Mobil Inc. NCO Sun Thunder R.

D-69

Drilling Authority No. 384

Date Issued 25 November 1969

WELL NAME Mobil INC NCO ~~MOBIL~~ SUN THUNDER R. D-69

FIELD ..... Area: .....

LOCATION: Unit D Section 69 Grid 67-40-130-00

Latitude 67-38-10 Longitude 130-12-40

U.W.L.R. 67.63611 -- 130.21111

U.W.I. 300D696740130000

Rig Release Date: .....

Status .....

Information Release Date .....

CHANGE OF NAME:

DATE RECEIVED	INDEX
25/11/69	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
12/2/70	Application to change a Well Name.
13/3/70	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
22-7-70	Well Completion Data.
	Work-over Report No. .....
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells – Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells – Vitter's Method.
	M.P.R. – Oil – Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale..... Small scale.....

IAND 52-90 (3-69)

Drilling Authority No. 384

Date Issued 25th November 1969

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT OIL & MINERAL DIVISION JUL 23 1970 OIL CONSERVATION ENGINEER Northwest Territories & Yukon Territory

WELL COMPLETION DATA

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

Well name and number MOBIL INC NCO SUN THUNDER R.D-69

Permit No. 4444 Lease No.

Chevron Standard Ltd. (Permittee, Licensee, Lessee) Exploratory Licence No. 1283

MOBIL OIL CANADA LTD. (Operator) Exploratory Licence No. 1245

Location: Unit D Section 69 Grid 67° 40' 130° 00'

Latitude 67° 38' 10" N Longitude 130° 12' 40" W

From Established Reference Marker

Universal Well Location Reference 67.63611° N Lat 130.2111 W Long

	DATE	DEPTH
Spudded	Feb 2/70	
Suspended		
Resumed Operations		
Finished Drilling	Feb. 12/70	1200'
Deepened		
Complete (gas/oil)		
Abandoned	Feb 17/70	1200'
Rig released	Feb 17/70	

Pool(s) None

Interval(s) open to production

Elevation: Gr. 806 K.B. 820

Rig No. 9

Drilling Contractor TRIMBLE

Contractor's Business Licence No. 0576

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at –	Sacks of Cement and Additives
1. 9 5/8"	H-40	32.3 #	89.74	73.78'	50 sacks + 20 around cellar. Recemented w/ 120 Fondu Cement
2. 7"	J-55	17#	356.55	355.61	118 Fondu Cement
3. 4 ½	J-55	95#	1201.89	1200'	150 Fondu Cement
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
HARE INDIAN	330	+490
BITUMINOUS	636	+184
HUME	694	+126
BEAR ROCK	945	-125

CORE RECORD

From	To	Rec.	From	To	Rec.
None					

LOG RECORD

Run No.	Type of Log	From	To
1	GAMMA - RAY LOG	30	1105'

IAND 52-96(2) (3-67)

CEMENTING RECORD (Plug, Squeeze, etc.)			
Date	From	To	Remarks
Feb 17/70	0	94'	Surface Casing Plug Top Welded plate on top of 4½" casing, w/5' steel post bearing well identification.

PERFORATING RECORD (Bullet, Jet)			
Date	From	To	Remarks

SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	I.F.B.H.P.	F.F.B.H.P.	I.H.P.	F.H.P.	REMARKS

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks

PRESENT STATUS OF WELL

Oil		(Interval.)
Gas		(Interval.)
Dry		
Susp.		

Company MOBIL OIL CANADA LTD

Signed by G. Stanford

Title Production Superintendent

Date July 22, 1970

Forms to be prepared in duplicate and forwarded to the Oil Conservation Engineer, Calgary, Alberta.

File No.....
Drilling Authority No. 384

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to Abandon a Well or Suspend Drilling

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

Name and number of well: Mobil INC NCO Sun Thunder R D-69

Location: Unit: D Section: 69 Grid: 67° 40' 130° 00'

Latitude: 67° 38' 10" N Longitude: 130° 12' 40" W

From Established Reference Marker: S.P. 517 on Seismic Line 226X

Universal Well Location Reference: 67.3611° N Lat. 130.2111 W Long.

Permit No. 4444 Lease No.....

Chevron Standard Limited
(Permittee, Licensee, Lessee)

Date of commencement of proposed program: Feb. 13, 1970

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at.....
Gas at.....
Water at.....
Total Depth: 1200 Date of last operations: Feb. 13, 1970
Present condition of well: 4 1/2" casing has been landed and cemented with good returns at surface.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 9 5/8	32.3	89.74	73.78	50 sacks Howco Fondu	Nil
2. 7	17	356.55	355.61	118 sacks Howco Fondu	Nil
3. 4 1/2	9.5	1201.89	1200	150 sacks Howco Fondu	Nil
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
It is proposed to abandon the well after setting the 4 1/2" casing				

The following logs have been run.....
Other operations proposed: Weld cap on 4 1/2" casing with 5 foot steel post stating well name.
Operations to be carried out by: Trimble #9 Contractor Licence No. 0576
Address: 10th Floor 540 - 5 Ave. S.W., Calgary Address: 10th Floor 540 - 5 Ave. S.W. Calg.
Responsible Agent in field: L. Leismeister (Mobil), D. J. Turner (Trimble)
Dated at Edmonton, this 11th Day of March 19 70
Signed by: [signature] Company: Mobil Oil Canada, Ltd.
Title: Production Superintendent Operator's Exploratory Licence No. 1283

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:

Dated 13th March, 19 70

[signature]
Oil Conservation Engineer

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

File No. .....

Drilling Authority No. 384

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to Change a Well Name

Application is made hereby to change the name of the well, recorded in the Well-names Register as—

INC NCO MOBIL SUN THUNDER R. D-69
(Old name)

to MOBIL INC NCO SUN THUNDER R. D-69
(Proposed new name)

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT OIL & MINERAL DIVISION FEB 6 1970 OIL CONSERVATION ENGINEER Northwest Territories & Yukon Territory

Well Location

Location: Unit D Section 69 Grid 67°40' - 130°00'

Latitude 67°38' 10" N. Longitude 130°12' 40" W.

Unique Well Identifier 300D696740130000

Universal Well Location Reference 67.63611° N. Lat. 130.21111° W. Long.

Reason for Changing Well Name

Mobil Oil Canada, Ltd. has replaced International Nuclear as operator of this well.

Responsible agents:

At well: J. M. Stanford
Address: 10621 - 100 Ave. Edmonton, Alberta

At registered Office: E. H. Kohse
Address: P.O. Box 800, Calgary, Alberta

Dated at Calgary this 5th day of February 1970

Signed by [signature]

Title Land Operations Supervisor

Company Mobil Oil Canada, Ltd.

(For Oil and Mineral Division use only)

APPROVED

This application has been examined and approved:

Subject to the same conditions of approval as for the original Drilling Authority No. 384.

Date 12th February, 1970

[signature]
Oil Conservation Engineer

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

IAND 52-90-4 (9-69)

D

Not Repeat

Drilling Authority No. 384

Project No.

File No.

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application for a Drilling Authority

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

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

Name and number of well: INC NCO MOBIL SUN THUNDER R. D-69

Location: Unit: D Section: 69 Grid: 67° 40' - 130° 00'

Latitude: 67° 38' 10" N Longitude: 130° 12' 40" W

Reference Marker: S.P. 517 on Seismic Line 226X

Universal Well Location Reference: 67.63611° N Lat. 130.21111 W Long.

Elevation: Ground: 806' K.B. 818' feet above sea-level.

Well is expected to produce from: Mt. Kindle formation at a depth of about: 2710 feet. Expected total final depth: 5000

Area assigned to well: (for Oil Conservation Engineer's use only)

Permit No.: 4444 Lease No.: Acreage: 24445

Permittee, licensee, or lessee: Chevron Standard Limited

Exploratory Licence No.: 1283

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 (lbs./ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. 9-5/8"	32.3#	H-40	New	60'	25
2. 7"	17#	H-40	New	350'	90
3. 4½"	9.5#	J-55	New	1070'	175
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment: Nahanni, Lower Devonian and Mt. Kindle, to be controlled by drilling mud of adequate weight, and blow out preventers described as follows: 1 - Cameron 6" Series 1500 double gate Type "SS" BOP; 1 - Hydril; 6" Series 900 Type GKS.

Well will be drilled with Rotary Rig No. 9 by Trimble Drilling (Drilling Contractor or company)

Contractor's Business Licence No. 0576

Responsible agent of applicant:—

At well: D. J. Turner At registered office: J.A. Nelson or K.N. Sobkowich

Address: 540-5th Ave. S.W., 10th Floor Address: 540-5th Ave. S.W. 10th Floor

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

Dated at: CALGARY, this 21st day of November 19 69

Signed by: K.N. Sobkowich Company: International Nuclear Corporation

Title: Drilling & Production Engineer Operator's Licence No. 1313

(For Oil and Mineral Division use only)

APPROVED

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

1. The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.
2. During well drilling and testing operations, every effort shall be made to ensure (over)

Dated: 25th November 19 69

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)

UNIQUE WELL IDENTIFIER: 300D696740130000

that drilling fluids, chemicals and wasts shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.

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

B.H.J. Thoms

B.H.J. Thoms, Oil Conservation Engineer

INTERNATIONAL NUCLEAR CORPORATION

PLAN SHOWING LOCATION OF

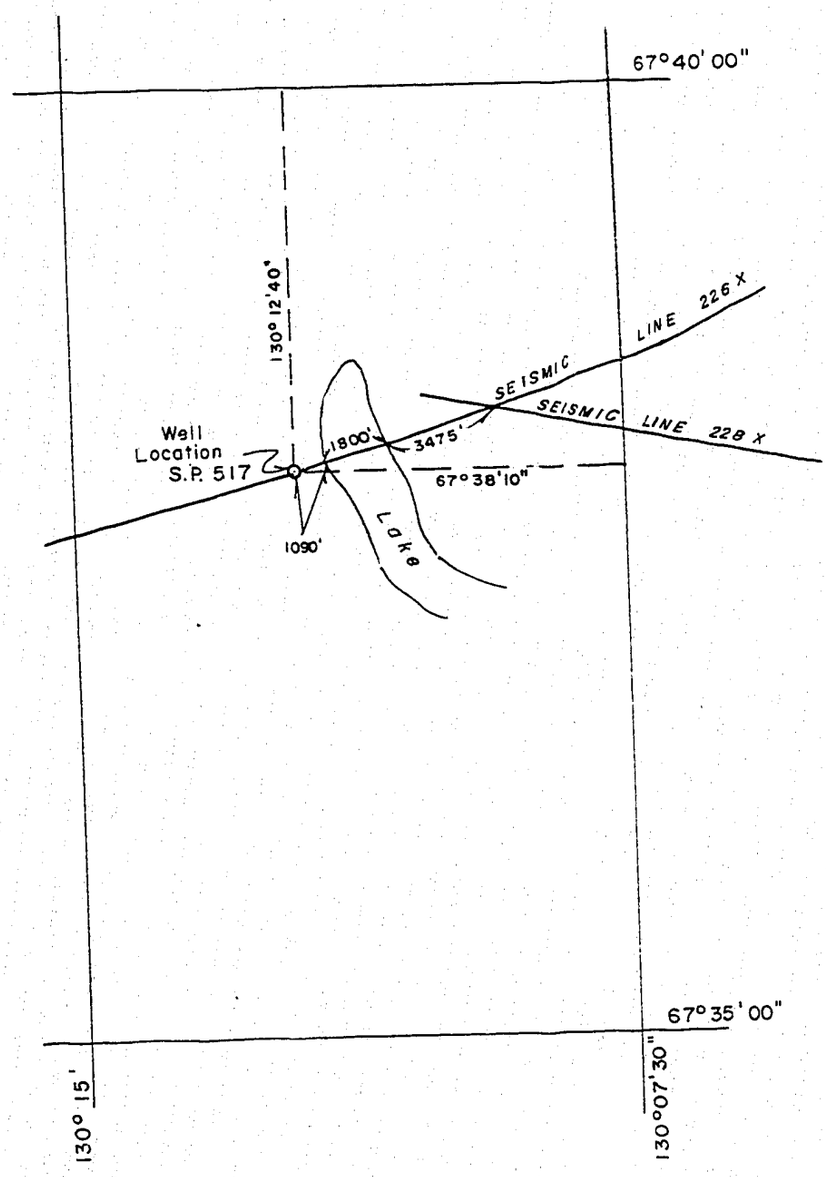
INTERNATIONAL NUCLEAR-THUNDER RIVER PROSPECT No. D-69

IN THEOR.

GRID AREA 67°40' -130°00' N.T.S 106-0.

NORTHWEST TERRITORIES

SCALE: 1" = 5280'



DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT RESOURCE MANAGEMENT BRANCH
NOV 24 1969
CALGARY, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

I certify that the survey represented by this plan is correct and true to the best of my knowledge and was performed on the 20th day of May, A.D. 1969.

D.L.S.

WITNESS

ALL-CAN ENGINEERING & SURVEYS LTD.

CO-ORDINATES LATITUDE: 67°38'10"
LONGITUDE: 130°12'40"

GROUND ELEVATION: 806.0'

INTERNATIONAL NUCLEAR CORPORATION:

J.A. Nelson

K.N. Sokkowich

Survey Monument found shown thus - - - - - - - - ●

12" Iron Spike planted shown thus - - - - - - - - - - ○

Portions referred to outlined thus ————

Distances are in feet and decimals.

JOB NO. C-6248		DATE: 21/5/69

WELL HISTORY REPORT

MOBIL INC NCO SUN THUNDER R. D-69

57-11-7-61

OIL CONSERVATION ENGINEER
DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION
112-11th Avenue S.E.
Calgary 21, Alberta

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
SEP 15 1
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

WELL HISTORY REPORT

ON

MOBIL INC NCO SUN THUNDER RD-69

Edmonton, Alberta

Date Approved August 26, 1970

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
SEP 15 1970
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

Approved By

H. S. H. Aitken
for Production Superintendent

CONFIDENTIAL

By - T. R. Brand
W. G. Ross

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THUNDER RIVER D-69

SECTION I

SUMMARY OF WELL DATA

(a) MOBIL INC NCO SUN Thunder R. D-69 changed February 5, 1970 from INCO NCO MOBIL SUN Thunder R. D-69.

(b) Permittee
Chevron Standard Limited

(c) Operator
To: February 1, 1970

International Nuclear Corporation
1000 Aquitaine Tower
540 - 5th Avenue S.W.
Calgary 1, Alberta

After: February 1, 1970

Mobil Oil Canada, Ltd.
Calgary Place
Post Office Box 800
Calgary, Alberta

(d) Location
Unit D Section 69 Grid 67° 40' - 130° 00"
Lat. 67° 38' 10" N. Long. 130° 12' 40" W.

Unique Well Identifier: 300D696740130000
Universal Well Location: 67.63611° N Lat.
130.21111° W Long.

(e) Coordinates
Not a development well.

(f) Permit Number
4444

(g) Drilling Contractor
Trimble Drilling
Rotary Rig #9

(h) Drilling Authority Number
#384 November 25, 1969

(i) Classification
New Field Wildcat

(j) Elevations

Ground 806'
K.B. 820'

(k) Spud Date

February 2, 1970

(l) Completed drilling

February 12, 1970

(m) Total Depth

1106 (-286) (Schlumberger)
1200 (-380) (Driller)

(n) Well Status

Abandoned

(o) Released Rig

February 17, 1970 8:00 am

(p) Hole Sizes to Total Depth

12 1/4" 0-87' Conductor Hole
8 3/4" 87-359' K.B.
6 1/4" 359-1200 K.B.

(q) Casing

9 5/8" H-4D 32.3 # landed at 73.78'
7" J-55 17# landed at 355.61'
4 1/4" J-55 9.5# landed at 1200' K.B.

SECTION II GEOLOGICAL SUMMARY

(a) Formation Tops

	E Log Tops	Sample Tops
Hare Indian	330 (+490)	None
Bituminous Zone	636 (+184)	None
Hume	694 (+126)	700 (+120)
Bear Rock (Gossage)	945 (-125)	950 (-130)

(b) Cored Intervals

No cores taken.

(c) Core Descriptions

None

(d) Sample Description

See attached Composite Well History log. Retained by Oil Conservation Engineer.

(e) Paleontological Determinations

None

SECTION III ENGINEERING SUMMARY

(a) Report of Drill Stem Tests

No drill stem tests made.

b) Casing Record

1. Ran 89.74' of 9 5/8 H-40 32.3# ST
Casing landed at 73.78'. Cemented initially with 50 sacks of Fondu cement. Drilled out made 4' of hole and conductor pipe washed out. Welded collar back on and circulated 9 5/8" recemented with 120 sacks of Fondu cement got returns to surface. Mixed 20 sacks on top after no returns initially.
2. Ran 356.55' of 7" J-55 17# ST+C and landed at 355.61'; 3' off bottom. Cemented with 118 sacks of Fondu cement.

3. Ran 1201.89' of 4½" J-55 9.5# ST+C casing landed at 1200' K.B. Cemented with 150 sacks of Fondu cement returns to surface.

c) BIT RECORD

NO.	MAKE	TYPE	SIZE	HOURS	DEPTH IN	DEPTH OUT	FOOTAGE	COND.
1A	Smith	DTJ	12 1/4	13 3/4	0	87	87'	-
2A	Smith	DTJ	8 3/4	15	87	359	272'	-
3	HW	OSC	6 1/4	Drill out 7" Casing Plug + Shot				
4	HW	OSC	6 1/4	20	359	862	503'	-
5	HW	OSC	6 1/4	10 3/4	862	1042	180'	-
6	Smith	V2-J	6 1/4	15 1/4	1042	1200	158'	-

d) MUD REPORT

DAY	WEIGHT	VISCOSITY	
Feb 2/70	Water		
Feb 3/70	Water		
Feb 4/70	W.O.C.		
Feb 5/70	Water		
Feb 6/70	Water		
Feb 7/70	W.O.C.		
Feb 8/70	9.6#/gal	34	GEL WATER
Feb 9/70	W.O.C.		
Feb 10/70	Water		
Feb 11/70	Water		
Feb 12/70	Water		
Feb 13/70	W.O.C.		
Feb 14/70 - Feb 17/70	W.O.O.		

e) DEVIATION REPORT

DEPTH	DEVIATION
290'	1 1/4°
352'	1°
600'	3/4°
1000'	1/4°

e) DEVIATION REPORT (continued)

DEPTH	DEVIATION
1200'	0°

f) ABANDONMENT PLUGS

Abandoned well after setting 4 1/2 casing. Welded cap on 4 1/2" casings with 5' steel post stating well name.

g) LOST CIRCULATION ZONES

None

h) REPORT OF BLOWOUTS

None

SECTION IV LOGS

1) February 14, 1970
   Interval = 30' to 1105'
   Gamma Ray - Neutron

SECTION V ANALYSIS

(a) Core Analysis

None

(b) Water Analysis

None

(c) Gas Analysis

None

(d) Oil Analysis

None

SECTION VI COMPLETION SUMMARY

a) Tubing Record

None

b) Perforation Record

None

c) Cementation Record

None

d) Acidization and Fracturing Record

None

e) Back Pressure and Production Tests

None

APPENDIX

N. W.T.

Mobil

NAME Mobil Inc Noo Sun Thunder B D-69

OPERATOR Mobil Oil Can, Ltd. and International Nuclear

SPUDDED February 2, 1970 COMPLETED February 17, 1970

TOTAL DEPTH 1200' BOTTOM FM. Bear Rock.Gossage

STATUS D & A

PRODUCTION DATA Mobil assumed operatorship due to poor performance of rig and previous operator Int. Nuclear. A N.E. Ran OSO to 1200', and then logged, before drlg out. Therefore, Schlumberger bottomed on A 94' CMT plug. Well abandoned short of its objective due to poor rig performance.

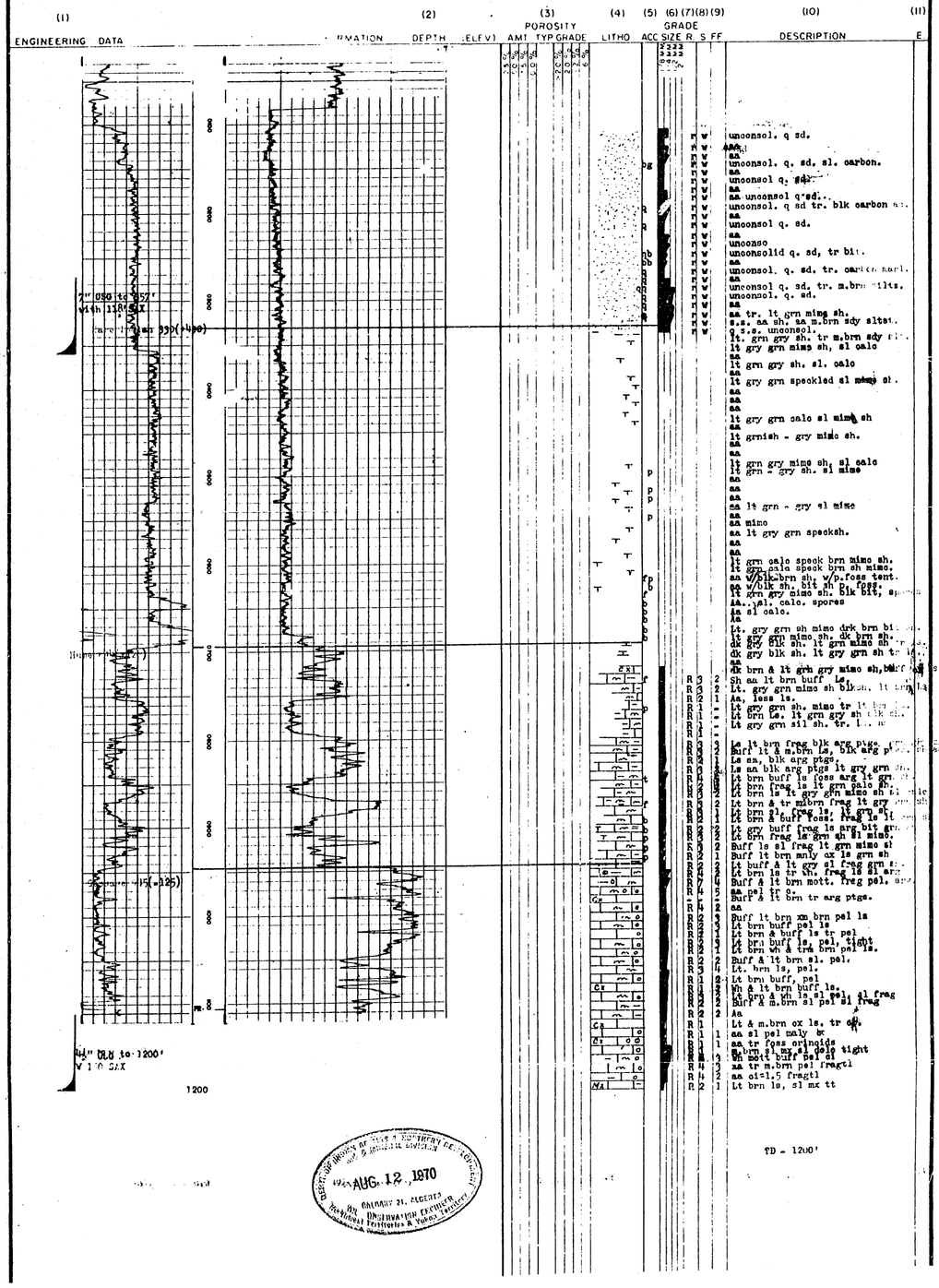
COMPANY	[illegible]
WELL	MOBIL INC NOO SUN THUNDER B D-69
FIELD	WILDCAT
PROVINCE	NORTHWEST TERRITORIES
LOCATION	67° 38' 30" N LAT 130° 12' 42" W LONG
Permanent Datum	GL 806.0
Log Measured From	KB 13.0 Above Perm. Datum
Drilling Measured From	KB
Date	2-17-70
Run No.	ONE
Depth-Driller	1200
Depth-Logger	1199
Bottom Log Interval	1198
Top Log Interval	SURFACE
Casing-Driller	9 5/8 @ 94
Casing-Logger	94
Bit Size	8 1/2
Type Fluid in Hole	GEL CHEM
Dens.	9.6
Visc.	50
pH	10.5
Fluid Loss	8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp.	.75 @ 70°
Rmf @ Meas. Temp.	.65 @ 70°
Rmc @ Meas. Temp.	.90 @ 70°
Source Rmf / Rmc	MEASURED / CALCULATED
Rm @ BHT	.45 @ 125°
Time Since Circ.	18 HRS
Max. Rec. Temp.	125° F
Equip. Location	1
Recorded By	[illegible]
Witnessed By	[illegible]

NTS 67°40' 130°00'

CATEGORY N.F.W.

ELEVATION GR. 806 K.B. 819

CO-ORD.



DIRECTOR OF MINES & PETROLEUM RESOURCES
AUG. 12 1970
CALGARY 21, ALBERTA
Northwest Territories & Yukon Territory

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

N.W.T. D-69

RIG No. 9 LOCATION I.N.C. NCO MOBIL SUN AREA THUNDER RIVER DATE FEB 13/ 1970

DAY WORK RECORD

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

Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller PAUL LOZIAK	8
Derrick LES WHITING	8
Floor DAVE JAMES	8
Floor	
Floor	8
Motor KEN WILLIAMS / ROBERT PAULHUS	8
Mechanic	
Extra Percy Nuetzling	8

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
1190											

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree

MOTOR HOURS		Next Oil Change
1		
2		
3		
4		
5		

PUMPS			
No. 1	Model	Pressure	
		S.P.M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General RAN 38 JTS 4½" 9.5 Csg CEMENTED @ 1200' K.B WITH 150 SKS FONDU CEMENT.

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL 1200

REMARKS	Time Start	Stop	Interval
Rig SFR ✓ BOPS	12:00	12:15	1/4
Rig up To Run Csg.	12:15	1:00	3/4
Run Csg.	1:00	4:30	3½
Circ. Csg. To Cement	4:30	5:30	1
Rig up Halliburton	5:30	6:00	½
Cement + Drop Plug	6:00	7:15	1¼
Rig out Halliburton	7:15	8:00	¾
			8

Company Time Cont'r Time

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller R. Anderson	8
Derrick Gerry Feldberg	8
Floor Ernie Garnett	8
Floor	
Floor	
Motor Alain Kreutz	8
Mechanic	
Extra Percy Nuetzling	8

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
1200											

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: Please Hold Gerry Feldberg Cheque in office.

At Surveys Degree

MOTOR HOURS		Next Oil Change
1	1	149
2	1	149
3		150
4		150
5		

PUMPS			
No. 1	Model	Pressure	
		S.P.M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL 1200

REMARKS	Time Start	Stop	Interval
W.O.C.	8:00	4:00	
Set Csg. Slips			
Set Up Schlumberger unit			
Clean mud Tanks.			
Change oil in motors			8

Company Time Cont'r Time

Tour — 4 p.m. to Midnight

Specify actual hours worked	Hrs.
Driller H. Minns	8
Derrick Dave Randall	8
Floor Peter Hynes	8
Floor Ken Williams	8
Floor	
Motor Robert Paulhus	8
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree

MOTOR HOURS		Next Oil Change
1	8	141
2	8	[illegible]
3	8	[illegible]
4	7	[illegible]
5	8	[illegible]

PUMPS			
No. 1	Model	Pressure	
		S.P.M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL 1200

REMARKS	Time Start	Stop	Interval
W.O.C	4:00	12:00	8
Put End Flow Line			
Change Heads & Liners			
in Pump			
Rig up Schlumberger			
Flag Log			

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher J. Kuretko

Total Company Time _____ Hrs. Approved by _____

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

RIG No. 9 LOCATION INCN NCO MOBIL SUN D-69 AREA THUNDER RIVER DATE Feb 12 1970

DAY WORK RECORD

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

Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller LAVERN GALENZA	8
Derrick MARK GAETANO	8
Floor KEN GALENZA	8
Floor ERNIE HABEGGER	8
Floor	
Motor FRED DAMMS	8
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
1042	78	1120	7 3/4	23(m)	6	4 1/2	2 3/4				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	6 1/4	Sm-V2	—	AH978	10(m)	150	80	8 1/4			

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY		WATER		
GEL				

Additives

At Surveys Degree: 1000 1/4

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS: No. 1 Pressure; Model FW; S.P.M.; Liner Size 6 5"; No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands 94229; Singles 3033; D. Collars 157 13; Other Ft.; C.B. Ft.; Subs. Ft. 4 33; Ft. Up On Kelly 12'; TOTAL 1120.08

REMARKS	Time Start	Stop	Interval
Rig Ser J Bots	12:00	12:15	1/4
Drilling	12:15	8:00	7 3/4
			8

Company Time Cont'r Time

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller PAUL LOZIAK	8
Derrick LES WHITING	8
Floor DAVE JAMES	8
Floor	
Floor	
Motor GEORGE JAMES	8
Mechanic	
Extra PERCY NUETZING	8

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
1120	69	1189	6	23(m)	6	4 1/2	2 3/4				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	6 1/4	Sm-V2	—	AH978	10(m)	150	149	14 1/4			

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS: No. 1 Pressure; Model; S.P.M. 68; Liner Size 5"; No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands; Singles 29.10; D. Collars 157.13; Other Ft.; C.B. Ft.; Subs. Ft. 4.33; Ft. Up On Kelly Bacon; TOTAL 1189

REMARKS	Time Start	Stop	Interval
Drilling	8:00	9:00	1
Rig Ser. ✓ B.O.P.s	9:00	9:15	1/4
Drilling	9:15	2:15	5
Trip out + measure out	2:15	4:00	1 3/4
Run in			
			8

Company Time Cont'r Time

Tour — 4 p.m. to Midnight

Specify actual hours worked	Hrs.
Driller R. ANDERSON	8
Derrick Gerry Eclosera	12
Floor ERNIE CANERI	8
Floor	
Floor ALAN KREUTZ	8
Motor	
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
1189	11	1200	1								

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	6 1/4	SM-V2	—	AH978	10 m	150	160	15 1/2			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree: 1200 0

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS: No. 1 Pressure WATER; Model; S.P.M.; Liner Size; No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands; Singles 29.10; D. Collars 157.13; Other Ft.; C.B. Ft.; Subs. Ft. 4.33; Ft. Up On Kelly 12; TOTAL 1200

REMARKS	Time Start	Stop	Interval
Finish in Hole	4	4:15	1/4
Rig Serv. ✓ B.O.P.s	4:15	4:30	1/4
Circ. & Condition Hole	4:30	5:30	1
Wait on Cement	5:30	10:00	4 1/2
Trip out to run 4 1/2 csg	10:00	12:00	2
Lay Down 4 1/2" Drill Collars.			
			8

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____

Total Company Time _____ Hrs. Approved by _____

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

RIG No. 9 LOCATION Imperial NGO Mobil Sun AREA Thunder D-69 DATE Feb 11 1970

Tour — Midnight - 8 a.m.	
Specify actual hours worked	Hrs.
Driller	8
Derrick Lauren Gardner	
Floor Mike Garstad	
Floor Ken Gardner	
Floor Ernie Hagstrom	
Motor	
Mechanic Fred Davis	
Extra	
Injuries:	
Fires:	

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
621	208	829	7 3/4	19 (m)	6	4 1/2	2 7/8				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
4	6 1/4	Hw OSC	—	17509	10 (m)	150	482	19			

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY							2	
GEL	WATER						3	
PUMPS No. 1 Pressure							4	
Model S.P.M.							5	
Liner Size	6 8							
No. 2 Pressure	5 11							
Model S.P.M.								
Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands	813.41
Singles	
D. Collars	157.13
Other Ft.	
C.B. Ft.	
Subs. Ft.	4.33
Ft. Up On Kelly	7.1'
TOTAL	841.57

Tour — 8 a.m. to 4 p.m.	
Specify actual hours worked	Hrs.
Driller Paul Lozink	8
Derrick Les Whiting	8
Floor Dave James	8
Floor	
Floor	
Motor George James	8
Mechanic	
Extra Percy Nurzing	8
Injuries:	
Fires:	

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
841	129	970	6 1/2	21 (m)	6	4 1/2	2 7/8				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
4	6 1/4	Hw. OSC	—	17509	10 (m)	150	503	20			
5	6 1/4	Hw. OSC	—	19916	10 (m)	150	108	6 1/2			

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY							2	
GEL	WATER						3	
PUMPS No. 1 Pressure							4	
Model S.P.M.							5	
Liner Size								
No. 2 Pressure								
Model S.P.M.								
Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands	941.74
Singles	
D. Collars	157.13
Other Ft.	
C.B. Ft.	
Subs. Ft.	4.33
Ft. Up On Kelly	5.1'
TOTAL	1098.20

Tour — 4 p.m. to Midnight	
Specify actual hours worked	Hrs.
Driller Ken Edson	10
Derrick Gerry Feldberg	8
Floor Alvin Kreutz	8
Floor Ernie Ganert	8
Floor	
Motor	
Mechanic	
Extra	
Injuries:	
Fires:	

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
970											

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
		TC 1042		23123				14 1/2			
		SM.V2-1 5 3/4		AH988	10 m		77	6			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY							2	
GEL	WATER						3	
PUMPS No. 1 Pressure							4	
Model S.P.M.							5	
Liner Size								
No. 2 Pressure								
Model S.P.M.								
Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands	
Singles	880.70
D. Collars	157.13
Other Ft.	
C.B. Ft.	
Subs. Ft.	4.33
Ft. Up On Kelly	
TOTAL	1042.16

DAY WORK RECORD

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

REMARKS	Time Start	Stop	Interval
Rig Service + Bops	12:00	12:15	1/4
Drilling	12:15	8:00	7 3/4
			8
Company Time Cont'r Time			
Drilling	8:00	9:00	1
Rig Serv + B.OPs	9:00	9:15	1/4
Trip for Bit #5	9:15	10:30	1 1/4
Drilling	10:30	4:00	5 1/2
			8
Company Time Cont'r Time			
Drilling 6 1/4 Hole	4:00	5:00	1
Rig Serv + B.OPs.	5:00	5:15	1/4
Trip for 6 1/4 Hole + Drop	5:15	10:00	4 1/4
	10:00	10:30	1/2
Survey			
Drill 6 1/4 Hole	11:30	12:00	1/2
			5
Company Time Cont'r Time			

Total Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

RIG No. 9 LOCATION Encn Neo Mobile AREA Thunder River D-64 DATE Feb 10 1970

Tour — Midnight - 8 a.m.	
Specify actual hours worked	Hrs.
Driller Lauren Gallner	8
Derrick Mark Garstad	12
Floor Ken Gallner	12
Floor Lorne Hallgger	12
Motor	
Mechanic Fred Davis	12
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
359			3		6	4½	2 13/16	8m			

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
3	6¼, Hw	OSC	— 4 4	17506							

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	Pressure Test Multiangel 1000 P.S.I.			
VISCOSITY				
GEL	WATER			

PUMPS			
No. 1	Pressure		
Model	S.P.M.		
	Liner Size	6½	
No. 2	Pressure		
Model	S.P.M.		
	Liner Size		

W.L. F.C. pH.

Additives: John Wooten

At Surveys Degree	

MOTOR HOURS	Next Oil Change
1	
2	
3 O.K.	
5	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
				51			

General: Top of Cement 315.81' Plug At 326

Stands	
Singles	
D. Collars	157.13
Other Ft.	
C.B. Ft.	
Subs. Ft.	4.33
Ft. Up On Kelly	
TOTAL	

Tour — 8 a.m. to 4 p.m.	
Specify actual hours worked	Hrs.
Driller Paul Lozink	8
Derrick Les Whiting	12
Floor Dave James	12
Floor	
Motor	
Mechanic George James	12
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
359	82	441	4	13(m)	6	4½	2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
3	6¼	Hw OSC	—	19506	8m	90					
4	6¼	Hw OSC	—	19509	10(m)	140	82	4			

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL	WATER			

PUMPS			
No. 1	Pressure		
Model	S.P.M.		
	Liner Size		
No. 2	Pressure		
Model	S.P.M.		
	Liner Size		

W.L. F.C. pH.

Additives:

At Surveys Degree	

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General:

Stands	24.64
Singles	
D. Collars	157.13
Other Ft.	
C.B. Ft.	
Subs. Ft.	4.33
Ft. Up On Kelly	Down
TOTAL	441.11

Tour — 4 p.m. to Midnight	
Specify actual hours worked	Hrs.
Driller	
Derrick R. Anderson	12
Floor	
Floor	
Floor	
Motor	
Mechanic	
Extra	

Injuries: G. James hit in ribs with tongs that came unhitcher while on pipe

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
441	180	621	7¼	12m	6	4½	2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
4	6¼	Hw OSC	—	19509	12m	150	180	11¼			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

PUMPS			
No. 1	Pressure		
Model	S.P.M.		
	Liner Size		
No. 2	Pressure		
Model	S.P.M.		
	Liner Size		

W.L. F.C. pH.

Additives: Gel - 600

At Surveys Degree	
560	1°

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General: R. Anderson Bleed roof with cat for 4 hr.

Stands	459.57
Singles	
D. Collars	157.13
Other Ft.	
C.B. Ft.	
Subs. Ft.	4.33
Ft. Up On Kelly	Down
TOTAL	621.03

DAY WORK RECORD

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

REMARKS	Time Start	Stop	Interval
Fishing for tong			
Rig w/ Magnet			
Recovered	12:00	2:30	2½
Pressure Testibling			
Rams 1000 P.S.I	2:30	3:00	½
Run In Hole Pressure			
Test Hydrill Pipe			
Rams + Blow Down			
Manifold 1000 P.S.I.	3:00	5:00	2
Drill Out Plug + Shoe			
Joint	5:00		
		8:00	3
Company Time / Cont'r Time			8
Drilling Cement + Drill	8:00		
out Shoe		11:00	3
Trip out for Bit # 4	11:00	11:45	¾
Rig Serv. + V Belts	11:45	12:00	¼
Drilling 6¼ Hole	12:00	4:00	4
			8
Company Time / Cont'r Time			
Drill 6¼ Hole.	4:00	4:30	½
Rig Serv. + B.O.P.s	4:30	4:45	¼
Drill 6¼ Hole	4:45	9:00	4¼
Repair Broken Gas line	9:00	9:30	½
Drill 6¼ Hole	9:30	12:00	2½
			8
Company Time / Cont'r Time			

Totco Ring on Pit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

RIG No. 4 LOCATION Fnc. Nco Mobil Sun AREA Thunder River D-69 DATE Feb 4 1980

DAY WORK RECORD

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

Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller Lavern Galenza	8
Derrick Mark Garstad	12
Floor Ken Galenza	12
Floor Ernie Habegger	12
Floor	12
Motor Fred Dennis	12
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
259											

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

PUMPS		
No. 1	Pressure	
Model	S.P.M.	
	Liner Size	
No. 2	Pressure	
Model	S.P.M.	
	Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
W.O.C	12:00	8:00	8
Finish Clean Mud Tanks			
Hook Hydril Lines +			
Repair Broken Lines			
D. James Helping			
On Water Truck			

Company Time Cont'r Time

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller Paul Loziak	8
Derrick Les Whiting	12
Floor Dave James	12
Floor	
Floor	
Motor George James	12
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
259											

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
8.	7 1/2										

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

PUMPS		
No. 1	Pressure	
Model	S.P.M.	
	Liner Size	
No. 2	Pressure	
Model	S.P.M.	
	Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General Cement top surface w/5 sks, weld surface casing to conductor casing w/ spacer ring

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
W.O.C	8:00	10:15	2 1/4
Cut off casing +	10:15		
Weld on Bowl		12:15	2
Install B.O.P.s	12:00		
Manifold kill line etc.		4:00	3 3/4
			8

Company Time Cont'r Time

Tour — 4 p.m. to Midnight

Specify actual hours worked	Hrs.
Driller Lavern B. Anderson	12
Derrick	
Floor	
Floor	
Floor	
Motor	
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
259											

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

PUMPS		
No. 1	Pressure	
Model	S.P.M.	
	Liner Size	
No. 2	Pressure	
Model	S.P.M.	
	Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
Finish Hooking Up			
B.O.P.s	4:00	8:30	4 1/2
Dropped tong			
Pin in hole	8:30	12:00	3 1/2
Fishing w/ Magnet			

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

D-69

RIG No. 9 LOCATION Falcon N60 Morin-Sun AREA Thunder River DATE Feb 8 1970

Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller Laverne Galenza	8
Derrick Les Whiting	12
Floor David James	12
Floor	
Floor	
Motor George James	12
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
215	60	275	4 1/2	12(m)	6	4 3/4	2 3/4				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2-A	8 3/4	Sm OT-J	—	58844	10(m)	120		9 3/4			

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT			9.6	9.4
VISCOSITY		40	37	94
GEL				

Additives: Gel 500 lbs; Water

At Surveys Degree: 200

MOTOR HOURS: 1, 2, 3, 4, 5

Next Oil Change

PUMPS: No. 1 Pressure; Model; S.P.M.; Liner Size 5"; No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands 61.26; Singles 30.20; D. Collars 157.13; Other Ft.; C.B. Ft.; Subs. Ft. 4.98; Ft. Up On Kelly 20 in; TOTAL 275.67

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller Paul Loziak	16
Derrick Mark Garstead	12
Floor Ken Galenza	12
Floor Ernie Habegger	12
Floor	
Motor Fred Bahms	12
Mechanic	
Extra Percy Nuffzinger	16

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
275	84	359	6	12(m)	6	4 3/4	2 3/4				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2-A	8 3/4	Sm OT-J	—	58844	10(m)	140	272	16 3/4			

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT	9.6	9.7	9.7	9.8
VISCOSITY	34	33	34	49
GEL				

Additives: Gel - 400; Water

At Surveys Degree: 290 1 1/4°; 352 1°

MOTOR HOURS: 1, 2, 3, 4, 5

Next Oil Change

PUMPS: No. 1 Pressure; Model; S.P.M.; Liner Size 5"; No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands 82.86; Singles; D. Collars 157.13; Other Ft.; C.B. Ft.; Subs. Ft. 4.98; Ft. Up On Kelly IN 14.00; TOTAL 359

Tour — 4 p.m. to Midnight

Specify actual hours worked	Hrs.
Driller R. Anderson	8
Derrick	
Floor	
Floor	
Floor	
Motor	
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
		359									

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2-A	8 3/4	Sm OT-J	—	58844		140	~~272~~ 272	16 3/4			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: Ran 12 Joints Inch Tange [illegible]

At Surveys Degree: [illegible]

MOTOR HOURS: 1, 2, 3, 4, 5

Next Oil Change

PUMPS: No. 1 Pressure; Model; S.P.M.; Liner Size; No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands 182.86; Singles; D. Collars 157.13; Other Ft.; C.B. Ft.; Subs. Ft. 4.98; Ft. Up On Kelly IN 14'; TOTAL 359

DAY WORK RECORD

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

REMARKS	Time Start	Stop	Interval
Working Tight Hole	12:00	12:30	1/2
Pull Out & Un Plug Bit	12:30	1:00	1/2
Run in w/out Jets &	1:00	3	2
Clean 55' To Btm		3:00	
Drilling	3:00	3:30	1/2
Survey & Work Tight Con	3:30	4:00	1/2
Drilling	4:00	8:00	4
Company Time / Cont'r Time			
Drilling & Reaming	8:00		
Tight Conections & Surveys		2:00	6
Circ. & Condition mud	2:00	3:00	1
Trip out & Run in	3:00	3:45	3/4
Circ. to Run csg.	3:45	4:00	1/4
			8
Company Time / Cont'r Time			
Circ.	4:00	5:30	1 1/2
Trip out to Run C.S.G.	5:30	6:30	1
Rig up to Run C.S.G.	6:30	7:00	1/2
Run C.S.G.	7:00	9:00	2
Circ C.S.G.	9:00	9:30	1/2
Cement & Drc Plug	9:30	10:15	3/4
Clean Tanks & Rig	10:15	12:00	1 3/4
			8
Company Time / Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____

Total Company Time _____ Hrs. Approved by _____

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

RIG No. 9 LOCATION 1-16CN 4-60 Mobil Sual AREA Thunder River D-69 DATE Feb 7 1970

Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller Lavern Galenza	8
Derrick Mark Garstead	16
Floor Ken Galenza	12
Floor Ernie Haberger	12
Floor	
Motor Fred Dahms	12
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
105											

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2-A	8 3/4	Sm OTJ	3-12	58844							

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

PUMPS					
No. 1	Pressure				
	Model	S.P.M.			
		Liner Size			
No. 2	Pressure				
	Model	S.P.M.			
		Liner Size	5"		

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General: Cleaning Up Rig

Stands / Singles / D. Collars 77.46 / Other Ft. / C.B. Ft. / Subs. Ft. 4.98 / Ft. Up On Kelly 22 in / TOTAL 105.08

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller Paul Lozjak	8
Derrick Les Whiting	12
Floor Dave James	12
Floor Earl Nelson	2
Floor Percy Nuetzling	8
Motor George James	12
Mechanic	
Extra	

Injuries: Carl Nelson while helping water truck caught foot between

Fires: Gin Pole + bed of truck

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
106	110	215									

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2-A	8 3/4	Sm OTJ	3-12	58844							

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

PUMPS					
No. 1	Pressure				
	Model	S.P.M.			
		Liner Size			
No. 2	Pressure				
	Model	S.P.M.			
		Liner Size	5"		

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

Stands / Singles 30.64 / D. Collars 77.46 / Other Ft. / C.B. Ft. / Subs. Ft. 4.98 / Ft. Up On Kelly 22 in / TOTAL 105

Tour — 4 p.m. to Midnight

Specify actual hours worked	Hrs.
Driller K. Anderson	8
Derrick	
Floor	
Floor	
Floor	
Motor	
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
105	105	215	5 1/4								

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2-A	8 3/4	SM OTJ	3-12	58844							

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	water		9.8	9.8
VISCOSITY			50	40
GEL				

Additives: Gel - 90 lb

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

PUMPS					
No. 1	Pressure				
	Model	S.P.M.			
		Liner Size			
No. 2	Pressure		300	300	300
	Model	S.P.M.			
		Liner Size	5"		

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
		8					

General

Stands / Singles 3064 / D. Collars 157.13 / Other Ft. / C.B. Ft. / Subs. Ft. 4.98 / Ft. Up On Kelly 12 / TOTAL 2[illegible]39

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____

Total Company Time _____ Hrs. Approved by _____

DAY WORK RECORD

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

REMARKS	Time Start	Stop	Interval
	12:00		
Wait On Cement	8:00	8:00	8
D. James - Help On Water Truck			
Company Time / Cont'r Time			
Wait on Cement	8:00	4:00	8
Injury To Carl Nelson while Helping Water Truck. Injury should not be charged to Drilling Rig.			
Company Time / Cont'r Time			
Rig Serv.	4	4 1/2	1/4
Wait on cement	4:15	5:00	3/4
Drill 8 3/4 Hole	5:00	8:30	3 1/2
Work Tight Hole con. mud	8:30	9:45	1 1/4
Drill 8 3/4 Hole	9:45	11:30	1 3/4
Work Tight Hole	11:30	12:00	1/2
D. James Help On Water Truck			8
Company Time / Cont'r Time			

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

RIG No. 9 LOCATION I.N.C. NCO McBil Sun AREA Thunder River D-69 DATE FEB 6 1970

Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller: Paul Lozinak	8
Derrick: Les Whiting	8
Floor: Dave James	8
Floor: Reid Campbell	8
Floor:	
Motor: George James	8
Mechanic:	
Extra:	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
84	14	98	8 1/2								

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
DA	8 3/4	Sm DT-J	3-12	58844		45	14	3 1/2			

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY		WATER		
GEL				

Additives: At Surveys Degree: MOTOR HOURS 1, 2, 3, 4, 5: Next Oil Change

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands / Singles / D. Collars 77.46 / Other Ft. / C.B. Ft. / Subs. Ft. 4.98 / Ft. Up On Kelly 22 in / TOTAL 105.08

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller: Lauren Galenza	8
Derrick: Mark Garstero	12
Floor: Ken Galenza	12
Floor: Ernie Haberger	8
Floor: Percy Nuttall	8
Motor: Fred Adams	
Mechanic:	
Extra: Carl Nelson	8

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
105											

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2-A	8 3/4	Sm DT-J	3-12	58844							

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree: MOTOR HOURS 1, 2, 3, 4, 5: Next Oil Change

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands / Singles / D. Collars 77.46 / Other Ft. / C.B. Ft. / Subs. Ft. 4.98 / Ft. Up On Kelly 22 in / TOTAL 105.08

Segment Conductor Pipe
120 Sacks of Cement
Good Cement Returns
Held O.K.

Tour — 4 p.m. to Midnight

Specify actual hours worked	Hrs.
Driller:	
Derrick: T. Anderson	8
Floor: Les Whiting	4
Floor: Dave James	4
Floor:	
Motor:	
Mechanic: George James	4
Extra:	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
105											

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree: MOTOR HOURS 1, 2, 3, 4, 5: Next Oil Change

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands / Singles / D. Collars 77.46 / Other Ft. / C.B. Ft. 4.98 / Subs. Ft. / Ft. Up On Kelly 22 in / TOTAL 105.08

DAY WORK RECORD

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

REMARKS	Time Start	Stop	Interval
Drilling 8 3/4" Hole	12:00	1:30	1 1/2
Washed out around Csg.			
Fill hole in w/cement in	1:30		
cellar (25 sks cement).		2:30	1
Wait on water	2:30	8:00	5 1/2
			8
Company Time / Cont'r Time			
Wait on Water	8:00	9:30	1 1/2
Blow Kelly + Ream 30'	9:30		
To Btm		11:00	1 1/2
Con. Pipe Washed Out - Rig	11:00		
Up Mixing Pump To Pump			1
Out of Cellar		12:00	
Cut off Con. Pipe + weld	12:00		
Collar To Recement +			3 1/2
Rig Up Halliburton		3:30	
Recement Con. Pipe	3:30	4:00	1/2
120 sx Cement			8
Company Time / Cont'r Time			
W.O.C.			
Dave James Helping on	10:00		
Water Truck		12:00	2 hrs
Company Time / Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

RIG No. 7 LOCATION INCH ED MOBIL SUN D-69 AREA THUNDER K. DATE FEB 5 1970

Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller	
Derrick H. MYNIO	12
Floor	
Floor RED CAMPBELL	12
Floor	
Motor	
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY							2	
GEL							3	
PUMPS No. 1 Pressure							4	
Model S.P.M.							5	
Liner Size								
No. 2 Pressure								
Model S.P.M.								
Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

W.L. F.C. pH.

General: REPAIRING PUMP ON WATER TRUCK

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller LAUREN GALENZA	12
Derrick MARK GARSTEAD	12
Floor KEN GALENZA	12
Floor ERNIE HABEGGER	12
Motor PERCY NUETZLINE	8
Mechanic FRED DAHMS	12
Extra DRILLER	
Injuries: E. ANDERSON	12

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
81	2	90	1		2	4 1/2	2 3/4				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2-A	8 3/4	Sm-DTJ	3-12	58844		45	3	1			

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY	31						2	
GEL	WATER						3	
PUMPS No. 1 Pressure	25						4	
Model S.P.M.	821						5	
Liner Size	8 P.H.							
No. 2 Pressure								
Model S.P.M.								
Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

W.L. F.C. pH.

General: WATER TRUCK BROKE DOWN
POWER TAKE OFF TWISTED OFF
STRIPED GEARS

Stands / Singles / D. Collars 52.06 / Other Ft. / C.B. Ft. / Subs. Ft. 4.48 / Ft. Up On Kelly IN 22.00 / TOTAL 90.04

Tour — 4 p.m. to Midnight

Specify actual hours worked	Hrs.
Driller	
Derrick PAUL LOZIAK	12
Floor LES WHITHINE	4
Floor DAVE JAMES	12
Floor CARL NELSON	4
Motor	
Mechanic GEORGE JAMES	12
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
90	4	94									

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2-A	8 3/4	Sm OTJ	3-12	58844		45	4	2			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY							2	
GEL	WATER						3	
PUMPS No. 1 Pressure							4	
Model S.P.M.							5	
Liner Size								
No. 2 Pressure								
Model S.P.M.								
Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

W.L. F.C. pH.

General

Stands / Singles / D. Collars 52.06 / Other Ft. / C.B. Ft. / Subs. Ft. 4.48 / Ft. Up On Kelly DOWN / TOTAL 94.67

DAY WORK RECORD

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

REMARKS	Time Start	Stop	Interval
WAIT ON WATER TRUCK	12:00	8:00	8
INSTALL NEW WATER PUMP + P.T.O			8
Company Time / Cont'r Time			
WAIT ON WATER	8:00	11:00	3
DRILL OUT 25' CEMENT	11:00	12:00	1
DRILLING 8 3/4" HOLE	12:00	1:00	1
WAIT ON WATER	1:00	4:00	3
KEN GALENZA } PUMPING E. HABEGGER } FUEL (2 HRS)			8
Company Time / Cont'r Time			
CIRC + WAIT ON WATER	4:00		
HELP RIG UP PUMP FOR WATER TRUCK		11:00	7
DRILLING 8 3/4 HOLE	11:00	12:00	1
			8
Company Time / Cont'r Time			

PRESS HARD! ALL FOUR COPIES MUST BE LEGIBLE.

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____

Total Company Time _____ Hrs. Approved by _____

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

RIG No. 9 LOCATION 1-14-C-W 5 on 6-1-1 Mobile AREA Hum Dor River D-69 DATE FEB 4 1970

DAY WORK RECORD

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

REMARKS	Time Start	Time Stop	Interval
Cleaned up Rig	12:00	2:00	2
Cut out Stand pipe in mud Tank To Change	2:00	4:30	2½
Installed Desilter & Mud Hopper	4:30	6:30	2
Work on Shaker	6:30	8:00	1½
1 W.O.C on Conductor Pipe			8
Company Time / Cont'r Time			
W.O.C on Conductor Pipe.	8:00		
Gin Pole Pipe & Collars			
Put Muskline Back in Mud Tank			
Put Up Fully For Cat Line & String Same			
Hang Line Spooler			
Help Work On Water Truck			4 00
B Anderson & D Hagecker			
Unload Fuel — 3 hrs.			
Company Time / Cont'r Time			
~~Work~~ Change Liner Lighting	4 00		12
Bolts On Pump			
String Sand Line			
FINISH Install Stand Pipe Back in Mud Tank			
Cut off Csg & Weld on Flo Line			
Company Time / Cont'r Time			

Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller A Mjolo	12
Derrick	
Floor Ried Campbell	12
Floor	
Floor	
Motor	
Mechanic	
Extra	

Injuries:

Fires:

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller Lorern Galenza	12
Derrick Mark Carstens	12
Floor Ken Galenza	12
Floor Emile Hasegger	12
Floor Peter Neering	12
Motor Paul Dahas	12
Mechanic	
Extra R. Hudson	12

Injuries:

Fires:

Tour — 4 p.m. to Midnight

Specify actual hours worked	Hrs.
Driller Paul Zodiak	12
Derrick	
Floor Dave James	12
Floor	
Floor	
Motor	
Mechanic George James	12
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____

Total Company Time _____ Hrs. Approved by _____

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

DAY WORK RECORD

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

RIG No. 9 LOCATION Enc NCO Mobil Sun AREA Thunder R. D-69 DATE Feb. 3 1970

Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller Paul Loziak / Henry Myyio	12
Derrick	
Floor	
Floor Reid Campbell	12
Floor Dave James	12
Motor George James	12
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
1678	1087	8765	6		2	3 1/2					

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1-A	12 1/4	DTJ	3/16	AE267	All	80	87	12 3/4			1-1-1

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

PUMPS		Pressure	S.P.M.	Liner Size
No. 1	Model FXX		68	5
No. 2				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller Bob Anderson	12
Derrick Mark Garstead	12
Floor Ken Galenza	12
Floor Ernie Habegger	12
Floor	
Motor Fred Dallis	12
Mechanic	
Extra Percy Neitling	12

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

PUMPS		Pressure	S.P.M.	Liner Size
No. 1	Model			
No. 2				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General Water truck Brake power take off drive + drive shaft. Waiting on water 6 HRS.

W.L. F.C. pH.

Tour — 4 p.m. to Midnight

Specify actual hours worked	Hrs.
Driller Lauren Galenza	12
Derrick	
Floor	
Floor	
Floor	
Motor	
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
		RAN 8 JTS			9 5/8	CSG	For	Conductor			

Hole 60 SXS Fondu Cement.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives (cured top of 20 SXS Cement in Cellar.)

At Surveys Degree

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

PUMPS		Pressure	S.P.M.	Liner Size
No. 1	Model			
No. 2				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
Work on Cellar to Stop Wash out.	12^00	12^30	1/2
Drilling 12 1/4" Hole.	12^30	6^30	6
Dummy Trip + Circ Hole. To Run csg.	6^30	7^30	1
Rig To Run csg.	7^30	8^00	1/2
Company Time / Cont'r Time			
Rig To Run csg. Blow.	8^00		
Kelly Take off Kelly Hose.		9^00	1
Run csg.	9^00	10^30	1 1/2
Rig To & Circ csg. &	10^30		
Wait on water to cement.		4^00	5 1/2
Rig to cement & cement	5^00	5^30	1/2
Rig to displace & pump down plug.		6^45	1 1/4
Company Time / Cont'r Time			
Wait on water.	4^00	5^00	1
Rig To Cement & Cement	5^00	5^30	1/2
Rig To Displace + Pump Down Plug.	5^30	6^45	1 1/4
W.O.C	6^45	10^00	3 1/4
Drain mud lines			
Drain pumps + Mud Tank			
Burn cement Bags.			
Company Time / Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____

Total Company Time _____ Hrs. Approved by _____

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

RIG No. 9 LOCATION Imperial Oil Mobile AREA Hondo Rainbow D-69 DATE Feb 2 1970

Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller H Hypio	12
Derrick	
Floor	
Floor R. J Compbell	12
Floor	
Motor	
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

PUMPS: No. 1 Pressure / Model S.P.M. / Liner Size; No. 2 Pressure / Model S.P.M. / Liner Size

W.L. F.C. pH.

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller Lavern Gaunzer	12
Derrick Mark Garstead	12
Floor Ken Gaunzer	12
Floor Ernie Haberegger	12
Floor Percy Nuetzling	12
Motor Fred Dallins	
Mechanic	
Extra Driller R. Anderson	12

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
	16.15	16.15	1								

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	12 3/4"	Smith	3/15	AE367			16	1			

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

PUMPS: No. 1 Pressure / Model S.P.M. / Liner Size; No. 2 Pressure / Model S.P.M. / Liner Size

W.L. F.C. pH.

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General K.B. To Geo Level - 13.50'

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. 6.15 / Ft. Up On Kelly 10.00 / TOTAL 16.15

Tour — 4 p.m. to Midnight

Specify actual hours worked	Hrs.
Driller Paul Zozrak	12
Derrick	
Floor Dave James	12
Floor	
Floor	
Motor George James	12
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons
16	30	46	5 3/4								

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	12 3/4	Smith	3/15	AE367	All		46	6 3/4			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

PUMPS: No. 1 Pressure / Model S.P.M. / Liner Size; No. 2 Pressure / Model S.P.M. / Liner Size

W.L. F.C. pH.

Additives: 10 SXS gel | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General Used gel to seal off washout.

Stands / Singles / D. Collars @ 29.20 / Other Ft. / C.B. Ft. / Subs. Ft. 6.15 / Ft. Up On Kelly 11.44 / TOTAL 46.79

DAY WORK RECORD

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

REMARKS	Time Start	Stop	Interval
Picked up Story Motor & Setin place	12:00	4:30	4½
Set Table In & Guards			
Set Monkey Board in place	4:30	7:00	2½
Sealed Cellar off To Drill Conductor	7:00	8:00	1
Company Time / Cont'r Time			
Bolt in Monkey Board	8:00		
String Up Tong Lines		12:00	4
Rig Up To Drill Con. Hole	12:00	3:00	3
Drilling 12 3/4" Con. Hole	3:00	4:00	1
			8
Company Time / Cont'r Time			
Drilling 12 3/4" Hole	4:00	6:00	2
Wait On Water	6:00	7:00	1
Drilling	7:00	8:30	1½
Wait on water	8:30	9:15	¾
Drilling	9:15	11:30	2¼
Wait on water	11:30	12:00	½
Hole washed out 5 feet Below Cellar			
Packed Fuel Drum in wash out			
Company Time / Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

W. C. TRIMBLE DRILLING LTD.
CALGARY, ALBERTA

THIS COPY FOR OIL & GAS CONSERVATION BOARD

DAILY DRILLING REPORT

RIG No. 9 LOCATION Twin Creek Mobile AREA Thunder Prov. D-69 DATE Feb 1 1970

DAY WORK RECORD

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

Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller H Mynio	12
Derrick	
Floor Ried Campbell	12
Floor	
Floor	
Motor	
Mechanic	
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Additives | At Surveys Degree | MOTOR HOURS 1, 2, 3, 4, 5 | Next Oil Change

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
Rigged up To Drill Rat Hole	12 00		
Started Rotary motor			
Picked up Kelly			
Rigged up Sam's To Drill			
Work on pump		8 00	8

Company Time Cont'r Time

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller Lavern Galenza	12
Derrick Mark Gargrend	12
Floor Erne Hasegue	12
Floor Ken Galenza	12
(Floor) Perry Nuetzeling	12
Motor Fred Drums	12
Mechanic	
Extra Driller R. Anderson	12

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Additives | At Surveys Degree | MOTOR HOURS 1, 2, 3, 4, 5 | Next Oil Change

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
Work On Mud Pump	8 00	1 00	5
Drill Rat Hole	1 00	3 00	2.
Wait on water.	3 00	3 30	1/2.
Drill Rat-Hole	3 30	4 00	1/2

Company Time Cont'r Time

Tour — 4 p.m. to Midnight

Specify actual hours worked	Hrs.
Driller	
Derrick Paul Koziak	12
Floor	
Floor	
Floor Dave James	12
Motor	
Mechanic George James	12
Extra	

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	COAL Tons

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Additives: | At Surveys Degree | MOTOR HOURS 1, 2, 3, 4, 5 | Next Oil Change

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
[redacted]			
Drill Rat-Hole	4 00	5 00	1
Wait on Water.	5 00	5 30	1/2
Drill Rat-Hole. Boulders	5 30	11 00	5 1/2
Finish Rat Hole			
Rig out	11 00	12 00	1

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher Lucchia

Total Company Time _____ Hrs. Approved by _____

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE FEB 17/90

No. _____ DAILY TIME SHEET 3-35 (REV. 11/68)

Well _____

No. _____

FIELD or AREA: THUNDER RIVER D-69 WELL NAME & No. INC NCO McB.L SUN CONTRACTOR: W.C TRIMBLE DRILLING RIG No. _____ Approved _____ Date _____

TIME	MUD RECORD WT.	VISC.	W.L.	F.C	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12 - 8 TOUR
12:00	8:00	8	SKID OUT HALIBERTON UNITS DUMP TANKS + CLEAN DRIAN PUMP

BOP Tested DRILLER: Paul Lynch CONTRACTOR'S TIME CO's. TIME

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.										
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	8 - 4 TOUR
			Rig Released. 6 A.M. Feb 17/90

BOP Tested DRILLER: [illegible] CONTRACTOR'S TIME CO's. TIME

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

START	STOP	HRS.	4 - 12 TOUR

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	P. LOZIAK	8
DERRICK	L. WHITING	8
MOTORMAN		
FLOORMAN	D. JAMES	8
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	K. ANDERSON	
DERRICK	G. FIDENCIO	
MOTORMAN	A. KROUTZ	
FLOORMAN	E. GARENT	
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER		
DERRICK		
MOTORMAN		
FLOORMAN		
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: _____ PSI. MIN. _____ FORMATION TESTED _____ PSI. MIN. _____ EQUIPMENT FAILURES _____ TIME LOST _____

RIG FUEL CONSUMPTION _____ GALS BOILER FUEL CONSUMPTION _____ GALS WIRELINE TON MILE _____ TOOL PUSHER: _____ APPROVED [illegible]

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE FEB 16/70

No.____ DAILY TIME SHEET 3-35 (REV. 11/68)

Well _____

No.____

Approved _____ Date _____

FIELD or AREA: THUNDER RIVER D-69 WELL NAME & No. I.N.C NO.0 Mobil Sun CONTRACTOR W.C TRIMBLE DRILLING RIG No. _____

TIME	MUD RECORD WT.	VISC.	W.L.	F.C	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

WORK RECORD — 12 - 8 TOUR

START	STOP	HRS.	
12:00	8:00	8	W.O.O

BOP Tested DRILLER: P. Loziak CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	P. LOZIAK	8
DERRICK	L. WHITING	8
MOTORMAN		
FLOORMAN	D. JAMES	8
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.										
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

8 - 4 TOUR

START	STOP	HRS.	
8	25	3½	W.O.O from Mobil
12:25	4:30	4¼	Run in Hole To Lay Down Pipe

BOP Tested DRILLER: T. Hinde CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	T. Hinde	8
DERRICK	G. Illing	8
MOTORMAN	A. Krontz	8
FLOORMAN	T. Tarnoff	8
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

4 - 12 TOUR

START	STOP	HRS.	
			Lay Down pipe
			Rig up BaPS & Lay Down Same
			Mobil and Run pump House to get
4:00	8		Lay Down Kelly @ Halliburton
			Cement Unit

BOP Tested DRILLER: H. Myers CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	H. Myers	8
DERRICK	D. Kendall	8
MOTORMAN	D. Bert Russell	8
FLOORMAN	T. Hinde	8
FLOORMAN	Gordon Thomas	8
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: _____ PSI. MIN. _____ FORMATION TESTED _____ PSI. MIN. _____ EQUIPMENT FAILURES _____ TIME LOST _____

RIG FUEL CONSUMPTION _____ GALS BOILER FUEL CONSUMPTION _____ GALS WIRELINE TON MILE _____ TOOL PUSHER: _____ APPROVED: [illegible]

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE Feb 15/90

No. _____ DAILY TIME SHEET 3-35 (REV. 11/68)

Well _____

No. _____

FIELD or AREA: THUNDER RIVER D-69 WELL NAME & No. J.N.C N.CU MOB. SUN CONTRACTOR W.C TRIMBLE DRILLING RIG No. _____

Approved _____ Date _____

TIME	MUD RECORD WT.	VISC.	W.L.	F.C	BIT WT. M	TABLE RPM	PUMP SPM	PUMP PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12-8 TOUR
12:00	8:00		W.O.O

BOP Tested DRILLER: P. Lynk. CONTRACTOR'S TIME 8 CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	P. Lozinik	8
DERRICK	L. WRITING	8
MOTORMAN		
FLOORMAN	DAVE JAMES	8
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PUMP PRESS	DEVIATION DEPTH	DEG.
10 A.M.										
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	8-4 TOUR
8:00			W.O.O.

BOP Tested DRILLER: [illegible] CONTRACTOR'S TIME 8 CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	[illegible]	8
DERRICK	C. [illegible]	8
MOTORMAN	A. Kreviu	8
FLOORMAN	E. Gauci	8
FLOORMAN		
FIREMAN	D. Nolting	8

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PUMP PRESS	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

START	STOP	HRS.	4-12 TOUR
4:00	11:00	8	W. O. O

BOP Tested DRILLER: [illegible] CONTRACTOR'S TIME 8 CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	H. Myron	8
DERRICK	Dave Randall	8
MOTORMAN	Robert Rukhus	8
FLOORMAN	Peter Myron	8
FLOORMAN	Ken Williams	8
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: _____ PSI. MIN. _____ FORMATION TESTED _____ PSI. MIN. _____ EQUIPMENT FAILURES _____ TIME LOST _____

RIG FUEL CONSUMPTION _____ GALS BOILER FUEL CONSUMPTION _____ GALS WIRELINE TON MILE _____ TOOL PUSHER: _____ APPROVED [illegible]

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE Feb 14/70

No.____ DAILY TIME SHEET 3-35 (REV. 11/68)

Well ____ No.____

Approved ____ Date ____

FIELD or AREA: THUNDER RIVER D-69 WELL NAME & No. INC. NCA MOBIL SUN CONTRACTOR W.C. TRIMOLE DRILLING RIG No. NINE

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PUMP PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12-8 TOUR
10:00			W.O.C
2:00	5:30		LOGGING BY SLUMBERGER
5:30	6:00		RIG OUT SLUMBERGER
	TOD		CLEAN UP RIG while Waiting on Orders to Drill Out.

BOP Tested DRILLER: [illegible] CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD			
	STANDS		BIT No.			
	SINGLE		SIZE			
	D.C.'s		MAKE			
			TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	P. LOZIAK	8
DERRICK	L. WHITING	8
MOTORMAN		
FLOORMAN	DAVE JAMES	8
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PUMP PRESS	DEVIATION DEPTH	DEG.
10 A.M.										
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	
8:00	4:00	8	WAIT ON ORDERS.

BOP Tested DRILLER: [illegible] CONTRACTOR'S TIME CO's. TIME 8

8-4 TOUR

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD			
	STANDS		BIT No.			
	SINGLE		SIZE			
	D.C.'s		MAKE			
			TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	K. Hawerson	8
DERRICK	G. Fedorson	8
MOTORMAN	A. Kiseuiz	8
FLOORMAN	E. Garnett	8
FLOORMAN		
FIREMAN	F. Nejjling	8

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PUMP PRESS	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

START	STOP	HRS.	
4:00	12:00	8	WAIT ON ORDERS

BOP Tested DRILLER: [illegible] CONTRACTOR'S TIME CO's. TIME 8

4-12 TOUR

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD			
	STANDS		BIT No.			
	SINGLE		SIZE			
	D.C.'s		MAKE			
			TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
KELLY IN			FOOTAGE			
TOTAL			HRS.			
RAT HOLE TOP			COND.			

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	H. Munro	8
DERRICK	Dave Bondarc	8
MOTORMAN	R. Paulkus	8
FLOORMAN	Peter Munro	8
FLOORMAN	Ken Williams	8
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: ____ PSI. MIN. ____ FORMATION TESTED ____ PSI. MIN. ____ EQUIPMENT FAILURES ____ TIME LOST ____

RIG FUEL CONSUMPTION ____ GALS BOILER FUEL CONSUMPTION ____ GALS WIRELINE TON MILE ____ TOOL PUSHER: ____ APPROVED: [illegible]

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE Feb 13/90

No.____ DAILY TIME SHEET 3-35 (REV. 11/68)

Well _____

Approved _____ Date _____

FIELD or AREA: THUNDER RIVER D-69 WELL NAME & No. I.N.C NCO MOBIL OIL CONTRACTOR W.C TRIMBLE DRILLING No.____ RIG No. NINE

TIME	MUD RECORD WT.	VISC.	W.L.	F.C	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12 - 8 TOUR
12:00	12:15	1/4	Rig serv + Bops.
12:15	1:00	3/4	Rig up to Run Csg.
1:00	4:30	3 1/2	Run Csg.
4:30	5:30	1	Circ. Csg to cement
5:30	6:00	1/2	Rig up Haliberton
6:00	7:15	1 1/4	Cement + Drop Plug
7:15	8:00	3/4	Rig out Haliberton

Ran 38 Jts 4 1/2" 9.5 casing cemented @ 1209' KB with 150 sacks Tandem cement. Plug down 7:15 A.M. Feb 13/90.

BOP Tested DRILLER P. Loziak CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.	LENGTH	BIT RECORD	
STANDS		BIT No.	
SINGLE		SIZE	
D.C.'s		MAKE	
		TYPE	
		SERIAL	
		JET SIZE	
		FROM	
		TO	
KELLY IN		FOOTAGE	
TOTAL	1170	HRS.	
RAT HOLE TOP		COND.	

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	P. LOZIAK	8
DERRICK	L. WHITING	8
MOTORMAN	R. PAULHUS	8
FLOORMAN	DAVE JAMES	8
FLOORMAN	KEN WILLIAMS	8
FIREMAN		

REMARKS AND INJURIES:

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.										
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	8 - 4 TOUR
8:00	4:00	8	W.O.C.
			Set csg. slips
			Set up ~~Hom~~ Schlumberger Unit.
			Clean mud tanks.
			Change oil in motors

Waiting on Cement

BOP Tested DRILLER: K. Anderson CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	1200				
REAMED					
CORED					

TALLY No.	LENGTH	BIT RECORD	
STANDS		BIT No.	
SINGLE		SIZE	
D.C.'s		MAKE	
		TYPE	
		SERIAL	
		JET SIZE	
		FROM	
		TO	
KELLY IN		FOOTAGE	
TOTAL		HRS.	
RAT HOLE TOP		COND.	

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	K. Anderson	8
DERRICK	G. Folsberg	8
MOTORMAN	A. Krentz	8
FLOORMAN	E. Canert	8
FLOORMAN		
FIREMAN	P. Nuetzling	8

REMARKS AND INJURIES:

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

START	STOP	HRS.	4 - 12 TOUR
4:00	12:00	8	W.O.C
			Put in flow line
			Change Heads + liners in pump
			Rig up Schlumberger to log

BOP Tested DRILLER: H. Myno CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.	LENGTH	BIT RECORD	
STANDS		BIT No.	
SINGLE		SIZE	
D.C.'s		MAKE	
		TYPE	
		SERIAL	
		JET SIZE	
		FROM	
		TO	
KELLY IN		FOOTAGE	
TOTAL		HRS.	
RAT HOLE TOP		COND.	

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	H. Myno	8
DERRICK	Dave Rendall	8
MOTORMAN	R. Paulhus	8
FLOORMAN	Peter Myno	8
FLOORMAN	Ken Williams	8
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: _____ PSI. MIN. _____ FORMATION TESTED _____ PSI. MIN. _____ EQUIPMENT FAILURES _____ TIME LOST _____

RIG FUEL CONSUMPTION _____ GALS BOILER FUEL CONSUMPTION _____ GALS WIRELINE TON MILE _____ TOOL PUSHER: _____ APPROVED L. Lessmeister

MOBIL OIL CANADA, LTD.
CASING AND CEMENTING REPORT

3-38 (REV. 4/67)

Mobil IND-NCU-Sun.

WELL NAME Thunder River D-69 DATE February 13/70

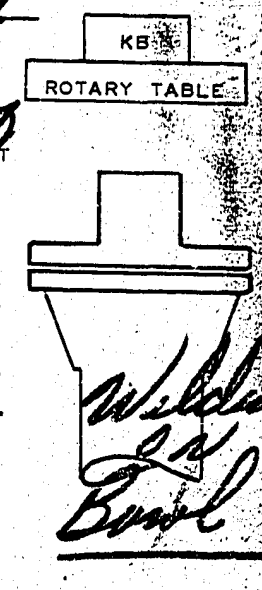
LOCATION LS ___, SEC ___, TWP ___, RGE ___, W___M

CASING (LIST IN ORDER RUN)

	SIZE	WT	GRADE	THREADS NO.	THREADS TYPE	NEW OR USED	NO. JOINTS	LENGTH TOTAL
1	4½	9.5	J55	8	STRC	NEW	38	1201.89
2								
3								
4								
5								
6								
7								
TOTAL CASING ON THE LEASE BEFORE STARTING								—
CASING REMAINING ON THE LEASE AFTER RUNNING								—
TOTAL CASING RUN							38	1201.89
LENGTH UP FROM KB ON LANDING JOINT								1.89

KB ELEVATION 819

KB TO FLANGE 13.50



CASING FLANGE
TYPE ~~OCT~~ T16
MFRG OCT
SIZES 6" X 900
WP 3000 - 6000

CASING LANDED AT 1200' KB

[redacted]ED BOTTOM AT 1200 KB PIPE LANDED ON. F[redacted] BOTTOM

SCRATCHERS TYPE — MFGR — INTERVAL —

CENTRALIZERS TYPE LATCH ON MFGR HOWCO INTERVAL 1180' KB

FLOAT COLLAR AT 1166 LENGTH 1.45 MFGR HOWCO TYPE FLOAT WELDED ✓ LOCKED

FLOAT SHOE AT 1200 LENGTH 1.73 MFGR HOWCO TYPE GUIDE WELDED ✓ LOCKED

STAGE COLLAR AT — LENGTH — MFGR — TYPE — WELDED LOCKED

CEMENT SERVICE COMPANY HOWCO. TRUCK MODEL SKID HHP

	TYPE	ADDITIVES	CU FT	SACKS	SLURRY WT
1	FONDU.	(HALLIBURTON FONDU)		150.	14. 14.6
2					
3					
4					

MUD
WT W
VIS A
W/L F
PH K
FC R
GEL

HOLE
SIZES 6¼
TD DRILLER 1200
TD LOG —
TD CASING 1200
CALIPER USED YES ✓

WATER TESTED YES NO HOW — TEMP. WARM TYPE FRESH.

TIMES

FINISH CIRCULATING ___ AM PM START CASING 1.00 AM PM CASING IN 4.30 AM PM CIRCULATE CASING 4.30 AM PM

RIG TO CEMENT 5.30 AM PM START MIXING 6.00 AM PM FINISH MIXING 7.05 AM PM START DISPLACING 7.05 AM PM PLUG DOWN 7.15 AM PM

PUMPING TIME 10. MIN CASING VOLUME 23 BBLS AVERAGE PUMPING RATE 2.3 BBL/MIN CASING LANDED 7.15 AM PM

HOW OTC T16 slips

PRESSURES

BREAK CIRCULATION 200 PSI CIRCULATING 200 PSI FINAL PUMPIN[redacted] PSI BUMPED PLUG 1000 PSI FLOAT HELD ✓ YES NO

REMARKS (DESCRIBE HOW PIPE WAS WORKED AND ANY PROBLEMS DURING JOB) STATE DISPOSITION OF DRY CEMENT, WATER AND SLURRY SAMPLES

Hole in good shape. had some cement returns to surface

SIGNATURE L Leisinger

NOTE DISTRIBUTION: WHITE COPY - FORWARD TO AREA WELL FILE / YELLOW COPY - FORWARD TO DIVISION WELL FILES / PINK COPY - FORWARD TO CONSERVATION BOARD

INTERMEDIATE STRING

3-27 (REV. 4/67)

MOBIL OIL CANADA, LTD.
PIPE TALLY FORM

SHEET NO.

NB THIS IS NOT A "THREADS OFF" TALLY

DATE FEBRUARY 13/70

WELL NAME MOBIL INC-NCO SNN. THUNDER RIVER D-69

LOCATION LS ___, SEC ___, TWP ___, RGE ___, W ___ M

JOINTS ____ TO ____ SIZE ____ GRADE ____ WT ____ THREADS ____
JOINTS ____ TO ____ SIZE ____ GRADE ____ WT ____ THREADS ____
JOINTS ____ TO ____ SIZE ____ GRADE ____ WT ____ THREADS ____
JOINTS ____ TO ____ SIZE ____ GRADE ____ WT ____ THREADS ____
JOINTS ____ TO ____ SIZE ____ GRADE ____ WT ____ THREADS ____
JOINTS ____ TO ____ SIZE ____ GRADE ____ WT ____ THREADS ____

	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	TOTALS	
1	33	80	29	98	33	35	32	75										
2	30	65	32	07	32	93	27	35										
3	32	45	31	95	30	57	32	51										
4	32	32	31	50	29	90	33	20										
5	32	13	31	25	31	70	32	65										
6	33	14	28	90	29	75	31	60										
7	32	70	31	95	32	15	31	20										
8	32	87	32	50	31	35	31	65										
9	30	97	31	23	30	10												
10	30	93	32	14	32	15												
TOTAL	321	86	312	97	314	15	252	91										

1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
TOTAL																		

1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
TOTAL																		

NB ON CASING TALLY THE FIRST JOINT LENGTH INCLUDES FLOAT AND SHOE
FIRST 10 JOINTS TO BE RUN IN ORDER TALLIED

SIGNATURE L Pirsonsler

NOTE DISTRIBUTION: WHITE COPY - FORWARD TO AREA WELL FILE / YELLOW COPY - FORWARD TO DIVISION WELL FILES / PINK COPY - FORWARD TO CONSERVATION BOARD

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE Feb 12/80

No. ____ DAILY TIME SHEET 3-35 (REV. 11/68)

Well ____

FIELD or AREA: THUNDER RIVER D-69 WELL NAME & No. INCN NCO MOBIL SUN D-69 CONTRACTOR W.C. TRIMBLE DRLG. No. ____ RIG No. NINE

Approved ____ Date ____

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.	WATER				10m	150	68		1000	1¼
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: 5" STROKE 8"

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12-8 TOUR
12:00	12:15	¼	Rig Ser / Bops
12:15	8:00	7¾	Drill
		8	

BOP Tested DRILLER: [illegible] CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	1042	1120	78	7¾	6¼
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS	942.29	BIT No.	6
	SINGLE	30.33	SIZE	6¼
6	D.C.'s	156.13	MAKE	Smith
3	SUBS	4.33	TYPE	V2-J
			SERIAL	AH978
			JET SIZE	—
			FROM	1040
			TO	1120
KELLY IN			FOOTAGE	80
TOTAL	25		HRS.	8¼
RAT HOLE TOP	1120.08		COND.	

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	L. Galenza	8
DERRICK	M. Garstno	8
MOTORMAN	F. Dahms	8
FLOORMAN	K. Galenza	8
FLOORMAN	E. Hartegan	8
FIREMAN		

REMARKS AND INJURIES:

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.					10m	150	68			
NOON	WATER									
2 P.M.										
4 P.M.										

LINER SIZE: 5" STROKE 8"

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 8-4 TOUR
8:00	9:00	1	Drilling
9:00	9:15	¼	Rig Serv / Bops
9:15	2:15	5	Drilling
2:15	4:00	1¾	Trip Out measure out + Run in

BOP Tested DRILLER: [illegible] CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	1120	1189	69	6	6¼
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
			BIT No.	6
16	STANDS	1000.82	SIZE	6¼
	SINGLE	28.10	MAKE	Sm.
6	D.C.'s	157.13	TYPE	V2
			SERIAL	AH979
	SUBS	4.33	JET SIZE	—
			FROM	1040
			TO	1189
KELLY IN	Down		FOOTAGE	149
TOTAL	1189		HRS.	14¼
RAT HOLE TOP			COND.	

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	P. Lozinik	8
DERRICK	L. Whiting	8
MOTORMAN	G. James	8
FLOORMAN	D. James	8
FLOORMAN		
FIREMAN	P. Nuetzling	8

REMARKS AND INJURIES:

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.									1200	0°
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND
	water		

START	STOP	HRS.	WORK RECORD 4-12 TOUR
4	4:15	¼	Finish in Hole
4:15	4:30	1¼	R.C. Serv / B.O.P.s
4:30	5:30	1	Drill 6¼ Hole
5:30	10:00	4½	C.F.C. wait on cement from Rimer
10:00	12:00	2	Trip out to Run 4½ Casg

BOP Tested DRILLER: [illegible] CONTRACTOR'S TIME CO's. TIME 6

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	1189	1200	11	1	6¼
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
			BIT No.	6
16	STANDS	1000.82	SIZE	6¼
1	SINGLE	28.10	MAKE	Sm.
6	D.C.'s	157.13	TYPE	V2
			SERIAL	AH979
	SUB	4.33	JET SIZE	—
			FROM	1040
			TO	1200
KELLY IN	11.00		FOOTAGE	160
TOTAL	1200		HRS.	15½
RAT HOLE TOP			COND.	

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	B. Anderson	8
DERRICK	G. Felbiere	12
MOTORMAN	A. Kraeutz	8
FLOORMAN	E. Granert	8
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: ____ PSI. MIN. ____ FORMATION TESTED ____ PSI. MIN. ____ EQUIPMENT FAILURES ____ TIME LOST ____

RIG FUEL CONSUMPTION ____ GALS BOILER FUEL CONSUMPTION ____ GALS WIRELINE TON MILE ____ TOOL PUSHER: [illegible] APPROVED: [illegible]

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE Feb 11/70

No. _____ DAILY TIME SHEET 3-35 (REV. 11/68)

Well _____

No. _____

Approved _____ Date _____

FIELD or AREA: Thunder River D-69 WELL NAME & No. Incn Neo Mobil Sun CONTRACTOR W.C. Trimble Drlg RIG No. Nine

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.					10M	150	68		660	3/4
4 A.M.			W							
6 A.M.			A							
8 A.M.			R							

LINER SIZE: 5" STROKE 8"

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12-8 TOUR
12:00	12:15	1/4	Rig Ser & Bop Survey
12:15	8:00	7 3/4	Drilling
		8	

BOP Tested ✓ DRILLER: L. Galeza CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	621	841	220	7 3/4	6 1/4
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	4		
14	STANDS	663.01	SIZE	6 1/4		
	SINGLE		MAKE	HW		
6	D.C.'s	157.13	TYPE	OSC		
3	SUBS	4.33	SERIAL	17509		
			JET SIZE	—		
			FROM	621		
			TO	841		
KELLY IN		16	FOOTAGE	220		
TOTAL		844.50	HRS.	19		
RAT HOLE TOP			COND.			

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	L. Galeza	8
DERRICK	M. Garstad	8
MOTORMAN	F. Daiums	8
FLOORMAN	K. Galeza	8
FLOORMAN	E. Haberger	8
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.					10M	150	68			
NOON										
2 P.M.	WATER									
4 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	8-4 TOUR
9:00	9:00	1	DRILLING
9:00	9:15	1/4	Rig Serv. + V BOPs
9:15	10:30	1 1/4	TRIP FOR BIT #5
10:30	4:00	5 1/2	DRILLING

BOP Tested DRILLER: L. Galeza CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	841	970	129	5 1/2	6 1/4
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	4	5	
13	STANDS	781.74	SIZE	6 1/4	6 1/4	
	SINGLE		MAKE	HW	HW	
6	D.C.'s	157.13	TYPE	OSC	OSC	
			SERIAL	19509	19916	
	SUBS	4.33	JET SIZE	—	—	
			FROM	841	862	
			TO	862	970	
KELLY IN		39.00	FOOTAGE	503	108	
TOTAL		970.00	HRS.	20	6 1/2	
RAT HOLE TOP			COND.			

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	R. Loziak	8
DERRICK	L. Whiting	8
MOTORMAN	G. James	8
FLOORMAN	D. James	8
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.	WATER									
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

START	STOP	HRS.	4-12 TOUR
4:00	5:00	1	Drill 6 1/4 Hole
5:00	5:15	1/4	Rig Serv. — B.O.P.s
5:15	10:00	4 1/2	Drill 6 1/4 Hole
10:00	11:30	1 1/2	TRIP For BIT #6
11:30	12:00	1/2	Drill 6 1/4 Hole

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	5	6	
14	STANDS	880.70	SIZE	6 1/4	6 1/4	
	SINGLE		MAKE	HW	SM	
6	D.C.'s	157.13	TYPE	OSC	V2	
	SUBS	4.33	SERIAL	19916	AH978	
			JET SIZE	—	—	
			FROM	970	1042	
			TO	1042	1044	
KELLY IN		Down	FOOTAGE	72	2	
TOTAL		1042 1/4	HRS.	10 1/4	1/2	
RAT HOLE TOP			COND.			

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER		
DERRICK		
MOTORMAN		
FLOORMAN		
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: _____ PSI. MIN. _____ FORMATION TESTED _____ PSI. MIN. _____ EQUIPMENT FAILURES _____ TIME LOST _____

RIG FUEL CONSUMPTION _____ GALS BOILER FUEL CONSUMPTION _____ GALS WIRELINE TON MILE _____ TOOL PUSHER: [illegible] APPROVED [illegible]

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE Feb 10/70

No. ___ DAILY TIME SHEET 3-35 (REV. 11/68)

Well ___

No. ___

FIELD or AREA: THUNDER R. D-69 WELL NAME & No. INCO NCO MOBIL SUN CONTRACTOR W C TRIMBLE DRLG RIG No. 9 Approved ___ Date ___

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.				WATER						
6 A.M.										
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12/8 TOUR
12:00	2:30	2½	Fishing for Tong Pin w/ Magnet (Recovered)
2:30	3:00	½	Pressure Test Blind Rams to 1000 PSI - OK
3:00	-		Run in Hole Pressure Test Hydril & Pipe Rams
	5:00	2	& Blow Out Manifold 1000 PSI OK.
5:00			Drill Out Plug & Shoe
			Pressure Tested B.O.P.'s
			Blow Lines Manifold
			Kelly Cock inst. OK
			15 Min.
			No Pressure Drop
			Watts
BOP Tested			DRILLER: CONTRACTOR'S TIME 8 CO's. TIME

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
			BIT No.	3
	STANDS		SIZE	6¼
	SINGLE		MAKE	HW
1	D.C.'s	157.12	TYPE	OSC
			SERIAL	17506
			JET SIZE	—
	Subs.	4.33	FROM	355
			TO	
	KELLY IN		FOOTAGE	
	TOTAL		HRS.	
	RAT HOLE TOP		COND.	

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	L. Galenza	8
DERRICK	M. Garstad	8
MOTORMAN	T. Dennis	8
FLOORMAN	K. Galenza	8
FLOORMAN	L. Hausecker	8
FIREMAN		

REMARKS AND INJURIES:

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.										
NOON	WATER									
2 P.M.										
4 P.M.										

LINER SIZE: 5" STROKE 8"

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	8 - 4 TOUR
7:00	11:00	3	Drilling Cement & Drill out Shoe
11:00	11:45	¾	Trip out for Bit #4
11:45	12:00	¼	Rig Serv. & B.O.P.s
12:00	4:00	4	Drilling 6¼" Hole
BOP Tested			DRILLER: R. Lozink CONTRACTOR'S TIME 8 CO's. TIME

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	359	441	82	4	6¼
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
			BIT No.	4
5	STANDS	284.64	SIZE	6¼
	SINGLE		MAKE	HW
6	D.C.'s	157.13	TYPE	OSC
			SERIAL	17509
			JET SIZE	—
	Subs	4.33	FROM	359
			TO	441
	KELLY IN	Down	FOOTAGE	82
	TOTAL	441.77	HRS.	4
	RAT HOLE TOP		COND.	

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	R. Lozink	8
DERRICK	L. Whiting	8
MOTORMAN	G. James	8
FLOORMAN	D. James	8
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.	WATER									
10 P.M.										
12 P.M.										

LINER SIZE: 5" STROKE 32

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

START	STOP	HRS.	4 - 12 TOUR
4:00	4:30	½	Drill 6¼ Hole
4:30	4:45	¼	Rig Serv. - B.O.P.s
4:45	9:00	4¼	Drill 6¼ Hole
9:00	9:30	½	Repair Broken Cat Line
9:30	12:00	2½	Drill 6¼ Hole
			R. Anderson Blade Hard with Cat. H Hr.
BOP Tested ✓			DRILLER: R. Anderson CONTRACTOR'S TIME 12 CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	441	621	180	7¼	6¼
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
			BIT No.	4
7	STANDS	459.57	SIZE	6¼
	SINGLE		MAKE	HW
6	D.C.'s	157.13	TYPE	OSC
			SERIAL	17509
			JET SIZE	—
	Subs	4.33	FROM	441
			TO	621
	KELLY IN		FOOTAGE	180
	TOTAL	Down	HRS.	7¼
	RAT HOLE TOP	621.03	COND.	

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	R. Anderson	12
DERRICK		
MOTORMAN		
FLOORMAN		
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: ___ PSI. MIN. ___ FORMATION TESTED ___ PSI. MIN. ___ EQUIPMENT FAILURES ___ TIME LOST ___

RIG FUEL CONSUMPTION ___ GALS BOILER FUEL CONSUMPTION ___ GALS WIRELINE TON MILE ___ TOOL PUSHER: Watts APPROVED: L. Lisowski

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE FEB 7/70

No. _____ DAILY TIME SHEET 3-35 (REV. 11/68)

Well _____

No. _____

Approved _____ Date _____

FIELD or AREA: THUNDER RIVER D-69 WELL NAME & No. I.N.C. NCO MOBIL SUN CONTRACTOR W.C. TRIMBLE DRILLING RIG No. NINE

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PUMP PRESS	DEVIATION DEPTH	DEVIATION DEG.
2 A.M.										
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12 - 8 TOUR
12⁰⁰	8⁰⁰	8	WOC

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
	KELLY IN		FOOTAGE			
	TOTAL		HRS.			
	RAT HOLE TOP		COND.			

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	L. GALENZA	8
DERRICK	M. GRASTAD	12
MOTORMAN	E. STAHNS	12
FLOORMAN	K. GALENZA	12
FLOORMAN	E. HABERER	12
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PUMP PRESS	DEVIATION DEPTH	DEVIATION DEG.
10 A.M.										
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	8 - 4 TOUR
8:00	10:15	2 1/4	W.O.C
10:15	12:15	2	CUT OFF CASING + WELD ON BOWL
12:15			INSTALL B.O.P. MANIFOLD
	4:00	3 3/4	KILL LINE ETC.
			CEMENT TOP SURFACE W/5 SKS
			WELD SURFACE CASING TO CONDUCTOR
			CASING W/ SPACER RING

BOP Tested DRILLER: A. Lozak CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
	KELLY IN		FOOTAGE			
	TOTAL		HRS.			
	RAT HOLE TOP		COND.			

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	A. LOZIAK	8
DERRICK	L. WHITING	12
MOTORMAN	G. JAMES	12
FLOORMAN	D. JAMES	12
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PUMP PRESS	DEVIATION DEPTH	DEVIATION DEG.
6 P.M.										
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

START	STOP	HRS.	4 - 12 TOUR
4⁰⁰	8⁰⁰	4 1/2	FINISH HOOKING UP B.O.P
8⁰⁰	11⁰⁰	3 1/2	1/2 DRILL COLLAR IN HOLE FISHING W/ MAGNET

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
	KELLY IN		FOOTAGE			
	TOTAL		HRS.			
	RAT HOLE TOP		COND.			

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER		
DERRICK		
MOTORMAN		
FLOORMAN		
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: _____ PSI. MIN. _____ FORMATION TESTED _____ PSI. MIN. _____ EQUIPMENT FAILURES _____ TIME LOST _____

RIG FUEL CONSUMPTION _____ GALS. BOILER FUEL CONSUMPTION _____ GALS WIRELINE TON MILE _____ TOOL PUSHER: [illegible] APPROVED [illegible]

SURFACE REPORT

MOBIL OIL CANADA, LTD.
CASING AND CEMENTING REPORT

3-38 (REV. 4/67)

MOBIL INC-NCO SUN.

WELL NAME THUNDER RIVER D-69 DATE FEBRUARY 8/70.

LOCATION LS ___, SEC ___, TWP ___, RGE ___, W ___M

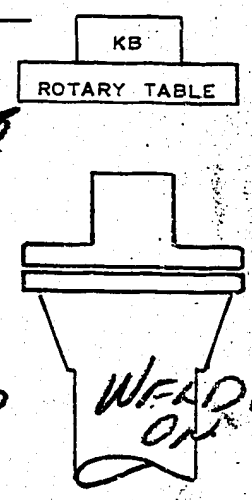
CASING (LIST IN ORDER RUN)

	SIZE	WT	GRADE	THREADS NO.	THREADS TYPE	NEW OR USED	NO. JOINTS	LENGTH TOTAL
1	7	17	J55	8	STRC	NEW	12.	356.55
2								
3								
4								
5								
6								
7								
TOTAL CASING ON THE LEASE BEFORE STARTING								356.55
CASING REMAINING ON THE LEASE AFTER RUNNING								—
TOTAL CASING RUN							12	356.55
LENGTH UP FROM KB ON LANDING JOINT								.94

KB ELEVATION ___

KB TO FLANGE 13.50 FT

CASING FLANGE ___
TYPE T 16
MFRG OCT
SIZES 6" X 900
WP 3000 - 6000



CASING LANDED AT 355.61

TAGGED BOTTOM AT ___ KB PIPE LANDED 3 FEET OFF BOTTOM

SCRATCHERS TYPE — MFGR — INTERVAL —

CENTRALIZERS TYPE LATCH ON MFGR HOWCO INTERVAL 330. FLOAT

FLOAT COLLAR AT 320. LENGTH INSERT MFGR HOWCO. TYPE INSERT WELDED LOCKED

FLOAT SHOE AT 356.55' LENGTH 1.30 MFGR HOWCO TYPE ONIOR WELDED LOCKED

STAGE COLLAR AT ___ LENGTH ___ MFGR ___ TYPE ___ WELDED LOCKED

CEMENT SERVICE COMPANY HOWCO. TRUCK MODEL SKID UNIT HUP ___

	TYPE	ADDITIVES	CU FT	SACKS	SLURRY WT
1	FOAM	(HOWCO FOAM)		118	14.6
2					
3					
4					

MUD
WT ___
VISC ___
W/L ___
PH ___
FC ___
GEL ___

HOLE
SIZES 8 3/4
TD DRILLER 359
TD LOGGER ___
TD CASING ___
CALIPER USED YES NO

WATER TESTED YES NO HOW — TEMP. WARM TYPE FRESH

TIMES
FINISH CIRCULATING ___ AM PM START CASING ___ AM PM CASING IN ___ AM PM CIRCULATE CASING ___ AM PM

RIG TO CEMENT ___ AM PM START MIXING ___ AM PM FINISH MIXING ___ AM PM START DISPLACING ___ AM PM PLUG DOWN 10.15 AM PM

PUMPING TIME ___ MIN CASING VOLUME ___ BBLS AVERAGE PUMPING RATE ___ BBL/MIN CASING LANDED ___ AM PM

HOW ___

PRESSURES
BREAK CIRCULATION ___ PSI CIRCULATING ___ PSI FINAL PUMPING ___ PSI BUMPED PLUG ___ PSI FLOAT HELD YES NO

REMARKS (DESCRIBE HOW PIPE WAS WORKED AND ANY PROBLEMS DURING JOB) STATE DISPOSITION OF DRY CEMENT, WATER AND SLURRY SAMPLES

Hole in good shape but no cement to surface. Mixed 5 sks cement on top

SIGNATURE [signature]

NOTE DISTRIBUTION: WHITE COPY - FORWARD TO AREA WELL FILE / YELLOW COPY - FORWARD TO DIVISION WELL FILES / PINK COPY - FORWARD TO CONSERVATION BOARD

SURFACE PIPE

3-27 (REV. 4/67)

MOBIL OIL CANADA, LTD.
PIPE TALLY FORM

SHEET NO.

NB THIS IS NOT A "THREADS OFF" TALLY

DATE FEBRUARY 8/70

WELL NAME MOBIL INC-NCO SUN. THUNDER RIVER D-69

LOCATION LS ___, SEC ___, TWP ___, RGE ___, W ___ M

JOINTS 1 TO 12 SIZE 7" GRADE J55 WT 17# THREADS 8 RD ST+C

JOINTS ___ TO ___ SIZE ___ GRADE ___ WT ___ THREADS ___

JOINTS ___ TO ___ SIZE ___ GRADE ___ WT ___ THREADS ___

JOINTS ___ TO ___ SIZE ___ GRADE ___ WT ___ THREADS ___

JOINTS ___ TO ___ SIZE ___ GRADE ___ WT ___ THREADS ___

JOINTS ___ TO ___ SIZE ___ GRADE ___ WT ___ THREADS ___

JOINTS ___ TO ___ SIZE ___ GRADE ___ WT ___ THREADS ___

	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	TOTALS	
1	29	80	26	80														
2	27	65	29	50														
3	33	80																
4	30	10																
5	33	80																
	29	85																
	30	10																
8	29	85																
9	29	50																
10	28	10																
TOTAL	302	55	56	30														

1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
TOTAL																		

1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
TOTAL																		

NB ON CASING TALLY THE FIRST JOINT LENGTH INCLUDES FLOAT AND SHOE
FIRST 10 JOINTS TO BE RUN IN ORDER TALLIED

SIGNATURE L Kesmonter

NOTE DISTRIBUTION: WHITE COPY - FORWARD TO AREA WELL FILE / YELLOW COPY - FORWARD TO DIVISION WELL FILES / PINK COPY - FORWARD TO CONSERVATION BOARD

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE FEB 8/70

No. 5 DAILY TIME SHEET 3-35 (REV. 11/68)

Well _____ No. _____

Approved _____ Date _____

FIELD or AREA: THUNDER RIVER D-69 WELL NAME & No. INCN NCO CONTRACTOR: W C TRIMBLE DRLG RIG No. 9

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.										
6 A.M.	9.6	34								
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND
	GEL 500 lbs

WORK RECORD 12-8 TOUR

START	STOP	HRS.	
12:00	12:30	1/2	WORK TIGHT HOLE
12:30	1:00	1/2	PULL OUT & UN PLUG BIT.
1:00	3:00	2	RUN IN W/OUT JETS & CLEAN 55' TO BTM
3:00	3:30	1/2	DRILLING
3:30	4:00	1/2	SURVEY
4:00	8:00	4	DRILLING
		8	

BOP Tested DRILLER: L Galenza CONTRACTOR'S TIME CO's. TIME

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	215	275	60	4 1/2	8 3/4
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
1	STANDS	64.26	BIT No.	2-A
1	SINGLE	30.20	SIZE	8 3/4
6	D.C.'s	157.13	MAKE	SM
			TYPE	DT-5
			SERIAL	58944
			JET SIZE	
		4.98	FROM	87
			TO	
KELLY IN		20'	FOOTAGE	275
TOTAL		275.62	HRS.	
RAT HOLE TOP			COND.	

Tour 1	Midnite to 8 A.M.	8 Hrs.
DRILLER	L. Willing	
DERRICK	G. James	12
MOTORMAN	D. James	12
FLOORMAN		12
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.	9.9	33							290	1/4
NOON	9.7	37							352	1°
2 P.M.	9.9	44								
4 P.M.										

LINER SIZE. 5" STROKE 9"

MUD & CHEMICALS

LBS. Added	KIND
	GEL - 800 lbs.
	WATER

BOP Tested DRILLER: P Taylor CONTRACTOR'S TIME CO's. TIME

8-4 TOUR

START	STOP	HRS.	
8:00	2:00	6	DRILLING + REAMING TIGHT CONECTIONS + SURVEYS
2:00	3:00	1	CIRC. & CONDITION MUD
3:00	3:45	3/4	TRIP OUT + RUN IN
3:45	4:00	1/4	CIRC. TO RUN CSG

Ran 12 Jts 7 inch Casing 557 ft. Shut Collar Baffle collar 118 Stove Centralizers Cemented shoe Float Insert 1 Centralizer Wiped shoe & Joints Plug Down 11:00 Pressured to 1500 Held Released Pressure No Float Held Plug Down 10:15 P.M. Returns

Rig Released 3:30 P.M.

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	275	~~369~~	~~94~~	6	
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
3	STANDS	182.96	BIT No.	2-A
1	SINGLE	30.20	SIZE	8 3/4
6	D.C.'s	157.13	MAKE	SM
			TYPE	DT-5
			SERIAL	58944
	SKI	4.98	JET SIZE	
			FROM	
			TO	369
KELLY IN		14'	FOOTAGE	282
TOTAL		369	HRS.	16 3/4
RAT HOLE TOP			COND.	

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	P. Loziak	16
DERRICK	M. Gartebo	12
MOTORMAN	F. Ohms	12
FLOORMAN	K. Galenza	12
FLOORMAN	E. Haeggyer	12
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

BOP Tested DRILLER: Anderson CONTRACTOR'S TIME CO's. TIME

4-12 TOUR

START	STOP	HRS.	
4:00	5:30	1 1/2	Circ to run csg
5:30	6:30	1	Trip out to run csg.
6:30	7:00	1/2	Rig up to run csg
7:00	9:00	2	Run csg.
9:00	9:30	1/2	Circ csg.
9:30	10:15	3/4	Cement and drop plug
10:15	12:00		Clean Tanks at rig

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
3	STANDS	182.96	BIT No.	2-A
	SINGLE		SIZE	8 3/4
6	D.C.'s	157.13	MAKE	SM
			TYPE	DT-5
			SERIAL	58944
	SKI	4.98	JET SIZE	
			FROM	87
			TO	369
KELLY IN		14'	FOOTAGE	282
TOTAL		369	HRS.	16 3/4
RAT HOLE TOP			COND.	2-2-3

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	K. Johnson	8
DERRICK		
MOTORMAN		
FLOORMAN		
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: _____ PSI. MIN. _____ FORMATION TESTED _____ PSI. MIN. _____ EQUIPMENT FAILURES _____ TIME LOST _____

RIG FUEL CONSUMPTION _____ GALS BOILER FUEL CONSUMPTION _____ GALS WIRELINE TON MILE _____ TOOL PUSHER: _____ APPROVED _____

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE Feb 7/70 No. ____ DAILY TIME SHEET 3-35 (REV. 1/68)

Well ____ No. ____

FIELD or AREA: Thunder River D-69 WELL NAME & No. Mobil Sun CONTRACTOR Trimble Drlg RIG No. Nine

Approved ____ Date ____

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

WORK RECORD — 12 - 8 TOUR

START	STOP	HRS.	
12:00	8:00	8	Wait On Cement
			Cleaning Up Rig
			D. James Helping Water Haulie

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	2-9
	SINGLE		SIZE	8 3/4
3	D.C.'s	77.46	MAKE	Smith
			TYPE	OT-J
			SERIAL	58144
			JET SIZE	3-12
			FROM	105
			TO	
KELLY IN		22'	FOOTAGE	
TOTAL		1050'	HRS.	
RAT HOLE TOP			COND.	

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	L. Galenza	8
DERRICK	M. Gaetano	
MOTORMAN	F. Adams	
FLOORMAN	K. Galenza	
FLOORMAN	E. Haggler	
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.										
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

8 - 4 TOUR

START	STOP	HRS.	
8:00	4:00	8	Wait On Cement

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	2-A
	SINGLE		SIZE	8 3/4
3	D.C.'s	77.46	MAKE	Sm
			TYPE	OT-J
			SERIAL	58144
			JET SIZE	3-12
			FROM	105
			TO	
KELLY IN		22'	FOOTAGE	
TOTAL		105	HRS.	
RAT HOLE TOP		8	COND.	

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	P. Lozinski	8
DERRICK	L. Whiting	12
MOTORMAN	G. James	12
FLOORMAN	D. James	12
FLOORMAN		
FIREMAN	P. Nuetzling	8

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.	9.4	58								
10 P.M.		40								
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND
1000	Gel		

4 - 12 TOUR

START	STOP	HRS.	
4:00	4:45	1/4	Rig Serv.
4:45	5:00	3/4	W.O.C.
5:00	8:30	3 1/2	Drill 8 3/4 Hole
8:30	9:45	1 1/4	Work Tight Hole con. Mud.
9:45	11:30	1 3/4	~~Work Tight Hole~~ Drill 8 3/4 Hole
11:30	12:00	1/2	Work Tight Hole

D. James Help on water Truck (8 hrs)

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	2-A
	SINGLE	1	SIZE	8 3/4
	D.C.'s	157.43	MAKE	Sm
			TYPE	OTC
			SERIAL	55544
	SUB	4.97	JET SIZE	3-12
			FROM	105'
			TO	215'
KELLY IN		22'	FOOTAGE	105'
TOTAL		215.35	HRS.	5 3/4
RAT HOLE TOP			COND.	RUN

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	F. Hagerman	8
DERRICK		
MOTORMAN		
FLOORMAN		
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: ____ PSI. MIN. ____ FORMATION TESTED ____ PSI. MIN. ____ EQUIPMENT FAILURES ____ TIME LOST ____

RIG FUEL CONSUMPTION ____ GALS BOILER FUEL CONSUMPTION ____ GALS WIRELINE TON MILE ____ TOOL PUSHER: [illegible] APPROVED [illegible]

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE FEB 6/70

No. _____ DAILY TIME SHEET 3-35 (REV. 1/68)

Well _____

No. _____

Approved _____ Date _____

FIELD or AREA: THUNDER RIVER D-69 WELL NAME & No. I.N.C. NCO MOBIL SUN CONTRACTOR TRIMBLE DRILLING RIG No. 9

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.	WATER									
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: 5" STROKE 6"

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12 - 8 TOUR
12:00	1:30	1 1/2	DRILLING 8 3/4" HOLE
			WASHED OUT AROUND CSG.
1:30			FILL HOLE IN W/ CEMET IN CELLAR
	2:30	1	(25 SKS CEMENT.)
2:30	8:00	5 1/2	WAIT ON WATER

BOP Tested DRILLER: C. Fluke CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	94	105	11	1 1/2	8 3/4
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	2-A
	SINGLE		SIZE	8 3/4
3	D.C.'s	77.46	MAKE	Sm
			TYPE	DTJ
			SERIAL	58844
	SUBS	4.48	JET SIZE	3-12
			FROM	94
			TO	105
KELLY IN		22.00	FOOTAGE	11
TOTAL		105.08	HRS.	3 1/2
RAT HOLE TOP			COND.	

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	P. Lozink	8
DERRICK	L. Whitine	8
MOTORMAN	G. James	8
FLOORMAN	D. James	8
FLOORMAN	R. Campbell	8
FIREMAN		

REMARKS AND INJURIES:

MUD RECORD

TIME	WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.										
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	8 - 4 TOUR
			WAIT ON WATER
8:00	9:30	1 1/2	BLOW KELLY & REAM 30' TO BTM
9:30	11:00	1 1/2	CON PIPE WASHED OUT
11:00	12:00	1	RIG UP MIXING PUMP
12:00			CUT OFF CON PIPE & WELD ON COLLAR TO
	3:30	3 1/2	RECEMENT & RIG UP HALLIBURTON
3:30	4:00	1/2	RECEMENT CON PIPE
			120 SX CEMENT

BOP Tested DRILLER: J. Glenza CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	2-A
	SINGLE		SIZE	8 3/4
	D.C.'s		MAKE	Sm
3		77.46	TYPE	DTJ
			SERIAL	58844
			JET SIZE	3-12
			FROM	105
			TO	
KELLY IN		22'	FOOTAGE	
TOTAL		105.08	HRS.	
RAT HOLE TOP			COND.	

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	L. Galenza	8
DERRICK	M. Gaffstead	8 1/2
MOTORMAN	E. Gaines	8 1/2
FLOORMAN	K. Galenza	8 1/2
FLOORMAN	E. Harbigger	12
FIREMAN	P. Huetzling	8
LEASE	C. Nelson	8

REMARKS AND INJURIES:

MUD RECORD

TIME	WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

START	STOP	HRS.	4 - 12 TOUR
4	12	8	W.O.C.

BOP Tested DRILLER: [illegible] CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	[illegible]
	SINGLE		SIZE	[illegible]
	D.C.'s		MAKE	[illegible]
3		77.46	TYPE	[illegible]
			SERIAL	[illegible]
			JET SIZE	[illegible]
			FROM	94
			TO	105
KELLY IN		22	FOOTAGE	[illegible]
TOTAL		105.08	HRS.	[illegible]
RAT HOLE TOP			COND.	

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	[illegible]	
DERRICK	[illegible]	
MOTORMAN	[illegible]	
FLOORMAN	[illegible]	
FLOORMAN	[illegible]	
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: _____ PSI. MIN. _____ FORMATION TESTED _____ PSI. MIN. _____ EQUIPMENT FAILURES _____ TIME LOST _____

RIG FUEL CONSUMPTION _____ GALS BOILER FUEL CONSUMPTION _____ GALS WIRELINE TON MILE _____ TOOL PUSHER: [illegible] APPROVED: [illegible]

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE Feb 5/70

No. _____ DAILY TIME SHEET 3-35 (REV. 11/68)

Well _____

No. _____

FIELD or AREA: THUNDER RIVER D-69 WELL NAME & No. INC. NOE MOBIL SUN CONTRACTOR W.C. TRIMBLE DRLG RIG No. NINE

Approved _____ Date Feb 5/70

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12-8 TOUR
			WAIT ON WATER.
			WATER TRUCK BROKE DOWN HELP REPAIR.
			INSTALL NEW PUMP + P.T.O GEARS

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	
	SINGLE		SIZE	
	D.C.'s		MAKE	
			TYPE	
			SERIAL	
			JET SIZE	
			FROM	
			TO	
KELLY IN			FOOTAGE	
TOTAL			HRS.	
RAT HOLE TOP			COND.	

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	H. MYNIO	12
DERRICK		
MOTORMAN		
FLOORMAN	R. CAMPBELL	12
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.	WATER					45				
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: 5" STROKE 8"

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	8-4 TOUR
8:00	11:00	3	WAIT ON WATER
11:00	12:00	1	DRILL OUT 25' CEMENT
12:00	1:00	1	DRILLING 8 3/4" HOLE
1:00	3:00	3	CIRC & WAIT ON WATER WATER TRUCK BROKE DOWN
			K. GALENZA E. HABEGGER PUMPING FUEL

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	87	90	3	1	8 3/4
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	2A
	SINGLE		SIZE	8 3/4
	D.C.'s		MAKE	Sm.
7		52.06	TYPE	DT-J
			SERIAL	58844
			JET SIZE	3-12
			FROM	87
			TO	90
KELLY IN		33'	FOOTAGE	3
TOTAL		90.04	HRS.	1
RAT HOLE TOP			COND.	

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	L. GALENZA	12
DERRICK	M. GARSTEAD	12
MOTORMAN	F. DAHMS	12
FLOORMAN	K. GALENZA	12
FLOORMAN	E. HABEGGER	12
FIREMAN	P. NUETZLING	12
DRILLER	R. ANDERSON	12

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.	WATER									
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: 5" STROKE 8"

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

START	STOP	HRS.	4-12 TOUR
4:00	11:00	7	CIRC. + WAIT ON WATER
			HELP RIG UP PUMP FOR WATER TRUCK
11:00	5:00	6	DRILLING 8 3/4 HOLE

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	90	94	4	2	8 3/4
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	2-A
	SINGLE		SIZE	8 3/4
	D.C.'s		MAKE	Sm.
2		52.06	TYPE	DT-J
			SERIAL	58844
			JET SIZE	3-12
			FROM	90
			TO	94
KELLY IN		DOWN	FOOTAGE	4
TOTAL		44.68	HRS.	2
RAT HOLE TOP			COND.	

Tour 3.	4 P.M. to Midnite	Hrs.
DRILLER	R. LOZIAK	12
DERRICK	L. WHITING	4
MOTORMAN	E. JAMES	12
FLOORMAN	D. JAMES	12
FLOORMAN	CARL NELSON	4
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: _____ PSI. MIN. _____ FORMATION TESTED _____ PSI. MIN. _____ EQUIPMENT FAILURES _____ TIME LOST _____

RIG FUEL CONSUMPTION _____ GALS BOILER FUEL CONSUMPTION _____ GALS WIRELINE TON MILE _____ TOOL PUSHER [signature] APPROVED: [signature]

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE Feb 4/70

No. 3 DAILY TIME SHEET 3-35 (REV. 11/68)

Well

FIELD or AREA: TUNDER RIVER D-69 WELL NAME & No. INC. NCO. MOBIL SUN CONTRACTOR TRIMBLE DRILLING No. 3 RIG No.

Approved Date

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12-8 TOUR
Midn	2:00	2	CLEANED UP RIG
2:00	4:30	2½	CUT OUT STAND PIPE IN MUD TANK TO CHANGE
4:30	6:30	2	INSTALLED DESILTER + MUD HOPPER
			W.O.C ON CONDUCTOR PIPE
6:30	8:00	1½	WORK ON SHAKER

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
	KELLY IN		FOOTAGE			
	TOTAL		HRS.			
	RAT HOLE TOP		COND.			

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	H. MYNIO	12
DERRICK		
MOTORMAN		
FLOORMAN	R. CAMPBELL	12
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.										
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	8-4 TOUR
			W.O.C ON CONDUCTOR PIPE
			EIN POLE PIPE - COLLARS
			PUT MUD LINE IN MUD TANK
			PUT UP PULLY FOR CAT LINE + STRING SAME.
			HANG LINE SPOOLER
			HELP WORK ON WATER TRUCK
			B. ANDERSON + E. HABEGGER
			UN LOAD FUEL - 3 HRS.

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
	KELLY IN		FOOTAGE			
	TOTAL		HRS.			
	RAT HOLE TOP		COND.			

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	L. ERLENZA	12
DERRICK	M. ERASTFAD	12
MOTORMAN	F. DAHMS	12
FLOORMAN	K. ERLENZA	12
FLOORMAN	E. HABEGGER	12
FIREMAN		

REMARKS AND INJURIES:

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

START	STOP	HRS.	4-12 TOUR
			W.O.C.
4:00			CHANGE LINER TIGHTER BOLTS ON PUMP
			STRING SAND LINE
			FINISH INSTALLING STAND PIPE BACK
	10:00	6	IN MUD TANK
			CUT OFF CSG + WELD ON PLG
			LINE
			MAKE UP BIT RE-DRILL OUT.
			BY PASS CEMENT

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD BIT No.			
	STANDS		SIZE			
	SINGLE		MAKE			
	D.C.'s		TYPE			
			SERIAL			
			JET SIZE			
			FROM			
			TO			
	KELLY IN		FOOTAGE			
	TOTAL		HRS.			
	RAT HOLE TOP		COND.			

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	P. LOZIAK	12
DERRICK		
MOTORMAN	G. JAMES	12
FLOORMAN	D. JAMES	12
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: PSI. MIN. FORMATION TESTED PSI. MIN. EQUIPMENT FAILURES TIME LOST

RIG FUEL CONSUMPTION GALS BOILER FUEL CONSUMPTION GALS WIRELINE TON MILE TOOL PUSHER: APPROVED: L. Lesowski

CONDUCTOR PIPE

MOBIL OIL CANADA, LTD.
CASING AND CEMENTING REPORT

3-38 (REV. 4/67)

MOBIL INC-NCO SUN.

WELL NAME THUNDER RIVER D69 DATE Feb. 3/70

LOCATION LS ___, SEC ___, TWP ___, RGE ___, W ___M

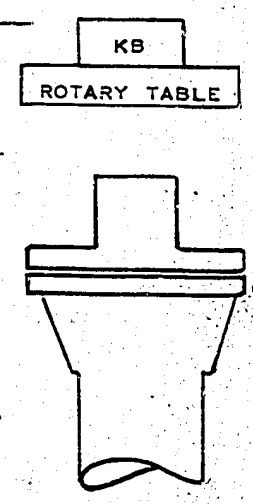
CASING (LIST IN ORDER RUN)

	SIZE	WT	GRADE	THREADS NO.	THREADS TYPE	NEW OR USED	NO. JOINTS	LENGTH TOTAL
1	9 5/8	32.3	H40	8	STRC	NEW	3	89.74
2								
3								
4								
5								
6								
7								
TOTAL CASING ON THE LEASE BEFORE STARTING							3	89.74
CASING REMAINING ON THE LEASE AFTER RUNNING								
TOTAL CASING RUN								89.74
LENGTH UP FROM KB ON LANDING JOINT								15.96

KB ELEVATION ___

KB TO FLANGE ___ FT

CASING FLANGE ___
TYPE ___
MFRG ___
SIZES ___
WP ___



CASING LANDED AT 73.78'

TAGGED BOTTOM AT ___ KB PIPE LANDED 13 FEET OFF BOTTOM

SCRATCHERS TYPE — MFGR ___ INTERVAL ___

CENTRALIZERS TYPE — MFGR ___ INTERVAL ___

FLOAT COLLAR AT — LENGTH ___ MFGR ___ TYPE ___ WELDED LOCKED

FLOAT SHOE AT — LENGTH ___ MFGR ___ TYPE ___ WELDED LOCKED

STAGE COLLAR AT — LENGTH ___ MFGR ___ TYPE ___ WELDED LOCKED

CEMENT SERVICE COMPANY ___ TRUCK MODEL ___ HHP ___

	TYPE	ADDITIVES	CU FT	SACKS	SLURRY WT
1	FONDU		50.		14.6
2		MIX ON TOP AFTER NO RETURNS	20		
3	SECOND JOB				
4	FONDU		120.		14.8

MUD: WT ___ VISC ___ W/L ___ PH ___ FC ___ GEL ___

HOLE: SIZES ___ TD DRILLER ___ TD LOG ___ TD CASING ___ CALIPER USED YES NO

WATER TESTED YES NO HOW — TEMP. — TYPE —

TIMES

FINISH CIRCULATING ___ AM PM START CASING ___ AM PM CASING IN ___ AM PM CIRCULATE CASING ___ AM PM

RIG TO CEMENT ___ AM PM START MIXING ___ AM PM FINISH MIXING ___ AM PM START DISPLACING ___ AM PM PLUG DOWN ___ AM PM

PUMPING TIME ___ MIN CASING VOLUME ___ BBLS AVERAGE PUMPING RATE ___ BBL/MIN CASING LANDED ___ AM PM

HOW ___

PRESSURES

BREAK CIRCULATION ___ PSI CIRCULATING ___ PSI FINAL PUMPING ___ PSI BUMPED PLUG ___ PSI FLOAT HELD YES NO

REMARKS (DESCRIBE HOW PIPE WAS WORKED AND ANY PROBLEMS DURING JOB) STATE DISPOSITION OF DRY CEMENT, WATER AND SLURRY SAMPLES

No. Casing Equipment on Casing No Returns Waited on Cement. 24. Drilled Out. Made 4 foot hole. Conductor pipe spooled out. Welded collar back on 9 5/8. Circulated 9 5/8. Recemented with 120 sacks Fondu got returns to surface.

SIGNATURE L. Ellsworth

NOTE DISTRIBUTION: WHITE COPY - FORWARD TO AREA WELL FILE / YELLOW COPY - FORWARD TO DIVISION WELL FILES / PINK COPY - FORWARD TO CONSERVATION BOARD

3-27 (REV. 4/67)

MOBIL OIL CANADA, LTD.
PIPE TALLY FORM

SHEET NO.

NB THIS IS NOT A "THREADS OFF" TALLY

DATE FEB 3/70

WELL NAME MOBIL INC-NEO SUN THUNDER RIVER D 69

LOCATION LS ___, SEC___, TWP___, RGE___, W_ M

JOINTS 1 TO 3 SIZE 9 5/8 GRADE H40 WT 32.3 THREADS STSC

JOINTS ___ TO ___ SIZE ___ GRADE ___ WT ___ THREADS ___

JOINTS ___ TO ___ SIZE ___ GRADE ___ WT ___ THREADS ___

JOINTS ___ TO ___ SIZE ___ GRADE ___ WT ___ THREADS ___

JOINTS ___ TO ___ SIZE ___ GRADE ___ WT ___ THREADS ___

JOINTS ___ TO ___ SIZE ___ GRADE ___ WT ___ THREADS ___

	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	FT	10TH	TOTALS	
1	30	85																
2	29	43																
3	29	46																
4																		
5																		
6																		
7																		
8																		
9																		
10																		
TOTAL	88	74																

1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
TOTAL																		

1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
TOTAL																		

NB ON CASING TALLY THE FIRST JOINT LENGTH INCLUDES FLOAT AND SHOE
FIRST 10 JOINTS TO BE RUN IN ORDER TALLIED

SIGNATURE L Lusmindu

NOTE DISTRIBUTION: WHITE COPY - FORWARD TO AREA WELL FILE / YELLOW COPY - FORWARD TO DIVISION WELL FILES / PINK COPY - FORWARD TO CONSERVATION BOARD

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE FEB 3/70

No. 2 DAILY TIME SHEET 3-35 (REV. 11/68)

Well UNITED SEC. 64

FIELD or AREA: THUNDER RIVER D-69 WELL NAME & No. I.N.G.-NCO. MOBIL SUN CONTRACTOR TRIMBLE DRILLING RIG No. 9 No. 2

Approved _____ Date _____

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: 5" STROKE 8"

MUD & CHEMICALS

LBS. Added	KIND

WORK RECORD — 12-8 TOUR

START	STOP	HRS.	
12:00	12:30	1/2	WORK ON CELLAR TO STOP WASH OUT
12:30	6:30	6	DRILLING 12 1/4 HOLE
6:30	7:30	1	DUMMY TRIP + CIRC. HOLE TO RUN CSG
7:30	8:30	1/2	RIG TO RUN CSG

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	46.78	79.65	40.87	6	12 1/4
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	1-A
	SINGLE		SIZE	12 1/4
			MAKE	SMITH
2	D.C.'s	59.40	TYPE	DTT
	SUBS	6.15	SERIAL	AE219
			JET SIZE	3-15
			FROM	46
			TO	87
	KELLY IN	23.50	FOOTAGE	40
	TOTAL	79.65	HRS.	6
	RAT HOLE TOP		COND.	

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER	HENRY MYHRO	12
DERRICK		
MOTORMAN		
FLOORMAN	R. CAMPBELL	12
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.										
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

8-4 TOUR

START	STOP	HRS.	
8:00			RIG TO RUN CSG. BLOW KELLY, TAKE OF
	9:00	1	KELLY HOSE
9:00	10:30	1 1/2	RUN CSG.
10:30			RIG TO + CIRC. CSG. + WAIT ON WATER
	4:00	5 1/2	TO CEMENT
			WATER TRUCK BROKE POWER TAKE OFF DRIVE + DRIVE SHAFT.
			WAIT ON WATER (6 HRS)

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	
	SINGLE		SIZE	
			MAKE	
	D.C.'s		TYPE	
			SERIAL	
			JET SIZE	
			FROM	
			TO	
	KELLY IN		FOOTAGE	
	TOTAL		HRS.	
	RAT HOLE TOP		COND.	

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	L. GALENZA	12
DERRICK	M. BARSTEAD	12
MOTORMAN	FRED DAHMS	12
FLOORMAN	KEN GALENZA	12
FLOORMAN	ERNIE HABBE	12
FIREMAN	PERCY NEITSING	12

REMARKS AND INJURIES:

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRE	DEVIATION DEPTH	DEG.
6 P.M.										
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

4-12 TOUR

START	STOP	HRS.	
4:00	5:00	1	WAIT ON WATER
5:00	5:30	1/2	RIG TO CEMENT & CEMENT
5:30	6:45	1 1/4	RIG TO DISPLACE + PUMP DOWN PLUG
6:45	12:00	5 1/4	W.O.C
			RAN 3 JTS. 9 5/8 CSG FOR CONDUCTOR
			50 SKS. BONDO CEMENT
			(USED 20 SKS CEMENT IN TOP OF CELLAR)

BOP Tested DRILLER: CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	
	SINGLE		SIZE	
			MAKE	
	D.C.'s		TYPE	
			SERIAL	
			JET SIZE	
			FROM	
			TO	
	KELLY IN		FOOTAGE	
	TOTAL		HRS.	
	RAT HOLE TOP		COND.	

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	A. LOZIAK	12
DERRICK		
MOTORMAN	E. JAMES	12
FLOORMAN	D. JAMES	12
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

CASING TESTED TO: _____ PSI. MIN. _____ FORMATION TESTED _____ PSI. MIN. _____ EQUIPMENT FAILURES _____ TIME LOST _____

RIG FUEL CONSUMPTION _____ GALS BOILER FUEL CONSUMPTION _____ GALS WIRELINE TON MILE _____ TOOL PUSHER: [illegible] APPROVED: [illegible]

Mobil Oil Canada, Ltd.

DAILY DRILLING REPORT

DATE Feb. 2/70

No. 1 DAILY TIME SHEET 3-35 (REV. 11/60)

Well UNITED - Sec. 69

No. 1

FIELD or AREA: Thunder River D-69 WELL NAME & NO. Mobil Sun CONTRACTOR Trimble Drilling RIG No. 9

Approved _____ Date _____

TIME	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
2 A.M.										
4 A.M.										
6 A.M.										
8 A.M.										

LINER SIZE: STROKE

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	WORK RECORD 12 - 8 TOUR
			Rigging Up.
			Moving

BOP Tested DRILLER L. Galenza CONTRACTOR'S TIME CO's. TIME

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
10 A.M.							60			
NOON										
2 P.M.										
4 P.M.										

LINER SIZE: 5" STROKE 8"

MUD & CHEMICALS

LBS. Added	KIND

START	STOP	HRS.	8 - 4 TOUR
800			Bit in Hoisting Bonds. String up Tong Lines
	300	7	Rig To Drill Conductor Hole.
300	400	1	Drilling Conductor Hole. 12¼"
			Rig Spudded 3.00 P.M. Moving 7 Drill 1.

BOP Tested DRILLER L. Galenza CONTRACTOR'S TIME CO's. TIME

	MUD RECORD WT.	VISC.	W.L.	F.C.	BIT WT. M	TABLE RPM	PUMP SPM	PRESS	DEVIATION DEPTH	DEG.
6 P.M.							35 30			
8 P.M.										
10 P.M.										
12 P.M.										

LINER SIZE: 5 STROKE 8

MUD & CHEMICALS

LBS. Added	KIND	LBS.	ON HAND

START	STOP	HRS.	4 - 12 TOUR
400	600	2	Drilling 12¼ Hole.
600	700	1	Wait on Water.
700	830	1½	Drilling
800	915	3¼	Wait on Water.
915	1130	2¼	Drilling
1130	1200	1½	Wait on Water.
			Hole Washed out 5' Below ground Level Cut 30 ends out of float BBL. & Pull Down Hole.
			Drilling Rough & Hard

BOP Tested DRILLER: H. Hynio CONTRACTOR'S TIME CO's. TIME 8

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED					
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	
	SINGLE		SIZE	
	D.C.'s		MAKE	
			TYPE	
			SERIAL	
			JET SIZE	
			FROM	
			TO	
	KELLY IN		FOOTAGE	
	TOTAL		HRS.	
	RAT HOLE TOP		COND.	

Tour 1	Midnite to 8 A.M.	Hrs.
DRILLER		
DERRICK		
MOTORMAN		
FLOORMAN		
FLOORMAN		
FIREMAN		

REMARKS AND INJURIES:

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	0	16.15	16'15	1	12¼
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	1-A
	SINGLE		SIZE	12¼
	D.C.'s		MAKE	Smith
			TYPE	DTJ
			SERIAL	BE267
			JET SIZE	3-15
			FROM	0
			TO	16
	KELLY IN		FOOTAGE	16
	TOTAL		HRS.	1
	RAT HOLE TOP		COND.	Running

Tour 2	8 A.M. to 4 P.M.	Hrs.
DRILLER	L. Galenza.	12
DERRICK	H. Gorstead	12
MOTORMAN	E. Dahms	12
FLOORMAN	K. Galenza.	12
FLOORMAN	E. Hobsser.	12
FIREMAN	Percy Neitling	12.
Driller	B. Anderson	12

REMARKS AND INJURIES:

Nil.

	FROM	TO	FOOTAGE	HRS.	SIZE
DRILLED	16	46	30	5¾	12¼
REAMED					
CORED					

TALLY No.		LENGTH	BIT RECORD	
	STANDS		BIT No.	1-A
	SINGLE		SIZE	12¼
1	D.C.'s	29.20	MAKE	Smith
	Subs	6.15	TYPE	DT
			SERIAL	BE267
			JET SIZE	3/15
			FROM	0
			TO	46
	KELLY IN	11.44	FOOTAGE	46
	TOTAL	46.79	HRS.	6¾
	RAT HOLE TOP		COND.	Running

Tour 3	4 P.M. to Midnite	Hrs.
DRILLER	H. Hynio	12
DERRICK		
MOTORMAN	B. James	12
FLOORMAN	D. James	12
FLOORMAN	R. Campbell	12
FIREMAN		
Driller	P. Lazick	12

REMARKS AND INJURIES:

Nil

CASING TESTED TO: _____ PSI. MIN. _____ FORMATION TESTED _____ PSI. MIN. _____ EQUIPMENT FAILURES _____ TIME LOST _____

RIG FUEL CONSUMPTION _____ GALS BOILER FUEL CONSUMPTION _____ GALS WIRELINE TON MILE _____ TOOL PUSHER [signature] APPROVED: [signature]