	Stb. Body O.D.	Ft.	Depth Out	K	Pressure Gradient			
	Rmr. Body O.D.	Ft.	Depth In	E				
1	Subs O.D.	2.95 Ft.	Total Ftg.	A	Mud & Chemicals Added			
	Bit or C.B.	Ft.	Total Hr. Run	M	Type	Amt	Type	Amt
	Kelly Down	26.52 Ft.	Cond. of Bit	1	Spartan	1100000		
	Total	4199 Ft.	Reamer No.	K				
Wt. of String	85 m	Lbs.	Reamer Type	G				
Pipe in Hole		Jts.	Water Charges	Reg. Hrs.	O.T. Hrs.			
Pipe on Racks		Jts.	Trucker					
Total Pipe on Lease		Jts.	Trucker					
			Trucker					
					Driller	Dennis Litz		

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼						RIG SERV.
12:15	4:45	4½						REAM FROM 4074 TO 4199
4:45	8:00	3¼						CONDITIONING MUD & CIRC.
								Using D 500 Skidder CAT
								" D 311 Light Plant

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD			
	Stands D.P.	3940.50 Ft.	Bit No.	14	Time	9:00	1:00	3:00
	Singles D.P.	Ft.	Size	6¾	Weight	10.4	10.8	[illegible]
	D.C.		Mfg	SEC	Visc.-Sec.	140	165	[illegible]
	I.D. O.D.	232.48 Ft.	Type	M4N	W.L.-C.C.	8.8	8.8	
	D.C.		Nozzle No.	3	FL TR CK			
	I.D. O.D.	Ft.	Nozzle Size	12	pH	12+	12+	
	Stb. Body O.D.	Ft.	Ser. No.	44262	SD. Cont. %			
	Stb. Body O.D.	Ft.	Depth Out	K	Pressure Gradient			
	Rmr. Body O.D.	Ft.	Depth In	E				
	Subs O.D.	2.95 Ft.	Total Ftg.	A	Mud & Chemicals Added			
	Bit or C.B.	Ft.	Total Hr. Run	M	Type	Amt	Type	Amt
	Kelly Down	26.52 Ft.	Cond. of Bit	1	Spartan	1125.00		
	Total	4199 Ft.	Reamer No.	K				
Wt. of String	82	Lbs.	Reamer Type	G				
Pipe in Hole		Jts.	Water Charges	Reg. Hrs.	O.T. Hrs.			
Pipe on Racks		Jts.	Trucker					
Total Pipe on Lease		Jts.	Trucker					
			Trucker					
					Driller	Wayne Lebrun		

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Service
8:15	2:45	6½						Conditioning Mud & Circ
2:45	4:00	1¼						Trip out 17 stands
								helicopter hauled 4 Loads Water
								1 Load Gel
								ONE TRIP Daladini
								For Cook Check Rack
								ONE TRIP Daladini
								For [illegible]

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD			
	Stands D.P.	3946.50 Ft.	Bit No.	14	Time	4:00	7:00	11:00
	Singles D.P.	Ft.	Size	6¾	Weight	10.9	10.9	10.9
	D.C.		Mfg	SEC	Visc.-Sec.	165	169	3[illegible]
8	I.D. O.D.	232.48 Ft.	Type	M4N	W.L.-C.C.	8.2	8	
	D.C.		Nozzle No.	3	FL TR CK			
	I.D. O.D.	Ft.	Nozzle Size	12	pH	12+	12+	12+
	Stb. Body O.D.	Ft.	Ser. No.	44262	SD. Cont. %			
	Stb. Body O.D.	Ft.	Depth Out	K	Pressure Gradient			
	Rmr. Body O.D.	Ft.	Depth In	E				
1	Subs O.D.	2.95 Ft.	Total Ftg.	A	Mud & Chemicals Added			
	Bit or C.B.	Ft.	Total Hr. Run	M	Type	Amt.	Type	Amt
	Kelly Down	26.52 Ft.	Cond. of Bit	1				
	Total	4199 Ft.	Reamer No.	K				
Wt. of String	52	Lbs.	Reamer Type	G				
Pipe in Hole		Jts.	Water Charges	Reg. Hrs.	O.T. Hrs.			
Pipe on Racks		Jts.	Trucker					
Total Pipe on Lease		Jts.	Trucker					
			Trucker					
					Driller			

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:15	1¼						Run 16 stands Back in (4125.00)
5:15	6:15	1						Pick up Kelly & Break Circ.
								Clean to Bottom (4199.05)
6:15	6:30	¼						Rig Service
6:30	[illegible]	5½						Conditioning hole to Log

GUTHRIE McLAREN Drilling Co.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEEFE RIVER #2

Location — Lat. Sec. Twp. Rge. W. M.

Date: OCT 16 1973

Weather Conditions: Road Conditions: Nearest Town: BERMAN 3 mi. Water - Source: Miles Hauled: Pumped: Camp Distance from Rig: Reason for Extra L. Plant: Camp

OPERATOR: WESTERN DECANTA

Rig No. 74 DWKS

Drill Pipe String: No. 2 Size 3½

Tool Joint: 4¾ O.D. Type Tbd 11"

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D 550	7"
2.			
3.			

LAST CASING TUBING OR LINER

Size	Make	Wt. & Gr	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
7"	SEAMLESS	20 LB	16	623.70	10.50	610	CEMENTED W/ 185 SKS

TIME DISTRIBUTION – HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming	4½	7½	7½
Conditioning Mud & Circulating			
Trips	2	4½	
Lubricate Rig	½		½
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging	½		
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

Day Work

Hrs. W/DP

Hrs WO/DP

Hrs Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines 8 Size 1

Feet Slipped 505

Feet Cut Off 505

Present Length 4995

Ton Mi. or Trips Since Last Cut 590

Cumulative Ton Mi. or Trips 5602

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	Stands D.P.	Ft.	Bit No.	14
	Singles D.P.	Ft.	Size	6¼
4	D.C. I.D. O.D. 2 32.45	Ft.	Mfg	SEC
			Type	M4N
	D.C. I.D. O.D.	Ft.	Nozzle No.	3
			Nozzle Size	12
	Stb Body O.D.	Ft.	Ser. No.	442892
	Stb. Body O.D.	Ft.	Depth Out	R
	Rmr Body O.D.	Ft.	Depth In	E
	Subs O.D.	Ft.	Total Ftg	P
	Bit or C.B.	Ft.	Total Hr Run	11
	Kelly Down	Ft.	Cond. of Bit	1
	Total	Ft.	Reamer No.	1
Wt. of String		Lbs.	Reamer Type	G
Pipe in Hole		Jts.	Water Charges	Reg. Hrs. O.T. Hrs.
Pipe on Racks		Jts.	Trucker	
Total Pipe on Lease		Jts.	Trucker	
			Trucker	

MUD RECORD

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

Mud & Chemicals Added

Type	Amt	Type	Amt
~~Kwikseal~~	~~Hi-Vis~~		

Driller: Dennis Johnson

FOOTAGE

From	To	Ftge

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼						RIG SERV
12.15	12.45	½						LAY DOWN LOGGING TOOLS
12.45	1.30	¾						RUN IN 4 STD OF DC.
1.30	2.15	¾						BREAK KELLY OUT W/ STEAM.
2.15	3.30	1¼						RUG IN
3.30	3.45	¼						BREAK CIRC.
3.45	8.00	4¼						CLEAN TO BOTTOM

Using D 500 Skidder Cat

" D 311 Light Plant

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	Stands D.P.	Ft.	Bit No.	14
	Singles D.P.	Ft.	Size	6¼
4	D.C. I.D. O.D.	Ft.	Mfg	SEC
			Type	M4N
	D.C. I.D. O.D.	Ft.	Nozzle No.	3
			Nozzle Size	12
	Stb Body O.D.	Ft.	Ser. No.	442892
	Stb Body O.D.	Ft.	Depth Out	R
	Rmr Body O.D.	Ft.	Depth In	E
	Subs O.D.	Ft.	Total Ftg	P
	Bit or C.B.	Ft.	Total Hr Run	11
	Kelly Down	Ft.	Cond. of Bit	1
	Total	Ft.	Reamer No.	1
Wt. of String		Lbs.	Reamer Type	G
Pipe in Hole		Jts.	Water Charges	Reg. Hrs. O.T. Hrs.
Pipe on Racks		Jts.	Trucker	
Total Pipe on Lease		Jts.	Trucker	
			Trucker	

MUD RECORD

Time	9.00	1.00	3.00
Weight		9.5	9.7
Visc.-Sec.		90	120
W.L.-C.C.			7.8
FL TR. CK			
PH		10	12
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
Gel	25 00 lbs		
Peltex	100 lbs		
Caustic	100 lbs		
Sperton			

Driller: Wayne Johnson

FOOTAGE

From	To	Ftge

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	10.00	2.00						Clean ~~To Bottom~~ Out Bridge From 3340
10.00	10.15	¼						Run in 6 STD of DP To 3678
10.15	4.00	5¾						Pick up Kelly, Break Circ & Clean ~~to Bottom~~
								From 3678 To 3575
								Helicopter hauled 5 Loads Weight Material
								2 Loads Gel 4 Loads Fuel, Two
								Load Water + Two Shift Changes

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	Stands D.P. 3751.70	Ft.	Bit No.	14
	Singles D.P.	Ft.	Size	6¼
4	D.C. I.D. O.D. 232.46	Ft.	Mfg	SEC
			Type	M4N
	D.C. I.D. O.D.	Ft.	Nozzle No.	3
			Nozzle Size	12
	Stb Body O.D.	Ft.	Ser. No.	442892
	Stb Body O.D.	Ft.	Depth Out	R
	Rmr Body O.D.	Ft.	Depth In	E
1	Subs O.D. 8.95	Ft.	Total Ftg	P
	Bit or C.B.	Ft.	Total Hr Run	11
	Kelly Down	Ft.	Cond. of Bit	1
	Total	Ft.	Reamer No.	1
Wt. of String		Lbs.	Reamer Type	G
Pipe in Hole		Jts.	Water Charges	Reg. Hrs. O.T. Hrs.
Pipe on Racks		Jts.	Trucker	
Total Pipe on Lease		Jts.	Trucker	
			Trucker	

MUD RECORD

Time	4.00	7.00	11.00
Weight	9.9	9.8	9.8
Visc.-Sec.	195	175	154
W.L.-C.C.	7.8		7.2
FL TR. CK	2/32		2/32
PH	12+	12+	12+
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
PELTEX	150#		

Driller

FOOTAGE

From	To	Ftge

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.15	¼						Rig Service
4.15	12.00	7¾						Ream From 3938 to 4024

KODAK SAFETY FILM

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIVER N-62

Date: OCT 15 1978

Location — Lsd. Sec. Twp. Rge. W. M.

Weather Condition | Road Conditions: MUD | Nearest Town: FORMAN | Water - Source: RIVER | Camp Distance from Rig: 7 miles | Miles Hauled | Pumped | Reason for Extra L. Plant: CAMP

OPERATOR: WESTERN DECALTA

Rig No.: 7H DWKS 104

Drill Pipe String: No. 2 Size 5½

Tool Joint: 4¾ O.D. Type Thd: IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	A 350	7"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	SEMLES	20 J55	16	523.70	16.80	510	CEMENTED w/ 185SK

TIME DISTRIBUTION - HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming			
Conditioning Mud & Circulating	5¼		
Trips	1	2	
Lubricate Rig	¼		
Deviation Survey			
Test B.O.P			
Cut Off Drilling Line			
Repair Rig	1	6	5¾
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	8	8	

TIME SUMMARY (Office Use Only)

Day Work

Hrs W/DP

Hrs WO/DP

Hrs Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines 8 Size 1

Feet Slipped 505

Feet Cut Off 505

Present Length 4995

Ton Mi. or Trips Since Last Cut 290

Cumulative Ton Mi. or Trips 3602

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
59	Stands D.P	Ft.
1	Singles D.P	36.56.92
7	D.C. 5¾ I.D. O.D	200.95
11	D.C. 4¾ I.D. O.D	300.77
	Stb. Body O.D	Ft.
	Stb. Body O.D	Ft.
	Rmr Body O.D	Ft.
1	Subs O.D	2.95 Ft.
	Bit or C.B	Ft.
	Kelly Down	33.41 Ft.
	Total	4195 Ft.
	Wt. of String 62m.	Lbs.
	Pipe in Hole	Jts.
	Pipe on Racks	Jts.
	Total Pipe on Lease	Jts.

BIT RECORD

Bit No	13
Size	6¼
Mfg	SEC
Type	M4N
Nozzle No	3
Nozzle Size	12
Ser. No	442839
Depth Out	
Depth In	
Total Ftg	
Total Hr Run	
Cond. of Bit	
Reamer No	
Reamer Type	

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

Trucker

Trucker

Trucker

MUD RECORD

Time	5:00	6:00	7:00
Weight	9.3	9.3	9.3
Visc.-Sec.	92	98	106
W.L.-C.C.	5.0	7.8	8.0
FL TR. CK	2/32	2/32	2/32
PH	12.0	12.0	12.0
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
GEL	22.00		
CAUSTIC	100#		
PELTEX	10#		
C.M.C.	200#		

Driller: Lawrence Johnson

FOOTAGE

From	To	Ftge
4195		

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	1.00	1						CONDITIONING MUD & CIRC.
1.00	1.15	¼						RIG SERV.
1.15	3.15	2						CONDITIONING MUD & CIRC.
3.15	4.15	1						Clean Out Centrifugal Suction ¾ Full of Shale
4.15	7.00	2¾						Build Volume Condition Mud.
7.00	8.00	1						Lots of Shale Coming Over Shacker Pull Out Slow To Log

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR	
59	Stands D.P	Ft.
	Singles D.P	36.56.92 Ft.
7	D.C. 5¾ I.D. O.D	200.95 Ft.
11	D.C. 4¾ I.D. O.D	300.77 Ft.
	Stb Body O.D	Ft.
	Stb Body O.D	Ft.
	Rmr Body O.D	Ft.
1	Subs O.D	2.95 Ft.
	Bit or C.B	Ft.
	Kelly Down	Ft.
	Total	4195 Ft.
	Wt. of String	Lbs.
	Pipe in Hole	Jts.
	Pipe on Racks	Jts.
	Total Pipe on Lease	Jts.

BIT RECORD

Bit No	13
Size	6¼
Mfg	SEC
Type	M4N
Nozzle No	3
Nozzle Size	12
Ser. No	442839
Depth Out	
Depth In	
Total Ftg	
Total Hr Run	
Cond. of Bit	
Reamer No	
Reamer Type	

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

Trucker

Trucker

Trucker

MUD RECORD

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

Mud & Chemicals Added

Type	Amt.	Type	Amt

Driller: Wayne Johnson

FOOTAGE

From	To	Ftge

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	10.00	2						Pull Out To Log.
10.00	4.00	6						UNSTRING Drilling Line Lardown Blocks Repair Crown Shives.
								~~Helicopter loaded 2 Loads Crew~~
								1 Load Pipe
								1 Trip Norman Wells + Return
								2 Loads Fuel
								2 Crew Changes

EVENING TOUR

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

BIT RECORD

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

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

Trucker

Trucker

Trucker

MUD RECORD

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

Mud & Chemicals Added

Type	Amt.	Type	Amt

Driller:

FOOTAGE

From	To	Ftge

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	[illegible]							Repair Crown Shives Restring Blocks
	9.45	5¾						To Six Lines
9.45	10.45	1						HOIST TO LOG.
10.45	11	¼						RIG UP TO LOG
11.00	12.00	1.						LOG & LAY DOWN LOG.

GUTHRIE McLAREN Drilling Co.

DAILY DRILLING REPORT

Form 6

Lease Well Name: KEELE RIVER N-62
Location — Lsd. Sec. Twp. Rge. W. M
Date: OCT 14 1973
Weather Condition: Road Conditions: WIL
Nearest Town: Norman Wells
Water - Source: RIVER Miles Hauled: Pumped:
Camp Distance from Rig: 7 mile
Reason for Extra L. Plant: Camp

OPERATOR	Rig No.	Drill Pipe String No.	Size	Tool Joint	Type Thd
WESTERN DECALTA	74 DWKS N4	2	3½	4¾ O.D	IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D 250	7"
2			
3.			

LAST CASING TUBING OR LINER Size	Make	Wt. & Gr	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
7	SEAMLESS	20 S15	16	623.70	16.30	510	CEMENTED W/135 SKS

TIME DISTRIBUTION – HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	4¼		
Reaming	½	½	1½
Conditioning Mud & Circulating		3½	
Trips	3½	3¾	4¾
Lubricate Rig	¼	¼	
Deviation Survey			
Test B.O.P			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			1½
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.	
No. of Lines	6 Size 1
Feet Slipped	505
Feet Cut Off	505
Present Length	4995
Ton Mi. or Trips Since Last Cut	270
Cumulative Ton Mi. or Trips	3519.
No. of Days From Spud	22
Cumulative Rotating Hrs.	

MORNING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		Ft.
59	Stands D.P.		Ft.
1	Singles D.P.	36.56.92	Ft.
7	D.C. 3¾ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D		Ft.
	Stb. Body O.D		Ft.
1	Rmr. Body O.D	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	28.56	Ft.
	Total	41.95	Ft.
Wt. of String	62m		Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease			Jts.

BIT RECORD		
Bit No	12	
Size	6¼	
Mfg	HW	
Type	J33	
Nozzle No	2	1
Nozzle Size	11	10
Ser. No	VR514	
Depth Out		
Depth In	3642	
Total Ftg		
Total Hr Run		
Cond. of Bit		
Reamer No		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD		
Time	1:00	3:00
Weight	9.3	9.4
Visc.-Sec.	61	63
W.L.-C.C	12	
FL TR. CK	2/32	
PH	12	12
SD Cont. %		
Pressure Gradient		

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

Driller: Dwayne Silva

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
4156	4195	38	D			60	22		5"	124			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	2:00	2						DRLG.
2:00	2:15	¼						RIG SERV
2:15	4:30	2¼						DRLG
4:30	5:00	3½						PULL 15 STD. DUMMY TRIP TIGHT

HELICOPTER Made ONE TRIP To Norman Wells For Shlumberger Equipment hauled TWO Loads Fuel, Two Pallets Cement + Took Empty Fuel Tanks + Cut Back To Camp SITE. Two Trips CREW Change.

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		Ft.
59	Stands D.P		Ft.
1	Singles D.P	36.93.72	Ft.
7	D.C. 3¾ I.D. O.D	200.95	Ft.
11	D.C. 3¾ I.D. O.D	300.77	Ft.
	Stb Body O.D		Ft.
	Stb. Body O.D		Ft.
1	Rmr Body O.D	4.85	Ft.
1	Subs O.D	2.95	Ft.
	Bit or C.B		Ft.
	Kelly Down		Ft.
	Total		Ft.
Wt. of String	62 000		Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease			Jts.

BIT RECORD		
Bit No	12	
Size	6¼	
Mfg	HW	
Type	J33	
Nozzle No	2	1
Nozzle Size	11	10
Ser. No	VR514	
Depth Out		
Depth In	3642	
Total Ftg		
Total Hr Run		
Cond. of Bit		
Reamer No		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD		
Time	11:00	
Weight		
Visc.-Sec	75	
W.L.-C.C.	12.6	
FL TR. CK		
PH		
SD Cont. %		
Pressure Gradient		

Mud & Chemicals Added: Type / Amt. / Type / Amt.
CMC 50 lbs
Pellets 100 lbs
Gel 500 lbs

Driller: Dave Aparth

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
4195													

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Serv BOP's + Motor shut off's ok
8:15	9:30	1¼						Finish Dummy Trip
9:30	10:00	½						Ream to Bottom
10:00	11:30	3½						Circ + Condition Mud
11:30	1:00	2½						Trip out to Log
~~5:00~~	~~5:30~~	~~½~~						~~Rig up to log~~
~~5:30~~								~~Log~~

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		Ft.
59	Stands D.P.		Ft.
1	Singles D.P.	36.56.92	Ft.
7	D.C. 3¾ I.D. O.D	200.95	Ft.
11	D.C. 4¾ I.D. O.D	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb Body O.D		Ft.
	Rmr Body O.D		Ft.
1	Subs O.D	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	33.41	Ft.
	Total	41.95	Ft.
Wt. of String	63m.		Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease			Jts.

BIT RECORD		
Bit No	13	
Size	6¼	
Mfg	Sec	
Type	M44N	
Nozzle No	3	
Nozzle Size	12	
Ser. No	442899	
Depth Out		
Depth In		
Total Ftg		
Total Hr Run		
Cond. of Bit		
Reamer No		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

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

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

Driller:

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
4195													

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:00	1						Finish Trip
5:00	5:30	½						Rig up Loggers
5:30	6:30	1						Log
6:30	7:45	1¼						Run In w/6¼ bit
9:45	10:00	¼						BREAK CIRC.
10:00	11	1						CLEAN TO ~~BOTTOM~~. out Bridge From 3385-3415
11	11:30	½						RUN IN
11:30	12	½						CLEAN TO BOTTOM.

Measure 4201.32
Board 4195.72
5.60 Over

GUTHRIE McLAREN Drilling Co.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIVER 0-62 N

Date: OCT 13 1973

Location — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. M.

Weather Condition: ___ Road Conditions: Wet

Nearest Town: Fairview 25 Miles Hauled ___ Water - Source: RIVER Pumped ___ Camp Distance from Rig: Trailer Reason for Extra L. Plant: Camp

OPERATOR: Western Decalta

SIGNATURE OF OPERATOR'S REPRESENTATIVE: ___

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

Rig No. 7H DWKS RM

Drill Pipe String: No. ___ Size 5H

Tool Joint 4 3/4 C.D. Type Thd. IF

PUMPS

No	MANUFACTURE	TYPE	STROKE LENGTH
1.	EMSCO	D550	7"
2.			
3.			

LAST CASING TUBING OR LINER

Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
7"	SEAMLESS	23 SRS	16	523.70	10.50	510	CEMENTED W/135 SKS

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	7 3/4	7	6 3/4
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig	1/4	1/2	1/4
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig		3/4	1 1/4
Cores			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.	–
No. of Lines	8 Size 1"
Feet Slipped	505
Feet Cut Off	505
Present Length	4995
Ton Mi. or Trips Since Last Cut	198
Cumulative Ton Mi. or Trips	3447
No. of Days From Spud	21
Cumulative Rotating Hrs.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
57	Stands D.P.	3502.04	Ft.
	Singles D.P.		Ft.
7	D.C. 5 1/4 I.D. O.D.	200.95	Ft.
11	D.C. 4 3/4 I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	6.56	Ft.
	Total	4018	Ft.

Wt. of String: 60 m. Lbs.
Pipe in Hole: 114 Jts.
Pipe on Racks: 23 Jts.
Total Pipe on Lease: 137 Jts.

BIT RECORD

Bit No.	12		
Size	6 1/4		
Mfg.	HW		
Type	J33		
Nozzle No.	2	1	
Nozzle Size	11	10	
Ser. No.	VR514		
Depth Out			
Depth In	3642		
Total Ftg.	376.		
Total Hr. Run	32 1/2		
Cond. of Bit			
Reamer No.			
Reamer Type			

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

MUD RECORD

Time	1:00	4:00	7:00
Weight	9.3	9.3	
Visc.-Sec.	43	49	
W.L.-C.C.			
FL TR. CK			
PH	12.0	12.0	
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
PELTEX	400 #		

Driller: Reagan Lilson

FOOTAGE

From	To	Ftge.	LR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)
3935	4018	85	D		

Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
60	20000	1000	5"				

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	1/4						RIG SERV.
1215	500	7 3/4						DRLG.
								helicopter hauled 3 Loads Fuel To Norman Wells For Schlumberger + Return Took Tanks Back To Camp 2 Shift Changes

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO			
	Stands D.P.		Ft.
116	Singles D.P.	3564.24	Ft.
7	D.C. 5 1/4 I.D. O.D.	200.45	Ft.
11	D.C. 4 3/4 I.D. O.D.	300.77	Ft.
	Stb Body O.D.		Ft.
	Stb. Body O.D.	4.55	Ft.
1	Rmr. Body O.D.		Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	11.19	Ft.
	Total	4085.	Ft.

Wt. of String: 60.000 Lbs.
Pipe in Hole: 116 Jts.
Pipe on Racks: 21 Jts.
Total Pipe on Lease: 137 Jts.

BIT RECORD

Bit No.	12		
Size	6 1/4		
Mfg.	HW		
Type	J33		
Nozzle No.	2 = 1		
Nozzle Size	11 = 10		
Ser. No.	VR514		
Depth Out			
Depth In	3642		
Total Ftg.	443		
Total Hr. Run	39 1/2		
Cond. of Bit			
Reamer No.			
Reamer Type			

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

MUD RECORD

Time	9:00	1:00	3:00
Weight	9.1	9.1	9.2
Visc.-Sec.	50	40	42
W.L.-C.C.	13	10.1	10.5
FL TR. CK			
PH	12	12	12
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
Peltex	50 lbs		

Driller: Dave Olfarth

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)
4018	4085	67	DRD		

Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
60	20000 21000	1100	5"	120			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	1/4						Rig Serv BOP's + Motor shut off's ok.
8:15	3:15	7						DRLG 6 1/4" hole
3:15	4:00	3/4						Repair Nipple on value to stand pipe
								USING D311 Light plant
								USING D500 Slider Cats

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO			
59	Stands D.P.	3626.57	Ft.
	Singles D.P.		Ft.
7	D.C. 5 1/4 I.D. O.D.	200.95	Ft.
11	D.C. 4 3/4 I.D. O.D.	300.77	Ft.
	Stb Body O.D.		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.58	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	19.91	Ft.
	Total	4156	Ft.

Wt. of String: 62 000 Lbs.
Pipe in Hole: 118 Jts.
Pipe on Racks: 19 Jts.
Total Pipe on Lease: 137 Jts.

BIT RECORD

Bit No.	12		
Size	6 1/4		
Mfg.	HW		
Type	J33		
Nozzle No.	2 = 1		
Nozzle Size	11 = 10		
Ser. No.	VR514		
Depth Out			
Depth In	3642		
Total Ftg.	514		
Total Hr. Run	46 1/4		
Cond. of Bit			
Reamer No.			
Reamer Type			

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

MUD RECORD

Time	1:00	4:00	7:00
Weight	9.3	9.3	9.3
Visc.-Sec.	43	44	45
W.L.-C.C.			12.1
FL TR. CK.			
PH	12.0	12.0	12.0
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)
4055	4156	71	DRD		

Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
60	40000	1100	5"	120			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:45	3/4						Finish repairing valve on standpipe
4:45	5:00	1/4						Rig Serv BOP's + Pipe rams ok.
5:00	10:15	5 1/4						DRLG 6 1/4" hole
10:15	10:30	1/4						WORK ON PUMP.
10:30	12:00	1 1/2						DRLG.

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEEKE RIVER N A-62
Location — Lsd. Sec. Twp. Rge. W. M.
Date: OCT 12 1973

Weather Condition | Road Conditions: Bad | Nearest Town: Grande Prairie | Water - Source: RIVER | Miles Hauled | Pumped | Camp Distance from Rig: 7 MILES | Reason for Extra L. Plant: CAMP

OPERATOR: WESTERN DECALTA

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R Rutherford

Rig No.	Drill Pipe String No.	Drill Pipe String Size	Tool Joint O.D.	Type Thd
#4 DWKS	2	3½	4¾	IF

PUMPS No	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D 350	7"
2.			
3			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	SEMLESS	20 SHS	16	523.70	10.80	510	CEMENTED w/ 135SK

TIME DISTRIBUTION – HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	7¾	7½	7¾
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig	¼	¼	¼
Deviation Survey		¼	
Test B O P			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	5	8	8

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.
No. of Lines 5 Size 1
Feet Slipped 505
Feet Cut Off 505
Present Length 4995
Ton Mi. or Trips Since Last Cut 148
Cumulative Ton Mi. or Trips 3447
No. of Days From Spud 21
Cumulative Rotating Hrs.

MORNING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		Ft.
52	Stands D.P.		Ft.
1	Singles D.P.	32.23.12	Ft.
11	D.C. 3 4¾ I.D. O.D.	300.77	Ft.
7	D.C. 5 ¼ I.D. O.D.	200.95	Ft.
	Stb Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	26.26	Ft.
	Total	37.54	Ft.

Wt. of String 60m. Lbs.
Pipe in Hole 105 Jts.
Pipe on Racks 27 Jts.
Total Pipe on Lease 122 Jts.

BIT RECORD	
Bit No.	12
Size	6¼
Mfg	HW
Type	J33
Nozzle No.	2 1
Nozzle Size	11 10
Ser. No.	VR 514
Depth Out	
Depth In	3642
Total Ftg	106
Total Hr Run	9½
Cond. of Bit	
Reamer No.	
Reamer Type	

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

MUD RECORD Time	2:00	4:00	7.00
Weight	9.3	9.3	9.4
Visc -Sec	47	44	62
W L -C.C			
FL TR CK			
PH	12.0	12.0	12.5
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added: Type SODA ASH Amt. 25 lbs; Type / Amt.

Driller: Dave Ashworth

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3655	3755	105	D			60	20,000	1100	5"	120			

Deviation Record: Depth / Dev / Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D T	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1:45	1¾						DRLG
1:45	2:00	¼						RIG SERV.
2:00	8:00	6						DRLG.

helecopter hauled 2 Loads Fuel
1 Load Pelter
2 Loads Cat
2 Crew Changes
1 Trip Normanwell
+ Return.

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		Ft.
	Stands D.P.		Ft.
108	Singles D.P.	3315.61	Ft.
11	D.C. 3 4¾ I.D. O.D.	300.77	Ft.
7	D.C. ¼ 5 I.D. O.D.	200.95	Ft.
	Stb Body O.D.		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	13.87	Ft.
	Total	3539.	Ft.

Wt. of String 58000 Lbs.
Pipe in Hole 108 Jts.
Pipe on Racks 14 Jts.
Total Pipe on Lease 122 Jts.

BIT RECORD	
Bit No.	12
Size	6¼
Mfg	HW
Type	J33
Nozzle No.	2 = 1
Nozzle Size	11 = 10
Ser. No.	VR514
Depth Out	
Depth In	3642
Total Ftg	197
Total Hr Run	17
Cond. of Bit	
Reamer No.	
Reamer Type	

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

MUD RECORD Time	10:00	1:00	3:00
Weight	42	93	42
Visc -Sec	74	60	42
W L -C C		16	15.2
FL TR CK			
PH	12	12	12
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added: Type Soda Ash 400 lbs; Type Peltex 200 lb

Driller: Dave Ashworth

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3559	3639	81	DRD			60	20,000	1100	5"	120			

Deviation Record: Depth 3772 / Dev 2¼°

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D T	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Serv ✓ BOP'S + Motor Shut off's ok.
8:15	8:30	¼						Survey.
8:30	4:00	7½						DRLG 6¼ hole

Using D311 Light Plant
" " 500 Skidder Cat.

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		Ft.
55	Stands D.P.		Ft.
1	Singles D.P.	34.08.54	Ft.
11	D.C. 3 4¾ I.D. O.D.	300.77	Ft.
7	D.C. ¼ 5 I.D. O.D.	200.95	Ft.
	Stb. Body O.D.		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	16.94	Ft.
	Total	3935	Ft.

Wt. of String 60 Lbs.
Pipe in Hole 111 Jts.
Pipe on Racks 11 Jts.
Total Pipe on Lease 122 Jts.

BIT RECORD	
Bit No.	12
Size	6¼
Mfg	HW
Type	J33
Nozzle No.	2=1
Nozzle Size	11=10
Ser. No.	VR514
Depth Out	
Depth In	3642
Total Ftg	293
Total Hr Run	24¾
Cond. of Bit	
Reamer No.	
Reamer Type	

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

MUD RECORD Time	5:00	9:00	11:00
Weight	9.1	9.1	9.2
Visc.-Sec.	45	44	48
W.L.-C.C.		16	
FL TR. CK.		3/32	
PH	12.0	12.0	12.0
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added: Type PELTEX Amt. 50 lb; Type / Amt.

Driller

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3939	3935	96	DRD			60	20,000	1100	5"	120			

Deviation Record: Depth / Dev / Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D T	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼						Rig Serv ✓ BOP's + Pipe Rams ok.
4:15	12:00	7¾						DRLG 6¼ hole

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIVER N-62
Location — Lsd. Sec. Twp. Rge. W. M.
Date: Oct 11 19 73

Weather Condition: CLEAR | Road Conditions: NIL | Nearest Town: NORMAN WELLS | Water - Source: RIVER | Miles Hauled | Pumped | Camp Distance from Rig: 7 miles | Reason for Extra L. Plant: CAMP

OPERATOR: WESTERN DECALTA

Rig No.: 7-M | DWKS: N-4 | Drill Pipe String: No. 8, Size 3½ | Tool Joint: 4¾ O.D. | Type Thd.: IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C-350	7"
2.			
3			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	SEMLESS	20 SKS	16	523.70	10.80	510	CEMENTED @ 135 SKS

TIME DISTRIBUTION – HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	7¾	7	1¾
Reaming			
Conditioning Mud & Circulating			2
Trips		¼	4¼
Lubricate Rig	¼	¼	
Deviation Survey		¼	
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.	
No. of Lines	8 Size 1
Feet Slipped	505
Feet Cut Off	505
Present Length	4995
Ton Mi. or Trips Since Last Cut	198
Cumulative Ton Mi. or Trips	3447
No. of Days From Spud	21
Cumulative Rotating Hrs.	

MORNING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
49	Stands D.P.		Ft.
1	Singles D.P.	30.37.01	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	53.47	Ft.
	Total	3580	Ft.

Wt. of String: 58 M Lbs.
Pipe in Hole: 99 Jts.
Pipe on Racks: 12 Jts.
Total Pipe on Lease: 111 Jts.

BIT RECORD	
Bit No.	11
Size	6¼
Mfg.	H.W.
Type	J-33
Nozzle No.	2 1
Nozzle Size	10 11
Ser. No.	VR824
Depth Out	
Depth In	3086
Total Ftg.	494
Total Hr Run	55¾
Cond. of Bit	
Reamer No.	
Reamer Type	

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

MUD RECORD			
Time	2:00	5:00	7:00
Weight	9.2	9.2	9.2
Visc.-Sec	44	43	43
W.L.-C.C.	10.0		
FL TR CK	3/32		
PH	10.5	10.5	10.5
SD Cont. %			
Pressure Gradient			

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

Driller: [signature]

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3509	3580	71	D			60	22 M	1000	5"	120			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	1.15	1¼						DRLG
1.15	1.30	¼						RIG SERV
1.30	8.00	6½						DRLG
								Helicopter Two Trips To Norman Wells Crew Change & Groceries + Supplies hauled Two loads pipe ONE LOAD Fuel 2 Crew Change.

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
50	Stands D.P.		Ft.
1	Singles D.P.	30.98.64	Ft.
7	D.C. 5¼ I.D. O.D.	200.94	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb Body O.D.		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	34.74	Ft.
	Total	36.42	Ft.

Wt. of String: 58 m Lbs.
Pipe in Hole: Jts.
Pipe on Racks: Jts.
Total Pipe on Lease: Jts.

BIT RECORD	
Bit No.	11
Size	6¼
Mfg.	H.W.
Type	J 33
Nozzle No.	2 1
Nozzle Size	10 11
Ser. No.	VR824
Depth Out	3642
Depth In	3086
Total Ftg.	556
Total Hr Run	62¾
Cond. of Bit	111
Reamer No.	
Reamer Type	

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

MUD RECORD			
Time	9:00	1:00	3:00
Weight	9.2	9.3	9.3
Visc.-Sec	68	48	49
W.L.-C.C.			
FL TR CK			
PH	11.0	9.5	10.0
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added: Type | Amt | Type | Amt
SODA-ASH 300#
CAUSTIC 50#
PELTEX 25#

Driller: [signature]

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3580	3642	62	D			60	22000	1000	5"	120			
						60	22000	1000	5"	120			

Deviation Record: Depth 3642 | Dev 2½° | Direction | Depth | Dev | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.45	¾						DRLG
8.45	9.00	¼						RIG SERV. & B.O.P. & CHECK MOTOR HOUSE
9.00	3.15	6¼						DRLG
3.15	3:30	¼						~~HOIST~~ Drop Survey
3.30	4.00	½						Pull Out Bit #11
								Using D 311 Light Plant
								" D 500 Skidder Cat.

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
51	Stands D.P.	31.29.77	Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb Body O.D.		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	16.61	Ft.
	Total	36.55	Ft.

Wt. of String: 60 m Lbs.
Pipe in Hole: Jts.
Pipe on Racks: Jts.
Total Pipe on Lease: Jts.

BIT RECORD	
Bit No.	12
Size	6¼
Mfg.	H.W.
Type	J 33
Nozzle No.	2 1
Nozzle Size	11 10
Ser. No.	VR514
Depth Out	
Depth In	3642
Total Ftg.	13
Total Hr Run	1¾
Cond. of Bit	
Reamer No.	
Reamer Type	

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

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

Mud & Chemicals Added: Type | Amt. | Type | Amt
~~SODA ASH 1000~~
Soda Ash 1000

Driller

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3642	3655	13	D			66	20000	1200	5"	123			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	6.15	2¼						Pull Out Change Bits & Blind Rams
6.15	8.15	2						Run in Hole With Bit #12
8.15	9.15	1						DRLG
9.15	10.15	2						CONDITION MUD
10.15	12.00	¾						DRLG

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIVER N-62

Location — Lsd. Sec. Twp. Rge. W. M.

Date: OCT 10 to 73

Weather Condition: CLEAR | Road Conditions: NIL | Nearest Town: NORMAN WELLS | Water - Source: RIVER | Miles Hauled | Pumped | Camp Distance from Rig: 7 miles | Reason for Extra L. Plant: Camp

OPERATOR: WESTERN DECALTA

Rig No. 7-H DWKS N-4 | Drill Pipe String: No. 2, Size 9 5/8 | Tool Joint: Type Thd 4 3/4 O.D IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C-350	7"
2.			
3.			

LAST CASING TUBING OR LINER

Size	Make	Wt. & Gr.	No Joints	Feet	RKB to CSG. HD.	Set at	Remarks
7"	SEMLESS	20 SKS	16	523.70	10.80	510	CEMENTED @ 135 SKS 3 SKS COAST CEMENT 2% GEL

TIME DISTRIBUTION — HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	7 3/4	5	7 3/4
Reaming			
Conditioning Mud & Circulating		2 3/4	
Trips			
Lubricate Rig	1/4	1/4	1/4
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.
No. of Lines 8 Size 1
Feet Slipped 505
Feet Cut Off 505
Present Length 4495
Ton Mi. or Trips Since Last Cut 143 (4 1/2)
Cumulative Ton Mi. or Trips 3392
No. of Days From Spud 20
Cumulative Rotating Hrs. 230 3/4

MORNING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR	
46	Stands D.P.	2853.85 Ft.
1	Singles D.P.	Ft.
7	D.C. 5 1/4 I.D. O.D	200.95 Ft.
11	D.C. 4 3/4 I.D. O.D	300.77 Ft.
	Stb Body O.D	Ft.
	Stb. Body O.D	Ft.
1	Rmr Body O.D	4.85 Ft.
1	Subs O.D.	2.95 Ft.
	Bit or C.B	Ft.
	Kelly Down	25.63 Ft.
	Total	3389 Ft.
Wt. of String	58,000	Lbs
Pipe in Hole	93	Jts.
Pipe on Racks	18	Jts.
Total Pipe on Lease	111	Jts

BIT RECORD

Bit No.	11
Size	6 1/4
Mfg	H.W.
Type	J.33
Nozzle No.	2 1
Nozzle Size	10 11
Ser. No.	VR824
Depth Out	
Depth In	3086
Total Ftg	303
Total Hr Run	35 1/4
Cond. of Bit	
Reamer No.	
Reamer Type	

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

MUD RECORD

Time	1.00	4.00	7.00
Weight	9.3	9.2	9.2
Visc.-Sec	35	37	35
W.L.-C.C			
FL TR CK			
PH	10.5	10.5	10.6
SD Cont %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt
GEL	100#		

Driller: Brian Spence

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Siz.	Pump No. 1 S.P.M	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3316	3389	~~69~~ 73	D			60	20M	1000	5"	120			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	2:30	2 1/2						DRLG
2:30	2:45	1/4						RIG SERV
2:45	8:00	5 1/4						DRLG
								[illegible]
								[illegible]
								CHECKED ALL MOTORS FOR ANTI FREEZE GOOD TO 60° BELOW
								HELD SAFETY MEETING "WORKING WITH SPOOLINE AND CARE OF SPOOLINE"

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR	
47	Stands D.P.	Ft.
1	Singles D.P.	29 14.14 Ft.
7	D.C. 5 1/4 I.D. O.D	200.95 Ft.
11	D.C. 4 3/4 I.D. O.D	300.77 Ft.
	Stb Body O.D	Ft.
	Stb Body O.D	Ft.
1	Rmr Body O.D	4.85 Ft.
1	Subs O.D	2.95 Ft.
	Bit or C.B	Ft.
	Kelly Down	19.34 Ft.
	Total	3443 Ft.
Wt. of String	58,000	Lbs
Pipe in Hole	95	Jts.
Pipe on Racks	16	Jts.
Total Pipe on Lease	111	Jts

BIT RECORD

Bit No.	11
Size	6 1/4
Mfg	HW
Type	J 33
Nozzle No.	2 1
Nozzle Size	10 11
Ser. No.	VR 824
Depth Out	
Depth In	3086
Total Ftg	357
Total Hr Run	24 1/4
Cond. of Bit	
Reamer No.	
Reamer Type	

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

MUD RECORD

Time	8:00	3.00	5:00
Weight	9.2	9.3	9.3
Visc.-Sec	35	61	58
W.L.-C.C	10.6		
FL TR CK	0/32		
PH	10.0	11.0	11.0
SD Cont %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt
GEL	200#		
CAUSTIC	50#		

Driller: Dwayne [illegible]

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3389	3443	54	D			60	20000	1000	5"	120			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	9:15	1 1/4						DRLG.
9:15	9:30	1/4						RIG SERV - BOPS
9:30	11:30	2						DRLG.
11:30	11:45	1/4						CIRC TO TEST
11:45	12:00	1/4						DRLG
12:00	2:30	2 1/2						CIRC TO TEST - CONDITION MUD
2:30	4:00	1 1/2						DRLG
								[illegible]
								[illegible]
								[illegible]
								[illegible]

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR	
48	Stands D.P.	Ft.
1	Singles D.P	29 14.83 Ft.
7	D.C. 5 1/4 I.D. O.D	200.95 Ft.
11	D.C. 4 3/4 I.D. O.D	300.77 Ft.
	Stb Body O.D	Ft.
	Stb Body O.D	Ft.
1	Rmr Body O.D	4.85 Ft.
1	Subs O.D.	2.95 Ft.
	Bit or C.B.	Ft.
	Kelly Down	25.05 Ft.
	Total	3509 Ft.
Wt. of String	58,000	Lbs.
Pipe in Hole	97	Jts.
Pipe on Racks	14	Jts.
Total Pipe on Lease	111	Jts.

BIT RECORD

Bit No.	11
Size	6 1/4
Mfg	HW
Type	J 33
Nozzle No.	2 1
Nozzle Size	10 11
Ser. No.	VR824
Depth Out	
Depth In	3086
Total Ftg	423
Total Hr Run	48
Cond. of Bit	
Reamer No.	
Reamer Type	

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

MUD RECORD

Time	7.00	9.00	11:00
Weight	9.3	9.2	9.2
Visc.-Sec	56	45	45
W.L.-C.C			
FL TR CK			
PH	11.0	10.0	10.0
SD Cont %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt
PELTEX	50#		
CAUSTIC	50#		

Driller

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3443	3509	66	D			60	20000	1000	5"	120			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:45	1 3/4						DRLG.
5:45	6:00	1/4						RIG SERV.
6:00	12:00	6						DRLG

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: KEELE RIVER N-62
Location — Lsd. Sec. Twp. Rge. W. M
Date: Oct 9 1973

Weather Condition: Cold | Road Conditions: N.L | Nearest Town: NORMAN WELLS | Water - Source: RIVER | Miles Hauled | Pumped | Camp Distance from Rig: 7 MILES | Reason for Extra L. Plant: CAMP

OPERATOR: WESTERN DECALTA

Rig No.: 7-H DWKS N.H | Drill Pipe String: No. 2, Size 4½ | Tool Joint: 4¾ O.D | Type Thd: IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS

No	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	C-350	7"
2.			
3			

LAST CASING TUBING OR LINER

Size	Make	Wt. & Gr	No Joints	Feet	RKB to CSG. HD.	Set at	Remarks
7"	SEMLESS	20 SKS	16	523.70	10.30	510	CEMENTED @ 135 SKS
							3 SKS COAST CEMENT
							2% CAL

TIME DISTRIBUTION – HOURS

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

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.
No. of Lines: 8 Size: 1
Feet Slipped: 505
Feet Cut Off: 505
Present Length: 4495
Ton Mi. or Trips Since Last Cut: 143 (4½)
Cumulative Ton Mi. or Trips: 3392
No. of Days From Spud: 19
Cumulative Rotating Hrs.: 210¼

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO			
43	Stands D.P.	2637.17	Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D	200.95	Ft.
11	D.C. 4¾ I.D. O.D	300.77	Ft.
	Stb Body O.D		Ft.
	Stb Body O.D		Ft.
1	Rmr Body O.D	4.85	Ft.
1	Subs O.D	2.95	Ft.
	Bit or C.B		Ft.
	Kelly Down	39.31	Ft.
	Total	3186	Ft.

Wt. of String: 56,000 Lbs.
Pipe in Hole: 86 Jts.
Pipe on Racks: 25 Jts.
Total Pipe on Lease: 111 Jts.

BIT RECORD

Bit No	11	
Size	6¼	
Mfg	H.W.	
Type	J-33	
Nozzle No	2	1
Nozzle Size	10	11
Ser. No	VR824	
Depth Out		
Depth In	3086	
Total Ftg	100	
Total Hr Run	12½	
Cond. of Bit		
Reamer No		
Reamer Type		

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

MUD RECORD

Time	2:00	5:00	7:00
Weight	9.1	9.1	9.1
Visc.-Sec	34	35	36
W.L.-C.C			
FL TR. CK			
PH	10.0	9.5	9.5
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
GEL	1000#		

Driller: Bruce Spence

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3117	3186	69	D			60	20,000	1000	5"	120			

Deviation Record: Depth 3126 Dev 4°

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1:15	1¼						DRLG
1:15	1:30	¼						RIG SERV
1:30	1:45	¼						SURVEY
1:45	8:00	6¼						DRLG
								[illegible] 4 [illegible] DRILL PIPE [illegible]
								[illegible] 2 JOINTS [illegible] PIPE
								4 HOURS TRANSPORTION FROM RIG KEELE R[illegible]
								TO CAMP LOCATION [illegible]
								PICKED UP [illegible] FROM DRILLING
								LOCATION STOPPED AT OLD RIG SITE [illegible]

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO			
44	Stands D.P	2729.40	Ft
	Singles D.P.		Ft
7	D.C. 5¼ I.D. O.D	200.95	Ft
11	D.C. 4¾ I.D. O.D	300.77	Ft
	Stb Body O.D		Ft
	Stb Body O.D		Ft
1	Rmr Body O.D	4.85	Ft.
1	Subs O.D	2.95	Ft.
	Bit or C.B		Ft.
	Kelly Down	11.72	Ft.
	Total	3249	Ft.

Wt. of String: 56,000 Lbs
Pipe in Hole: 59 Jts.
Pipe on Racks: 22 Jts.
Total Pipe on Lease: 111 Jts

BIT RECORD

Bit No	11	
Size	6¼	
Mfg	H.W.	
Type	J 33	
Nozzle No	2	1
Nozzle Size	10	11
Ser. No	VR824	
Depth Out		
Depth In	3086	
Total Ftg	163	
Total Hr Run	26	
Cond. of Bit		
Reamer No		
Reamer Type		

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

MUD RECORD

Time	8:00	12:00	3:00
Weight	9.1	9.0	9.1
Visc.-Sec.	36	35	35
W.L.-C.C			
FL TR. CK			
PH	9.5	10.5	10.5
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
~~[illegible]~~			
CAUSTIC 50#			

Driller: Dwayne Silver

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3186	3249	63	D			50	20,000	1000	5"	120			
						60	20,000	1000	5"	120			

Deviation Record: Depth 3245 Dev 4°

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9:00	3:15	¼						SURVEY
3:15	12:00	3¾						DRLG 6¼ HOLE
12:00	12:15	¼						RIG SERV & BOPS
12:15	4:00	3¾						DRLG 6¼ HOLE
								USING DOG SKIDDER CATS
								" D311 LIGHT PLANT
								SAFETY MEET[illegible]
								BLOWOUT DR[illegible]

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO			
45	Stands D.P		Ft
1	Singles D.P	279.40	Ft
7	D.C. 5¼ I.D. O.D	200.95	Ft
11	D.C. 4¾ I.D. O.D	300.77	Ft
	Stb Body O.D		Ft
	Stb Body O.D		Ft
1	Rmr Body O.D	4.85	Ft.
1	Subs O.D	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	15.08	Ft.
	Total	3316	Ft.

Wt. of String: 58,000 Lbs.
Pipe in Hole: 91 Jts.
Pipe on Racks: 20 Jts.
Total Pipe on Lease: 111 Jts.

BIT RECORD

Bit No	11	
Size	6¼	
Mfg	H.W.	
Type	J 33	
Nozzle No	2	1
Nozzle Size	10	11
Ser. No	VR824	
Depth Out		
Depth In	3086	
Total Ftg	230	
Total Hr Run	27½	
Cond. of Bit		
Reamer No		
Reamer Type		

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

MUD RECORD

Time	5:00	8:00	11:00
Weight	9.1	9.2	9.2
Visc.-Sec.	35	35	35
W.L.-C.C	12.5		
FL TR. CK	8/32		
PH	10.5	10.5	10.5
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt

Driller

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3249	3316	67				60	20000	1000	5"	[illegible]			

Deviation Record: Depth 3809 Dev 4°

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	7:15	3¼						DRLG 6¼ HOLE
7:15	7:30	¼						RIG SERV.
7:30	10:45	3¼						DRLG 6¼ HOLE
10:45	11:00	¼						SURVEY
11:00	12:00	1						DRLG
								DESANDER
								UNDER = 12.1
								OVER = 9.0

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIVER N-62

Location — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. ___ M.

Date: Oct 8 1973

Weather Condition: SNOWING | Road Conditions: N.L | Nearest Town: NORMAN WELLS | Water - Source: RIVER | Miles Hauled | Pumped | Camp Distance from Rig: 7 miles | Reason for Extra L. Plant Camp

OPERATOR: WESTERN DECALTA

Rig No. 7-H | DWKS N-4

Drill Pipe String: No. 2 | Size 3½

Tool Joint: H 3/4 O.D | Type Thd. IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	C-350	7
2.			
3			

LAST CASING TUBING OR LINER

Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
7"	SEAMLESS	20 SKS	16	523.70	10.80	510	CEMENTED @ 135 SKS 3 SKS COARSE CEMENT 2% CAL.

TIME DISTRIBUTION — HOURS

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

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.	
No. of Lines	8 Size 1
Feet Slipped	505
Feet Cut Off	505
Present Length	4495
Ton Mi. or Trips Since Last Cut	143 2½
Cumulative Ton Mi. or Trips	3292
No. of Days From Spud	18
Cumulative Rotating Hrs.	187¾

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb Body O.D		Ft.
	Stb. Body O.D		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down		Ft.
	Total		Ft.
Wt. of String			Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease			Jts

BIT RECORD

Bit No.	11	
Size	6¼	
Mfg	H.W.	
Type	J-33	
Nozzle No.	2	1
Nozzle Size	10	11
Ser. No.	VR824	
Depth Out		
Depth In	3086	
Total Ftg		
Total Hr Run		
Cond of Bit		
Reamer No.		
Reamer Type		

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

MUD RECORD

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

Mud & Chemicals Added

Type	Amt.	Type	Amt.
GEL	1000#		
CAUSTIC	50#		

Driller: Brian Sawa

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3086													

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12:15	¼						RIG SERV
12.15								TEAR OUT PUMP CLUTCH - CLEAN
	8:00	7¾						MUD TANKS WHILE WAITING ON
								PUMP CLUTCH

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb Body O.D		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B		Ft.
	Kelly Down		Ft.
	Total		Ft.
Wt. of String			Lbs
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease			Jts

BIT RECORD

Bit No.	11	
Size	6¼	
Mfg	H.W.	
Type	J 33	
Nozzle No.	2	1
Nozzle Size	10	11
Ser. No.	VR824	
Depth Out		
Depth In	3086	
Total Ftg		
Total Hr Run		
Cond of Bit		
Reamer No.		
Reamer Type		

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

MUD RECORD

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

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Dwayne Schera

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3086													

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8:15	¼						RIG SERV & B.O.P.S
8.15	4.00	7¾						WAIT ON PUMP CLUTCH
								FB.
								HELICOPTER hauled 4 loads Fuel
								changed fuel Tanks to Generator Plant
								[illegible] OIL TRUCK TO NORMAN WELLS [illegible]
								[illegible] ONE LOAD Drill pipe.

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
42	Stands D.P.	2576.87	Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb Body O.D		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	30.61	Ft.
	Total	3117	Ft.
Wt. of String		54,000	Lbs.
Pipe in Hole		84	Jts.
Pipe on Racks		27	Jts.
Total Pipe on Lease		111	Jts.

BIT RECORD

Bit No.	11	
Size	6¼	
Mfg	H.W.	
Type	J 33	
Nozzle No.	2	1
Nozzle Size	10	11
Ser. No.	VR824	
Depth Out		
Depth In	3086	
Total Ftg	31	
Total Hr Run	5	
Cond of Bit		
Reamer No.		
Reamer Type		

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

MUD RECORD

Time	7:00	10.00	
Weight	8.6	9.0	
Visc.-Sec.	36	35	
W.L.-C.C.			
FL TR. CK.			
PH	10.0	11.0	
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
GEL	1000#		

Driller

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3086	3117	31	0			60	15	1000	5"	120			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.15	¼						RIG SERV
4.15	5.30	1¼						INSTALL PUMP CLUTCH
5.30	6.45	1¼						RUN IN. W/BIT-11
6.45	7.00	¼						BREAK CIRC.
7.00	12:00	5						DRLG 6¼ HOLE

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIVER N-62

Location — Lsd. Sec. Twp. Rge. W. M

Date: Oct 7 1973

Weather Condition: Cool | Road Conditions: N/A | Nearest Town: NORMAN WELLS | Water - Source: RIVER | Miles Hauled | Pumped ✓ | Camp Distance from Rig: 2 miles | Reason for Extra L. Plant: Camp

OPERATOR: WESTERN DECALTA

Rig No. 7-H | DWKS N-4

Drill Pipe String: No. 2 | Size 3½

Tool Joint: H 3¼ O.D. | Type Thd. IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	C-350	7
2.			
3			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	SEMLESS	20 SRS	16	523.70	10.80	510	CEMENTED @ 135 SK 3 SKS CLASS CEMENT 2% CAL

TIME DISTRIBUTION - HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	5½	7½	
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig		¼	
Deviation Survey		¼	
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other	2½		
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	8		

TIME SUMMARY (Office Use Only)

Day Work

Hrs W/DP

Hrs WO/DP

Hrs Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines 8 Size 1

Feet Slipped 505

Feet Cut Off 505

Present Length 4495

Ton Mi. or Trips Since Last Cut 127 (4)

Cumulative Ton Mi. or Trips 3376

No. of Days From Spud 17

Cumulative Rotating Hrs. 132¾

MORNING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
44	Stands D.P.	2700.94	Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
5	D.C. 4¾ I.D. O.D.	135.87	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	19.44	Ft.
	Total	3065	Ft.

Wt. of String 46,000 Lbs.

Pipe in Hole 88 Jts.

Pipe on Racks 15 Jts.

Total Pipe on Lease 103 Jts.

BIT RECORD		
Bit No.	10	
Size	6¼	
Mfg.	SEC	
Type	MAN	
Nozzle No.	2 1	
Nozzle Size	10 11	
Ser. No.	433511	
Depth Out		
Depth In	3043	
Total Ftg.	22	
Total Hr. Run	5½	
Cond. of Bit		
Reamer No.		
Reamer Type		

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

MUD RECORD			
Time	3.00	5.00	7.00
Weight	9.1	9.1	9.1
Visc.-Sec.	35	33	33
W.L.-C.C.			
FL TR. CK.			
PH	10.0	10.0	10.0
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
GEL	2600#		
CAUSTIC	~~400~~ 50#		

Driller: Brian Spence

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3043	3065	22	D			110	4.50	1,000	5"	120			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	2.30	2½						CLEAN OUT SUMP WITH D-500 CAT'S
2.30	8.00	5½						DRLG 6¼ HOLE
								USING D-50 Light Plant
								D-500 Shooter Cats

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
44	Stands D.P.	2730.01	Ft.
1	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
5	D.C. 4¾ I.D. O.D.	135.87	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	10.07	Ft.
	Total	3086	Ft.

Wt. of String 48,000 Lbs.

Pipe in Hole 89 Jts.

Pipe on Racks 14 Jts.

Total Pipe on Lease 103 Jts.

BIT RECORD		
Bit No.	10	
Size	6¼	
Mfg.	SEC	
Type	MAN	
Nozzle No.	2 1	
Nozzle Size	10 11	
Ser. No.	433511	
Depth Out		
Depth In	3043	
Total Ftg.	43	
Total Hr. Run	13	
Cond. of Bit		
Reamer No.		
Reamer Type		

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

MUD RECORD			
Time	8.00	12.00	
Weight	9.2	9.3	
Visc.-Sec.	36	35	
W.L.-C.C.			
FL TR. CK.			
PH	9.1	9.	
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
GEL	300#		

Driller: Dwayne Sikora

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3065	3086	21	D			110	4.00	1000	5"	120			

Deviation Record: Depth 3085 | Dev 4° | Direction | Depth | Dev | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	3.00	7						DRLG 6¼ HOLE
3.00	3.30	½						RIG SERV. BOP'S & SURVEY
3.30	4.00	½						DRLG 6¼ HOLE
								HOLLISTER CHANGED CREWS, HAULED TWO LOADS FUEL, PICKED UP BULLS STOCK AT DAWSON, LOST TRIP TO NORMAN WELLS FOR NEW CAT TRACKS AND PART OF FRONT TOOL BLISTERED IN

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
44	Stands D.P.		Ft.
1	Singles D.P.	2750.81	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
5	D.C. 4¾ I.D. O.D.	135.87	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	10.07	Ft.
	Total	3086	Ft.

Wt. of String 48,000 Lbs.

Pipe in Hole 89 Jts.

Pipe on Racks 14 Jts.

Total Pipe on Lease 103 Jts.

BIT RECORD		
Bit No.	10	11
Size	6¼	6¼
Mfg.	SEC	H.W.
Type	MAN	J-33
Nozzle No.	2 1	2 1
Nozzle Size	10 11	10 11
Ser. No.	433511	VR324
Depth Out	3086	
Depth In	3043	3086
Total Ftg.	43	
Total Hr. Run	13	
Cond. of Bit	3 5	
Reamer No.		
Reamer Type		

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

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

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3086													

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	8.00	4						REPAIR COMPOUND CHAIN
8.00	8.15	¼						RIG SERV.
8.15	9.30	1¼						WORK ON PUMP CHUCK
9.30	12.00	2½						HOIST BIT #10 + RUN IN COLLARS

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIVER N-62
Location — Lsd. Sec. Twp Rge W. M
Date: Oct 6 1973

Weather Condition: Cool Clear | Road Conditions: NIL | Nearest Town: NORMAN WELLS | Water - Source: RIVER | Miles Hauled | Pumped | Camp Distance from Rig: 7 MILES | Reason for Extra L. Plant: Camp

OPERATOR: WESTERN DECALTA

Rig No. 7-H | DWKS N4 | Drill Pipe String: No. 2, Size 5½ | Type Thd. IF | Tool Joint H 3/4 O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C-350	2
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	SEAMLESS	20 LBS	16	523.70	10.80	510	CEMENTED @ 135 SKS 3 SKS CONST CEMENT 3% CaCl

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.
No. of Lines 8 Size 1
Feet Slipped 505
Feet Cut Off 505
Present Length 4495
Ton Mi. or Trips Since Last Cut 111 3/4
Cumulative Ton Mi. or Trips 3360
No. of Days From Spud 16
Cumulative Rotating Hrs. 169 3/4

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
43	Stands D.P.	Ft.	Bit No.	10	Time	
1	D.P.	2669.86 Ft.	Size	6 1/4	Weight	
7	D.C. 5 1/4 I.D. O.D.	200.95 Ft.	Mfg	SEC	Visc.-Sec.	
			Type	MHN	W.L.-C.C.	
5	D.C. 4 3/4 I.D. O.D.	135.87 Ft.	Nozzle No.	2 1	FL. TR. CK.	
			Nozzle Size	10 11	PH	
	Stb. Body O.D.	Ft.	Ser. No.	433511	SD. Cont. %	
	Stb. Body O.D.	Ft.	Depth Out		Pressure Gradient	
1	Rmr. Body O.D.	4.85 Ft.	Depth In	3043		
1	Subs O.D.	2.95 Ft.	Total Ftg		Mud & Chemicals Added: Type / Amt / Type / Amt	
	Bit or C.B.	Ft.	Total Hr Run			
	Kelly Down	28.52 Ft.	Cond. of Bit			
	Total	3040 Ft.	Reamer No.			
Wt. of String	46,000	Lbs.	Reamer Type			
Pipe in Hole	87	Jts.	Water Charges	Reg. Hrs. / O.T. Hrs.		
Pipe on Racks	16	Jts.	Trucker			
Total Pipe on Lease	103	Jts.	Trucker		Driller: Brian Spence	

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3040													

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	8:00	8						CLEAN OUT SUMP @ 0-500 CATS

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
43	Stands D.P.	Ft.	Bit No.	10	Time	
1	Singles D.P.	2669.86 Ft.	Size	6 1/4	Weight	
	D.C. I.D. O.D.	200.95 Ft.	Mfg	SEC	Visc.-Sec.	
			Type	MHN	W.L.-C.C.	
	D.C. I.D. O.D.	135.87 Ft.	Nozzle No.	2 1	FL. TR. CK.	
			Nozzle Size	10 11	PH	
	Stb. Body O.D.	Ft.	Ser. No.	433511	SD. Cont. %	
	Stb. Body O.D.	Ft.	Depth Out		Pressure Gradient	
1	Rmr. Body O.D.	4.85 Ft.	Depth In	3043		
1	Subs O.D.	2.95 Ft.	Total Ftg		Mud & Chemicals Added: Type / Amt / Type / Amt	
	Bit or C.B.	Ft.	Total Hr Run			
	Kelly Down	28.52 Ft.	Cond. of Bit			
	Total	3043 Ft.	Reamer No.			
Wt. of String	46,000	Lbs.	Reamer Type			
Pipe in Hole	87	Jts.	Water Charges	Reg. Hrs. / O.T. Hrs.		
Pipe on Racks	16	Jts.	Trucker			
Total Pipe on Lease	103	Jts.	Trucker		Driller: Lawrence Shea	

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3040													

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	1/4						RIG SERV & B.O.P.S
8:15	4:00	7 3/4						CLEAN OUT SUMP w/ D 500 CATS
								[illegible]

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
43	Stands D.P.	Ft.	Bit No.	10	Time	
1	Singles D.P.	2669.86 Ft.	Size	6 1/4	Weight	
7	D.C. 5 1/4 I.D. O.D.	200.95 Ft.	Mfg	SEC	Visc.-Sec.	
			Type	MHN	W.L.-C.C.	
5	D.C. 4 3/4 I.D. O.D.	135.87 Ft.	Nozzle No.	2 1	FL. TR. CK.	
			Nozzle Size	10 11	PH	
	Stb. Body O.D.	Ft.	Ser. No.	433511	SD. Cont. %	
	Stb. Body O.D.	Ft.	Depth Out		Pressure Gradient	
1	Rmr. Body O.D.	4.85 Ft.	Depth In	3043		
1	Subs O.D.	2.95 Ft.	Total Ftg		Mud & Chemicals Added: Type / Amt. / Type / Amt	
	Bit or C.B.	Ft.	Total Hr Run			
	Kelly Down	28.52 Ft.	Cond. of Bit			
	Total	3040 Ft.	Reamer No.			
Wt. of String	46,000	Lbs.	Reamer Type			
Pipe in Hole	87	Jts.	Water Charges	Reg. Hrs. / O.T. Hrs.		
Pipe on Racks	16	Jts.	Trucker			
Total Pipe on Lease	103	Jts.	Trucker		Driller	

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3043													

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	8:00	4						DIG HOLES TO BLAST SUMP
8:00	12:00	4						BLAST SUMP & CLEAN OUT @ 0-500 CATS

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIVER N-62

Location — Lsd. Sec. Twp. Rge. W. M.

Date: Oct 5 1973

Weather Condition: Cold | Road Conditions: Nil | Nearest Town: NORMAN WELLS | Water - Source: RIVER | Miles Hauled | Pumped: 3/4 | Camp Distance from Rig: 7 Miles | Reason for Extra L. Plant: Camp

OPERATOR: WESTERN DECALTA

Rig No.: 7-H | DWKS: N-4

Drill Pipe String: No. 2 | Size 3½

Tool Joint: 4 3/4 O.D. | Type Thd: IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C-350	7
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	SEMLESS	20 SRS	16	523.70	10.80	510	CEMENTED @ 135 S
								3 SKS COAT CEMENT
								2 % Cal

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming			
Conditioning Mud & Circulating			
Trips		2¼	
Lubricate Rig		¼	¼
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other	8	5½	7¾
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	8	5	8

TIME SUMMARY (Office Use Only)

Day Work

Hrs W/DP

Hrs WO/DP

Hrs Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines: 8 Size: 1

Feet Slipped: 505

Feet Cut Off: 505

Present Length: 4495

Ton Mi. or Trips Since Last Cut: 111 3½

Cumulative Ton Mi. or Trips: 3360

No. of Days From Spud: 15

Cumulative Rotating Hrs.: 169¾

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		Ft.
43	Stands D.P.		Ft.
1	Singles D.P.	2669.86	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
5	D.C. 4¾ I.D. O.D.	135.87	Ft.
	Stb Body O.D		Ft.
	Stb. Body O.D		Ft.
1	Rmr Body O.D	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B		Ft.
	Kelly Down	28.52	Ft.
	Total	3043	Ft.
Wt. of String	46,000		Lbs.
Pipe in Hole	87		Jts.
Pipe on Racks	16		Jts.
Total Pipe on Lease	103		Jts.

BIT RECORD		
Bit No.	10	
Size	6¼	
Mfg	SEC	
Type	M4N	
Nozzle No.	2	1
Nozzle Size	10	11
Ser. No.	433511	
Depth Out		
Depth In	3043	
Total Ftg		
Total Hr Run		
Cond. of Bit		
Reamer No.		
Reamer Type		

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

Trucker

Trucker

Trucker

MUD RECORD				
Time				
Weight				
Visc.-Sec				
W.L.-C.C				
FL TR CK				
PH				
SD Cont. %				
Pressure Gradient				
Mud & Chemicals Added: Type	Amt.	Type	Amt.	

Driller: Brian Spence

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3043													

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	8:00	8						DIG HOLES TO BLAST SUMP
								USING DOUBLE SACKS CUTS
								TO SUMP PIT
								CHECKED FIRE EXTINGUISHERS
								HELD SAFETY MEETING ON "GOOD HOUSE KEEPING"

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		Ft.
43	Stands D.P.		Ft.
1	Singles D.P.	2669.26	Ft.
7	D.C. 5¼ I.D. O.D.	200.95'	Ft.
5	D.C. 4¾ I.D. O.D.	135.87	Ft.
	Stb Body O.D		Ft.
	Stb Body O.D		Ft.
1	Rmr Body O.D	4.45	Ft.
1	Subs O.D	2.95	Ft.
	Bit or C.B		Ft.
	Kelly Down	28.52	Ft.
	Total	3043	Ft.
Wt. of String	46,000		Lbs.
Pipe in Hole	87		Jts.
Pipe on Racks	16		Jts.
Total Pipe on Lease	103		Jts.

BIT RECORD		
Bit No.	10	
Size	6¼	
Mfg	SEC	
Type	M4N	
Nozzle No.	2	1
Nozzle Size	10	11
Ser. No.	433511	
Depth Out		
Depth In	3043	
Total Ftg		
Total Hr Run		
Cond. of Bit		
Reamer No.		
Reamer Type		

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

Trucker

Trucker

Trucker

MUD RECORD				
Time				
Weight				
Visc.-Sec				
W.L.-C.C				
FL TR CK				
PH				
SD Cont. %				
Pressure Gradient				
Mud & Chemicals Added: Type	Amt.	Type	Amt.	

Driller: Duncan Libera

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3043													

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						RIG SERV & BOPS
8:15	12:30	4¼						DIG HOLES TO BLAST SUMP
12:30	2:45	2¼						RUN IN
2:45	3:00	¼						BREAK CIRC.
3:00	4:00	1						DIG HOLES TO BLAST SUMP & CIRCULATING
								HELICOPTER MADE ONE TRIP TO [illegible]
								WITH TOOLS & MEALS BROUGHT OUT
								DIG SUMPS
								FIVE TRIPS FROM CAMP TO RIG

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		Ft.
43	Stands D.P.		Ft.
1	Singles D.P.	2669.86	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
5	D.C. 4¾ I.D. O.D.	135.87	Ft.
	Stb Body O.D		Ft.
	Stb Body O.D		Ft.
1	Rmr Body O.D	4.85	Ft.
1	Subs O.D	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	28.52	Ft.
	Total	3040	Ft.
Wt. of String	46,000		Lbs.
Pipe in Hole	87		Jts.
Pipe on Racks	16		Jts.
Total Pipe on Lease	103		Jts.

BIT RECORD		
Bit No.	10	
Size	6¼	
Mfg	SEC	
Type	M4N	
Nozzle No.	2	1
Nozzle Size	10	11
Ser. No.	433511	
Depth Out		
Depth In	3043	
Total Ftg		
Total Hr. Run		
Cond. of Bit		
Reamer No.		
Reamer Type		

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

Trucker

Trucker

Trucker

MUD RECORD				
Time				
Weight				
Visc.-Sec.				
W.L.-C.C.				
FL TR. CK.				
PH				
SD Cont. %				
Pressure Gradient				
Mud & Chemicals Added: Type	Amt.	Type	Amt.	

Driller

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3043													

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	7:15	¼						RIG SERV
4:15	7:30	3¼						DIG HOLES TO BLAST SUMP & CIRCULATING
7:30	8:00	½						RIG TO BLAST SUMP & BLAST SAME AT 8:00
8:00	12:00	4						CLEAN OUT SUMP WITH D-500 CATS

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: Keele River N-62

Location — Lsd. Sec. Twp. Rge. W. M.

Date: Oct 4 1973

Weather Condition: COOL | Road Conditions: Nil | Nearest Town: Norman Wells | Water - Source: River | Miles Hauled | Pumped | Camp Distance from Rig: 2 Camp miles | Reason for Extra L. Plant

OPERATOR: Western Dacalta

Rig No. 7 DWKS N4 | Drill Pipe String: No. 2 Size 3½ | Tool Joint 4¾ O.D. | Type Thd. IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Eild R. Rutherford

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C350	5"
2.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	Seamless	20 sks	16	523.70	10.80	510	Cement w/1355 sk's 3 sk's Const Cement 2% Cal.

TIME DISTRIBUTION – HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	7½	7¾	7
Reaming			
Conditioning Mud & Circulating			
Trips			1¾
Lubricate Rig	¼	¼	¼
Deviation Survey	½	1	¼
Test B O P			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			4¾
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

Day Work

Hrs W/DP

Hrs WO/DP

Hrs Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines 8 Size 1

Feet Slipped 505

Per. Cut Off 505

Present Length 4495

Ton Mi. or Trips Since Last Cut 95 3

Cumulative Ton Mi. or Trips 3344

No. of Days From Spud 14

Cumulative Rotating Hrs. 169¾

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		Ft.
56	Stands D.P.	2638.82	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
5	D.C. 4¾ I.D. O.D.	135.57	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.55	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	39.52	Ft.
	Total	3023	Ft.
Wt. of String	46000		Lbs.
Pipe in Hole	86		Jts.
Pipe on Racks	17		Jts.
Total Pipe on Lease	103		Jts.

BIT RECORD		
Bit No.	9	
Size	6¼	
Mfg.	Sec	
Type	M4N	
Nozzle No.	2 = 1	
Nozzle Size	10 : 11	
Ser. No.	436437	
Depth Out		
Depth In	2974	
Total Ftg.	49	
Total Hr Run	15	
Cond. of Bit		
Reamer No.		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD			
Time	1:00	4:00	7:00
Weight	9.1	9.2	9.3
Visc.-Sec.	37	48	40
W.L.-C.C.			
FL TR. CK			
PH	9.5	9.5	9.5
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	1500		
Soda Ash	100		

Driller: Dave Afleck

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3000	3023	~~45~~ 23	DRD			110	2500	1000	5"	120			

Deviation Record	Depth	Dev	Direction	Depth	Dev	Direction	Depth	Dev.	Direction
	3023	4½							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:45	¼						Rig Ser ✓ Bops + Motor shut offs ok.
12:15	7:45	7½						DRLG 64' hole
7:45	8:00	¼						Survey

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		Ft.
43	Stands D.P.		Ft.
1	Singles D.P.	266.986	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
5	D.C. 4¾ I.D. O.D.	135.87	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	25.52	Ft.
	Total	3040	Ft.
Wt. of String	46,000		Lbs.
Pipe in Hole	87		Jts.
Pipe on Racks	16		Jts.
Total Pipe on Lease	103		Jts.

BIT RECORD		
Bit No.	9	
Size	6¼	
Mfg.	Sec	
Type	MHN	
Nozzle No.	2 1	
Nozzle Size	10 11	
Ser. No.	436437	
Depth Out		
Depth In	2974	
Total Ftg.	66	
Total Hr Run	22¾	
Cond. of Bit		
Reamer No.		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD			
Time	4:00	12:00	3:00
Weight	9.2	9.1	9.1
Visc.-Sec.	37	37	35
W.L.-C.C.			
FL TR. CK			
PH	10.0	9.5	10.5
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	1000#		

Driller: Brian Spence

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3023	3040	17				110	3000	1000	5"	120			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
~~3:00~~								
8:00	10:00	2						DRLG
10:00	10:15	¼						RIG SERV + ✓ BOPS
10:15	7:00	5¾						DRLG
								[illegible]

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		Ft.
43	Stands D.P.		Ft.
1	Singles D.P.	266.986	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
5	D.C. 4¾ I.D. O.D.	135.87	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	28.52	Ft.
	Total	3043	Ft.
Wt. of String	46,000		Lbs.
Pipe in Hole	87		Jts.
Pipe on Racks	16		Jts.
Total Pipe on Lease	103		Jts.

BIT RECORD		
Bit No.	9	
Size	6¼	
Mfg.	Sec	
Type	MHN	
Nozzle No.	2 1	
Nozzle Size	10 11	
Ser. No.	436437	
Depth Out	3043	
Depth In	2974	
Total Ftg.	69	
Total Hr Run	23¾	
Cond. of Bit	H61	
Reamer No.		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

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

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Dwayne Shaw

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
3040	3043	3				110	3000	1000	5"	120			

Deviation Record	Depth	Dev	Direction	Depth	Dev	Direction	Depth	Dev.	Direction
	3043	4¼							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:00	1						DRLG
5:00	5:15	¼						SURVEY.
5:15	7:00	1¾						HOIST
7:00	7:15	¼						RIG SERV & CHECK MOTOR KILL
7:15	12:00	4¾						PREPARE TO BLAST SUMP.

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Keele River N-62
Location — Lsd. Sec. Twp. Rge. W. M
Date: Oct 3 1973

Weather Condition: Cool | Road Conditions: Nil | Nearest Town: Norman Wells | Water - Source: River | Miles Hauled | Pumped | Camp Distance from Rig: 2 miles | Reason for Extra L. Plant: Camp

OPERATOR	Rig No.	Drill Pipe String No.	Size	Tool Joint O.D	Type Thd.
Western Dacalta	7H DWKS N4	2	3½	4¾	IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Gould

PUMPS No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C350	6"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	Seamless	20 sks	16	523.70	10.80	510	Cement w/135 sk's
								3 sk's Coast Cement
								2% Cal.

TIME DISTRIBUTION - HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	4½	3¾	7½
Reaming			
Conditioning Mud & Circulating			
Trips	2½	3¼	
Lubricate Rig	¼	¼	¼
Deviation Survey		¼	¼
Test B.O.P			
Cut Off Drilling Line			
Repair Rig	½	¼	
Coring			
Wire Line Logging			
Running Casing & Cementing			
Wait on C.R.C. Cement		¼	
Drill Stem Test			
Other Laying down Test	¼		
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.
No. of Lines 8 Size 1
Feet Slipped 505
Feet Cut Off 505
Present Length 4495
Ton Mi. or Trips Since Last Cut 79 2½
Cumulative Ton Mi. or Trips 3328
No. of Days From Spud 13
Cumulative Rotating Hrs. 154¼

MORNING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
79	Singles D.P.	2422.88	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D		Ft.
1	Rmr Body O.D	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	11.60	Ft.
	Total		Ft.
Wt. of String	50,000		Lbs
Pipe in Hole	79		Jts.
Pipe on Racks	24		Jts.
Total Pipe on Lease	103		Jts.

BIT RECORD		
Bit No.	8	
Size	6¼	
Mfg	H-W	
Type	J-33	
Nozzle No.	2 - 1	
Nozzle Size	10 - 11	
Ser. No.	VR823	
Depth Out		
Depth In	2644	
Total Ftg	300	
Total Hr Run	23¾	
Cond. of Bit		
Reamer No.		
Reamer Type		

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

MUD RECORD		
Time	5:00	7:00
Weight	8.9	9.0
Visc.-Sec.	43	36
W.L.-C.C		
FL TR. CK		
PH	10	10
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt	Type	Amt
Soda Ash		100 lbs	

Driller: Dave Asfath

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2895	2944	49	DR-D			60	15,000	1000	5"	120			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼						Rig Ser ✓ BOPS + Motor Shut off's ok.
12:15	12:30	¼						Finish Laying down test
12:30	2:00	1½						~~Work on Hydromatic~~ Run in w/Bit
2:00	2:30	½						Work on Hydromatic
2:30	3:30	1						Finish Running in w/Bit
3:30	8:00	4½						Break circ + DRLG 6¼" hole

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
42	Stands D.P.		Ft.
1	Singles D.P.	2607.87	Ft.
7	D.C 5¼ I.D. O.D	200.95	Ft.
5	D.C 4¾ I.D. O.D	135.87	Ft.
	Stb Body O.D		Ft.
	Stb Body O.D		Ft.
1	Rmr Body O.D	4.85	Ft.
1	Subs O.D	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	21.51	Ft.
	Total	2974	Ft.
Wt. of String	46,000		Lbs
Pipe in Hole	85		Jts.
Pipe on Racks	18		Jts.
Total Pipe on Lease	103		Jts.

BIT RECORD		
Bit No.	8	9
Size	6¼	6¼
Mfg	H.W.	SEC
Type	J-33	MHN
Nozzle No.	2 1	2 1
Nozzle Size	10 11	10 11
Ser. No.	VR823	436437
Depth Out	2974	
Depth In	2644	2974
Total Ftg	330	
Total Hr Run	26¾	
Cond. of Bit	111	
Reamer No.		
Reamer Type		

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

MUD RECORD			
Time	9:00		4:00
Weight	9.0		9.0
Visc.-Sec.	37		36
W.L.-C.C	11.6		
FL TR. CK	2/32		
PH	10.5		10.0
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt

Driller: Bill Seamer

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs	Pump Press	Pump No. 1 Liner Size	S.P.M	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2944	2974	30				60	15,000	1000	5"	120			
2974						120	2,000	1000	5"	120			

Deviation Record	Depth	Dev	Direction	Depth	Dev	Direction	Depth	Dev.	Direction
	2972	4¾°							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	10.45	2¾						DRLG
10.45	11.00	¼						RIG SERV + BOPS
11:00	11:15	¼						SURVEY
11:15	11:30	¼						DRLG
11:30	2:00	2½						TRIP FOR BIT
2:00	2:15	¼						WORK ON HYDROMATIC
2:15	3:00	¾						FINISH RUNNING IN
3:00	3:15	¼						BREAK CIRC + CLEAN TO BOTTOM. (NO FILL)
3:15	4:00	¾						DRLG (DRILL COLLARS IN DERRICK - 164.90)

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
44½	Singles D.P.	2638.82	Ft.
7	D.C. 5¼ I.D. O.D	200.95	Ft.
6	D.C. 4¾ I.D. O.D.	135.47	Ft.
	Stb Body O.D		Ft.
	Stb Body O.D		Ft.
1	Rmr Body O.D	4.85	Ft.
1	Subs O.D	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	16.56	Ft.
	Total	3000	Ft.
Wt. of String	46,000		Lbs
Pipe in Hole	86		Jts.
Pipe on Racks	17		Jts.
Total Pipe on Lease	103		Jts.

BIT RECORD		
Bit No.	9	
Size	6¼	
Mfg	SEC	
Type	MHN	
Nozzle No.	2 1	
Nozzle Size	10 11	
Ser. No.	436437	
Depth Out		
Depth In	2974	
Total Ftg	26	
Total Hr Run	7½	
Cond. of Bit		
Reamer No.		
Reamer Type		

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

MUD RECORD			
Time	6.00	9:00	11:00
Weight	9.1	9.1	9.1
Visc.-Sec.	36	37	37
W.L.-C.C			
FL TR. CK			
PH	10.0		9.5
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt
GEL	400#		

Driller

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2974	3000	26	DR-D			110	2,500	1000	5"	120			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2992	4¾°							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	8:00	4						DRLG
8:00	8:15	¼						Rig Ser ✓ BOPS ok.
8:15	8:30	¼						Survey
8:30	12:00	3½						DRLG 6¼" hole

EXTRA CREW TEAROUT WATER LINES

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: Keele River D-62
Location — Lsd. Sec. Twp. Rge. W. M.
Date: Oct 2 1973

Weather Condition: Cool | Road Conditions: Nil | Nearest Town: Norman Wells | Water - Source: River | Miles Hauled | Pumped | Camp Distance from Rig: 7 Miles | Reason for Extra L. Plant: Camp

OPERATOR: Western Dacalta

Rig No. 74 DWKS N4

Drill Pipe String: No. 2, Size 3½

Tool Joint 4¾ O.D. Type Thd. IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Field

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C350	5"
2.			
3.			

LAST CASING TUBING OR LINER

Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
7"	Semless	20 sks	16	523.70	10.80	510	Cement w/135 sk's
							3 sks Coast Cemen
							2 % Cal

TIME DISTRIBUTION — HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	7½	2¾	
Reaming			
Conditioning Mud & Circulating		1¼	
Trips		2¼	3¾
Lubricate Rig	¼	¼	
Deviation Survey	¼	¼	
Test B.O.P.			
Cut Off Drilling Line		¾	
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test		½	4
Other Break down test			¼
Fishing			
COMPL. WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

Reel No.
No. of Lines 8 Size 1
Feet Slipped 505 320
Feet Cut Off 505 320
Present Length 4495 4635
Ton Mi. or Trips Since Last Cut 46 1½ 61
Cumulative Ton Mi. or Trips 3295 3170
No. of Days From Spud 12
Cumulative Rotating Hrs. 138½

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	Stands D.P.		Ft.
76	Singles D.P.	2331.77	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	9.71	Ft.
	Total	2856	Ft.

Wt. of String 49,000 Lbs.
Pipe in Hole 76 Jts.
Pipe on Racks 27 Jts.
Total Pipe on Lease 103 Jts.

BIT RECORD

Bit No.	8
Size	6¼
Mfg.	H-W
Type	J-33
Nozzle No.	2 - 1
Nozzle Size	10 - 11
Ser. No.	VR823
Depth Out	
Depth In	2644
Total Ftg.	207
Total Hr Run	16½
Cond. of Bit	
Reamer No.	
Reamer Type	

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

MUD RECORD

Time	1:00	3:00	7:00
Weight	8.9	8.9	8.9
Visc.-Sec.	39	36	35
W.L.-C.C.			
FL TR. CK.			
PH	10	9.5	9.5
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	2000 lbs		
Caustic	50		

Driller: Dave Abeth

FOOTAGE

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2755	2851	93	DR-D			60	15000	1000	5"	120			

Deviation Record: Depth 2785, Dev. 2¾°, Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼						Rig Ser. ✓ BOPS + Motor shut off's OK
12:15	2:00	1¾						DRLG 6¼ hole
2:00	2:15	¼						Survey
2:15	8:00	5¾						DRLG 6¼ hole

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO			
38	Stands D.P.		Ft.
1	Singles D.P.	236.70	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	22.78	Ft.
	Total	2895	Ft.

Wt. of String 50,000 Lbs.
Pipe in Hole 77 Jts.
Pipe on Racks 26 Jts.
Total Pipe on Lease 103 Jts.

BIT RECORD

Bit No.	8
Size	6¼
Mfg.	H-W
Type	J-33
Nozzle No.	2 - 1
Nozzle Size	10 - 11
Ser. No.	VR823
Depth Out	2895
Depth In	2644
Total Ftg.	251
Total Hr Run	19¼
Cond. of Bit	1 1 1
Reamer No.	
Reamer Type	

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

MUD RECORD

Time	9:00	12:00
Weight	9.0	9.1
Visc.-Sec.	37	70
W.L.-C.C.		
FL TR. CK.		
PH	9.5	10.0
SD Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	2000#		
Caustic	50#		

Driller: Brian Spence

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2851	2895	44				60	15000	1000	5"	120			

Deviation Record: Depth 2881, Dev. 3½°, Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2851	9:45	1¾						DRLG
9:45	10:00	¼						SURVEY
10:00	10:15	¼						RIG SERV CHECK BOPS
10:15	11:15	1						DRLG
11:15	12:30	1¼						CIRC TO RUN TEST #3
12:30	2:45	2¼						HOIST · STRAP OUT
2:45	3:30	¾						SLIP + CUT 45' DRLG LINE
3:30	4:00	½						MAKE UP D.S.T. #3
								INTERVAL 2853-2895
								P.F. 5 min 1ST 30 mins VG 90 mm FSI 90 mm
								Good air blow dear to weak at end of test
								Rec 30' mud 471' salt water

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

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

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

BIT RECORD

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

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

MUD RECORD

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

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2895					IHP 1349 IFP 34 ISIP 1172								
					FHP 1338 FFP 227 FSIP 1161								

Deviation Record: Depth, Dev., Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:15	1¼						RUN IN
5:15	5:30	¼						HEAD UP TESTING TOOL
5:30	9:45	3¾						TESTING
9:15	11:45	2½						Pull Test #3
11:45	12:00	¼						Break test #3
								EXTRA CREW TEAR OUT WATER LINE

KODAK SAFETY FILM

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: Keele River N 62

Location — Lsd. Sec. Twp. Rge. W. M

Date: Oct 1 1973

Weather Condition: COOL | Road Conditions: Nil | Nearest Town: Norman Wells | Water - Source: River | Miles Hauled | Pumped | Camp Distance from Rig: 7 miles | Reason for Extra L. Plant: Camp

OPERATOR: Western Decalta

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A Field

Rig No. 74 DWKS N4 | Drill Pipe String No. 2 Size 3½ | Tool Joint 4¾ O.D. | Type Thd I F

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C 350	5"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	Seamless	20 lbs	16	523.70	1050	510	Cement 135 sacks 3 sk's Const Cement 2% Cal

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	6¾	4	7¼
Reaming			
Conditioning Mud & Circulating			
Trips		3¼	
Lubricate Rig	¼	¼	¼
Deviation Survey	1		¼
Test B.O.P			
Cut Off Drilling Line			
Repair Rig		¼	
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other		¼	
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
F Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

Day Work

Hrs W/DP

Hrs WO/DP

Hrs Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines 8 Size 1

Feet Slipped

Feet Cut Off

Present Length

Ton Mi. or Trips Since Last Cut 116 5

Cumulative Ton M. or Trips

No. of Days From Spud 11

Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
71	Singles D.P.	2269.55	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
5	D.C. 4¾ I.D. O.D.	135.85	Ft.
	Stb Body O.D		Ft.
	Stb Body O.D		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	11.85	Ft.
	Total	2626.00	Ft.
	Wt. of String	42,000	Lbs.
	Pipe in Hole	71	Jts.
	Pipe on Racks	17	Jts.
	Total Pipe on Lease	88	Jts.

BIT RECORD		
Bit No	7	
Size	6¼	
Mfg	Sec	
Type	M4N	
Nozzle No	3	
Nozzle Size	10	
Ser No	442595	
Depth Out		
Depth In	2485	
Total Ftg	141	
Total Hr Run	19½	
Cond of Bit		
Reamer No		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD			
Time	1:00	3:00	7:00
Weight	8.3	8.9	9.0
Visc -Sec.	35	37	37
W.L.-C.C			
FL TR. CK			
PH	10	10	10
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt
Gel	2100		
Caustic	50		
14 sks Sawdust			

Driller: Dave Smith

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2593	2626	33	DRD			140	2500	1000	5"	120			

Deviation Record	Depth	Dev	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2593	3°		2623	3¼°				

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼						Rig Ser ✓ B.O.P.S + Motor Shut off's OK.
12:15	2:00	1¾						DRLG 6¼" hole
2:00	2:15	¼						Survey
2:15	6:30	4¼						DRLG 6¼ hole (Lost 85 bbls)
6:30	7:15	¾						Survey Miss Run Survey 2#
7:15	8:00	¾						DRLG 6¼" hole

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
54	Stands D.P		Ft
1	Singles D.P.	21.18.00	Ft
7	D.C 5¼ I.D. O.D	200.95	Ft
11	D.C 4¾ I.D. O.D	300.77	Ft
	Stb Body O.D		Ft
	Stb Body O.D		Ft
1	Rmr Body O.D	4.85	Ft
1	Subs O.D	2.95	Ft
	Bit or C.B		Ft
	Kelly Down	25.36	Ft
	Total	2653	Ft
	Wt. of String	48,000	Lbs
	Pipe in Hole	69	Jts
	Pipe on Racks	29	Jts
	Total Pipe on Lease	88	Jts

BIT RECORD		
Bit No	7	8
Size	6¼	6¼
Mfg	Sec	HW
Type	M4N	J-33
Nozzle No	3	2 1
Nozzle Size	10	10 11
Ser No	442395	VR823
Depth Out	2644	
Depth In	2485	2644
Total Ftg	159	9
Total Hr Run	22	1½
Cond of Bit		
Reamer No		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD			
Time	9.00		4.00
Weight	9.0		9.0
Visc -Sec	40		35
W.L.-C.C			
FL TR CK			
PH	10.0		10.0
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	1800#		

Driller: Brian Spence

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2626	2644	18				130	2500	1000	5"	120			
2644	2653	9 / 27	0			55	10	1000	5"	127			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8:15	¼						WORK ON PUMP
8.15	8:30	¼						RIG SERV + CHECK BOP'S
8.30	11:00	2½						DRLG
11:00	2:15	3¼						TRIP FOR BIT ✓ BLIND RAMS
2:15	2:30	¼						BREAK CIRC + CLEAN TO BTM (NO FILL)
2:30	4:00	1½						DRLG

DESILTER - OVERFLOW - 9.2#
UNDERFLOW - 8.9+

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
72	Singles D.P	2204.73	Ft.
7	D.C. 5¼ I.D. O.D	200.95	Ft.
11	D.C. 4¾ I.D. O.D	300.77	Ft.
	Stb Body O.D		Ft.
	Stb Body O.D		Ft.
1	Rmr Body O.D	4.85	Ft.
1	Subs O.D	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	39.35	Ft.
	Total	2758	Ft.
	Wt. of String	48,000	Lbs.
	Pipe in Hole	72	Jts.
	Pipe on Racks	31	Jts.
	Total Pipe on Lease	103	Jts.

BIT RECORD		
Bit No	8	
Size	6¼	
Mfg	HW	
Type	J-33	
Nozzle No	2 1	
Nozzle Size	10 11	
Ser No	VR823	
Depth Out		
Depth In	2644	
Total Ftg	114	
Total Hr Run	9	
Cond of Bit		
Reamer No.		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD			
Time	2:00	9:00	11:00
Weight	8.9+	8.9	8.9
Visc -Sec.	35	37	39
W.L.-C.C.			
FL TR. CK.			
PH		10	10
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	1600 lbs		
Caustic	50 lb		

Driller

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2653	2758	105	DRD			55	15000	1000	5"	120			

Deviation Record	Depth	Dev.	Direction	Depth	Dev	Direction	Depth	Dev.	Direction
	2698	2¼°							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	8:00	4						DRLG
8.00	8:15	¼						Survey
8:15	8:30	¼						Rig Ser
8:30	12:00	3½						DRLG 6¼ hole

11912 70 TCR

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: Keele River N-62

Location — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. ___ M.

Date: Sept 30 1973

Weather Condition: COOL | Road Conditions: N.I | Nearest Town: Norman Wells | Water - Source: River | Miles Hauled ___ | Pumped ___ | Camp Distance from Rig: 7 miles | Reason for Extra L. Plant: Camp

OPERATOR: Western Decalta

Rig No. 7H | DWKS N4

Drill Pipe String: No. 2 | Size 3½

Tool Joint 4¾ O.D | Type Thd I F

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Sulal

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C350	5"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	Semless	20#'s	16	523.70	1050	510	Cement w/135 sk's 3 sk's Coast Cement 2% Cal

TIME DISTRIBUTION – HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	5	5½	7¼
Reaming			
Conditioning Mud & Circulating			
Trips	2¼	1¼	
Lubricate Rig	¼	¼	¼
Deviation Survey	½	½	½
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other		½	
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	8	8	

TIME SUMMARY (Office Use Only)

Day Work

Hrs. W/DP

Hrs. WO/DP

Hrs. Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines 8 | Size 1

Feet Slipped

Feet Cut Off

Present Length

Ton Mi. or Trips Since Last Cut 89 - 4

Cumulative Ton Mi. or Trips

No. of Days From Spud 10

Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
64	Singles D.P.	1964.50	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	10.98	Ft.
	Total	2485.	Ft.
	Wt. of String	45,000	Lbs.
	Pipe in Hole	64	Jts.
	Pipe on Racks	26	Jts.
	Total Pipe on Lease	90	Jts.

BIT RECORD	
Bit No.	6
Size	6¼
Mfg.	H-W
Type	J33
Nozzle No.	2 = 1
Nozzle Size	10 = 9
Ser. No.	VN265
Depth Out	2485
Depth In	1853
Total Ftg.	632
Total Hr. Run	39¾
Cond. of Bit	121
Reamer No.	
Reamer Type	

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

MUD RECORD			
Time	1:00	4:00	7:00
Weight	8.9	8.9	
Visc.-Sec.	35	36	
W.L.-C.C.			
FL. TR. CK.			
PH	8.0	9.5	
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
Gel	25.00		
Caustic	50		

Driller: Dave Smith

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2391	2485	91	DR-D			60	10,000	1000	5"	118			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2422	2¼	~~2481~~	2484	3°				

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼						Rig Ser + BOP'S + Motor shut off's ok
12:15	1:30	1¼						DRLG 6¼ hole
1:30	1:45	¼						Survey
1:45	5:00	3¼						DRLG 6¼ hole
5:00	5:15	¼						Survey
5:15	5:45	½						DRLG 6¼ hole
5:45	7:30	1¾						Trip out of hole
7:30	8:00	½						Run in w/6¼ bit

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
37	Stands D.P.	2407.53	Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
5	D.C. 4¾ I.D. O.D.	135.85	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
2	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	27.87	Ft.
	Total	2520	Ft.
	Wt. of String	42,000	Lbs.
	Pipe in Hole	74	Jts.
	Pipe on Racks	16	Jts.
	Total Pipe on Lease	90	Jts.

BIT RECORD	
Bit No.	7
Size	6¼
Mfg.	SEC
Type	M44N
Nozzle No.	1 2
Nozzle Size	9 10
Ser. No.	442895
Depth Out	
Depth In	2485
Total Ftg.	35
Total Hr. Run	5½
Cond. of Bit	
Reamer No.	
Reamer Type	

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

MUD RECORD			
Time	11:00	1.00	3.00
Weight	9.0	8.9	8.8+
Visc.-Sec.	37	33	35
W.L.-C.C.			
FL. TR. CK.			
PH	10.0	9.5	9.0
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
Gel	2000#		
Caustic	50#		

Driller: Brian Spence

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2485	2520	35	0			120	2500	1000	5"	124			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2502	2¾							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Serv + V. BOP's
8:15	9.30	1¼						Run in @ Bit #7
9.30	10:00	½						Pick up 6 Singles Break Circ + Clean 23'
10:00	1.00	3						Drlg
1.00	1.30	½						Survey - Turn Kelly Hose
1.30	4:00	2½						Drlg

Drill Collars in Derrick - 164.92

Held Blow Out Drill

Checked Safety Valve

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.	2309.13	Ft.
72	Singles D.P.	~~2309.13~~	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
5	D.C. 4¾ I.D. O.D.	135.85	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.	4.85	Ft.
1	Rmr. Body O.D.		Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	39.87	Ft.
	Total	2593	Ft.
	Wt. of String	42,000	Lbs.
	Pipe in Hole	72	Jts.
	Pipe on Racks	18	Jts.
	Total Pipe on Lease	90	Jts.

BIT RECORD	
Bit No.	7
Size	6¼
Mfg.	SEC
Type	M44N
Nozzle No.	1 2
Nozzle Size	9 10
Ser. No.	442895
Depth Out	
Depth In	2485
Total Ftg.	108
Total Hr. Run	12¾
Cond. of Bit	
Reamer No.	
Reamer Type	

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

MUD RECORD			
Time	5:00	9:00	11:00
Weight	8.9	8.8	8.8
Visc.-Sec.	35	42	37
W.L.-C.C.			
FL. TR. CK.			
PH	10.0	10.0	10.0
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
Gel	3100 lbs		
Caustic	50 lbs		

Driller

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2520	~~2550~~	73				120	2,500	1000	5"	124			
	2593					140							

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2500	2¾		2563	2½°				

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	6:15	2¼						DRLG 6¼ Hole
6:15	6:30	¼						Survey
6.30	6:45	¼						Rig Serv
6.45	10:30	3¾						DRLG
10:30	10:45	¼						Survey
10:45	12:00	1¼						DRLG

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: Keele River N-62

Location — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. M.

Date: Sept 29 19 73

Weather Condition: Cool | Road Conditions: Nil | Nearest Town: Norman Wells | Water - Source: River | Miles Hauled ___ | Pumped ___ | Camp Distance from Rig: 7 miles | Reason for Extra L. Plant: Camp

OPERATOR: Western Decalta

SIGNATURE OF OPERATOR'S REPRESENTATIVE: ___

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Sulc

Rig No. 7H DWKS N+ | Drill Pipe String: No. 2, Size 5½ | Tool Joint 4¾ O.D. | Type Thd. TF

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C350	5"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	Seamless	20 sks	16	523.70	10.80	510	Cement w/ 135 sks. 3 sks. crust cement 2% Cal.

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	7½	6½	7½
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig	¼	¼	¼
Deviation Survey	¼	¾	¼
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other		½	
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

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

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
53	Singles D.P.	1623.32	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	35.16	Ft.
	Total	2158.00	Ft.
Wt. of String	42,000		Lbs.
Pipe in Hole	53		Jts.
Pipe on Racks	19		Jts.
Total Pipe on Lease	71		Jts.

BIT RECORD	
Bit No.	6
Size	6¼
Mfg.	H-W
Type	J-33
Nozzle No.	2 : 1
Nozzle Size	10 : 9
Ser. No.	VN265
Depth Out	
Depth In	1653
Total Ftg.	305
Total Hr. Run	15¾
Cond. of Bit	
Reamer No.	
Reamer Type	
Water Charges	Reg. Hrs. O.T. Hrs.
Trucker	
Trucker	
Trucker	

MUD RECORD			
Time	1:00	4:00	7:00
Weight	8.8	8.8	
Visc.-Sec.	35	45	40
W.L.-C.C.			
FL TR. CK			
PH	10	10	10
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
Gel	4000 lbs		
Caustic	100 lbs		

Driller: Dave Wirth

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1993	2155	165	DR-D			60	15000	1000	5	120			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2050	1¾°							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼						Rig Ser ✓ BOPS + Motor shut off's OK.
12:15	4:00	3¾						DRLG 6¼" hole
4:00	4:15	¼						Survey
4:15	5:00	3¾						DRLG 6¼" hole

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
29	Stands D.P.	1716.94	Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	39.54	Ft.
	Total	2266	Ft.
Wt. of String	45,000		Lbs.
Pipe in Hole	58		Jts.
Pipe on Racks	32		Jts.
Total Pipe on Lease	90		Jts.

BIT RECORD	
Bit No.	6
Size	6¼
Mfg.	H.W.
Type	J-33
Nozzle No.	2/10 1/4
Nozzle Size	
Ser. No.	VN265
Depth Out	
Depth In	1853
Total Ftg.	413
Total Hr. Run	22¼
Cond. of Bit	
Reamer No.	
Reamer Type	
Water Charges	Reg. Hrs. O.T. Hrs.
Trucker	
Trucker	
Trucker	

MUD RECORD			
Time	9:00	12:00	3:00
Weight	8.8	8.8	8.8
Visc.-Sec.	52	33	33
W.L.-C.C.			
FL TR. CK			
PH	10.0	10.0	10.0
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
GEL	2000#		

Driller: Brian Spence

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2158	2266	108	D			60	15M	1000	5	114			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2170	2°		2266	2°				

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:30	½						DRLG
8:30	8:45	¼						RIG SERV
8:45	9:00	¼						SURVEY
9:00	11:15	2¼						DRLG
11:15	11:45	½						CONSERVATION BOARD RIG CHECK (O.K)
11:45	3:30	3¾						DRLG
3:30	4:00	½						SURVEY + REPAIR BROKEN TOTCO LINE

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
60	Singles D.P.	1841.74	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.55	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	39.74	Ft.
	Total	2391.000	Ft.
Wt. of String	46,000		Lbs.
Pipe in Hole	60		Jts.
Pipe on Racks	30		Jts.
Total Pipe on Lease	90		Jts.

BIT RECORD	
Bit No.	6
Size	6¼
Mfg.	H.V.
Type	J-33
Nozzle No.	2/10 4
Nozzle Size	
Ser. No.	VN265
Depth Out	
Depth In	1853
Total Ftg.	538
Total Hr. Run	29¾
Cond. of Bit	
Reamer No.	
Reamer Type	
Water Charges	Reg. Hrs. O.T. Hrs.
Trucker	
Trucker	
Trucker	

MUD RECORD			
Time	6:00	9:00	11:00
Weight	8.9	8.9	8.9
Visc.-Sec.	35	35	40
W.L.-C.C.			
FL TR. CK			
PH		10	10
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: ___

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
2266	2391	125				60	10,000	1000	5"	118			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	2365	2¾							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	8:00	4						DRLG 6¼ HOLE
8:00	8:15	¼						Rig Ser ✓ BOPS + Pipe rams OK
8:15	9:45	1½						DRLG 6¼ hole
9:45	10:00	¼						Survey
10:00	12:00	2						DRLG 6¼ hole

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: Pisuet Bone L Pisetal Mile N-62

Date: Sept 28 1973

Location — Lsd. Sec. Twp. Rge. W. M.

Weather Condition: Cool | Road Conditions: Icy | Nearest Town: Norman Wells | Water - Source: River | Miles Hauled | Pumped | Camp Distance from Rig: 7 miles | Reason for Extra L. Plant: Camp

OPERATOR: Western Decalta

Rig No.: 7H DWKS N4

Drill Pipe String: No. | Size

Tool Joint: 4 3/4 O.D. Type Thd: IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Smith

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C350	5"
2.			
3.			

CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	Seamless	20 lbs	16	533.70	10.00	510	Cement W/135 sks 3 sks of cement + 2% Cal

TIME DISTRIBUTION—HOURS

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

TIME SUMMARY (Office Use Only)

Day Work

Hrs. W/DP

Hrs. WO/DP

Hrs. Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines: 5 Size: 1"

Feet Slipped

Feet Cut Off

Present Length

Ton Mi. or Trips Since Last Cut

Cumulative Ton Mi. or Trips

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
45	Singles D.P.	1378.37	Ft.
7	D.C. 5 1/4 I.D. O.D.	200.45	Ft.
11	D.C. 4 3/4 I.D. O.D.	300.77	Ft.
	Stb Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	22.11	Ft.
	Total	1910.00	Ft.
Wt. of String		41,000	Lbs.
Pipe in Hole		45	Jts.
Pipe on Racks		26	Jts.
Total Pipe on Lease		71	Jts.

BIT RECORD

Bit No.	6
Size	6 1/4
Mfg.	H-W
Type	J-33
Nozzle No.	2-1
Nozzle Size	16-9
Ser. No.	VN265
Depth Out	
Depth In	1553
Total Ftg.	57
Total Hr. Run	3 3/4
Cond. of Bit	
Reamer No.	
Reamer Type	

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

Trucker

Trucker

Trucker

MUD RECORD

Time	4:00	6:30
Weight	8.7	
Visc.-Sec.	49	
W.L.-C.C.		
FL. TR. CK.		
PH	9.0	
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt	Type	Amt
Gel	3000 lb.		
Caustic SC	16		
SAWDUST	20 Sks		

Driller: Dave Clarke

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1553	1910	51	DRD			60	15,000 / 10000	800	5	100			

Deviation Record	Depth	Dev	Direction	Depth	Dev	Direction	Depth	Dev	Direction
	1897	2°							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	1/4						Rig Ser
12:15	2:30	2 1/4						Lost Circ. Mix Mud
2:30	4:15	1 3/4						Lost Circ. Buck + DRLG ahead hole w/Reduce Pump
4:15	4:30	1/4						Survey
4:30	5:15	3/4						DRLG ahead hole
5:15	5:45	1/2						Circ up Sample
5:45	6:00	1/4						DRLG ahead hole
6:00	6:45	3/4						Condition mud to pull out + DST
6:45	8:00	1 1/4						Pull out of hole to run DST #2 Strap out 1910
								Strap 1909.79
								1.79 Difference

DAY TOUR

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

BIT RECORD

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

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

Trucker

Trucker

Trucker

MUD RECORD

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

Mud & Chemicals Added

Type	Amt	Type	Amt

Driller

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1910													

Deviation Record	Depth	Dev	Direction	Depth	Dev	Direction	Depth	Dev	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:30	1/2						FINISH OUT
8:30	8:45	1/4						RIG SERV.
8:45	9:45	1						PICK UP + MAKE UP TESTING TOOL
9:45	11:30	1 3/4						RUN IN SLOW
11:30	[illegible]	5 1/2						TESTING
[illegible]	[illegible]	1						D.S. TEST #2 (BASAL LITTLE BEAR Fm)
								1877-1910 - Preflow 5 mins, ISI 30 mins, VO, 60 mins,
								FSI - 90 mins - S.AB increasing to fair at end of Test
								Rec. 775' fresh water.
								Preflow 42# IHP 879# ISIP 671# IFP - 50
								FHP 889# FSIP 650# FFP - 346

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
48	Singles D.P.	1469.48	Ft.
7	D.C. I.D. O.D.	[illegible]	Ft.
11	D.C. 7 3/4 I.D. O.D.	[illegible]	Ft.
	Stb Body O.D.		Ft.
	Stb Body O.D.		Ft.
1	Rmr. Body O.D.	[illegible]	Ft.
1	Subs O.D.	[illegible]	Ft.
	Bit or C.B.		Ft.
	Kelly Down	1400	Ft.
	Total	1993.00	Ft.
Wt. of String		41,000	Lbs.
Pipe in Hole		46	Jts.
Pipe on Racks		23	Jts.
Total Pipe on Lease		71	Jts.

BIT RECORD

Bit No.	[illegible]
Size	[illegible]
Mfg.	[illegible]
Type	[illegible]
Nozzle No.	[illegible]
Nozzle Size	[illegible]
Ser. No.	[illegible]
Depth Out	
Depth In	[illegible]
Total Ftg.	140
Total Hr. Run	8 1/4
Cond. of Bit	
Reamer No.	
Reamer Type	

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

Trucker

Trucker

Trucker

MUD RECORD

Time	[illegible]	10:00
Weight	[illegible]	8.8
Visc.-Sec.	[illegible]	38
W.L.-C.C.		
FL. TR. CK.		
PH		10
SD. Cont. %		
Pressure Gradient		

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
[illegible]	1993	83				55	15000	[illegible]	[illegible]	[illegible]			

Deviation Record	Depth	Dev	Direction	Depth	Dev	Direction	Depth	Dev.	Direction
	1988	2°							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
[illegible]	4:30	1/2						FINISH OUT #2
[illegible]	5:30	1						[illegible] TESTING TOOL
[illegible]	[illegible]	1 1/2						RUN IN [illegible]
[illegible]	9:45	1/2						[illegible] CIRC + [illegible]
[illegible]	11:30	4 1/4						DRLG
11:30	11:45	1/4						Survey
11:45	12:00	1/4						DRLG

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIVER 6-62

Date: SEPT 27 1973

Location — Lsd. Sec. Twp. Rge. W. M

Weather Condition

Road Conditions: ICE

Nearest Town: HORNWERKS

Water - Source: RIVER — Miles Hauled — Pumped

Camp Distance from Rig: 7 miles — Reason for Extra L. Plant: Camp

OPERATOR	Rig No.	Drill Pipe String No	Drill Pipe String Size	Tool Joint	Type Thd
WESTERN DECALTA	7H DWKS NH	2	3½	4¾ OD	IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Bird / D. Birthwell

PUMPS No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C.355	5"
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	Sumitomo	20 KS	16	623.70	10.50	510	CEMENTED w/155 SKS of CONST CEMENT 22 CAL.

TIME DISTRIBUTION - HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	2½	7	
Reaming			
Conditioning Mud & Circulating			
Trips	2½		
Lubricate Rig	¼	¼	
Deviation Survey		½	
Test B.O.P.			
Cut Off Drilling Line	1¼		
Repair Rig		¼	
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other	¼		
CLEAN TOGETHER	½		

COMPLETION WORK

A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	8	15	

TIME SUMMARY (Office Use Only)

Day Work

Hrs. W/DP

Hrs. WO/DP

Hrs. Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines 4 Size

Feet Slipped 30

Feet Cut Off 90

Present Length

Ton Mi. or Trips Since Last Cut

Cumulative Ton Mi. or Trips

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.	113.15	Ft.
37	Singles D.P.		Ft.
7	D.C. 6¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb Body O.D.		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	13.32	Ft.
	Total		Ft.

Wt. of String: 40,000 Lbs.

Pipe in Hole Jts.

Pipe on Racks Jts.

Total Pipe on Lease Jts.

BIT RECORD		
Bit No.	5 4	5
Size	6¼	6¼
Mfg	SEC	SEC
Type	M4L	S4J
Nozzle No.	1 1	2 1
Nozzle Size	9 10	10 9
Ser. No.	911437	429761
Depth Out	1623	
Depth In	1432	1623
Total Ftg	191	52
Total Hr Run	10	
Cond. of Bit	5 2 1	
Reamer No.		
Reamer Type		

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

Trucker

Trucker

Trucker

MUD RECORD			
Time		5:00	2:00
Weight	T	8.7	8.7
Visc.-Sec.	R	35	38
W.L.-C.C.	1		
FL TR. CK.	P	10.5	11.0
PH			
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt	Type	Amt
GEL	1200#		
CAUSTIC	50#		

Driller: Dwayne Libin

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1620	1623	52	D			80	6000	1000	5	125			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1230	½						DRLG 6¼ HOLE
1230	1301							HOIST FOR BIT
1301	2.15	1¾						RUN IN W/ BIT 5
2.15	3.30	1¼						SLIP & CUT LINE 90 FT
3.30	3.45	¼						RIG SERV
3.45	4.15	½						RUN IN.
4.15	4.30	¼						BREAK CIRC.
4.30	5.00	½						CLEAN 15 FT OF FILL.
5.00	8.00	3						DRLG 6¼ HOLE

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
1	Stands D.P.	155.55	Ft.
	Singles D.P.		Ft.
7	D.C. 6¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb Body O.D.		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	13.32	Ft.
	Total		Ft.

Wt. of String: 40,000 Lbs.

Pipe in Hole 42 Jts.

Pipe on Racks 29 Jts.

Total Pipe on Lease 71 Jts.

BIT RECORD		
Bit No.	5	
Size	6¼	
Mfg	SEC	
Type	S4J	
Nozzle No.	2 1	
Nozzle Size	10 9	
Ser. No.	429761	
Depth Out		
Depth In	1432	
Total Ftg	191	
Total Hr Run	10	
Cond. of Bit		
Reamer No.		
Reamer Type		

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

Trucker

Trucker

Trucker

MUD RECORD			
Time	1100	1200	3.00
Weight	8.6	8.7	8.7
Visc.-Sec.	31	34	35
W.L.-C.C.			
FL TR. CK.			
PH	10	10	10
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	300#		
Caustic	15#		

Driller: Earl Gantt

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1623	1814		DR-D			90	1000/1000		5	126			

Deviation Record: Depth 1623 Dev 1¼ | Depth 1773 Dev 1½ | Direction | Depth | Dev | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
600	615	¼						DRLG 6¼ hole
615	645	½						Rig Ser & BOPS Motor shut off 15 min Survey 1½
645	10	3¼						DRLG 6¼ hole
10	10.15	¼						Repair fuel line on Floor Motor
10.15	1.30	3¼						DRLG 6¼ hole
1.30	1.45	¼						Survey
1.45	6.00	4¼						DRLG 6¼ hole

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
21	Stands D.P.		Ft.
5	Singles D.P.	156.13	Ft.
7	D.C. 6¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb Body O.D.		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	32.85	Ft.
	Total	1859	Ft.

Wt. of String: 40,000 Lbs.

Pipe in Hole 23 Jts.

Pipe on Racks 23 Jts.

Total Pipe on Lease 71 Jts.

BIT RECORD		
Bit No.	5	6
Size	6¼	6¼
Mfg	SEC	H.W.
Type	S4J	J-33
Nozzle No.	2 1	2 1
Nozzle Size	10 9	10 9
Ser. No.	429761	VN 265
Depth Out	1853	
Depth In	1623	1853
Total Ftg	230	6
Total Hr Run	12¾	1
Cond. of Bit	1 1 1	
Reamer No.		
Reamer Type		

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

Trucker

Trucker

Trucker

MUD RECORD			
Time	600	700	11.00
Weight			
Visc.-Sec.			
W.L.-C.C.			
FL TR. CK.			
PH			
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	1400#		

Driller: Bruce Spence

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1624	1854	45				90	[illegible]		5	127			

Deviation Record: Depth 1855 Dev 1½ | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
600	615	¼						Rig Ser & BOPS - Motor shut off 15
615	630	½						DRLG 6¼ hole
630	645	¼						Survey
645	7.15	2						DRLG 6¼ hole
7.15	10.00	2¾						TRIP FOR BIT
10.00	10.15	¼						BREAK CIRC & CLEAN UP STRING (No Fill)
10.15	11.15	1						DRLG 6¼ hole
11.15	12.00	¾						LOST CIRC - Mix Mud

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIVER D-62 | Date: SEPT 26 19 73

Location — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. M.

Weather Condition: | Road Conditions: NIL | Nearest Town: NORMANWELLS | Water - Source: RIVER | Miles Hauled: | Pumped: | Camp Distance from Rig: 7 miles | Reason for Extra L. Plant: CAMP

OPERATOR: WESTERN DECALTA

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

Rig No.: 7H | DWKS: N4 | Drill Pipe String: No. 2, Size 5½ | Tool Joint: 4¾ O.D. | Type Thd: IF

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C350	7
2.			
3.			

LAST CASING TUBING OR LINER

Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
7"	SCHOFIELD	20 K55	16"	523-70	1030	510	CEMENTED W/ 335 SKS OF CONST CEMENT 2% CAL.

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	7¼	4¾	
Reaming			
Conditioning Mud & Circulating			
Trips		2½	
Lubricate Rig	¼	¼	¼
Deviation Survey	½	½	
Test B.O.P			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other ~~S-NITA~~		½	
Fishing		8	
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals		15	

TIME SUMMARY (Office Use Only)

Day Work

Hrs W/DP

Hrs WO/DP

Hrs. Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines 8 Size 1

Feet Slipped 90

Feet Cut Off 90

Present Length

Ton Mi. or Trips Since Last Cut 9

Cumulative Ton Mi. or Trips 9

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	13.67	Ft.
	Total	1380	Ft.
Wt. of String	32000		Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease			Jts.

BIT RECORD

Bit No.	3	
Size	6¼	
Mfg	SEC	
Type	M4N	
Nozzle No.	2 1	
Nozzle Size	9 10	
Ser. No.	H33513	
Depth Out		
Depth In	1155	
Total Ftg.	225	
Total Hr. Run	9¾	
Cond. of Bit		
Reamer No.		
Reamer Type		

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

Trucker

Trucker

Trucker

MUD RECORD

Time	12:00	3:00	9:00
Weight	8.8	8.8	8.8
Visc.-Sec.	32	29	33
W.L.-C.C.			
FL TR. CK			
PH	9.5	9.0	
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
SAW DUST	24 SKS		
GEL	1700#		

Driller: Dwayne Albert

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1195	1350	152	D			80	7000	1000	5	117			
						80	7000	600	5	98			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	1283	1½		1375	1½				

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12	12:15	¼						DRLG 6¼ HOLE
12:15	12:30	¼						RIG SERV.
12:30	3:30	3						DRLG 6¼ HOLE LOST CIRC. 302
3:30	3:45	¼						SURVEY
3:45	7:30	3¾						DRLG 6¼ HOLE
7:30	7:45	¼						SURVEY
7:45	8:00	¼						Drilling 6¼ hole

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
30	Singles D.P.	975.71	Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.55	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	36.12	Ft.
	Total	1494.00	Ft.
Wt. of String	32000		Lbs.
Pipe in Hole	30		Jts.
Pipe on Racks	31		Jts.
Total Pipe on Lease	71		Jts.

BIT RECORD

Bit No.	3	4
Size	6¼	6¼
Mfg	Sec	Sec
Type	M4N	M4L
Nozzle No.	2 = 1	2 = 1
Nozzle Size	9 = 16	9 = 10
Ser. No.	433513	911437
Depth Out	1432	
Depth In	1155	1432
Total Ftg.	278	39
Total Hr. Run	12½	2
Cond. of Bit	541	
Reamer No.		
Reamer Type		

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

Trucker

Trucker

Trucker

MUD RECORD

Time	9:00	3:00	
Weight	8.8	8.6	
Visc.-Sec.	31	38	
W.L.-C.C.			
FL TR. CK			
PH	10	10	
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Gel	2000 lbs		
Caustic	100 lbs		

Driller: Dave Alsop

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1350	1496	116				80	10000	1000	5	114			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	1405	1½		1496	1¾				

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Ser ✓ BOP'S + Motor shut off's
8:15	8:30	¼						Survey
8:30	11:15	2¾						DRLG 6¼ hole
11:15	12:15	1						Trip out of hole
12:15	1:45	1½						Run in w/6¼ Bit
~~1:45~~	~~2:00~~	~~¼~~						~~Safety Meeting~~
2:00	3:45	1¾						DRLG 6¼ hole + Survey at 1495 ft. 3:45 + 4:00
3:45	4:00	¼						Helecopter went to Dahadini to pick up Oil
								Went to Norman Wells for Groceries + Supplies
								Check escape buggy: drilling line

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
36	Stands D.P.	1161.60	Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
1	Rmr. Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	8.93	Ft.
	Total		Ft.
Wt. of String	32,000		Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease	71		Jts.

BIT RECORD

Bit No.	4	
Size	6¼	
Mfg	Sec	
Type	M4L	
Nozzle No.	2 = 1	
Nozzle Size	9 = 10	
Ser. No.	911437	
Depth Out		
Depth In	1432	
Total Ftg.	124	
Total Hr. Run	9½	
Cond. of Bit		
Reamer No.		
Reamer Type		

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

Trucker

Trucker

Trucker

MUD RECORD

Time	6:00	8:00	
Weight	8.7	8.7	T
Visc.-Sec.	33	36	R
W.L.-C.C.			I
FL TR. CK.			P
PH	8	11.0	
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
CAUSTIC	50#		

Driller

FOOTAGE From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1496	1620	124	D			70	10000	1000	5	114			
						60	6000	1000	5	114			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	1557	1¼							

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. D.T.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼						Rig Ser ✓ BOP'S + Motor shut off's
4:15	8:15	4						DRLG 6¼" hole
8:15	8:30	¼						SURVEY
8:30	12:00	3½						DRLG 6¼ HOLE

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEEWE RIVER #-62
Location — Lsd. Sec. Twp. Rge. W. M.
Date: SEPT 25 1973

Weather Condition | Road Conditions: Poor | Nearest Town: Fort Nelson | Water - Source: RIVER | Miles Hauled | Pumped | Camp Distance from Rig: 7 miles | Reas'n for Extra L. Plant: CAMP

OPERATOR: B. Fraser McCrae

Rig No.: 7 | DWKS: Yes
Drill Pipe String: No. 4 | Size 3½
Tool Joint: 4½ O.D. | Type Thd.: IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	C 500	7
2.			
3.			

LAST CASING TUBING OR LINER

Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
7"	Sumitomo	26 H-55	16	625.10		616	Cemented 6/13/5
							wts at cont at 1200
							12 Cal

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	11½		2½
Reaming			
Circulating & Cond.	¾		¾
Trips		3¼	1½
Lubricate Rig	¼	¼	
Deviation Survey		¼	¼
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Other: Derr Rig			¼
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test		4¼	3½
Other			
Fishing		8	
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8		8

TIME SUMMARY (Office Use Only)

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

WIRE LINE RECORD

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

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
22	Stands D.P.	1411.75	Ft.
	Singles D.P.		Ft.
7	D.C. 6¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb Body O.D.		Ft.
	Stb Body O.D.	4.85	Ft.
1	Rmr. Body O.D.	2.95	Ft.
1	Subs O.D.		Ft.
	Bit or C.B.		Ft.
	Kelly Down	35.75	Ft.
	Total	1155	Ft.
Wt. of String	30 000		Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease			Jts.

BIT RECORD

Bit No.	32
Size	6¼
Mfg.	Sec
Type	M4NJ
Nozzle No.	1
Nozzle Size	9/16
Ser. No.	442956
Depth Out	1155
Depth In	947
Total Ftg.	55
Total Hr. Run	9½
Cond. of Bit	
Reamer No.	
Reamer Type	

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

MUD RECORD

Time	1:00	500	7:00
Weight	8.8	8.9	9.0
Visc.-Sec.	29	35	52
W.L.-C.C.			
FL TR. CK			
PH	8.0	8.5	9.0
SD. Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
GEL	2400#		
PELTEX	50#		
LAU ETC	50#		

Driller: [illegible]

FOOTAGE

From	To	Ftge.	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
520	1155	50	D			75	6000	1000	5	115			

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

Hour Started	Hour Stopped	Elapsed Time	A	B		D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼						Rig Serv
1215	4:45	4½						Drill 6¼ Hole
4:45	8:00	3¼						Unit Cir. Cuttings (1100 u/h) + Circ To
								Run Test

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO			
	Stands D.P.		Ft.
	Singles D.P.		Ft.
7	D.C. 6¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb Body O.D.		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.85	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down		Ft.
	Total		Ft.
Wt. of String			Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease	71		Jts.

BIT RECORD

Bit No.	32
Size	6¼
Mfg.	Sec
Type	M4NJ
Nozzle No.	2-1
Nozzle Size	9-10
Ser. No.	442956
Depth Out	1155
Depth In	947
Total Ftg.	85
Total Hr. Run	4½
Cond. of Bit	3 3 1
Reamer No.	
Reamer Type	

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

MUD RECORD

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

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Dave Afoto

FOOTAGE

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	8:15	¼						Rig Ser ✓ BOP'S + Motor Shut OFFS O'K
8:15	8:30	¼						Survey
8:30	10:00	1½						Trip out of Hole ✓ Blind Rams.
10:00	11:15	1¼						Pick up test + Assemble
11:15	1:00	1¾						Run in with test tool
1:00	1:45	¾						Head up test tool
1:45	400	2¼						
								DST #1 1147 - 1151 Preflow 5 mins
								ISI - 30 mins V.O. 60 mins ISI 90 mins
								Rec
								Helecopter Slung Back Boiler From Dahadin

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO			
22	Stands D.P.	672.22	Ft.
	Singles D.P.		Ft.
7	D.C. 6¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		
	Stb Body O.D.		
1	Rmr Body O.D.	[illegible]	
1	Subs O.D.	[illegible]	
	Bit or C.B.		
	Kelly Down	2[illegible]	
	Total		Ft.
Wt. of String	30 000		
Pipe in Hole			
Pipe on Racks			Jts.
Total Pipe on Lease			Jts.

BIT RECORD

Bit No.	32
Size	6¼
Mfg.	Sec
Type	M4NJ
Nozzle No.	2-1
Nozzle Size	[illegible]
Ser. No.	[illegible]
Depth Out	[illegible]
Depth In	[illegible]
Total Ftg.	[illegible]
Total Hr. Run	[illegible]
Cond. of Bit	[illegible]
Reamer No.	
Reamer Type	

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

MUD RECORD

Time		9:00	11:00
Weight	T	9.2	8.9
Visc.-Sec	E	35	35
W.L.-C.C.	S		
FL TR. CK	T		
PH			
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
1155	1198	43	D.			75	6000	1000	5	117			
						85	7000	1000	5	117			

Deviation Record: Depth 1190 | Dev 1¾ | Direction | Depth | Dev. | Direction | Depth | Dev. | Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:00	1						DST #1
5:00	7:00	2						Trip out w/ DST #1
7:00	7:30	½						Lay down DST #1
7:30	9:00	1½						Run in w/ 6¼ bit
[illegible]	[illegible]	[illegible]						Break Circ
11:15	1115	2						Drlg 6¼ Hole
1115	1130	¼						Survey
1130	1200	½						Drlg 6¼ Hole
								Checked Fire Extinguishers + Escape Buggy

NORTH Wards Single OTER Bring bit out TWO Loads Groceries FROM Neuman-Wells.

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: REFAT KILLICK #2-62

Date: SEPT 24 1973

Location — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. M.

Weather Condition: ___ Road Conditions: Wet

Nearest Town: Bonnyville

Water - Source: River — Miles Hauled: ___ — Pumped: ___

Camp Distance from Rig: 7 miles — Reason for Extra L. Plant: Spud

OPERATOR: WESTERN DEPTH

Rig No.: 74 — DWKS: 41

Drill Pipe String: No. 4 — Size 3½

Tool Joint: 4½ O.D. — Type Thd.: IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D 500	1
2.			
3.			

LAST CASING TUBING OR LINER

Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSC. HD.	Set at	Remarks
7"	Smlless	20 K55	16	523-16	10.00	510	CEMENTED W/150 SKS CLASS A NEAT 2% CaCl

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	6¼	5¼	5
Reaming			
Conditioning Mud & Circulating			
Trips		1½	1¼
Lubricate Rig	¼	¼	
Deviation Survey	1	½	½
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other			1¼
Fishing			
COMPLETION WORK: A Perforating			
B Tubing Trips			
C Swabbing			
D Testing			
E Additional			
Totals	5	8	8

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
7	D.C. 4¾ I.D. O.D.	138.44	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr Body O.D.		Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	9.12	Ft.
	Total	771	Ft.
Wt. of String	23000		Lbs.
Pipe in Hole	13		Jts.
Pipe on Racks	64		Jts.
Total Pipe on Lease	71		Jts.

BIT RECORD: Bit No. 3 1; Size 6¼; Mfg SEC; Type S3J; Nozzle No. 2 1, Size 9 16; Ser. No. 432960; Depth Out; Depth In 521; Total Ftg; Total Hr Run 7½; Cond. of Bit; Reamer No.; Reamer Type

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

MUD RECORD

Time	1:00	4:00	7:00
Weight	8.4	8.5	8.5
Visc.-Sec.	28	29	28
W.L.-C.C.			
FL TR. CK.			
PH			
SD. Cont. %			
Pressure Gradient			

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

Driller: [illegible]

FOOTAGE

From	To	Fage	DR-D RM-R Core-C
533	777	244	D

Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
50	[illegible]	900	5	123			
50	[illegible]	[illegible]	5	123			
50	[illegible]	[illegible]	5	123			

Core No.: ___ FORMATION (SHOW CORE RECOVERY): ___

Deviation Record: Depth 596, Dev. 1°; Depth 656, Dev. 1°; Depth 717, Dev. 1½

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
[illegible]	[illegible]	[illegible]						[illegible]
[illegible]	[illegible]	1½						DRLG 6¼ HOLE
[illegible]	[illegible]	4						SURVEY
[illegible]	[illegible]	1½						DRLG 6¼ HOLE
[illegible]	[illegible]	¼						SURVEY
[illegible]	[illegible]	¼						DRLG 6¼ HOLE
[illegible]	[illegible]	¼						SURVEY
[illegible]	7:45	2½						DRLG 6¼ HOLE
7:45	8:00	¼						SURVEY

DESILTER
OVER- 8.4
UNDER- 12.4

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
14	Singles D.P.	550.53	Ft.
12	D.C. I.D. O.D.	336.89	Ft.
	D.C. I.D. O.D.		Ft.
	Stb Body O.D.		Ft.
	Stb Body O.D.		Ft.
	Rmr Body O.D.		Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	17.10	Ft.
	Total	930	Ft.
Wt. of String	20,000		Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease	71		Jts.

BIT RECORD: Bit No. 3 1; Size 6¼; Mfg Sec; Type S3J; Nozzle No. 2 = 1, Size 9 = 10; Ser. No. 432960; Depth Out 930; Depth In 521; Total Ftg 409; Total Hr Run 13¼; Cond. of Bit 421; Reamer No.; Reamer Type

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

MUD RECORD

Time	10:00	1:00	3:00
Weight	8.5	8.6	
Visc.-Sec.	29	29	
W.L.-C.C.			
FL TR. CK			
PH	8.0	8.0	
SD. Cont. %			
Pressure Gradient			

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

Driller: Dave Afferth

FOOTAGE

From	To	Fage	DR-D RM-R Core-C
777	930	153	D

Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
85	8000/1000		5	128			
	5000						

Core No.: ___ FORMATION (SHOW CORE RECOVERY): ___

Deviation Record: Depth 839, Dev. 1½°; Depth 899, Dev. 1¾°; Depth ___, Dev. ___; Depth ___, Dev. ___

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Service / Bops - Motor Kills
8:15	8:30	¼						Change Oil in Rotary Transmission
8:30	11:00	2½						Drilling 6¼ hole
11:00	11:15	¼						Survey @ 839
11:15	1:15	2						Drilling 6¼ hole
1:15	1:30	¼						Survey
1:30	2:45	1¼						Drilling 6¼ hole
2:45	4:00	1¼						Pull out of Hole Layed Down 5 Singles
								Using D500 Skidder Cat
								Using D31 Light Plant

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
18	Stands D.P.	551.33	Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.95	Ft.
11	D.C. 4¾ I.D. O.D.	300.77	Ft.
	Stb. Body O.D.		Ft.
	Stb Body O.D.		Ft.
1	Rmr Body O.D.	4.45	Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	9.95	Ft.
	Total	1070	Ft.
Wt. of String	29,000		Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease	71		Jts.

BIT RECORD: Bit No. 2 3/2; Size 6¼; Mfg Sec; Type M4NJ; Nozzle No. 2 = 1, Size 9 = 10; Ser. No. 442956; Depth Out; Depth In 941; Total Ftg 140; Total Hr Run 5; Cond. of Bit; Reamer No.; Reamer Type

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

MUD RECORD

Time	7:00	9:00	11:00
Weight	8.9	8.8	8.7
Visc.-Sec.	28	28	27
W.L.-C.C.			
FL TR. CK.			
PH	8.0	8.0	8.0
SD. Cont. %			
Pressure Gradient			

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

Driller: ___

FOOTAGE

From	To	Fage	DR-D RM-R Core-C
930	1070	140	D

Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
80	6000	1000	5	120			
70	[illegible]	1000	5	115			

Core No.: ___ FORMATION (SHOW CORE RECOVERY): ___

Deviation Record: Depth 972, Dev. 1½°; Depth 1070, Dev. 1¾°; Depth ___, Dev. ___; Depth ___, Dev. ___

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼						Finish Out of Hole
4:15	4:30	¼						Change Bits / Blind Rams + Rig Service
4:30	5:45	1¼						Run in D.C. Pick up 6 D.C + STAB OF Rack
5:45	6:30	¾						Run in w/ Bit #2
6:30	8:00	1½						Drilling 6¼ hole
8:00	8:15	¼						SURVEY
8:15	11:45	3½						DRLG 6¼ HOLE
11:45	12:00	¼						SURVEY
								Checked Gas masks Showed Crew how to use Same.

WIRE LINE RECORD

Reel No.

No. of Lines — Size

Feet Slipped

Feet Cut Off

Present Length

Ton Mi. or Trips Since Last Cut

Cumulative Ton Mi. or Trips

No. of Days From Spud

Cumulative Rotating Hrs.

Total Day Work

TIME SUMMARY (Office Use Only)

Day Work

Hrs. W/DP

Hrs. WO/DP

Hrs. Standby

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: KEELE RIDGE 4-64

Date: SEPT 25 1973

Location — Lsd. Sec. Twp. Rge. W. M.

Weather Condition | Road Conditions: FAIR | Nearest Town: KAMPOS FALLS | Water - Source: RIVER | Miles Hauled | Pumped | Camp Distance from Rig: 7 MILES | Reason for Extra L. Plant: CAMP

OPERATOR: WESTERN DECALTA

Rig No.: 14 | DWKS: 84

Drill Pipe String: No. 2 | Size 3½

Tool Joint: 4½ O.D. | Type Thd. IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R Rutherford

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D 500	7
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr.	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	Sumitomo	K55	16.	523.30	10.50	510	CEMENTED BY B.J.
								WASHOUT CLOSET
								2 JT CAL

TIME DISTRIBUTION — HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			5½
Reaming			
Conditioning Mud & Circulating			
Trips			1
Lubricate Rig	½		
Deviation Survey			
Test B.O.P.			1½
Cut Off Drilling Line			
Repair Rig			
Cement			3
Wire Line Logging			
Run Casing & Cementing			
Waiting on Cement			1
Drill Stem Test			1½
Other: Weld Casing Bowl			½
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	5		5

TIME SUMMARY (Office Use Only)

Day Work

Hrs. W/DP

Hrs. WO/DP

Hrs. Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines | Size

Feet Slipped

Feet Cut Off

Present Length

Ton Mile or Trips Since Last Cut

Cumulative Ton Mile or Trips

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

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

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

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

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

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

Driller: Dave Alpath

DAY TOUR

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

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

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

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

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

Driller: Dave Alpath

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR	
2	Stands D.P.	Ft.
1	Singles D.P.	Ft.
1	D.C. 5 1/2" I.D. 7" O.D.	Ft.
8	D.C. 5 1/2" I.D. 7" O.D.	Ft.
	Stb. Body O.D.	Ft.
	Stb. Body O.D.	Ft.
	Rmr. Body O.D.	Ft.
1	Subs O.D. 9 5/8"	Ft.
	Bit or C.B.	Ft.
	Kelly Down 37.37	Ft.
	Total 537	Ft.
	Wt. of String 41,000	Lbs.
	Pipe in Hole 5	Jts.
	Pipe on Racks 66	Jts.
	Total Pipe on Lease 71	Jts.

BIT RECORD: Bit No. 1 | Size 6¼ | Mfg. STC | Type S3J | Nozzle No. 6 1 | Nozzle Size 7 16 | Set No. HR 4400 | Depth Out | Depth In 5 1 | Total Fte 12 | Total Hr Run 12 | Cond. of Bit in | Reamer No. | Reamer Type

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

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

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

Driller

FOOTAGE

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2.00	12.15	1/4						RIG SERV
12.15	5.00	4¾						WELD CASING BOWL
								[illegible]
								[illegible]
								[illegible]
								[illegible]
								[illegible]
								[illegible]
								[illegible]
								[illegible]
								[illegible]
								[illegible]
								[illegible]
								[illegible]
								[illegible]
								[illegible]

FOOTAGE

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
5.00	5.15	1/4						~~We~~ Rig Ser
5.15		2¾						Weld Casing Bowl
								[illegible]
								Using D 500 Skidder Cat
								Using D311 Light Plant.

FOOTAGE

From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
5.41	5.53	12	D			50	5000	400	5"	120			

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
[illegible]	[illegible]	1						Nipple up
[illegible]	[illegible]	5						Dis Est Hole
[illegible]	[illegible]	16						Pressure up Blind Rams 500 psi OK
[illegible]	[illegible]	[illegible]						Pressure up Hydril 1500 psi OK
[illegible]	1.45	1/4						Pressure up on Pipe Rams 1500 psi OK
[illegible]	[illegible]	1/4						[illegible]
[illegible]	1.05	1/4						Check Bop [illegible] of Pipe Rams
1.05	1.30	1¼						Drill out cement & plug
[illegible]	12.00	[illegible]						Drill

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: NEELE RIVER N D-62

Location — Lsd. Sec. Twp. Rge. W. M.

Date: SEPT 22 1971

Weather Condition: Mild | Road Conditions: Wet | Nearest Town: Fort Simpson | Water - Source: Lake | Miles Hauled: 1 | Pumped: 1 | Camp Distance from Rig: Trailers | Reason for Extra L. Plant: Giant

OPERATOR: Arctic Drilling

Rig No.: 74 DWKS

Drill Pipe String: No. 4 Size 3½

Tool Joint: 4 3/4 O.D. Type Thd. IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Peter Rutherford

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	[illegible]	[illegible]	7
2.			
3.			

LAST CASING TUBING OR LINER	Size	Make	Wt. & Gr	No Joints	Feet	RKB. to CSG. HD.	Set at	Remarks
	7"	Sum. Tub	20# K5	11	523.70	10.30	510	Cemented w/ 135
								MS Class A Cement
								w/ 1

TIME DISTRIBUTION - HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual			
Reaming			
Conditioning Mud & Circulating	2½		
Trips			
Lubricate Rig	½		
Deviation Survey			
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing	3½		
Waiting on Cement	2½	1	
[illegible]		7	
Drill Stem Test			
[illegible]			
Other [illegible]	1		
[illegible]	1		
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	5½	8	5½

TIME SUMMARY (Office Use Only)

Day Wire

Hrs. W/DP

Hrs. WO/DP

Hrs. Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines Size

Feet Slipped

Feet Cut Off

Present Length

Ton Mi. or Trips Since Last Cut

Cumulative Ton Mi. or Trips

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

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

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
	521												

Deviation Record	Depth	Dev	Direction	Depth	Dev	Direction	Depth	Dev	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
[illegible]	[illegible]	[illegible]						Rig Stand
[illegible]	[illegible]	12						Rig up Tubing Crews
[illegible]	[illegible]	[illegible]						Rig Casing
[illegible]	3:00	[illegible]						[illegible]
[illegible]	[illegible]	[illegible]						Run Cement
[illegible]	5:15	[illegible]						Run Free
[illegible]	5:30	2½						Wait on Cement

DAY TOUR

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

FOOTAGE From	To	Ftge	DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	S.P.M.	Pump No. 2 Liner Size	S.P.M.	Method Run SGL-S Par'el-P Com'd-C
	521												

Deviation Record	Depth	Dev	Direction	Depth	Dev	Direction	Depth	Dev	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
[illegible]	[illegible]	[illegible]						[illegible]
[illegible]	[illegible]	[illegible]						[illegible]
[illegible]	[illegible]	[illegible]						[illegible]
[illegible]	[illegible]	[illegible]						[illegible]
[illegible]	[illegible]	[illegible]						[illegible]
[illegible]	[illegible]	[illegible]						[illegible]
[illegible]	[illegible]	[illegible]						[illegible]
[illegible]	[illegible]	[illegible]						Using D 311 Light Plant

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	Stands D.P.	Ft.	Bit No.		Time	
	Singles D.P.	Ft.	Size	6¼	Weight	
	D.C.		Mfg.	SEC	Visc.-Sec.	
	I.D. O.D.	Ft.	Type	SHF	W.L.-C.C.	
	D.C.		Nozzle No.	2 7	FL TR CK	
	I.D. O.D.	Ft.	Nozzle Size	9 10	PH	
	Stb Body O.D.	Ft.	Ser. No.	HH	SD Cont %	
	Stb Body O.D.	Ft.	Depth Out		Pressure Gradient	
	Rmr Body O.D.	Ft.	Depth In			
	Subs O.D.	Ft.	Total Ftg.		Mud & Chemicals Added: Type / Amt / Type / Amt	
	Bit or C.B.	Ft.	Total Hr Run			
	Kelly Down	Ft.	Cond. of Bit			
	Total	Ft.	Reamer No.			
Wt. of String		Lbs.	Reamer Type			
Pipe in Hole		Jts.	Water Charges: Reg. Hrs. O.T. Hrs.			
Pipe on Racks		Jts.	Trucker			
Total Pipe on Lease		Jts.	Trucker		Driller	

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

Deviation Record	Depth	Dev	Direction	Depth	Dev	Direction	Depth	Dev	Direction

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:00	1						W.O.C
5:00	[illegible]	7						Cut off Casing + Weld on Bowl
								Helicopter Slung in 4 Loads Sch
								Slumberger Equipment
								Geologists Trailer, Water pump.
								Using D 500 Skidder Cat
								Sent out Equipment on Barge To lay
								For Hay River NT- Husky

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease / Well Name: [illegible] Date: SEPT 21 1973

Location — Lsd. Sec. Twp. Rge. W. M

Weather Condition: [illegible] Road Conditions: [illegible] Nearest Town: [illegible] Water - Source: RIVER Miles Hauled Pumped Camp Distance from Rig: [illegible] Reason for Extra L. Plant: [illegible]

OPERATOR: [illegible]

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Rutherford

Rig No. 74 DWKS

Drill Pipe String: No. 2 Size 3½

Tool Joint 4½ O.D. Type Thd IF

PUMPS			
No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	C 250	7
2.			
3.			

LAST CASING TUBING OR LINER

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

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual	4	3¾	[illegible]
Reaming		1	
Conditioning Mud & Circulating	1¼	½	½
Trips	2	2	[illegible]
Lubricate Rig	¼	¼	¼
Deviation Survey	¾	½	
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
Wire Line Logging			
Running Casing & Cementing			
Waiting on Cement			
Drill Stem Test			
Other RR [illegible]	¾		
Fishing			
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	5	5	5

TIME SUMMARY (Office Use Only)

Day Work

Hrs. W/DP

Hrs. WO/DP

Hrs. Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines Size

Feet Slipped

Feet Cut Off

Present Length

Ton Mi. or Trips Since Last Cut

Cumulative Ton Mi. or Trips

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
1	Stands D.P.	6142	Ft.
	Singles D.P.		Ft.
7	D.C. 5¼ I.D. O.D.	200.45	Ft.
12			
5	D.C. 6¾ I.D. O.D.	155.94	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	15.74	Ft.
	Total	426	Ft.
Wt. of String		20,000	Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease			Jts.

BIT RECORD		
Bit No.	2-S	
Size	6¼	
Mfg.	SEC	
Type	S 41	
Nozzle No.	[illegible]	
Nozzle Size	[illegible]	
Ser. No.	116992	
Depth Out		
Depth In	325	
Total Ftg.		
Total Hr. Run	4	
Cond. of Bit		
Reamer No.		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD			
Time	12:00	3:00	6:00
Weight		59	
Visc.-Sec.	31	39	42
W.L.-C.C.		5.8	
FL. TR. CK.			
PH			
SD. Cont. %			
Pressure Gradient			
Mud & Chemicals Added: Type / Amt / Type / Amt			
Driller	[illegible]		

FOOTAGE			DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
From	To	Ftge											
325	420	105	D.			120	2000	300	6	132			
						120	2000	450	6	148			
						120	3000	500	6	146			

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	354	¾		375	3¼		429	1°	

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼						RIG SERV
12:15	[illegible]	¾						HOIST TO RUN PILOT 6¼
1:00	1:15	¼						RUN IN w/ 6¼
1:15	2:30	1¼						BREAK CIRC
2:30	4:15	1¾						DRLG 6¼ HOLE
4:15	4:45	½						WORK PIPE & BACK & SURVEY TIGHT
4:45	5:15	½						DRLG 6¼ HOLE
5:15	5:45	½						CONNECTION WORK PIPE & SURVEY
5:45	6:15	½						DRLG 6¼ HOLE
6:15	6:45	½						CONNECTION & WORK PIPE & SURVEY
6:45	7:15	¾						DRLG 6¼ HOLE
								[illegible]

DAY TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
	Stands D.P.		Ft.
2	Singles D.P.	121.88	Ft.
	D.C.		
12	I.D. O.D.	336.89	Ft.
	D.C.		
	I.D. O.D.		Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	40.00	Ft.
	Total	501	Ft.
Wt. of String		20,000	Lbs.
Pipe in Hole		4	Jts.
Pipe on Racks		66	Jts.
Total Pipe on Lease		71	Jts.

BIT RECORD		
Bit No.	2-S	3-S
Size	6¼	9
Mfg.	Sec.	Reed
Type	S 41	YT1
Nozzle No.	OPEN	
Nozzle Size		
Ser. No.	116992	E22
Depth Out	501	
Depth In	325	325
Total Ftg.	176	26
Total Hr. Run	7¾	1
Cond. of Bit	321	
Reamer No.		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD			
Time	10:00	1:00	3:00
Weight	9.0	9.5	9.5
Visc.-Sec.	40	35	35
W.L.-C.C.			
FL. TR. CK.			
PH	8.0	8.0	8.0
SD. Cont. %			
Pressure Gradient			
Mud & Chemicals Added: Type / Amt / Type / Amt			
Driller	Dave Smith		

FOOTAGE			DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
From	To	Ftge											
420	501	81	DRD			120	4,000	400	6	146			
325	351	26	RM-R										

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	395	¾		501	1°				

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						Rig Ser.
8:15	11:15	3						DRLG 6¼" hole
11:15	11:30	¼						Work on Pump
11:30	12:15	¾						DRLG 6¼" hole
12:15	12:45	½						Circ
12:45	1:00	½						Survey
1:00	3:00	2						Trip + lay down 225' to Prepare To Ream
3:00	4:00	1						Ream To Bottom From 6¼" To 9" hole.

	D.C	D.P
TALLY	336.89	122.94
BOARD	336.89	121.88
	.05	1.06 No CORR.

EVENING TOUR

NO	DRILLING ASSEMBLY AT END OF TOUR		
2	Stands D.P.		Ft.
1	Singles D.P.	13.52	Ft.
7	D.C. 5¼ I.D. O.D.	200.45	Ft.
5	D.C. 6¾ I.D. O.D.	155.94	Ft.
	Stb. Body O.D.		Ft.
	Stb. Body O.D.		Ft.
	Rmr. Body O.D.		Ft.
1	Subs O.D.	2.95	Ft.
	Bit or C.B.		Ft.
	Kelly Down	27.79	Ft.
	Total	521.15	Ft.
Wt. of String			Lbs.
Pipe in Hole			Jts.
Pipe on Racks			Jts.
Total Pipe on Lease		71	Jts.

BIT RECORD		
Bit No.	3-S	
Size	9"	
Mfg.	Reed	
Type	YT1	
Nozzle No.	OPEN	
Nozzle Size		
Ser. No.	E22	
Depth Out	501	501
Depth In	325	520
Total Ftg.	176	~~519~~
Total Hr. Run	5½	1½
Cond. of Bit	221	
Reamer No.		
Reamer Type		
Water Charges	Reg. Hrs.	O.T. Hrs.
Trucker		
Trucker		
Trucker		

MUD RECORD			
Time	6:00	9:00	11:00
Weight	9.5	9.5	
Visc.-Sec.	37	36	
W.L.-C.C.			
FL. TR. CK.			
PH			
SD. Cont. %			
Pressure Gradient			
Mud & Chemicals Added: Type / Amt / Type / Amt			
Driller			

FOOTAGE			DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
From	To	Ftge											
351	521		RM-R										

Deviation Record	Depth	Dev.	Direction	Depth	Dev.	Direction	Depth	Dev.	Direction
	521	1		~~520~~					

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼						Rig Ser.
4:15	9:45	5½						DRLG 9" hole Ream From 6¼ to 9"
9:45	10:00	¼						WORK PIPE - COR
10:00	10:45	¾						PULL 5ST DUMMY TRIP
10:45	11:30	¾						CIRC & RUN SURVEY.
11:30	12:00	½						HOIST TO RUN CASING

Using D 500 Skidder CAT

GUTHRIE McLAREN Drilling Ltd.

DAILY DRILLING REPORT

Form 6

Lease Well Name: KERLE RIVER N 0-62

Location — Lsd. ___ Sec. ___ Twp. ___ Rge. ___ W. ___ M.

Date: SEPT 20 1963

Weather Condition: MILD | Road Conditions: N/A | Nearest Town: NORMAN WELLS | Water - Source: RIVER | Miles Hauled: | Pumped: S. | Camp Distance from Rig: 7 miles | Reason for Extra L. Plant:

OPERATOR: WESTERN DECELTA

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

Rig No.	Drill Pipe String No	Size	Tool Joint	Type Tbd
D-H DWKS N-4	2	3½	4 3/4 O.D.	IF

PUMPS

No	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	C-350	7
2.			
3.			

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

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
Rig Up & Tear Down			
Drilling Actual		3½	6¾
Reaming			
Conditioning Mud & Circulating			
Trips			
Lubricate Rig		¼	¼
Deviation Survey		½	¾
Test B.O.P.			
Cut Off Drilling Line			
Repair Rig			
Coring			
~~Wire Line Logging~~			¼
Running Casing & Cementing			
Waiting on Cement	8		
Clean out Mud ~~Pad~~ ~~Mud~~ Ring		1¾	
DRLG Cement Under Reamer Burrel		¼	
Change Oil in ~~Rotary~~ Torque		1¾	
COMPLETION WORK: A. Perforating			
B. Tubing Trips			
C. Swabbing			
D. Testing			
E. Additional			
Totals	8	8	8

TIME SUMMARY (Office Use Only)

Day Work

Hrs. W/DP

Hrs. WO/DP

Hrs. Standby

Total Day Work

WIRE LINE RECORD

Reel No.

No. of Lines Size

Feet Slipped

Feet Cut Off

Present Length

Ton Mi. or Trips Since Last Cut

Cumulative Ton Mi. or Trips

No. of Days From Spud

Cumulative Rotating Hrs.

MORNING TOUR

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

BIT RECORD

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

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

MUD RECORD

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

Mud & Chemicals Added

Type	Amt.	Type	Amt.
Caustic	100#		

Driller: Brian Spence

FOOTAGE

From	To	Ftge

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

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

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	8:00	8						W.O.C.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	Stands D.P.	Ft.
	Singles D.P.	Ft.
	D.C. I.D. O.D.	Ft.
6	D.C. I.D. O.D. 24.43	Ft.
	D.C. I.D. O.D.	Ft.
	Stb Body O.D.	Ft.
	Stb Body O.D.	Ft.
	Rmr Body O.D.	Ft.
1	Subs O.D. 1.80	Ft.
	Bit or C.B.	Ft.
	Kelly Down 24.19	Ft.
	Total 200	Ft.
	Wt. of String 18,000	Lbs.
	Pipe in Hole	Jts.
	Pipe on Racks 71	Jts.
	Total Pipe on Lease 71	Jts.

BIT RECORD

Bit No.	1-5
Size	9
Mfg.	Reed
Type	YT1
Nozzle No.	OPEN
Nozzle Size	
Ser. No.	E22
Depth Out	
Depth In	62
Total Ftg.	138
Total Hr. Run	3½
Cond. of Bit	1-1
Reamer No.	
Reamer Type	

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

MUD RECORD

Time	11.00		3:00
Weight			8.6
Visc.-Sec.	4.3		35
W.L.-C.C.			
FL. TR. CK.			
PH			9.5
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.
FELTEX	100#		

Driller: Dwayne Gibson

FOOTAGE

From	To	Ftge
62	200	138

DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
			120	2-8	~~350~~	6"	170			

Deviation Record	Depth	Dev.	Direction	Depth	Dev	Direction	Depth	Dev	Direction
	100	¼		186	¾				

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼						RIG SERV.
8:15	8:30	¼						DRLG CEMENT OUT OF CONDUCTOR
8								PIPE.
8:30	8:45	¼						DRLG
8:45	10:30	1¾						CHANGE OIL IN TORQUE
10:30	11:15	¾						DRLG.
11:15	11:30	¼						SURV.
11:30	1:00	1½						~~Clean~~ Work on Mud Ring
1:00	1:30	½						DRLG 9" hole
1:30	1:45	¼						~~Cl~~ Work on Mud Ring
1:45	3:15	1½						DRLG 9" hole
3:15	3:30	¼						Survey
3:30	4:00	½						DRLG 9" hole

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	Stands D.P.	Ft.
	Singles D.P.	Ft.
	D.C. I.D. O.D. 30.72	Ft.
	D.C. I.D. O.D.	Ft.
	Stb. Body O.D.	Ft.
	Stb. Body O.D.	Ft.
	Rmr Body O.D.	Ft.
1	Subs O.D. 1.50	Ft.
	Bit or C.B.	Ft.
	Kelly Down 13.93	Ft.
	Total 325	Ft.
	Wt. of String 15,000	Lbs.
	Pipe in Hole	Jts.
	Pipe on Racks 71	Jts.
	Total Pipe on Lease 71	Jts.

BIT RECORD

Bit No.	1-5
Size	9
Mfg.	Reed
Type	YT1
Nozzle No.	OPEN
Nozzle Size	
Ser. No.	E22
Depth Out	325
Depth In	262
Total Ftg.	265
Total Hr. Run	10½
Cond. of Bit	1-1
Reamer No.	
Reamer Type	

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

MUD RECORD

Time	6:00	9:00	11:00
Weight	8.6		
Visc.-Sec.	35	36	36
W.L.-C.C.			
FL. TR. CK.			
PH	9.5		
SD Cont. %			
Pressure Gradient			

Mud & Chemicals Added

Type	Amt.	Type	Amt.

Driller: Dave Afferth

FOOTAGE

From	To	Ftge.
200	325	125

DR-D RM-R Core-C	Core No.	FORMATION (SHOW CORE RECOVERY)	Rotary RPM	Wt. on Bit 1000 Lbs.	Pump Press	Pump No. 1 Liner Size	Pump No. 1 S.P.M.	Pump No. 2 Liner Size	Pump No. 2 S.P.M.	Method Run SGL-S Par'el-P Com'd-C
			120	2	300	6	170			

Deviation Record	Depth	Dev.	Direction	Depth	Dev	Direction	Depth	Dev.	Direction
	271	1°		293	1°		325	1¼	

Hour Started	Hour Stopped	Elapsed Time	A	B	C	D	Acc. DT	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:30	½						DRLG 9" hole
4:30	4:45	¼						Rig Serv
4:45	7:30	2¾						DRLG 9" hole
7:30	7:45	¼						Survey
7:45	9:30	1¾						DRLG 9" hole
9:30	10:00	½						SURVEY — ~~Con~~ — TRIP IN PIPE
10:00	11:45	1¾						DRLG 9" HOLE
11:45	12:00	¼						Con SURVEY