

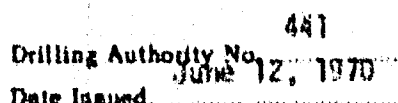
Drilling Authority No. 441
Date Issued 12 June 1970

WELL NAME McD Can GCO Haida Ck. 7-57
FIELD Wildcat
LOCATION: Unit P Area: 57 Grid 65-40 128-00
Latitude 65-36-17 Longitude 128-10-35
U.W.L.R. 65.60472 --- 128.17667
U.W.I. 300F57654.0128000

Rig Release Date:
Status:
Information Release Date:

CHANGE OF NAME:

DATE RECEIVED	INDEX
12-6-70	Application for a Drilling Authority. Well Completion Data. Well History Report. Application to Amend a Drilling Authority. Application to change a Well Name. 28/8/70 Application to Abandon a Well or Suspend Drilling. Application to Alter Condition of a Well. 10/9/70 Well History Supplement. 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 - Vittor'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.....



WELL COMPLETION DATA

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

WFO Can GCO H4100 Ck F-57

Well name and number

Permit No.

Permit No. 1002
Bay, McEl Can. General Crude

Lease No. J. Ray HCU 1666 GCO 1398

Exploratory Licence No.

1. Ray McDermott Canada, Ltd.

Exploratory Licence No. 1566

Control

Location: Unit

9

Section

57

61040' 128900'

Latitude 65035'17"

7005576583444910

From Established Reference Marker:

65 6047203. Long 128.17567°W

Universal Well Location Reference

	DATE	DEPTH
Spudded	4:46 PM July 10/70	0
Suspended		
Resumed Operations		
Finished Drilling	1:15 AM Aug. 9/70	4863
Deepened		
Complete (gas/oil)	Aug 11/70	4863
Abandoned		
Rig released	12 PM Aug. 12/70	

Pool(s) _____

Interval(s) open to production _____

Elevation: Gr. 382 K.B. 395

Rig No. IE

Drilling Contractor S&T (Western)

Contractor's Business Licence No. 798

CASING RECORD

	Using Size (Inches)	Grade	Weight	Amount	Set at ~	Bags of Cement and Additives
1.	13 3/8	J-55	99.4#	3JTS	90'	67 + 8% Calseal w/ last 30
2.	9 5/8	J-55	24#	23JTS	860'	460 + 3% CaCl
3.						
4.						
5.						
6.						

[illegible]

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracuring, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
8/11/70	3899	4000	Cmt. w/ 36 sxs + 3% Cap 1 Felt Plg. @ 3885 Aug. 12								
8/12/70	3400	3500	Cmt. 2/ 38 sxs + 3% Cap 1 Felt Plg. @ 3390 Aug. 12								
8/12/70	2600	2700	Cmt. w/ 40 sxs + 3% Cap 1 Felt Plg. @ 2580 Aug. 12								
8/12/70	800	900	Cmt. w/ 50 sxs + 3% Cap 1 Felt Plg. @ 750 Aug. 12								
8/12/70	Surface - 10 sacks cement. Plate welded on top, and identification marker was installed.										

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	L.S.L. Mins.	F.S.L. Mins.	L.S.L.H.P.	F.S.L.H.P.	L.F.H.P.	F.F.H.P.	L.H.P.	F.H.P.	REMARKS
1	July 23/70	Kee Scarp	1560	1925	60	60	60	318	88	53	53	750		REC. 30' mud
2	July 27/70	Bear Rock	2748	2825	60	30	60	1180	1160	50	370	1310	1310	Rec. 30' mud, 180' mud cut slightly salty water. 520' slightly salty water
3	Aug 10/70	Ronning	3559	3876	60	60	60	1587	1587	1230	1587	1758	1752	Rec. 450' salty mud, 580' muddy salt water. 240' clean salt water

Figures reported are field figures.

ANALYSIS				PRESENT STATUS OF WELL			
Lab. No.	Sample	From	To	Source	Remarks	Oil	(Interval)
	NIL					Gas	(Interval)
						Dry	D&A
						Susp.	

Company TransOcean Oil, Inc.

Signed by *[Signature]*

Title Canadian Area Manager

Date September 10, 1970

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



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 McD Can GCO Malda CK F-57
Location: Unit F Section 57 Grid 65°40' 128°00'
Latitude 65°36' 17" Longitude 128°10' 36"
From Established Reference Marker SP 223 Line 70-3
Universal Well Location Reference 65.604720N 128.176670W
Permit No. 4382 Lease No.

J. Ray McDermott Canada Ltd. and
(Permitter, Licensee, Lessee) General Crude
Oil Company Alberta Ltd.

Date of commencement of proposed program August 12, 1970

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at
Gas at
Water at 2748-2825 3560-3876
Total Depth 4863
Present condition of well D&A Date of last operations August 9, 1970

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At	Sacks of Cement and Additives	Amount Palled
1.3 3/8"	94.4# J-55	3JTS	90'	67sxs - last 30 w/8% Calseal	
2. 8 5/8"	24# J-55	23JTS	860'	460 sxs with 3% CaCl	
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	3900'-4000'	Ronning	36 sxs w/ 3% CaCl	Plug down 7:30 PM Aug 11 Felt @ 3885 @ 1:30 AM Aug 12
2	3400-3500'	Bear Rock	38 sxs w/ 3% CaCl	Plg. down 2:30 AM Aug 12 Felt @ 3390 @ 8 AM Aug. 12
3	2600'-2700'	Bear Rock	40 sxs w/ 3% CaCl	Plg. down 9:15 AM Aug. 12 Felt @ 2580 @ 3:15 PM Aug. 12
4	800'-900'	Imperial	50 sxs w/ 3% CaCl	Plg. down @ 3:45 PM Aug. 12 Felt @ 790' @ 9:45 PM Aug. 12

The following logs have been run IES, SNP, FDC, Microlog, BHCS, Gamma Ray (Integrated) Vel. Survey
Other operations proposed Set surface plug with 5' stand pipe & name plate

Operations to be carried out by S&T Drilling Contractor Licence No. 798
Address 5825 - 98th St. Address Edmonton, Alta.
Responsible Agent in field J.R. Wyman (V.H. Hunter & Assoc.)
Dated at Calgary, this 24 Day of August 19 70
Signed by [Signature] Company J. Ray McDermott Canada
Title Canadian Division Manager Operator's Exploratory Licence No. 1666

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

(For OIL AND MINERAL DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.H.J. Thoms
on the 11th August 1970.

12th August 28th, 19 70

[Signature]
Oil Conservation Engineer

Drilling Authority No. 441

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION
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 McD Can GCO Maida CK F-57
Location: Unit F Section 57 Grid 65°40' 128° 00'
Latitude 65°36'17" Longitude 128°10'36"
From Established Reference Marker Shot Point 223 Line 70-3 622.2'S & 11,109'E
Universal Well Location Reference OF BM 73 128°15' 65°36'5"
Lat. 65°40'42" N Long. 128°17'66" W
Elevation: Ground 382 K.B. 395 feet above sea-level.
Well is expected to produce from Kee Scarp formation at a depth
of about 1960 feet. Expected total final depth 8000'
Area assigned to well (for Oil Conservation Engineer's use only)

Permit No. 4382 Lease No. 26,449
Permittee, licensee, or lessee J. Ray McDermott Canada Ltd., General Crude Oil Alberta Ltd.
Exploratory Licence No. 1666 1398
Surface owned by Crown or (If other, submit name and address of owner and acreage).
Petroleum and natural-gas rights owned by Crown

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Back of Cement
1. 13 3/8"	48#	H40	New	120'	125 gyp Seal
2. 8 5/8"	36#	J55	New	800'	200 Portland
3. 7"	23#	J55	New	2500'	170 Portland
4.					200 Sacks Portland
5.					

Expected water, gas, and oil horizons and type of control equipment. Kee Scarp 1960'

Case Off Bear Rock 3250' - Control Drill

Running 4500' - Control Drill

10" 900 Series GK Hydri1 & 10" 900 Series Shaffer Hydraulic

Well will be drilled with Rotary Rig No. IE by S&T Drilling Co. (Western) Ltd.
(Drilling Contractor or company)

Responsible agent of applicant:— Contractor's Business Licence No. 798

At well J. Wymen At registered office J. Ray McDermott & Assoc.

Address C/O Norman Wells Address P.O. Box 9000 Edmonton, Alta.

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

Dated at Calgary, this 11 day of June, 1970

Signed by J. Ray McDermott Company J. Ray McDermott Canada Ltd.

Title Exploration Manager Operator's Licence No. 1666

(For Resource Management Division use only)

APPROVED

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

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

Dated 12th June 1970

Please see over page

Oil Conservation Engineer

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

that drilling fluids, chemicals and wastes 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.
4. Production casing is to be approved by the Oil Conservation Engineer before it is run.

B.H.J. Thoms

B.H.J. Thoms, Oil Conservation Engineer

MONUMENT RECORD

FILE CODE 65 - 128 NE

TOPOGRAPHICAL SURVEY

SURVEYS AND MAPPING BRANCH

TECHNICAL CONTROL ONLY DEPARTMENT OF MINES AND TECHNICAL SURVEYS

MONUMENT B.M. 73

MAP SHEET	106-K-9	LOCALITY:	MACKENZIE RIVER
PROVINCE	N.W.T.	DATE	Aug., 1951
FIELD OFFICER	H.G. Blom	LATITUDE	
TYPE OF SURVEY	Spirit Level	LONGITUDE	
SOURCE	Topo. file	DATUM	GEODETIC
MONUMENT TYPE	Spike in tree	UTM NORTHINGS	
DATE PLANTED	1953	UTM EASTINGS	
FIELD BOOK NO.	52103	ZONE	
AIR PHOTO NO.	A-12590-372	ELEVATIONS	144.7'
THEODOLITE		LEVELLING METHOD	Spirit

(FOR ADDITIONAL INFORMATION TURN OVER)

B.M. 73
 E.L. 144.7
 W.L. 112.4
 H.W. 152
 8/8/53

RIG LOC

M'D MAIDA CK. F-57

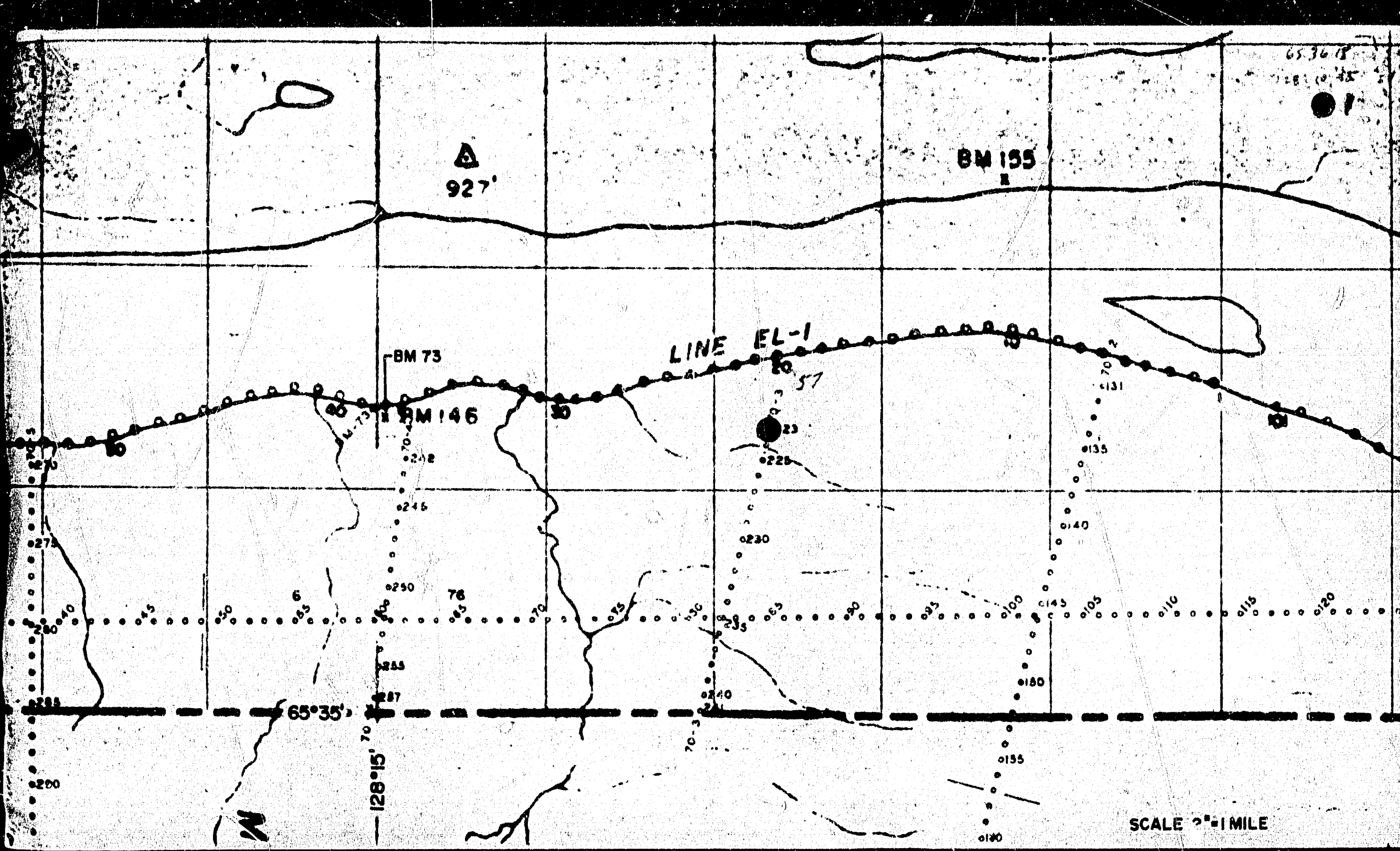
B.M. 73 128° 15' 00" 61° 56' 30"

DESCRIPTION: Spike in base of blazed 5" Spruce opposite a point 600 feet south of rock bluff on east shore of Mackenzie. The B.M. is above a bay south of a point and drainage.

W.L. 112.4'

Elevation: 144.7'

Photo No.: A-12590-372.





File No.
Drilling Authority No. 441

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area: Norman Wells Date: 11th July 1971

TO: The Oil Conservation Engineer:

RE: McD Can GCO Maide Ch F-57 615-207-0241-00

Location: 65.60472°N., 128.17667°W. Status: D & A August 1970

This location was inspected by the undersigned on 11th July 1971

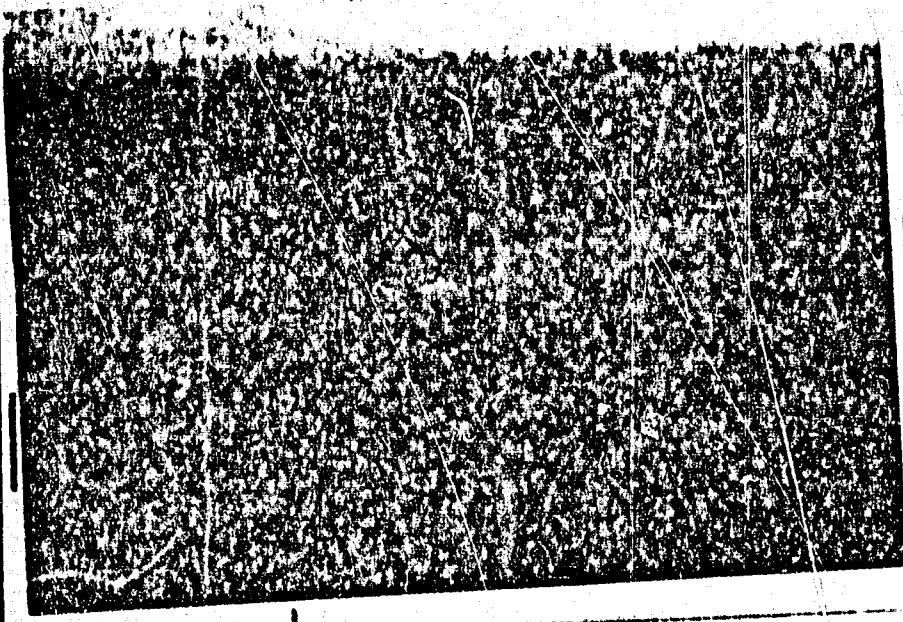
The location is in ~~unsatisfactory~~ satisfactory condition. T.D. 4863'

The following items require attention:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Other comments and recommendations: (Include Map, if necessary for clarity)

Good cleanup.

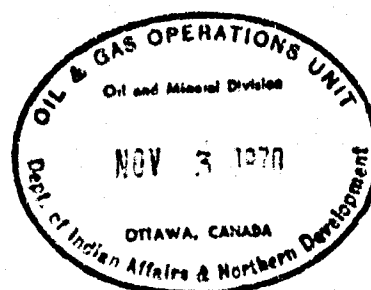


Inspected by L. O'Meara
M. D. Thomas
District 2

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SECTION I - SUMMARY OF WELL DATA

- (a) WELL NAME: McD Can GCO Maids Ck F-57
- (b) LICENCEE: J. Ray McDermott Canada, Ltd.
General Crude Oil Alberta Ltd.
- (c) OPERATOR: J. Ray McDermott Canada Ltd.
217 ~~Royalize~~ Building
Calgary 2, Alberta
- (d) LOCATION: Unit F, Section 57, Grid 65°40' & 128°00'
Latitude 65°36'17"N, Longitude 128°10'36"W
Universal Well Location Reference No:
Lat. 65.60572°N, Long. 128.17667°W
Unique Well Identifier 300 F 576540128000
Reference Marker: Shot Point #223 McD
Seismic Line 70-3
- (e) CO-ORDINATES: 6222.2'S & 11.109'E of BM 73, 128°15',
65°36'30"
- (f) PERMIT NO: 4382
- (g) DRILLING CONTRACTOR: S&T Drilling Rig IE
Drawworks - National 50A
Mast - Lee C. Moore 131'
Pumps - 2 National K-380
Motors - 750 HP GE
2 Cat D 379 (550 HP)
Blow-out Preventors - 10" 900 series
G.K. Hydril
10" 900 series,
Schaeffer hydraulic Rams
- (h) DRILLING AUTHORITY: 441 granted June 12, 1970

(i) CLASSIFICATION: New Field Wildcat

(j) ELEVATIONS: Ground 382'
KB 395'

(k) SPUDED: 4:46 PM, July 10, 1970

(l) COMPLETED DRILLING: 1:15 AM, August 9, 1970

(m) TOTAL DEPTH: 4863 (Driller) 4863 (Log - Dipmeter)

(n) WELL STATUS: D&A

(o) RIG RELEASED DATE: 12 PM August 12, 1970

(p) HOLE SIZES TO TOTAL DEPTH: 17½" @ 0-90', 12½" @ 90-860,
7 7/8" @ 860-4863

(q) CASING:

Conductor: Ran 3 joints, 13 3/8" 94.4#, J-55 casing and cemented with 67 sacks Portland cement + 8% Calseal with last 30 sacks. Plug down @ 6:00 PM, July 12, 1970. Set @ 90'.

Surface: Ran 23 joints, 8 5/8", 24#, J-55 casing and cemented with 460 sacks Portland cement + 3% CaCl. Plug down @ 6:30 PM, July 16, 1970. Set @ 860'.

SECTION II - GEOLOGICAL SUMMARY

(a) TABLE OF GEOLOGICAL FORMATIONS:

KB Elevation 395'

<u>FORMATION</u>	<u>PROGNOSED DEPTH</u>	<u>SAMPLE DEPTH</u>	<u>E-LOG DEPTH</u>	<u>SUBSEA ELEVATION</u>
Spud In Cret. Sandstone & Shale	0			+382
UPPER DEVONIAN				
Imperial Form.	1126	970	925	-530
Canol Form.	1822	1490	1490	-1095
MIDDLE DEVONIAN				
Kee Scarp Reef	1922	1515	1518	-1123
Kee Scarp "Platform"	2342	1820	1840	-1445
Hare Indian Shale	2486	1930	1930	-1535
Hume Limestone	2928	2428	2431	-2036
LOWER DEVONIAN				
Bear Rock Lst.			2706	-2311
Bear Rock Dolomite	3242	2740	2752	-2357
SILURIAN-ORDOVICIAN				
Ronning Form.	4493	3510	3542	-3147

(b) CORED INTERVALS:

<u>Core No.</u>	<u>Interval</u>	<u>Formation</u>	<u>Recovery</u>
1	1523-1577	Kee Scarp	Full
2	1577-1631	Kee Scarp	Full

(c) CORE DESCRIPTION:

1523-1568: Calcirudite; brown to dark brown, composed of fine grained calcarenite matrix with interstitial black bituminous material; dendroid stromatoporoids 25%, tabular stromatoporoids 10%, bulbous stromatoporoids 5% of rock; corals (Thamnapora, Coenites) rare to common; brachiopods, medium shelled rare. Poor intergranular porosity in matrix. Very poor permeability.

1568-1585: Calcarenite; brown, composed of skeletal debris - elongated poorly sorted, unoriented and rounded fragments probably of dendroid stromatoporoids (no pellets or coalescent pellets). Middle portion of interval 1572-1580 is finer grained (to calcisiltite) with low-amplitude stylolites. Poor intergranular porosity in siltsize matrix. Very poor permeability.

1585-1590: Calcarenite; brown, composed of skeletal debris and bulbous stromatoporoids 30% of rock. Dense, tight.

1590-1593: Calcirudite; brown, composed of fine grained calcarenite matrix and dendroid stromatoporoids 70% of rock. Dense, tight.

1593-1602: Calcarenite; brown, fine grained, composed of fine grained fossil debris, bulbous stromatoporoids 20% of rock and interspersed among vague boudins. Dense, tight.

1602-1607: Calcirudite; brown to light brown, composed of abraded dendroid stromatoporoids 70% of rock in a sparry calcite matrix.

1607-1631: Alternating beds of highly fragmented dendroid stromatoporoids 5%, bulbous stromatoporoids 5% of rock and vague large irregular boudins outlined by short black bituminous partings - contents of boudins grade from buff calcilutite (rare) to pelletoid calcarenite with abraded fragments of amphipora.

CORING TIMES:

Core #1: Bit No. 65740, Size 6 1/8, Drill Pipe 4", Collars 6 1/2, ID 2 5/8, Mud Wt. 9.0, Viscosity 43, WL 6.4, Hole Size 7 7/8", Csg. 8 5/8, Cut J4

<u>Depth</u>	<u>Time</u>	<u>Min/Ft.</u>	<u>Wt. on Bit</u>	<u>Rotary RPM</u>
1524	5:00	15	10	75
1525	5:15	15	10	75
1529	5:25	10	15	100
1527	5:35	10	15	100
1528	5:45	10	15	100
1529	5:55	10	15	100
1530	6:08	13	15	100
1531	6:20	12	15	100
1532	6:33	13	15	100
1533	6:46	13	15	100
1534	7:01	15	15	100
1535	7:15	14	15	100
1536	7:29	14	15	100
1537	7:43	14	15	100
1538	7:57	14	15	100

<u>Depth</u>	<u>Time</u>	<u>Min/Ft.</u>	<u>Wt. on Bit</u>	<u>Rotary RPM</u>
1539	8:08	11	15	100
1540	8:18	10	15	100
1541	8:31	13	15	100
1542	8:44	13	15	100
1543	8:58	14	15	100
1544	9:13	15	15	100
1545	9:27	14	11	100
1546	9:56	16	15	100
1547	10:14	18	15	100
1548	10:33	19	15	100
1549	10:49	16	15	100
1550	11:04	15	15	100
1551	11:19	15	15	100
1552	11:36	17	15	100
1553	11:52	16	15	100
1554	12:06	14	15	100
1555	12:24	18	15	100
1556	12:42	18	15	100
1557	1:00	18	15	100
1558	1:17	17	15	100
1559	1:36	19	15	100
1560	1:54	18	15	100
1561	2:13	19	15	100
1562	2:33	20	15	100
1563	2:55	22	15	100
1564	3:14	19	15	100
1565	3:35	21	15	100
1566	3:53	18	15	100
1567	4:12	19	15	100
1568	4:28	16	15	100
1569	4:47	19	15	100

<u>Depth</u>	<u>Time</u>	<u>Min/Ft.</u>	<u>Wt. on Bit</u>	<u>Rotary RPM</u>
1570	5:05	18	15	100
1571	5:30	25	15	100
1572	5:50	20	15	100
1573	6:10	20	15	100
1574	6:34	24	15	100
1575	6:52	18	15	100
1576	7:08	16	15	100
1577	7:23	15	15	100

Core #2: Bit No. 65740, Type 6 1/8, Cut 54, Rec. 54, Drill Pipe 4,
Collars 6 1/4, ID 2 7/8, Mud Wt 9.0, Vis 43, WL 6.4, Hole Size 7 7/8,
Csg. 8 5/8

<u>Depth</u>	<u>Time</u>	<u>Min/Ft.</u>	<u>Wt. on Bit</u>	<u>Rotary RPM</u>
1578	7:55	10	8	100
1579	8:05	10	8	100
1580	8:15	10	10	100
1581	8:25	10	10	100
1582	8:37	12	10	100
1583	8:48	11	12	100
1584	9:02	14	12	100
1585	9:18	16	12	100
1586	9:34	14	12	100
1587	9:55	19	12	100
1588	10:15	20	12	100
1589	10:30	15	12	100
1590	10:45	15	12	100
1591	11:00	15	12	100
1592	11:17	17	12	100
1593	11:33	16	12	100

<u>Depth</u>	<u>Time</u>	<u>Min/Ft.</u>	<u>Wt. on Bit</u>	<u>Rotary RPM</u>
1594	11:50	17	12	100
1595	12:07	17	12	100
1596	12:24	17	12	100
1597	12:42	18	12	100
1598	1:00	18	12	100
1599	1:22	22	12	100
1600	1:47	25	12	100
1601	2:11	24	12	100
1602	2:32	21	12	100
1603	2:55	23	12	100
1604	3:15	20	12	100
1605	3:34	19	12	100
1606	3:55	21	12	100
1607	4:20	25	12	100
1608	4:42	22	12	100
1609	5:20	17	12	100
1610	5:37	17	12	100
1611	5:55	18	12	100
1612	6:13	18	12	100
1613	6:34	21	12	100
1614	6:53	19	12	100
1615	7:14	21	12	100
1616	7:35	21	12	100
1617	7:55	20	12	100
1618	8:10	15	12	100
1619	8:42	22	12	100
1620	8:53	21	12	100
1621	9:14	21	12	100
1622	9:35	21	12	100
1623	9:58	23	12	100
1624	10:22	24	12	100

<u>Depth</u>	<u>Time</u>	<u>Min/Ft.</u>	<u>Wt. on Bit</u>	<u>Rotary RPM</u>
1625	10:45	23	12	100
1626	11:07	22	12	100
1627	11:30	23	12	100
1628	11:51	21	15	120
1629	12:13	22	15	120
1630	12:33	23	15	120
1631	12:50	25	15	120

(d) SAMPLE DESCRIPTION:

- 0-10 Sandstone, light-medium grey, very fine-fine grained, angular, silty, quartzitic, glauconitic, tight. Sandstone, buff, fine grained, subangular, quartzitic with trace glauconite in part with fair intergranular porosity, minor red to red brown, fine grained silty limonitic stained, sandstone grading to sandy siltstone.
- 10-20 Sandstone, aa
- 20-30 Sandstone, light-medium grey, silty, glauconitic, fine grained, angular. Sandstone, buff, fine grained, sub-angular, porous, grading to brown very fine-fine grained, silty with clay matrix. Minor red ironstone.
- 30-40 aa.
- 40-50 Sandstone, light-medium grey, very fine grained, very silty, slightly argillaceous, glauconitic. Sandstone buff-light brown, very fine-fine grained, slightly silty, quartzitic in part with poor porosity. Minor ironstone, dark red, silty.
- 50-60 Sandstone, light-medium grey aa grading to argillaceous, slightly sandy siltstone and silty shale with minor glauconitic sandstone, buff to light brown aa. Trace red iron oxide staining on sandstone.
- 60-70 Sandstone and shale, light-medium grey aa, glauconitic minor buff and light brown sandstone aa. Minor buff-light brown sandstone. Trace coarse quartz pebbles. Minor platy slightly silty maroon shale.

- 70-80 Sandstone, light grey, fine grained, angular, glauconitic, tight. Shale, medium grey, chunky, micromicaceous, in part silty, in part slightly sandy, with trace pyrite. Trace vitreous, maroon siltstone with minor glauconite.
- 80-90 Shale, medium grey, chunky, in part very silty, slightly sandy, in part micromicaceous. Sandstone, light grey to buff, very fine-fine grained, angular, silty, glauconitic, tight. Minor siltstone, maroon, vitreous, hard, glauconitic.
- 90-100 Shale, medium grey to grey brown, chunky, slightly silty, glauconitic, slightly micromicaceous, in part slightly sandy. Minor ironstone.
- 100-110 Shale and ironstone, aa. Siltstone, light grey, quartzitic with trace glauconite, trace pyrite.
- 110-120 Shale, medium grey, dense, brittle, smooth, chunky in part with clusters of pyrite crystals. Minor ironstone. Siltstone, light grey, glauconitic aa. Minor medium grey, silty, glauconitic shale, aa.
- 120-130 Shale, medium grey, chunky with trace carbonaceous specks, mica. Abundant pyrite crystals in sample.
- 130-140 Shale, aa with abundant clusters of pyrite, in part with silty sandy streaks and minor glauconite. Minor siltstone, light grey, slightly sandy, glauconitic, tight.

- 140-150 Shale, medium grey, soft, platy, fissile.
- 150-160 Shale, aa, slightly waxy in appearance.
- 160-170 Shale, aa with minor ironstone. Clear to light brown loose clusters of calcite crystals, probably forming in fractures.
- 170-180 Shale, light to medium grey, platy fissile, soft.
- 180-190 Shale, aa with minor brown ironstone.
- 190-200 Shale, light medium grey, aa with minor ironstone.
- 200-210 Shale, aa.
- 210-220 Shale, light to medium grey, silty micromicaceous, glauconitic, chunky-platy with minor hard vitreous maroon, silty-stone.
- 220-230 Shale, light-medium grey, chunky, silty, micromicaceous, with minor glauconite, trace pyrite. Sandstone, light grey-buff, vitreous hard, glauconitic tight. Trace ironstone.
- 230-240 Shale, light-medium grey aa, brittle.
- 240-250 Shale aa, minor sandstone, light grey-buff, fine grained, silty, trace porosity, in part glauconitic hard.
- 250-260 Shale, light-medium grey, silty, platy, fissile, micromicaceous, with trace glauconite. Minor sandstone, aa.

- 260-270 Shale, aa but glauconitic, in part soft.
- 270-280 Shale, aa
- 280-290 Shale, light-medium grey, platy, fissile, soft, micromicaceous in part silty, pyritic, hard. Minor ironstone
- 290-300 Shale, light-medium grey, chunky, very silty, in part slightly sandy, glauconitic pyritic with inoceramus prisms.
- 300-310 Shale, light-medium grey, silty, micromicaceous, chunky-platy with minor calcite in fractures. Trace inoceramus prisms. Minor ironstone.
- 310-320 Shale, light-medium grey, chunky-platy, silty, micromicaceous, glauconitic. Trace shale dark grey, fissile, platy, soft.
- 320-330 Shale, light-medium grey, silty aa. Shale, dark grey, platy, fissile, soft az. Minor ironstone.
- 330-340 Shale, light-medium grey, silty, micromicaceous, chunky. Minor ironstone with siderite in fractures
- 340-350 Shale, aa
- 350-360 Shale, aa
- 360-370 Shale, aa
- 370-380 Shale, light-medium grey, chunky, silty, in part sandy, glauconitic, micromicaceous.
- 380-390 Shale, light-medium grey, chunky-platy, silty, micromicaceous, slightly glauconitic.

- 390-400 Shale, light-medium grey, platy, fissile, micromicaceous, in part soft.
- 400-410 Shale, aa but only slightly silty.
- 410-420 Shale, aa in part shale, light-medium grey, silty to sandy, glauconitic, chunky, hard
- 420-430 Shale, light-medium grey, chunky-platy, micromicaceous, in part silty with minor glauconite. Trace ironstone.
- 430-440 Shale, light-medium grey chunky-platy, micromicaceous. Trace ironstone and light grey siltstone.
- 440-450 Shale, aa
- 450-460 Shale, aa
- 460-470 Shale, aa predominantly platy, brittle.
- 470-480 Shale, aa
- 480-490 Shale, light-medium grey, chunky-platy, brittle, slightly micromicaceous, trace pyrite. Minor ironstone.
- 490-500 Shale, light-medium grey, chunky-platy, micromicaceous, in part silty. Siltstone, light grey, argillaceous, slightly sandy, glauconitic, chunky. Minor ironstone.
- 500-510 Shale, light-medium grey, chunky, silty, micromicaceous with trace pyrite, in part slightly sandy.

- 510-520 Shale, aa with trace ironstone.
- 520-530 Shale, light-medium grey, chunky, in part silty, micromicaceous in part, slightly sandy, with minor pyrite.
- 530-540 Shale, medium grey, micromicaceous, chunky, slightly silty.
- 540-550 Shale, light-medium grey chunky, platy, micromicaceous.
- 550-560 Shale, aa with trace pyrite. Minor ironstone with trace siderite in fractures.
- 560-570 Shale, medium grey, platy, fissile, micromicaceous. Minor ironstone.
- 570-580 Shale, light-medium grey, aa with trace pyrite.
- 580-590 Shale, light-medium grey, chunky, silty in part, slightly sandy, micromicaceous. Minor ironstone.
- 590-600 Shale, aa trace coarse calcite crystals.
- 600-610 Shale, light-medium grey, chunky-platy, micromicaceous, in part slightly silty with trace pyrite.
- 610-620 Shale, light-medium grey, chunky, in part silty, micromicaceous with trace pyrite. Trace ironstone.
- 620-630 Shale, aa in part slightly silty with trace sand. Trace dark green, hard, dense silty shale.

- 630-640 Shale, light-medium grey, chunky, platy, micromicaceous. Trace dark greenish grey shale, dense.
- 640-650 Shale, light-medium grey, platy, dense, slightly waxy in appearance, slightly micromicaceous. Minor ironstone with trace calcite in fractures.
- 650-660 Shale, light-medium grey, chunky-platy, micromicaceous. Abundant brown ironstone, in part calcareous.
- 660-670 Shale and ironstone aa.
- 670-680 Shale, light-medium grey aa. Shale, dark grey, chunky, platy, brittle.
- 680-690 Shale, light-medium grey, chunky-platy, micromicaceous, with trace of pyrite, slightly waxy. Trace buff, slightly calcareous, glassy siltstone.
- 690-700 Shale, light-medium grey, chunky-platy, slightly micromicaceous. Minor sandstone, light grey, very fine-fine grained, silty glauconitic.
- 700-710 aa.
- 710-720 Shale, light-medium grey, platy. Minor ironstone, abundant inoceramus prisms, trace fossils. Trace pyrite clusters.
- 720-730 Shale, aa, in part waxy. Minor ironstone, trace pyrite and inoceramus prisms.
- 730-740 Shale, light-medium grey, chunky-platy, brittle in part, slightly waxy with trace siltstone. Trace grey argillaceous lime mud with calcareous specks.

- 740-750 Shale, light-medium grey, chunky, very slightly micromicaceous, brittle in part with trace calcareous material. Trace inoceramus prisms.
- 750-760 Shale, light-medium grey, chunky-platy, micromicaceous in part with fine grained glauconite and floating medium grained quartz grains. Sandstone, light grey, very fine grained, silty quartzitic, dirty, glauconitic, tight.
- 760-770 Shale, light-medium grey, chunky, silty in part, slightly sandy, micromicaceous, in part slightly glauconitic.
- 770-780 Shale, aa with minor pyrite.
- 780-790 Shale, aa with minor pyrite. Minor sandstone, light grey, very fine grained, glauconitic, silty with slight salt and pepper aspect, micromicaceous in part with shale partings. Trace pyritized wood fragment.
- 790-800 Shale and sandstone aa with trace ironstone.
- 800-810 Shale, light-medium grey, chunky-platy, micromicaceous, slightly silty, in part glauconitic with trace pyrite.
- 810-820 Shale, medium grey chunky, micromicaceous, very silty in part, slightly sandy. Siltstone, brown-grey brown, sandy, micromicaceous, calcareous with shale partings.
- 820-830 Shale, light-medium grey, chunky, silty with sandy streaks, micromicaceous, with minor pyrite and glauconite.
- 830-840 Shale, aa

840-850 Shale, light-medium grey, silty aa with trace brown, soft fissile, dense shale. Minor pyrite and ironstone.

850-860 Shale, light-medium grey, chunky-platy, slightly silty, micromicaceous with trace glauconite and pyrite.

1st sample below casing

860-870 Shale, aa but no glauconite.

870-880 Shale, medium-dark grey, platy, slightly silty, micromicaceous.

880-890 Shale, aa with sandstone, light grey, fine grained quartzitic, 30% cement in sample.

890-900 Shale, aa sandstone, light-medium grey, very fine-fine grained, silty, in part salt and pepper, in part glauconitic. Abundant cement.

900-910 Aa. Poor sample abundant cement.

910-920 Shale and sandstone aa, poor sample abundant cement.

920-930 Shale, medium-dark grey, platy, in part slightly silty, micromicaceous. Sandstone, buff very fine grained, silty chalky, soft, with slightly salt and pepper aspect.

930-940 Shale, light-medium grey, chunky-platy, very silty, in part slightly waxy, micromicaceous. Minor dark grey, platy, fissile brittle shale. Sandstone, buff-very fine grained, silty, argillaceous, brittle with salt and pepper aspect.

- 940-950 Sandstone, light grey, very fine-fine grained, very silty brittle, with slight salt and pepper aspect, trace glauconite, micromicaceous, very slightly calcareous, tight.
- 950-960 Sandstone, light grey, very fine-fine grained, angular, salt and pepper, poorly sorted very silty, very slightly calcareous, brittle, tight. Interbedded medium grey, silty in part, sandy, micromicaceous, shale.
- 960-970 Sandstone, light grey-buff, very fine-fine grained, angular with slight salt and pepper aspect, micromicaceous, tight, with clay matrix tight. Shale, medium grey, chunky-platy, fissile, micromicaceous with black carbonaceous partings.
- UPPER DEVONIAN-Imperial Formation - 970' (Log 925')
- 970-980 Sandstone and shale aa, sand has minor black carbonaceous specks.
- 980-990 Sandstone, aa, but very fine grained. Shale, aa, in part silty. Minor brown platy, silty shale. Trace ironstone.
- 990-1000 Shale, aa but very silty with minor sandstone, aa.
- 1000-1010 Shale, medium grey, chunky-platy, in part silty micromicaceous. Trace brown siltstone.
- 1010-1020 Shale, medium grey, chunky-platy, micaceous, silty aa, with minor interbeds of sandstone, light grey, very fine-fine grained, micaceous with clay cement.
- 1020-1030 Shale, aa, but less silty, in part slightly silty with interbedded light grey, micaceous siltstone with slight salt and pepper aspect.

- 1030-1040 Shale, light-medium grey, micromicaceous, silty, chunky-platy, in part with sandy streaks. Minor ironstone.
- 1040-1050 Shale, aa with minor sandstone - light grey, very fine-fine grained, silty micaceous with minor bituminous partings. Minor brown ironstone.
- 1050-1060 Shale and sandstone, aa, very micaceous. Sandstone varies from light grey-buff. Minor ironstone.
- 1060-1070 Shale and sandstone, aa, with minor light grey brown argillaceous in part, slightly sandy, siltstone.
- 1070-1080 Shale, medium grey, chunky-platy, silty-sandy, micromicaceous with minor sandstone streaks, light grey salt and pepper, very fine silty.
- 1080-1090 Shale and sandstone aa.
- 1090-1100 Shale, medium grey, chunky-platy, micromicaceous, silty with minor sandy streaks aa. Trace brown silty shale.
- 1100-1110 Shale, aa with minor brown argillaceous siltstone.
- 1110-1120 Shale and brown siltstone aa.
- 1120-1130 Shale, light-medium grey, chunky, micromicaceous, silty with minor brown siltstone.
- 1130-1140 Shale, aa with sandy streaks. Trace brown siltstone.

- 1140-1150 Shale, medium grey, chunky, micromicaceous.
- 1150-1160 Shale, light-medium grey, chunky-platy, silty, micromicaceous. Minor brown, very slightly calcareous siltstone.
- 1160-1170 Shale, aa with trace brown siltstone.
- 1170-1180 Shale, aa, but only slightly silty.
- 1180-1190 Shale, light-medium grey, chunky-platy, micromicaceous, in part silty, with trace carbonaceous partings, in part slightly waxy in appearance.
- 1190-1200 Shale, aa with minor siltstone, light grey, micromicaceous.
- 1200-1210 Shale, and siltstone aa, trace ironstone.
- 1210-1220 Shale, light-medium grey chunky-platy, in part slightly waxy. Minor sandstone, light grey micromicaceous, very fine grained. Trace ironstone.
- 1220-1230 Shale, aa.
- 1230-1240 Shale, aa with minor light grey, very fine-fine grained sandstone aa. Minor brown siltstone.
- 1240-1250 Shale, aa, in part waxy.
- 1250-1260 Shale, light-medium grey, micromicaceous, chunky, platy, silty. Minor grey brown, argillaceous siltstone with very fine grained sandy streaks.

- 1260-1270 Shale, light grey-grey brown and medium grey aa with minor brown siltstone.
- 1270-1280 Siltstone, light grey-grey brown, sandy, micromicaceous. Shale, light grey-grey brown, silty, micromicaceous, platy, fissile.
- 1280-1290 Siltstone, light grey brown, sandy, micromicaceous, with slight salt and pepper aspect. Shale, light grey brown-medium grey, silty, micromicaceous. Minor dark grey, dense, fissile, platy, shale.
- 1290-1300 Siltstone, aa, fissile. Shale, medium grey-grey brown, fissile, slightly micromicaceous, chunky, in part platy. Trace brown ironstone.
- 1300-1310 Siltstone and shale aa
- 1310-1320 Siltstone and shale aa, light-medium grey to grey brown, in part buff with minor dark grey, dense, platy, fissile shale. Trace brown ironstone.
- 1320-1330 Shale, medium-dark grey, chunky-platy, silty, micromicaceous. Trace brown siltstone, ironstone.
- 1330-1340 Shale, aa with minor brown siltstone. Trace ironstone.
- 1340-1350 Siltstone, light-medium grey, sandy with trace glauconite. Shale partings, micromicaceous. Interbedded light-medium grey silty, micromicaceous, silty shale with minor carbonaceous specks.

- 1350-1360 Shale, light-medium grey, chunky-platy, silty, micromicaceous. Shale, light brown, dense, fissile, very silty.
- 1360-1370 Sandstone, light grey, very fine-fine grained, very silty, tight with slight salt and pepper aspect, micaceous with carbonaceous partings. Minor coal, black brittle with pyrite clusters and white calcite crystals. Coal interbedded with dark grey, pyritic, brittle, siltstone.
- 1370-1380 Sandstone, light grey-grey brown aa with carbonaceous partings. Shale, light-medium grey, platy, in part silty, slightly micromicaceous. Trace brown ironstone.
- 1380-1390 Shale, medium grey, micromicaceous, chunky, platy, fissile with carbonaceous partings. Minor sandstone light grey, very fine grained angular, quartzitic, very silty, micaceous with clay cement, carbonaceous specks and partings. Minor brown silty shale grading to argillaceous siltstone.
- 1390-1400 Carbonaceous shale and sandstone aa with minor brown ironstone.
- 1400-1410 Shale, light-medium grey, chunky-platy, micromicaceous, slightly silty. Minor brown chunky dense siltstone.
- 1410-1420 Shale, medium grey-brownish grey, platy, slightly micromicaceous, slightly silty, in part waxy in appearance.
- 1420-1430 Shale and light brown siltstone aa.

1430-1440 Shale, light brown-medium grey, silty, micromicaceous, chunky-platy. Siltstone, light brown, fissile, argillaceous.

1440-1450 Shale, aa with trace light brown siltstone.

1450-1460 Shale and siltstone aa with trace calcite in fractures.

1460-1470 Silty shale and siltstone aa.

1470-1480 Silty shale and light brown siltstone aa.

CANOL FORMATION - 1480' (Log 1490')

1480-1490 Shale, medium-dark grey, fissile, chunky-platy, slightly bituminous.

1490-1500 Shale, dark grey, chunky-platy, bituminous.

1500-1510 Shale, aa.

MIDDLE DEVONIAN - Kee Scarp Formation - 1515' (Log 1518).

1510-1520 Shale, aa and limestone at 1515 buff, chalky calcisiltite with scattered very fine-fine skeletal grains. Abundant white crystalline strom fragments. Poor chalky porosity in calcisiltite. No visible effective porosity. Trace live oil stain. Poor fluorescence in chloroethene. Drilling break from 1 minute/foot to 3 to 4 minutes/foot at top of reef.

Cored 1523-1631 - See Core Description

- 1631-1640 Limestone, buff-white chalky, in part crystalline, glassy bioclastic, consisting of large broken stromatoporoid fragments in a silty, medium grained skeletal ground mass cemented with spar calcite. Poor chalky porosity. In part brown-medium grey-brown, dense lime mud with silty-very fine grains. Trace solitary corals. Trace of live oil stain.
- 1640-1650 Limestone, buff-white, chalky aa. Minor medium grey-grey brown bioclastic calcisiltite. Poor chalky porosity.
- 1650-1660 Limestone, buff-white, chalky stromatoporoid fragments in a brown, silt-fine grained ground mass cemented with spar calcite and minor amount of lime mud. Minor black bituminous infill of original porosity.
- 1660-1670 Limestone, light brown-grey brown, dense, microcrystalline in part, buff-white, chalky, fine crystalline (Strom fragments?). Limestone, dark grey to brown, dense, slightly argillaceous, trace black bituminous residue.
- 1670-1680 Limestone, buff, chalky, dense, grading to medium grey to grey brown, dense, micromcrystalline, slightly bituminous in part with trace crinoids and very fine grains.
- 1680-1690 Limestone, dark grey to grey brown, argillaceous with trace bituminous material, in part with buff chalky patches. Limestone, buff-white, chalky-fine crystalline.
- 1690-1700 Limestone, buff-white, chalky-fine crystalline, dense, aa. Limestone, medium grey to grey brown, dense, microcrystalline.

- 1700-1710 Limestone, buff-white chalky-fine crystalline, dense aa. Trace stroms. Trace bituminous residue. Limestone dark brownish grey, slightly argillaceous with silt size grains and trace of strom fragments. Poor chalky porosity.
- 1710-1720 Limestone, medium grey to grey brown, dense microcrystalline, very slightly argillaceous grading to buff to tan chalky-fine crystalline.
- 1720-1730 Limestone aa with black bituminous (?) residue in chalky fraction.
- 1730-1740 Limestone, brown chalky calcisilitite with abundant buff-white coarse translucent stromatoporoid fragments. Limestone, buff-white dense chalky-crystalline (Stroms?) Minor limestone, brown, dense microcrystalline.
- 1740-1750 Limestone, medium grey brown-dark brown, dense, calcisilitite with buff-white chalky-translucent stromatoporoid fragments. Minor, black bituminous patches.
- 1750-1760 Limestone, dark brown-brown dense micro-very fine crystalline, with black bituminous (?) patches and minor brown translucent strom fragments. Abundant buff-white chalky-fine crystalline limestone. Trace clear calcite in fractures.
- 1760-1770 Shale, black chunky, very calcareous. Limestone, light grey-brownish grey, argillaceous with chalky white mottling. Limestone, buff-white chalky-crystalline aa with strom frags. (Cavings ?).

- 1770-1780 Shale, black, calcareous aa. Limestone, dark brown, dense, microcrystalline with white chalky patches.
- 1780-1790 Limestone, light grey-grey brown, calcisiltite with white chalky patches with skeletal (Stroms ?) fragments, in part argillaceous.
- 1790-1800 Limestone, brown-grey brown aa, with abundant skeletal grains and buff-white amph or strom fragments. Abundant separate buff-white chalky-crystalline fragments, probably stroms or amphipora.
- 1800-1810 Limestone, light grey-brownish grey, calcisiltite in part, slightly argillaceous with abundant amphipora fragments and scattered skeletal grains. Minor black calcareous shale.
- 1810-1820 Limestone, grey brown, very fine crystalline, slightly argillaceous with chalky white patches and traces of amph strom fragments. Abundant white chalky-buff crystalline, discrete strom fragments aa (May be cavings). Minor black bituminous stylolites.
- 1820-1830 Limestone, dark grey brown, argillaceous, slightly dolomitic with white skeletal fragments. Minor dark grey, calcareous shale. Minor limestone, brown, dense, microcrystalline. Abundant discrete, white chalky strom fragments aa (Cavings?). Live oil stain.

- 1830-1840 Limestone, dark brown-grey brown, dense, slightly dolomitic, slightly argillaceous lime mud with scattered fine grains. Trace amph or stroms, trace crinoids. Limestone, dark grey-brownish grey, argillaceous, dense, dolomitic with scattered white chalky angular grains. Abundant coarse buff-white strom or amph fragments in dark argillaceous limestone matrix aa. Minor black slightly dolomitic, calcareous shale. Live oil stain.
- 1840-1850 Limestone, brown-dark grey brown, slightly dolomitic, very fine crystalline-microcrystalline dense, in part slightly argillaceous with chalky patches, traces of strom or amph fragments. Trace black bituminous residue on strom fragments. Limestone, brownish grey-medium grey, argillaceous dense, dolomitic in part with skeletal grains, slightly bituminous. Trace live oil stain.
- 1850-1860 Limestone, dark brownish grey-dark grey with white chalky mottling, very argillaceous, slightly dolomitic with scattered grains, bituminous. Minor brown dense microcrystalline limestone. Heavy petroliferous odour. Good live oil stain. Poor porosity. Abundant strom fragments.
- 1860-1870 Limestone, light brown in part chalky, slightly dolomitic, slightly argillaceous fine grained bioclastic lime mud with tan-white crystalline strom or amph fragments. Limestone, dark grey-grey brown dolomitic argillaceous, bituminous with skeletal grains and amph or strom fragments. Poor chalky porosity with faint oil cut.

- 1870-1880 Limestone, light brown-brownish grey, slightly argillaceous, slightly dolomitic, calcisillite with scattered grains and white amph or strom fragments, in part with black bituminous residue. Faint oil cut.
- 1880-1890 Limestone, light brown to light grey, dense, microcrystalline. In part light brown-brownish grey, slightly argillaceous, slightly dolomitic with scattered grains and amph or strom fragments aa.
- 1890-1900 Limestone, light brown-brownish grey, very slightly dolomitic, microcrystalline lime mud with scattered coral and strom (?) fragments. Limestone, dark grey, argillaceous calcisillite, slightly dolomitic with black patchy bituminous residue, trace stroms (?) in part with chalky silty-fine grains. Faint oil cut.
- 1900-1910 Limestone, aa with heavy black, dead oil, bituminous residue.
- 1910-1920 Limestone, minor brown, slightly dolomitic, bioclastic, chalky lime mud. Shale, dark grey-black, calcareous, bituminous, silty in part with trace bioclastic material.
- 1920-1930 Shale, medium grey-black, chunky, in part silty, micromicaceous, slightly calcareous. Trace pyrite. Limestone, tan-light brown, chalky, in part dense microcrystalline.
- HARE INDIAN FORMATION - 1930' (Log 1930')
- 1930-1940 Shale, dark grey-brownish grey, slightly calcareous, platy, silty, micromicaceous, bituminous. Siltstone, light-medium grey, calcareous, micromicaceous.

- 1940-1950 Shale, dark brown-grey brown, chunky fissile, very silty, calcareous, argillaceous, micromicaceous.
- 1950-1960 Shale, aa. Siltstone, light grey, calcareous, micromicaceous, pyritic. Minor dark brown, argillaceous lime mud with scattered fine grains.
- 1960-1970 Limestone, light-medium brown, dense, dolomitic with scattered chalky white fine-medium grains. Minor black bituminous micromicaceous silty shale.
- 1970-1980 Shale, brown-brownish grey, silty dolomite, calcareous, slightly micromicaceous. Limestone, light grey brownish grey, dense microcrystalline with minor pyrite.
- 1980-1990 Limestone, light grey-grey brown microcrystalline, dense aa. Shale, dark brown, dolomitic, micromicaceous, chunky. Slightly silty, in part bituminous.
- 1990-2000 Limestone, light grey, microcrystalline, dense grading to cream chalky. Minor shale, medium to dark brownish grey, dolomitic, silty, micromicaceous.
- 2000-2010 Limestone, light grey-grey brown, dense very dolomitic, slightly silty, in part dark brown, slightly argillaceous, brittle.
- 2010-2020 Shale, medium grey-grey brown, silty, slightly dolomitic, slightly calcareous with interbeds of platy cream-light grey, chalky-dense microcrystalline limestone with trace mica. (Grades from a shaly carbonate to limy dolomitic shale).

- 2020-2030 Shale, light grey-brownish grey, micaceous, dolomitic, calcareous, chunky, hard.
- 2030-2040 Shale, aa with light grey, silty pyritic shale.
- 2040-2050 Shale, medium grey-brownish grey, chunky with fair poor fissility, micromicaceous, calcareous. In part light grey, dense, micromicaceous, calcareous, dolomitic.
- 2050-2060 Shale, medium grey, brownish grey, micromicaceous with trace pyrite, calcareous, dolomitic, in part light grey, dense, platy, hard, silty.
- 2060-2070 Shale, aa.
- 2070-2080 Shale, medium grey-brownish grey, slightly silty, calcareous, micromicaceous with ostracods. Minor light grey brown, dense, microcrystalline limestone.
- 2080-2090 Limestone, light grey, dense, microcrystalline, dolomitic, argillaceous with black specks, trace ostracods. Minor shale, dark brownish grey, chunky, dolomitic, slightly bituminous, very calcareous, with trace mica.
- 2090-2100 Limestone, light grey, argillaceous with ostracods aa.
Shale, dark brownish grey aa.
- 2100-2110 Limestone, light grey, dolomitic shaly aa.
- 2110-2120 Shale, medium grey, chunky-platy, brittle, calcareous, slightly dolomitic with trace ostracods and black spheres (ostracods).

- 2120-2130 Limestone, light-medium brownish grey, dense, chunky-platy, shaly,, microcrystalline with ostracods.
- 2130-2140 Shale, medium brownish grey-dark grey, very calcareous, chunky-platy, hard, brittle with ostracods, trace of pyrite.
- 2140-2150 Shale, aa with abundant dark brown spheres (Ostracods ?).
- 2150-2160 Shale, aa with ostracods and tiny black bituminous ? Specks.
- 2160-2170 Shale, aa, but darker brownish grey, dolomitic.
- 2170-2180 Shale, medium-dark brownish grey, calcareous, chunky-platy, slightly micromicaceous, in part bituminous.
- 2180-2190 Shale, medium-dark brownish grey, dense, platy, calcareous, with ostracods, slightly dolomitic.
- 2190-2200 Shale, aa, chunky-platy, slightly bituminous with ostracods.
- 2200-2210 Shale, aa with minor white chalky limestone streaks with iron oxide coated micro-fossils.
- 2210-2220 Shale, medium grey-brownish grey, calcareous, platy in part, cream chalky with black carbonaceous (?) spheres.

- 2220-2230 Shale, aa with black carbonaceous ? spheres and trace of ostracods.
- 2230-2240 Shale, aa grading to dark grey, bituminous with trace ostracods, slightly calcareous.
- 2240-2250 Shale, medium brownish grey-dark grey aa.
- 2250-2260 Shale, medium grey-dark grey, chunky-platy, fissile, in part bituminous. Darker fraction less calcareous, bituminous.
- 2260-2270 Shale, medium-dark grey aa, bituminous. Trace pyrite.
- 2270-2280 Shale, medium brownish grey, calcareous, soft-brittle fissile. Shale, dark grey, very fissile platy, bituminous, very slightly calcareous.
- 2280-2290 Shale, medium grey and dark grey shale aa with minor black spherical micro-fossils (?).
- 2290-2300 Shale, aa with abundant black spherical micro-fossils (?).
- 2300-2310 Shale, predominantly light brownish grey to medium grey, platy, slightly calcareous, with round flat black carbonaceous plates, ranging to medium grained in size.
- 2310-2320 Shale, light-medium grey, dense, platy, waxy, non-calcareous with black round "plates" aa.
- 2320-2330 Shale, aa.

- 2330-2340 Shale, light-medium brownish grey aa, but calcareous in part.
- 2340-2350 Shale, aa with minor microcrystalline, shaly limestone streaks with trace black round plates aa.
- 2350-2360 Shale, aa. Shale, medium brown-grey brown, bituminous, calcareous with black round plates, very fissile, chunky-platy.
- 2360-2370 Light-medium grey, platy, fissile, calcareous, with black round "plates". Minor shale, dark grey, bituminous, very slightly calcareous, dense, fissile.
- 2370-2380 Shale, light-medium brownish grey, fissile, very calcareous.
- 2380-2390 Shale, aa with trace limestone, light grey, dense in part tan chalky, shaly.
- 2390-2400 Shale, medium-dark grey, in part black, platy, very slightly calcareous, bituminous, very fissile.
- 2400-2410 Shale, aa in part light grey with black carbonaceous plates, slightly calcareous.
- 2410-2420 Shale, dark grey-brownish grey, platy bituminous, slightly waxy with black round "plates" aa, in part with chalky white calcareous blebs.

HUME FORMATION - 2428' (Log 2431').

- 2420-2430 Shale, aa grading to black. Limestone, light grey, dense, microcrystalline with minor black plates aa, trace ostracods, trace pyrite. Minor white calcite in fractures.
- 2430-2440 Limestone, light brown-light grey in part cream, chalky, microcrystalline lime mud, dense.
- 2440-2450 Limestone, light brown-light grey dense, in part bioclastic with fine grains in lime mud matrix, in part cream, chalky with trace grains. Trace brachiopods.
- 2450-2460 Limestone, medium brown, dense, microcrystalline, in part slightly argillaceous grading to light grey to cream chalky with minor ostracods. Minor shale, light grey, dense, waxy with black, round, fine-grained "plates".
- 2460-2470 Limestone, light brown-light grey, dense, microcrystalline with darker coloured shaly intercalations.
- 2470-2480 Limestone, light-medium brown, dense, microcrystalline with trace pyrite, scattered ostracods, in part chalky, cream with minor pyrite. Interbedded light grey and minor dark brown, dense, platy, limy shale.
- 2480-2490 Limestone, tan-medium brown, microcrystalline, dense, slightly dolomitic with trace pyrite, trace ostracods, calcite in fractures with dark brown, shaly, intercalations. Interbedded light grey, dense, microcrystalline limestone, pyritic with cream, chalky patches, in part shaly, with ostracods.

- 2490-2500 Limestone, medium brown to brownish grey, dense, microcrystalline lime mud with trace pyrite, slightly argillaceous with trace calcispheres, minor shaly streaks.
- 2500-2510 Limestone, light grey brown-medium brown, dense lime mud, slightly argillaceous, very slightly dolomitic with trace grains, trace ostracods.
- 2510-2520 Limestone, aa in part chalky with dark grey shale partings.
- 2520-2530 Limestone, aa with trace brachiopods, ostracods.
- 2530-2540 Limestone, light-medium brown, in part cream chalky, microcrystalline, dense with ostracods, calcite in fractures.
- 2540-2550 Limestone, light-medium brown, in part cream chalky, dense aa with dark brown-black, bituminous shale intercalations.
- 2550-2560 Limestone, aa
- 2560-2570 Limestone, dense, brown lime mud aa, with dark brown-black shale intercalations. Trace brachiopod fragments.
- 2570-2580 Limestone, medium brown-brownish grey, argillaceous, slightly dolomitic, with interbedded light grey, in part cream chalky, microcrystalline, slightly dolomitic limestone.
- 2580-2590 Limestone, light-medium brown, slightly dolomitic in part shaly lime mud.

- 2590-2600 Limestone, aa grading to brownish grey with shale streaks.
- 2600-2610 Limestone, medium brown-brownish grey, in part cream chalky, dense, lime mud with trace ostracods.
- 2610-2620 Limestone, aa with dark grey-black shale intercalations.
- 2620-2630 Limestone and shale aa.
- 2630-2640 Limestone, medium brown-light grey, dense, lime mud in part with trace grains and shell fragments, slightly argillaceous.
- 2640-2650 Limestone, light brown to light grey, dense, lime mud, argillaceous in part, with minor bioclastic material, calcispheres, trace pyrite.
- 2650-2660 Limestone, brown-brownish grey, slightly dolomitic, slightly argillaceous, dense, with minor bioclastic material, trace ostracods, pyrite.
- 2660-2670 Limestone, minor limestone aa grading to a light grey, dense somewhat waxy, platy limestone, shaly, with trace pyrite, trace ostracods.
- 2670-2680 Limestone, light brown-brownish grey lime mud with calcispheres, ostracods in part, pyritic, trace conodonts (?). Calcite in fractures.
- 2680-2690 Limestone, aa grading downward to tan very fine crystalline, chalky dolomitic.

2690-2700 Limestone, brownish grey, dense lime mud with interbedded light grey, calcareous shale with disseminated pyrite.

LOWER DEVONIAN BEAR ROCK FORMATION - (Log 2706')

2700-2710 Limestone, brown, dense, very hard lime mud with pyrite with trace micro-fossils (?), in part with brown shale intercalations, in part cream chalky, interbedded light grey, very fine-mircocrystalline limestone, with rare grains, pyritic.

2710-2720 Limestone, brown-brownish grey, in part cream chalky, dense to crystalline in part, pelleted, with trace ostracods, trace pyrite, very hard.

2720-2730 Limestone, dark brown, fine-medium grained, pelleted (?), and ostracod lime sand in chalky, crystalline-dense lime mud matrix, with interbedded, dense, dark brown, very argillaceous, slightly bituminous.

2730-2740 Limestone, medium-dark brown-brownish grey, argillaceous, dense, microcrystalline, slightly dolomitic, very hard.

2740-2750 Dolomite, medium brown-dark brown-brownish grey, somewhat platy, limy, very fine crystalline.

BEAR ROCK DOLOMITE - 2740' (Log 2752').

2750-2760 Dolomite, dark-medium brown, very fine-fine crystalline with trace scattered, pin-point porosity. (Drilling break 3 to 4 minutes/foot). Very faint questionable oil stain. Slightly calcareous.

- 2760-2770 Dolomite, medium to dark brown, fine-medium crystalline, rhombic, slightly calcareous with fair scattered inter-crystalline and pin-point porosity. Faint questionable oil stain.
- 2770-2780 Dolomite, light-medium brown, very fine crystalline, dense, with trace poor pin-point porosity. No cut. In part with black dead oil residue with pin-point vugs.
- 2780-2790 Dolomite, light brown, fine-medium crystalline appears granular, generally dense interlocking with scattered patches of very poor pin-point porosity. Vugs have black bituminous residue, and do not for the most part appear to be connected. Water will stay on surface of most grains, even where pin-point vugs are visible. The odd grain will exhibit a faint questionable stain.
- 2799-2800 Dolomite, medium brown-greyish brown, very fine crystalline, dense, slightly, calcareous with poor scattered vuggy porosity. Trace bituminous residue lining vugs. Minor fine-medium crystalline "granular" looking dolomite aa, with trace inter-crystalline porosity. No stain.
- 2800-2810 Dolomite, medium brown, very fine crystalline with patches of fine crystalline heavily oil stained dolomite with good live cut. Fair scattered, pin-point, vuggy porosity with indications of larger vugs.
- 2810-2820 Dolomite, medium-dark brown, microcrystalline-very fine crystalline, with streaks of fine crystalline, rhombic dolomite with poor to fair intercrystalline porosity and scattered vuggy porosity. Good oil stain with milky live cut.

- 2820-2830 Dolomite, brown, fine crystalline, interlocking with trace pin-point porosity, fair oil stain.
- 2830-2840 Dolomite, light brown-light grey, dense, micro-very fine crystalline, slightly argillaceous, very calcareous.
- 2840-2850 Dolomite, light brown-grey brown, very fine crystalline, argillaceous, calcareous, with trace grains, trace chalky porosity.
- 2850-2860 Dolomite, medium brown, resinous, glassy, with poor scattered pin-point and vuggy porosity, very fine-fine crystalline.
- 2860-2870 Dolomite, aa with trace pyrite, poor porosity. Dolomite, light-medium grey, dense, microcrystalline with fine crystalline patches, slightly calcareous with white calcite in fractures.
- 2970-2880 Dolomite, light brown-grey brown, dense, microcrystalline, fractured with fine-medium crystalline patches, traces vuggy porosity.
- 2880-2890 Medium brownish grey-medium brown, dense, micro-very fine crystalline, slightly calcareous.
- 2890-2900 Dolomite, aa with interbedded cream chalky microcrystalline, slightly limy dolomite with patchy grey mottling.
- 2900-2910 Dolomite, medium brownish grey-brown, dense, microcrystalline, argillaceous with patchy white anhydritic mottling. Minor dolomite aa with white anhydritic patches.

- 2910-2920 Dolomite, medium grey-brownish grey, shaly pyritic, dense. Minor grey green pyritic shale. Minor tan, translucent anhydrite.
- 2920-2930 Anhydrite, tan, translucent, in part chalky cream, dense and dolomite, tan, dense, microcrystalline, anhydritic.
- 2930-2940 Dolomite, medium grey-brown, medium grey, dense, very fine-fine crystalline, with white anhydrite blebs.
- 2940-2950 Dolomite, medium-dark brown, dense, micro-very fine crystalline, argillaceous, platy with trace grains.
- 2950-2960 Dolomite, dark grey-grey brown, dense, brecciated with trace glassy, tan, anhydrite.
- 2960-2970 Dolomite, aa. Dolomite, tan-grey brown, dense, very fine crystalline with minor pin-point vugs.
- 2970-2980 Dolomite, tan, dense, translucent with minor chalky, white anhydrite.
- 2980-2990 Anhydrite, tan-light grey in part white, dense, translucent.
- 2990-3000 Anhydrite, aa.
- 3000-3010 Tan-light grey, dense, anhydrite aa, in part dolomitic. Minor grey anhydritic, pyritic shale.
- 3010-3020 Dolomite, tan-brownish grey, very fine-fine crystalline with scattered, poor intercrystalline "blind" porosity, very small vugs with black bituminous.

- 3020-3030 Dolomite, medium-dark brown, very fine-fine crystalline, dense, slightly argillaceous with trace pin-point vugs, black with bitumen lined stylolites with faint stain. Trace greenish grey shale.
- 3030-3040 Dolomite, brown-very fine-fine crystalline, dense, with trace pin-point vugs, slightly calcareous. Minor tan and grey dense, glassy anhydrite (Cavings ?).
- 3040-3050 Dolomite, tan-medium brown, dense, microcrystalline, in part silic, stylolitic with interbedded dolomite, dark brown-brownish grey, very fine crystalline, dense, argillaceous with faint bituminous residue.
- 3050-3060 Anhydrite, tan and light grey, translucent, dense, in part dolomitic. Minor medium grey, chunky, brittle shale (cavings ?).
- 3060-3070 Anhydrite, tan and light grey, dolomitic aa. Minor medium grey, pyritic shale.
- 3070-3080 Anhydrite, in part tan, glassy, in part white chalky, dolomitic.
- 3080-3090 Anhydrite, aa with minor interbedded, medium grey, dense, brittle shale.
- 3090-3100 Dolomite, tan, very fine crystalline, dense, brittle, with anhydrite aa and dense, blue grey anhydritic shale.
- 3100-3110 Dolomite and anhydrite, with grey shale intercalations aa.

- 3110-3120 Anhydrite, tan, dolomitic. Anhydrite, light grey, slightly argillaceous.
- 3120-3130 Anhydrite, aa with stringers of buff, fine crystalline, dense, dolomite.
- 3130-3140 Anhydrite, aa.
- 3140-3150 Dolomite, tan-buff, very fine crystalline, chalky with brown anhydrite, dense, grading to light grey with cream mottling, slightly shaly, anhydritic. Minor anhydrite aa.
- 3150-3160 Anhydrite, tan, dense, glassy, in part dolomitic, with light grey anhydrite with medium grey shale intercalations.
- 3160-3170 Dolomite, cream-medium brown, very fine crystalline, dense, with white blebs of anhydrite.
- 3170-3180 Anhydrite, tan-cream, glassy in part chalky. Anhydrite, light grey, in part shaly.
- 3180-3190 Anhydrite, aa with minor dolomite tan, very fine-fine crystalline, dense, hard.
- 3190-3200 Dolomite, tan, fine crystalline, dense with minor anhydrite aa.
- 3200-3210 Anhydrite, tan, translucent, dense. Anhydrite, light grey, clear in part, shaly with medium-dark grey shale intercalations. Minor tan fine crystalline dolomite.
- 3210-3220 Anhydrite, dark brown, glassy and medium grey, anhydritic, platy shale.

- 3220-3230 Anhydrite, tan-white, dense, slightly dolomitic, in part with trace medium grey shale.
- 3230-3240 Anhydrite, medium brown, dolomitic. Anhydrite, light grey, shaly.
- 3240-3250 Anhydrite, dark brown, glassy, slightly dolomitic.
- 3250-3260 Anhydrite, tan-dark brown, platy, dense, glassy.
- 3260-3270 Anhydrite, tan, dolomitic, glassy, and light grey, dense, in part argillaceous.
- 3270-3280 Dolomite, tan, very fine-fine crystalline, dense, with interbedded anhydrite aa.
- 3280-3290 Dolomite, tan, very fine-fine crystalline, anhydritic with interbedded tan-white chalky-crystalline anhydrite.
- 3290-3300 Dolomite, tan, very fine crystalline, dense with dark grey shale streaks.
- 3300-3310 Anhydrite, white crystalline.
- 3310-3320 Dolomite, medium brown, very fine-fine crystalline, argillaceous, with trace grains, dense, slightly calcareous.
- 3320-3330 Dolomite, tan, micro-very fine crystalline, in part medium grey brown, dense.
- 3330-3340 Dolomite, tan, very fine-fine crystalline, dense with white anhydrite blebs. Interbedded dolomite, medium brown, very fine crystalline, anhydritic with medium grey shale intercalations.

- 3340-3350 Dolomite, tan, very fine-fine crystalline, dense, in part with black bituminous mottling, slightly calcareous, slightly argillaceous, slightly silty.
- 3350-3360 Dolomite, light brown, very fine crystalline, dense with black stylolites, minor dark grey, argillaceous streaks, slightly calcareous, argillaceous, slightly silty.
- 3360-3370 Dolomite, light grey brown, very fine crystalline, dense, platy, argillaceous, slightly silty, calcareous, in part slightly shale.
- 3370-3380 Dolomite, aa, in part fine crystalline, clastic looking, with trace pin-point vugs.
- 3380-3390 Anhydrite, tan, glassy, in part light grey, argillaceous, shaly.
- 3390-3400 Anhydrite, aa with medium brown, very fine crystalline, argillaceous dolomite.
- 3400-3410 Dolomite, light brown, very fine crystalline, dense, slightly argillaceous, stylolitic, limy.
- 3410-3420 Dolomite, light grey brown, very fine-fine crystalline, argillaceous, platy, with dark grey shale intercalations.
- 3420-3430 Anhydrite, tan to light grey, dense, glassy, in part shaly.
- 3430-3440 Dolomite, tan-cream, very fine crystalline with grey, clastic, calcareous grains, fine-medium grained, slightly argillaceous.
- 3440-3450 Anhydrite, tan, dense, dolomitic in part, medium grey, shaly.

- 3450-3460 Dolomite, tan-medium brown, very fine-fine crystalline in part with fine-medium grains, calcareous, slightly argillaceous.
- 3460-3470 Anhydrite, tan to light grey, dense, resinous, in part shaly.
- 3470-3480 Anhydrite, aa.
- 3480-3490 Anhydrite, aa.
- 3490-3500 Anhydrite, tan and light grey, in part dolomitic.
- 3500-3510 Dolomite, tan, very fine-fine crystalline, dense with minor anhydrite, aa, in part shaly, slightly silty.
- SILURIAN-ORDOVICIAN RONNING FORMATION - 3510' (Log 3542')
- 3510-3520 Dolomite, tan-cream, very fine-fine crystalline, brittle, dense, with trace grains, trace white-clear anhydrite blebs, slightly calcareous.
- 3520-3530 Dolomite, tan-cream, very fine-fine crystalline, somewhat soft with poor intercrystalline porosity.
- 3530-3540 Dolomite, aa grading to light grey, argillaceous.
- 3540-3550 Dolomite, light brown, dense, platy, micro-very fine crystalline, slightly argillaceous. Trace light steel grey, soft, silty, platy shale.
- 3550-3560 Dolomite, light brown, dense, micro-very fine crystalline, argillaceous in part, very hard silic with trace blue grey shale aa.

- 3560-3570 Dolomite, tan-cream, platy, dense, very fine crystalline, slightly calcareous, slightly argillaceous.
- 3570-3580 Dolomite, tan to cream, platy, aa, trace greenish grey shale.
- 3580-3590 Dolomite, aa with trace quartz crystals.
- 3590-3600 Dolomite, tan-medium brown, dense, fine crystalline with quartz silt and minor quartz crystals, very hard, trace pin-point porosity.
- 3600-3610 Dolomite, tan-cream, fine crystalline in part dense, with poor to fair intercrystalline and pin-point vuggy porosity, no cut. Minor medium grey, dense, shale.
- 3610-3620 Dolomite, tan-medium brown, very fine-fine crystalline, in part with clear medium crystalline patches, sucrosic. Trace of poor pin-point porosity with fair to good intercrystalline porosity in sucrosic streaks. No cut.
- 3620-3630 Dolomite, tan-medium brown, very fine crystalline, dense, silic.
- 3630-3640 Dolomite, tan-cream, very fine-fine crystalline, dense, with trace of pin-point porosity.
- 3640-3650 Dolomite, aa with trace black bituminous residue.
- 3650-3660 Dolomite, tan-cream, very fine-fine crystalline, in part slightly sucrosic, dense, slightly silty with trace of poor vuggy "blind" porosity.
- 3660-3670 Dolomite, aa, grading to medium brown. Trace scattered pin-point vuggy porosity, with very hard silic streaks.

- 3670-3680 Dolomite, cream, dense, very fine crystalline, with minor stylolites, pyrite crystals, calcareous, very brittle.
- 3680-3690 Dolomite, tan-cream aa with trace of white milky quartz in fractures, minor pyrite.
- 3690-3700 Dolomite, tan-cream, very fine crystalline-fine crystalline, dense in part silic, with streaks fine crystalline, slightly sucrosic dolomite, with trace intercrystalline porosity. Minor discrete clusters of clear quartz crystals - fracture infilling?
- 3700-3710 Dolomite, aa.
- 3710-3720 Dolomite, tan-cream, very fine-fine crystalline, very hard dense, silic with trace of milky quartz and pyrite.
- 3720-3730 Dolomite, aa with streaks of fine crystalline, slightly sucrosic, dolomite with scattered poor to fair vuggy and minor intercrystalline porosity.
- 3730-3740 Dolomite, tan-cream, very fine-fine crystalline with streaks of fine-medium crystalline, sucrosic dolomite with fair to good intercrystalline porosity. No cut.
- 3740-3750 Dolomite, tan, very fine crystalline, dense, very hard, in part silic, trace fractures, trace pin-point "blind" vugs.
- 3750-3760 Dolomite, tan aa, with fair-good streaks of vuggy and intercrystalline porosity. Much of porosity appears to be blind.
- 3760-3770 Dolomite, tan, very fine-fine crystalline, dense, in part siliceous, hard.

- 3770-3780 Dolomite, tan-cream, dense, very fine-fine crystalline, pyritic, with trace intercrystalline porosity.
- 3780-3790 Dolomite, tan-cream, very fine crystalline with streaks of fine crystalline, dolomitic scattered blind, pin-point vugs. Very little effective porosity.
- 3790-3800 Dolomite, tan-cream, fine crystalline, dense, with streaks of poor to fair intercrystalline porosity and scattered "blind" vugs.
- 3800-3810 Dolomite, tan-cream, very fine-fine crystalline, dense, in part silic.
- 3810-3820 Dolomite, aa, in part silic with trace pyrite.
- 3820-3830 Dolomite, tan, fine crystalline, generally dense with trace intercrystalline porosity. Trace light brown dense chert. Trace of open fractures and fractures with white coarse crystalline dolomite infill.
- 3830-3840 Dolomite, tan-light grey brown, very fine-fine crystalline, dense with streaks of fine-medium crystalline rhombic dolomite with fair to good intercrystalline and vuggy porosity, in part siliceous. Minor discrete clusters of white coarse dolomite crystals. Trace of one silic tabulate coral.
- 3840-3850 Dolomite, light brown-brownish grey, dense, fine crystalline, platy, slightly argillaceous with streaks of fine-medium crystalline, tan-white rhombic dolomite with good intercrystalline porosity. No stain. Trace of pyrite. Trace of white dense, quartz in fractures. Trace of white chert.

- 3850-3860 Dolomite, medium grey brown, dense, very fine-fine crystalline, platy, slightly argillaceous with streaks of tan, fine-medium crystalline rhombic dolomite with fair to good intercrystalline porosity. No staining. Traces of silicified and chertified coral fragments.
- 3860-3870 Dolomite, light grey to grey brown, silic, dense, very fine crystalline with streaks of fine crystalline, tan thombic dolomite with poor to fair intercrystalline porosity. No stain.
- 3870-3880 Dolomite, light brown-brownish grey, very fine crystalline-fine crystalline, dense with fine crystalline rhombic streaks, in part with floating fine quartz grains. Minor interbedded white-light grey, fine crystalline, dolomitic with floating quartz grains and pyrite and trace of green shale inclusions. Trace white, dense chert.
- 3880-3890 Dolomite, tan-light grey, dense, platy, very fine crystalline, with trace pyrite. Sandstone, white-light grey, fine-medium grained, subangular to subrounded, dolomitic, quartzitic grading to medium grey, shaly. Minor red dolomitic siltstone.
- 3890-3900 Dolomite, tan to light grey, platy, very fine crystalline, slightly argillaceous in part, with fragments of dense, cream to white chert. Minor sandstone aa. Trace of green shale.

- 3900-3910 Dolomite, light-medium grey, fine-very fine crystalline, argillaceous in part siliceous with trace greenish colour. Minor interbeds of red-maroon dolomitic siltstone. Dolomite, tan-medium brown, fine crystalline, dense.
- 3910-3920 Dolomite, light-medium grey, aa grading to shale, in part pyritic silic, very hard. Abundant red silty, dolomitic shale and shaly siltstone. Streaks of tan fine crystalline, dense, dolomite.
- 3920-3930 Dolomite, light-medium grey, shaly, argillaceous grading to dolomitic shale with interbedded red dolomitic siltstone, aa. Dolomite, tan-cream, fine crystalline, dense, in part silic pyritic.
- 3930-3940 Dolomite, white to cream, fine-coarse crystalline, dense, welded, rhombic (dolomitized corals ?), silic. Dolomite, light grey, fine-medium crystalline, rhombic, argillaceous with intercalations of medium grey, slightly dolomitic shale, siliceous. Minor red dolomitic, slightly silic shale.
- 3940-3950 Dolomite, cream, fine-medium crystalline, glassy, dense, with minor intercalations of grey argillaceous dolomite and dolomitic shale. Minor red sandy dolomitic shale.
- 3950-3960 Dolomite, light grey, dense, very fine crystalline, siliceous. Dolomite, tan, very fine-fine crystalline, dense, in part fine-medium crystalline with redish tinge, minor pyrite.
- 3960-3970 Dolomite, tan-white, fine-medium crystalline, glassy with abundant milky chert. Minor medium grey, dolomitic siliceous shale.

- 3970-3980 Dolomite, white-fine-coarse crystalline, coralline fragments in part silicified, in part chalky, in a light grey dense, welded, medium-coarse crystalline, slightly argillaceous matrix. Abundant milky, white chert fragments and pyrite clusters. Poor vuggy intercoralline porosity. Trace medium grey shale.
- 3980-3990 Shale, light grey, very soft, pyritic. Dolomite, tan-cream, fine-medium crystalline, rhombic, dense with abundant tabulate coral fragments. Dolomite, light grey-brown, very fine crystalline, argillaceous, pyritic, dense, with white coral fragments. Minor milky white chert.
- 3990-4000 Dolomite, white-tan, medium-coarse crystalline, dolomitized corals ?, in light grey dolomite ground mass. Coral fragments appear to be chertified in part. Minor pyrite and porcellanous shale aa. Trace intercrystalline porosity.
- 4000-4010 Dolomite, white-light tan, fine-medium crystalline, resinous, with minor light grey, dense, cloudy chert.
- 4010-4020 Dolomite, white-light grey, very fine crystalline, dense, slightly siliceous, with trace light grey, aphanitic chert, trace of pyrite. Trace of maroon, fine crystalline dolomite.
- 4020-4030 Dolomite, aa. Dolomite, medium grey, fine crystalline, slightly argillaceous, pyritic with minor dense, light grey chert.

- 4030-4040 Dolomite, cream-white, fine crystalline, dense, siliceous with minor pyrite.
- 4040-4050 Dolomite, white-tan, fine crystalline, dense in part light grey, very fine crystalline, dense, silic, with interbeds of red, fine crystalline, dense, slightly argillaceous dolomite. Trace stromatolites.
- 4050-4060 Dolomite, white-light grey, fine-medium crystalline rhombic, in part siliceous. Minor brown-red, very fine-fine crystalline, very argillaceous, shaly dolomite, minor pyrite.
- 4060-4070 Dolomite, white-tan with tinges of red, fine-medium to coarse crystalline, with patches of light grey, cloudy chert. Tight.
- 4070-4080 Dolomite, white tan, very fine crystalline, dense, with trace pyrite.
- 4080-4090 Dolomite, tan-cream, very fine-fine crystalline, in part medium crystalline, dense with quartz lined fractures, in part grading to light grey, platy, siliceous.
- 4090-4100 Dolomite, cream to tan, very fine-fine crystalline, dense with quartz lined fractures aa., with light brown chert. Dolomite, light-medium grey, dense, argillaceous. Trace buff and green shale (Cavings ?).
- 4100-4110 Dolomite, tan-cream, medium crystalline, rhombic with trace intercrystalline porosity, patches of coarse crystalline, clear quartz crystals.

- 4110-4120 Dolomite, tan-cream, very fine-fine crystalline, with trace intercrystalline porosity. Interbedded light grey, dense, glassy dolomite, in part siliceous. Trace green shale.
- 4120-4130 Dolomite, tan-cream, fine-medium crystalline, cherty in part with reddish tinge. Some grains exhibit dolomite rhombs in a chalky ground mass - suggests replacement of reefal material.
- 4130-4140 Dolomite, tan-cream, fine crystalline, in part coralline, with siliceous cement. Abundant light tan, dense, chert. Trace intercrystalline porosity. Trace light green shale.
- 4140-4150 Dolomite, white-tan-light grey, fine-medium crystalline, chertified coral fragments, in part rhombic with poor intercrystalline porosity. Abundant tan, dense chert, trace pyrite.
- 4150-4160 Chert, white, dense, milky with conchoidal fracture. Dolomite, light grey-tan, fine crystalline, glassy, in part medium crystalline rhombic with trace intercrystalline porosity.
- 4160-4170 Dolomite, cream-buff chalky in part, buff fine crystalline, sucrosic with poor to fair intercrystalline porosity, grading to tan, glassy, fine-medium crystalline, rhombic. Dolomite, medium grey, fine crystalline, argillaceous, with chert and clear quartz crystals.

- 4170-4180 Dolomite, tan-medium grey, fine-medium crystalline, rhombic, dense, with light tan, chert fragments, open fractures, trace pyrite, trace crinoids. Tight, no visible porosity.
- 4180-4190 Dolomite, tan, in part with reddish tinge, medium-coarse crystalline, cherty, with trace green shale inclusion grading to medium grey, argillaceous, tight. * Trace of bright green amorphous mineral in added grain.
- 4190-4200 Dolomite, cream, very fine-fine crystalline, dense, with tan-cream chert, trace of quartz crystals. Interbedded medium grey, fine-medium crystalline argillaceous dolomite.
- 4200-4210 Dolomite, tan, very fine crystalline, dense, siliceous.
- 4210-4220 Dolomite, tan, medium crystalline, interlocking, rhombic, tight, with minor, tan, dense chert. Minor grey green shale intercalations. Intermittent reddish tinge to dolomite.
- 4220-4230 Dolomite, tan-cream, in part red, fine-medium crystalline, with minor chert, tight. Minor light grey, porcellaneous shale.
- 4230-4240 Dolomite, aa with trace green shale.
- 4240-4250 Dolomite, tan, very fine crystalline, dense, in part with reddish tinge with white-buff chert fragments.

- 4250-4260 Dolomite, tan, fine crystalline, in part medium crystalline, rhombic, interlocking, dense, in part with reddish tinge. Minor chert.
- 4260-4270 Dolomite, light grey brown-medium brown, very fine crystalline, platy, slightly argillaceous, with minor silic coral (?) fragments. Minor light green shale.
- 4270-4280 Dolomite, cream-tan, fine-medium crystalline interlocking, in part with white chalky ground mass, with white, milky chert in fractures and as discrete fragments in part light-medium grey, argillaceous, pyritic, with trace medium green shale.
- 4280-4290 Dolomite, buff-tan, very fine crystalline, platy, in part light grey with trace apple green shale.
- 4290-4300 Dolomite, light grey, very fine crystalline, platy with trace pyrite. Dolomite, buff-tan, very fine-fine crystalline in part with light green shale inclusions, trace of light grey, dense chert.
- 4300-4310 Dolomite, white, fine crystalline (organic ?) and tan, fine-medium crystalline, with minor light grey chert. Minor medium brown to reddish brown, platy, argillaceous dolomite.
- 4310-4320 Dolomite, light grey, very fine crystalline, dense, in part siliceous, grading to white, very fine-fine crystalline, chalky, trace light grey chert.

- 4320-4330 Dolomite, tan, very fine crystalline, dense. Dolomite, white fine crystalline, in part siliceous, dense. Minor light grey chert.
- 4330-4340 Dolomite, buff-light grey, fine crystalline, dense in part light grey, argillaceous, platy, very fine crystalline with minor light grey, dense chert.
- 4340-4350 Dolomite, light grey-buff micro-very fine crystalline, platy, dense, in part slightly argillaceous.
- 4350-4360 Dolomite, light brownish grey, micro-fine crystalline, very fine crystalline, slightly argillaceous dolomite, dense with trace pyrite. Trace light grey porcellaneous shale.
- 4360-4370 Dolomite, aa with white milky chert. Minor light grey, porcellaneous shale aa.
- 4370-4380 Dolomite, light brownish grey to light grey, micro-very fine crystalline, dense, platy, in part slightly argillaceous.
- 4380-4390 Dolomite, aa with trace light greenish grey porcellaneous shale.
- 4390-4400 Dolomite, light grey brown, light grey, micro-very fine crystalline, dense, pyritic, in part with reddish hue, argillaceous in part, cream chalky, fine crystalline with trace chalky porosity.

- 4400-4410 Dolomite, cream-tan, fine crystalline, rhombic, tight.
Dolomite, light grey, microcrystalline, siliceous, slightly argillaceous, very hard with trace pyrite.
- 4410-4420 Dolomite, light grey, platy, micro-very fine crystalline, with dark grey, argillaceous patches, with pyrite, tight.
- 4420-4430 Dolomite, tan-light grey, micro-very fine crystalline, platy, slightly argillaceous, dense, in part maroon.
- 4430-4440 Dolomite, aa
- 4440-4450 Dolomite, tan-cream, micro-very fine crystalline, dense. Minor light grey, porcellaneous shale and greenish grey shale. Minor tan, dense chert.
- 4450-4460 Dolomite, aa in part with maroon tinge. Interbedded light-medium grey, very fine crystalline, argillaceous dolomite, in part siliceous.
- 4460-4470 Chert, white milky, very dense. Dolomite, tan to buff, very fine-fine crystalline, dense. Minor maroon and medium grey fine crystalline, argillaceous dolomite with intercalations of bright green shale.
- 4470-4480 Dolomite, cream, very fine crystalline, dense with streaks of fine crystalline rhombic, siliceous, dense dolomite. Minor white chert. Trace green shale and pyrite. Trace of fine to medium floating sand grains in cream dolomites.
- 4480-4490 Dolomite, tan-light grey, very fine-fine crystalline, dense with white milky chert fragments.

- 4490-4500 Dolomite, tan, cherty aa, in part medium grey, dense, very fine-fine crystalline, argillaceous, pyritic.
- 4500-4510 Dolomite, tan, very fine crystalline, microcrystalline, platy.
- 4510-4520 Dolomite, medium brownish grey, slightly argillaceous.
Dolomite, tan, fine crystalline, rhombic with abundant white milky chert.
- 4520-4530 Dolomite, tan, fine crystalline, rhombic, interlocking, dense with true white chert.
- 4530-4540 Dolomite, cream-light brownish grey, very fine-fine crystalline, somewhat platy with minor cherty streaks.
- 4540-4550 Dolomite, aa.
- 4550-4560 Dolomite, tan-medium brownish grey, micro-very fine crystalline, platy, argillaceous in part.
- 4560-4570 Dolomite, tan-cream, micro-very fine crystalline, dense, platy, in part light grey, slightly argillaceous.
- 4570-4580 Dolomite, aa.
- 4580-4590 Dolomite, aa with minor white chert, trace light grained grey shale.

- 4590-4600 Dolomite, tan-light grey, micro-very fine crystalline, slightly argillaceous, dense.
- 4600-4610 Dolomite, aa.
- 4610-4620 Dolomite, tan, very fine crystalline, argillaceous, tight.
- 4620-4630 Dolomite, cream, fine crystalline, rhombic, interlocking, dense.
- 4630-4640 Dolomite, cream, fine-medium crystalline, rhombic with trace intercrystalline porosity. Dolomite, tan-light grey, very fine-fine crystalline, dense, in part with red tinge, trace green shale inclusions.
- 4640-4650 Dolomite, cream, very fine crystalline with streaks of maroon dolomite. Minor, soft, bright green shale.
- 4650-4660 Dolomite, cream to tan, fine-medium crystalline, welded, dense with trace red tinge, trace green waxy shale inclusions, in part slightly argillaceous.
- 4660-4670 Dolomite, light grey, microcrystalline, platy, argillaceous, with dark grey fine mottling. Minor dark grey shale interbeds.
- 4670-4680 Dolomite, light-medium brownish grey, very fine crystalline, argillaceous, platy, in part with medium grey mottling.

- 4680-4690 Dolomite, cream to tan, very fine-fine crystalline, dense, in part light grey, very fine crystalline, slightly argillaceous. Minor medium grey, very argillaceous dolomite with dark green inclusions.
- 4690-4700 Dolomite, light to medium grey, argillaceous, shaly, very fine crystalline. Interbedded medium to dark brown, very fine crystalline, platy, argillaceous dolomite. Minor dark brown dolomitic shale with black bituminous specks. Trace of pyrite.
- 4700-4710 Dolomite, cream, platy, very fine crystalline. Interbedded light greenish grey shale, in part dolomitic, pyritic. Minor dark brown, very fine-fine crystalline dolomite.
- 4710-4720 Dolomite, light grey-tan, very fine-fine crystalline, dense, slightly argillaceous in part, slightly siliceous. Trace green shale.
- 4720-4730 Dolomite, tan-light grey, very fine crystalline, slightly argillaceous, platy with trace maroon, siliceous dolomite.
- 4730-4740 Dolomite, cream-light grey, dense, siliceous in part, micro-very fine crystalline.
- 4740-4750 Dolomite, cream aa, very hard siliceous.
- 4750-4760 Dolomite, cream-light grey, in part tan, very fine-fine crystalline, dense with trace pyrite, siliceous with quartz crystals lining fractures.

- 4760-4770 Dolomite, aa grading to medium grey, trace of chert.
- 4770-4780 Dolomite, light-medium grey, very fine crystalline, argillaceous.
- 4780-4790 Dolomite, aa, trip sample, very poor.
- 4790-4800 Dolomite, medium brown to brownish grey, very fine crystalline, dense, argillaceous, platy.
- 4800-4810 Dolomite, light brownish grey, very fine crystalline, dense, slightly argillaceous.
- 4810-4820 Dolomite, cream-light grey, very fine crystalline, in part slightly argillaceous.
- 4820-4830 Dolomite, aa.
- 4830-4840 Dolomite, aa with minor dark grey shale streaks.
- 4840-4850 Dolomite, medium grey, fine crystalline, platy, argillaceous.
- 4850-4860 Dolomite, light-medium grey, platy, in part argillaceous, very fine-fine crystalline.
- 4860-4863 (Bottom Sample). Dolomite, aa.

SECTION III - ENGINEERING SUMMARY

(a) SUMMARY OF DRILL STEM TESTS:

<u>No.</u>	<u>Interval</u>	<u>Formation</u>	<u>Valve Open</u>	<u>Blow</u>	<u>Recovery</u>			
1	1560-1925	Kee Scarp	60	GIP	Mud			
2	2748-2825	Bear Rock	60	Air	30' Mud + 700' slightly salty water			
3	3559-3876	Ronning	60	Air	450' mud + 2980' salt water			
	<u>ISI</u>	<u>FSI</u>	<u>ISIP</u>	<u>FSIP</u>	<u>IFP</u>	<u>FFP</u>	<u>DHP</u>	<u>FHP</u>
1	60	60	297	89	57	59	747	747
2	28	58	1248	1228	120	126	1367	1367
3	60	61	1599	1598	1228	1593	1767	1763
- testing by V.H. Hunter & Assoc. Personnel								

- testing by V.H. Hunter & Assoc. Personnel

(b) CASING RECORD:

Conductor: Ran 3 joints 13 3/8" 94.4# J-55 casing and cemented with 67 sacks, Portland cement + 8% Calseal with last 30 sacks. Plug down at 6:00 PM, July 12, 1970. Set @ 90'

Surface: Ran 23 joints 8 5/8" 24# J-55 casing and cemented with 460 sacks Portland cement + 3% CaCl. Plug down at 6:30 PM, July 16, 1970. Set @ 860'.

District: Canada, N.W.T.

Field: Carcajou Ridge

Lease: Maida Creek

Well No: F-57

Drill Pipe: 860'

Size Hole: at TD 12 $\frac{1}{4}$ "

Datum Point: Rotary Bushing

Datum Point Elevation: 12.25

Casing: Size - 8 5/8"

Wt. - 24#

Grade - J-55

Coupling L/S T&C - ST&C THD. 8nd

Make - Mann

On Hand - No. Jts. - 33

Footage - 1232.58

Run in Well - No. Jts. - 23

Footage - 845.19

Remainder - No. Jts. - 10

Footage - 387.39

Total Casing in Well: 845.19

Casing Shoe: Make & Type - Hotco
Guide

Length - 1.00

Float Collars: No., Make & Type Hotco

Length - 1.53

Depth - 832.08

Total Casing, Shoe and Float Collars: 847.72

Top of Casing (Above) or (Below) Datum Point: 12.25

Casing Point: 859.97

Cementing Record: Work Done By - B.J.
Time Running Casing - 2 hours
Cement-Brand - Jaland
Type - Construction
% Gels -
No. Sacks - 450
Mixed Wt./Gal - 14.5±
No. Sacks Treated - 460
Chemical Used - CaCl_2
Amt. Chemical - 3%

Cementing Time: Mixing - 1½ hours
Displacing - 20 Min.
Total - 1 hour, 35 mins.
Plug Down - 6:30 PM

Pump Pressures: Circulating - 0
To Place Cement - 200
After Plug Hit - 1,000

Top of Cement in Annulus: Calculated - Surface
Measured - Surface

[illegible]

(d) MUD REPORT:

<u>Date</u>	<u>Depth</u>	<u>Wt. #/Gal</u>	<u>Vis. 15 Min. Sec.</u>	<u>WL CC</u>	<u>Filter Cake 32Hds</u>	<u>PH</u>	<u>Remarks & Additives</u>
1970	Mud Additives & Properties are every 24 hours 12 PM to 12 PM						
July 11	45						3000 # Gel Caustic 100#
July 12	90						1000# Gel
July 13	315		39				4500# Gel, 50# Caustic
July 14	736	9.1	38				3000# Gel, 100# Bicarbonate of Soda
July 15	717	9.6	60				2500# Gel, 25# Lime
July 16	860	9.5	88				1000# Gel
July 17	860						N11 - W.O.C.
July 18	1100	8.6	35			8.5	150# Caustic, 300# Plaster, 60# Dowcide B, 2000# Gel, 400# Kelzan, 300# Bicarbonate of Soda
July 19	1523	9.0	36	16	2	9.5	100# Kelzan, 100# Plaster, 400# CMC
July 20	1577	9.0	49	5.8	2	9.0	150# CMC
July 21	1628	9.0	57	5.9	2	9.0	150# CMC, 500# Gel, 100# Kelzan, 50# Plaster, 10# Dowcide B, 50# Caustic
July 22	1738	9.0	43	6.8	2	9.5	100# CMC, 50# Plaster
July 23	1925	9.2	59	5.8	2	9.0	100# Kelzan, 100# Plaster, 100# CMC, 100# Dowcide B, 500# Gel, 25# Caustic
July 24	2183	9.1	45	6.9	2	9.0	100# Kelzan, 50# CMC, 50# Caustic
July 25	2580	9.1	46	6.2	2	9.0	50# Caustic, 500# Gel, 100# Plaster, 150# Kelzan, 100# Dowcide B.
July 26	2808	9.2	41	5.6	2	9.0	100# Kelzan, 50# Caustic, 50# Dowcide B, 50# CMC
July 27	2937	9.3	42	5.8	2	9.5	20# Dowcide B, 25# Caustic, 250# Plaster
July 28	3156	9.2	45	7.8	2	9.5	100# Caustic, 1500# Gel, 200# Kelzan, 100# CMC, 30# Dowcide B.

<u>Date</u>	<u>Depth</u>	<u>Wt. #/Gal</u>	<u>Vis. Sec.</u>	<u>WL 15 Min. CC</u>	<u>Filter Cake 32Hrs.</u>	<u>PH</u>	<u>Remarks & Additives</u>
July 29	3367	9.3	41	7.6	2	9.0	2000# Gel, 150# CMC, 100# Caustic, 100# Kelzan
July 30	3515	9.3	39	9.0	2	9.5	1000# Gel, 100# Caustic, 100# Kelzan, 50# CMC, 20# Dowcide B.
July 31	3720	9.2	40	6.4	2	9.0	1800# Gel, 250# Kelzan, 100# Caustic, 100# CMC, 20# Dowcide B.
Aug. 1	3896	9.3	45	7.0	2	10.0	1500# Gel, 200# Kelzan, 100# Caustic, 10# Dowcide B, 50# CMC
Aug. 2	4080	9.3	40	7.4	2	9.5	100# CMC, 1000# Gel, 50# Caustic, 100# Kelzan, 10# Dowcide B.
Aug. 3	4245	9.3	42	7.6	2	9.0	1000# Gel, 150# Kelzan, 50# Caustic, 50# CMC, 10# Dowcide B.
Aug. 4	4390	9.3	39	7.6	2	9.5	1000# Gel, 100# Kelzan, 50# Caustic 10# Dowcide B.
Aug. 5	4516	9.3	40	7.2	2	9.5	700# Gel, 150# Kelzan, 50# CMC, 50# Caustic, 10# Dowcide B.
Aug. 6	4666	9.3	42	7.2	2	10	500# Gel, 100# Kelzan, 50# CMC, 50# Caustic, 10# Dowcide B.
Aug. 7	4779	9.3	42	7.6	2	9.5	700# Gel, 50# Caustic, 50# CMC, 150# Kelzan, 10# Dowcide B.
Aug. 8	4859	9.4	42	7.4	2	9.0	500# Gel, 100# Kelzan, 50# CMC, 50# Caustic, 10# Dowcide B.
Aug. 9	4863	9.4	50	6.2	2	9.5	N11
Aug. 10	4863						10# Dowcide B

NOTE: Above properties and Additives compiled from McDermott's Daily Drilling Reports

(c) SUMMARY OF DEVIATION SURVEYS:

<u>Depth (Ft.)</u>	<u>Degrees Off</u>
70	$\frac{1}{4}$
90	$\frac{1}{4}$
130	$\frac{1}{4}$
190	$\frac{1}{4}$
247	$\frac{1}{4}$
305	$\frac{1}{4}$
390	$\frac{1}{4}$
485	1
515	1
546	$\frac{3}{4}$
604	1
634	$\frac{7}{8}$
665	1 $\frac{1}{8}$
757	1
788	$\frac{7}{8}$
820	$\frac{3}{4}$
840	$\frac{7}{8}$
639	$\frac{7}{8}$
700	$\frac{7}{8}$
762	$\frac{7}{8}$
839	$\frac{7}{8}$
860	$\frac{7}{8}$
904	1
935	1
1043	1 $\frac{1}{8}$
1138	1
1232	$\frac{7}{8}$
1327	$\frac{7}{8}$
1453	$\frac{3}{4}$

Reaming 7 $\frac{7}{8}$ "
to 12 $\frac{1}{4}$ "

(Summary of Deviation Surveys Cont'd)

<u>Depth (Ft.)</u>	<u>Degrees Off</u>
1639	1
1754	1
1888	3/4
2015	3/4
2160	1
2285	1/2
2453	1/2
2595	
2860	1/2
2956	3/4
3030	3/4
3145	7/8
3251	3/4
3365	3/4
3493	1
3660	1 1/2
3745	1 1/8
3820	1 1/2
3970	1 1/2
4235	1 1/2
4371	1 3/4
4528	2
4654	2
4792	1 3/4
4863	1 3/4

(f) SUMMARY OF ABANDONMENT PLUGS:

<u>Plug No.</u>	<u>Depth</u>	<u>Remarks</u>
1	3900-4000'	Cement with 36 sacks Portland cement + 3% CaCl. Plug down 7:30 PM, August 11, 1970. Ran in and felt plug at 3885' at 1:30 AM, August 12.
2	3400-3500'	Cement with 38 sacks Portland cement + 3% CaCl. Plug down at 2:30 AM, August 12, 1970. Ran in and Felt plug at 3390, at 8 AM, August 12, 1970.
3	2600-2700	Cement with 40 sacks Portland cement + 3% CaCl. Plug down at 9:15 AM, August 12, 1970. Ran in and Felt plug at 2580' at 3:15 PM, August 12, 1970.
4	800-900'	Cement with 50 sacks Portland cement + 3% CaCl. Plug down at 3:45 PM, August 12, 1970. Ran in and felt plug at 790' at 10 PM, August 12, 1970.

Cemented casing at surface with 10 sacks of cement.
Welded plate on top, and riser with identification
marker installed.

(g) SUMMARY OF LOST CIRCULATION ZONES:

None.

(h) REPORT OF BLOWOUTS:

None.

SECTION IV - LOGS

<u>Date</u>	<u>Interval</u>	<u>Type of Log</u>
Aug. 9/70	860-4861	Schlumberger Induction Electrical
Aug. 9/70	860-4860	Schlumberger Borehole Compensated Sonic Gamma Ray
Aug. 9/70	860-4862	Schlumberger Microlog Caliper
Aug. 9/70	860-4861	Schlumberger Sidewall Neutron Porosity
Aug. 9/70	860-4861	Schlumberger Formation Density
Aug. 9/70 to Aug. 10/70	860-4862	Schlumberger Continuous Dipmeter
Aug. 10/70	860-4863	Ran Velocity Survey with Schlumberger and Electronic Logging.

SECTION V - ANALYSIS

(a) CORE ANALYSIS:

See Attached

(b) WATER ANALYSIS:

None Run

(c) GAS ANALYSIS:

None Run

(d) OIL ANALYSIS:

None Run

SECTION VI - COMPLETION SUMMARY

DMA No tubing operations, perforating or treatment carried out.

CORE LABORATORIES - CANADA, LTD.
Petroleum Reservoir Engineering
CALGARY, ALBERTA

Company J. Ray McDermott Canada Ltd. Formation Kee Scarp Page 1 of 3
 Well McD Can GCO Maida Ck F-57 Date Report File
 Field, Province N.W.T. D. Fluid Analysis
 Location 65°36'17" N, 128°10'36" W Analysis Remarks

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

Sample Number	Depth Feet	Fr. Rep.	Permeability Millidarcys			Form. Ft.	Porosity Percent	Porosity Feet	Density		Residual Saturation		Viscid Examination
			K Max	K 90°	KV				Bulk	Grain	Oil % Por.	Water % Por.	
			Core #1 1523-1577 Red. 54'										
1	0.0 - 1.2	1.2	0.56	0.52	0.01	0.672	5.8	6.96	2.51	2.67	9.2	38.5	1, Limy, A
2	1.2 - 2.2	1.0	0.63	0.63	0.01	0.630	8.8	8.80	2.44	2.67	6.7	29.2	1, Limy, A
3	2.2 - 3.3	1.1	0.72	0.67	0.01	0.792	8.5	9.35	2.46	2.69	5.2	39.0	1, Limy, A
4	3.3 - 4.4	1.1	0.55	0.44	0.01	0.605	7.6	8.36	2.46	2.66	5.3	32.5	1, Limy, A
5	4.4 - 5.6	1.2	0.36	0.33	0.01	0.432	7.0	8.40	2.50	2.69	11.0	24.7	1, Limy, A
6	5.6 - 6.7	1.1	0.25	0.25	0.01	0.275	5.7	6.27	2.53	2.69	4.3	25.8	1, Limy, A
7	6.7 - 7.8	1.1	0.38	0.36	0.01	0.418	6.4	7.04	2.52	2.69	5.0	33.8	1, Limy, A
8	7.8 - 9.1	1.3	1.4	1.3	0.01	1.82	7.9	10.27	2.48	2.69	8.6	32.9	1, Limy, A
9	9.1 - 10.2	1.1	0.26	0.19	0.01	0.286	6.3	6.93	2.52	2.68	6.4	41.5	1, Limy, A
10	10.2 - 11.3	1.1	0.37	0.35	0.01	0.407	6.1	6.71	2.52	2.69	9.3	38.4	1, Limy, A
11	11.3 - 12.6	1.3	0.22	0.19	0.01	0.286	6.6	8.58	2.51	2.69	8.3	37.5	1, Limy, A
12	12.6 - 13.8	1.2	0.58	0.42	0.01	0.696	7.4	8.88	2.49	2.69	8.2	39.8	1, Limy, A
13	13.8 - 15.1	1.3	0.19	0.16	0.01	0.247	4.3	5.59	2.60	2.72	7.1	37.6	1, Limy, A
14	15.1 - 16.2	1.1	0.43	0.43	0.01	0.473	7.7	8.47	2.50	2.71	6.1	29.6	1, Limy, A
15	16.2 - 17.4	1.2	0.36	0.36	0.01	0.432	7.1	8.52	2.52	2.71	6.7	28.1	1, Limy, A
16	17.4 - 18.5	1.1	0.64	0.59	0.01	0.704	8.2	9.02	2.47	2.69	6.9	31.0	1, Limy, A
17	18.5 - 19.5	1.0	0.37	0.35	0.01	0.370	6.5	6.50	2.51	2.68	4.1	36.1	1, Limy, A
18	19.5 - 20.5	1.0	0.38	0.38	0.01	0.300	6.5	6.50	2.54	2.71	5.4	30.4	1, Limy, A

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories - Canada Ltd. (all errors and omissions excepted); but Core Laboratories - Canada Ltd. and its officers and employees assume no responsibility and make no warranty or representation as to the productivity proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

Company J. Ray McDermott Canada Ltd Formation Kee Scarp Page 2 of 3
 Well MCD Can GCO Maida Ck F-57 Date Report File
 Field, Province N.W.T. D. Fluid Analysts
 Location 65036'17", 128°10'36" Analysis Remarks

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

Sample Number	Depth Feet	P. Rep.	Permeability Millidarcys			Perm. Ft.	Porosity Percent	Penetration Feet	Density		Residual Saturation		Yield Lubrication
			K Max	K 50%	KV				Bulk	Grain	Oil % Pore	Water % Pore	
-	20.5 - 38.0	17.5											Dense
19	38.0 - 39.3	1.3	0.18	0.13	0.01	0.234	4.7	6.11	2.56	2.68	9.5	36.5	1, Limy, A
20	39.3 - 40.3	1.0	0.25	0.16	0.01	0.250	5.4	5.40	2.55	2.70	11.1	22.2	1, Limy, A
-	40.3 - 41.3	1.0											Dense
21	41.3 - 42.3	1.0	0.14	0.10	0.01	0.140	4.3	4.30	2.60	2.71	6.6	36.1	1, Limy, A
22	42.3 - 43.5	1.2	0.15	0.11	0.01	0.180	6.8	8.16	2.50	2.69	15.6	30.2	1, Limy, A
23	43.5 - 44.6	1.1	0.90	0.57	0.01	0.990	7.2	7.92	2.52	2.71	16.4	50.8	1, Limy, A
24	44.6 - 45.8	1.2	0.28	0.22	0.01	0.336	5.8	6.96	2.52	2.67	25.5	29.8	1, Limy, A
25	45.8 - 47.0	1.2	0.20	0.20	0.01	0.240	6.5	7.80	2.46	2.64	45.0	30.0	1, Limy, A
26	47.0 - 48	1.1	0.01	0.01	0.01	0.01	5.2	5.72	2.54	2.54	51.2	27.9	1, Limy, A
27	48.1 - 49.3	1.2	0.27	0.25	0.01	0.324	8.3	9.96	2.45	2.67	28.2	12.8	1, Limy, A
28	49.3 - 50.5	1.2	0.03	0.03	0.01	0.036	5.1	6.12	2.53	2.67	28.6	15.3	1, Limy, A Stylolite
29	50.5 - 51.6	1.1	0.01	0.07	0.01	0.110	5.5	6.05	2.59	2.74	42.5	20.0	1, Limy, A
30	51.6 - 53.0	1.4	0.09	0.07	0.01	0.126	7.4	10.36	2.49	2.69	33.8	19.7	1, Limy, A, Stylolite
31	0.0 - 1.1	1.1	0.28	0.23	0.01	0.308	7.7	8.47	2.45	2.66	30.1	12.0	1, Limy, A, Stylolite
32	1.1 - 2.2	1.1	0.71	0.68	0.09	0.781	8.3	9.13	2.43	2.65	24.6	12.3	1, Limy, A,
33	2.2 - 3.2	1.0	0.61	0.56	0.01	0.610	9.4	9.40	2.42	2.67	24.8	8.6	1, Limy, A

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories - Canada Ltd (all errors and omissions excepted); but Core Laboratories - Canada Ltd, and its officers, employees, and agents, assumes no responsibility and makes no warranty or representation as to the productivity proper operation, or performance of any oil, gas or other mineral well or used in connection with which such report is made or relied upon.



DRILL-STEM TEST DATA

Well Name	J Ray McElmott Maida Creek #F57	Test No	One
Well Number	P-57	Zone Tested	Kes Scarp
Company	TRANSOGNAD Oil Inc.	Interval	1560 - 1925
Camp. Rep.		Tester	W. McKay
		Date	July 23, 1970

Type of Test Bottom Hole RFS Tool No. _____Venture 5 mins ISI 6 mins Flow 60 mins FSI 60 mins

Specify Inside or Outside	INS	RIC No	5060	OUT	RIC No	5061	RIC No	
	3600	RANGE	12	3600	RANGE	12	RANGE	12
DEPTH			1565			1590		
Initial Hydro Mud Press			737			747		
Initial Shut-in Press			289			297		
Initial Flow Press			39			57		
Final Flow Press			46			59		
Final Shut-in Press			71			89		
Final Hydro Mud Press			737			747		

Mud Drop Nil Fluid Loss 6.8 Mud Weight 9.2
Viscosity 59 Temperature °F _____ Net Pay Tested _____
Top Packer Depth 1560 Bottom Packer Depth _____ Total Depth 1925
Drill Pipe Size 4" Wt 14.0 Drill Collar ID 2 7/8 Ft Run 439
Surface Choke Size _____ Bottom Choke Size 2 Main Hole Size 7 7/8"
Anchor Size 4" Flex - 42 Jet Hole Size _____ Feet of Rat Hole _____
Cushion Amount _____ Type _____ Rubber Size _____

Fluid Recovery Total Feet 30'
Recovered 30 Feet of Mud
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Gas Recovery _____ How Measured _____ Riser size _____

mins	Temp. F	Press Rdg	ps	Orifice Size	=	MCF/Day
mins	Temp. °F	Press Rdg	ps	Orifice Size	=	MCF/Day
mins	Temp. F	Press Rdg	ps	Orifice Size	=	MCF/Day
mins	Temp. F	Press Rdg	ps	Orifice Size	=	MCF/Day
mins	Temp. F	Press Rdg	ps	Orifice Size	=	MCF/Day
mins	Temp. F	Press Rdg	ps	Orifice Size	=	MCF/Day

Blend Off Time for Drill Pipe _____

REMARKS Good initial puff, dead in 1 min. Reset, dead in 1 min I.S.I. 66 min. Open
on flow good puff, dead in 1 min. dead through out rest of 60 min flow.
F.S.I. 60 min.

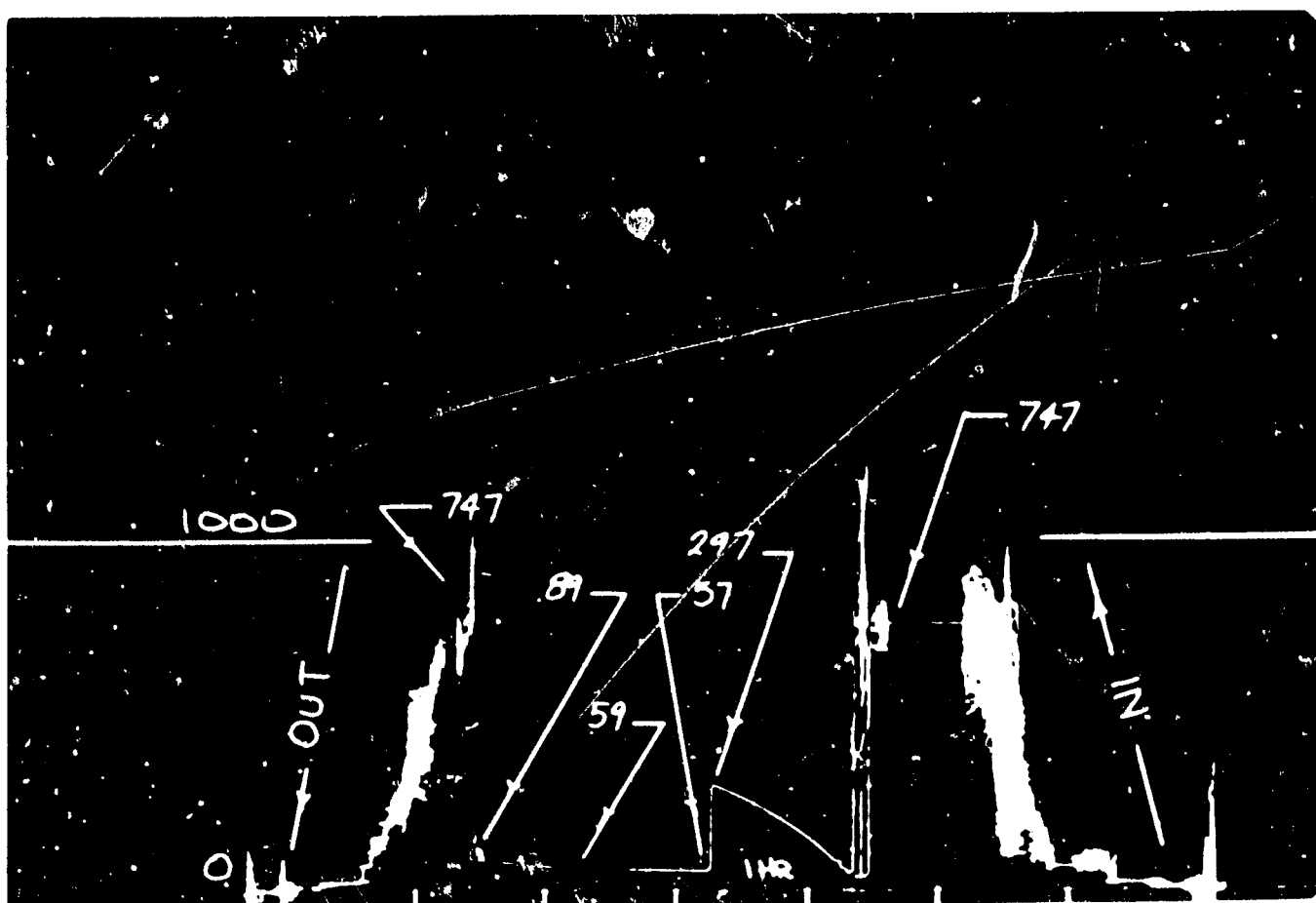
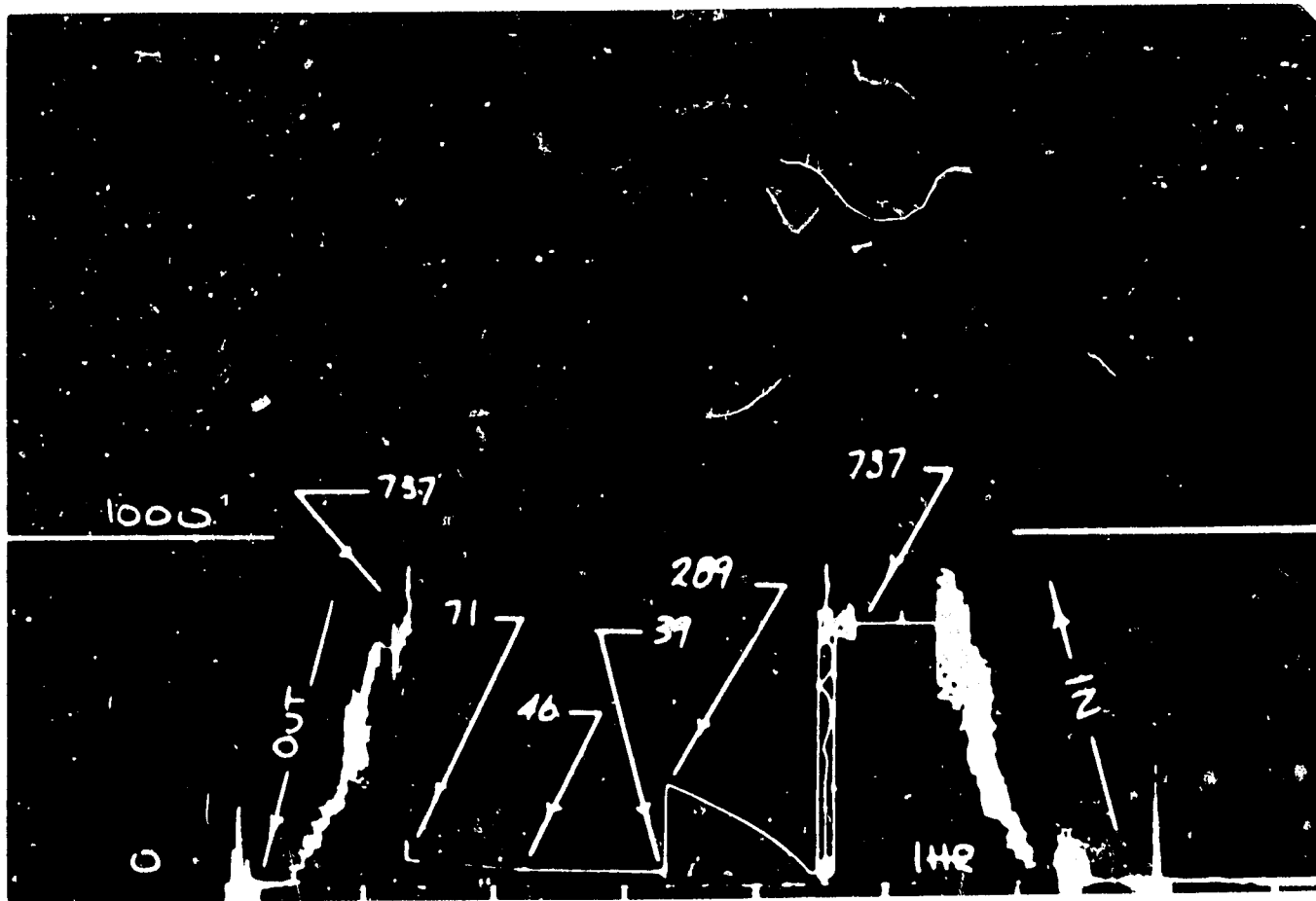


DST PRESSURE INCREMENTS

Recorder No 5040

Depth 1565

Piston	Time Sec.	INITIAL CIP			Time Sec.	FINAL CIP		
		T + 0	$\frac{T + 0}{0}$	PSIG		T + 0	$\frac{T + 0}{0}$	PSIG
1	0			31	0			45
2	5			67	5			46
3	10			93	10			48
4	15			117	15			50
5	20			139	20			53
6	25			160	25			55
7	30			178	30			58
8	35			196	35			62
9	40			211	40			64
10	45			227	45			67
11	50			242	50			69
12	55			258	55			71
13	60			272	60			74
14	65			284				
15	66			289				
16								
17								
18								
19								
20								
21								
22								
23								
24								





DRILL-STEM TEST DATA

Well Name	J. RAY McDERMOTT MAIDA CREEK	Test No	2
Well Number	F 57	Zone Tested	BEAR ROCK
Company	TRANSOCEAN OIL INC.	Interval	2748-2825
Comp Rep	Tester W. McKay	Date	JULY 27/70

Type of Test BOTTOM HOLE RFS Tool No. _____
Prelow 5 mins ISI 28 mins Flow 60 mins FSI 58 mins

Specify Inside or Outside	INS REC No 5040 3600 RANGE 12 NO CLOCK	OUT REC No 5041 3600 RANGE 12 NO CLOCK	REC No RANGE NO CLOCK
DEPTH	2734	2821	
Initial Hydra Mud Press	1322	1367	
Initial Shut-In Press	1199	1248	
Initial Flow Press	62	120	
Final Flow Press	374	426	
Final Shut-In Press	1181	1228	
Final Hydra Mud Press	1319	1367	

Mud Drop NIL Fluid Loss _____ Mud Weight 9.2
Viscosity 12 Temperature °F 95.0 Net Pay Tested _____
Top Packer Depth 2748 Bottom Packer Depth _____ Total Depth 2825
Drill Pipe Size 4" Wt. 14.0 Drill Collar ID 2 7/8 Ft Run 433
Surface Choke Size _____ Bottom Choke Size 5 Main Hole Size 7 7/8
Anchor Size 4" Flex 4 3/4 Rot Hole Size _____ Feet of Rot Hole _____
Cushion Amount _____ Type _____ Rubber Size _____

Fluid Recovery Total Feet 730'
Recovered 30' Feet of MOD
Recovered 180' Feet of MOD BUT SLIGHTLY SALTY WATER
Recovered 520' Feet of SLIGHTLY SALTY WATER
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Gas Recovery How Measured _____ Rising Head _____
_____ mins Temp. °F Press Rdg. _____ psi Orifice Size _____ MCF/Day
_____ mins Temp. °F Press Rdg. _____ psi Orifice Size _____ MCF/Day
_____ mins Temp. °F Press Rdg. _____ psi Orifice Size _____ MCF/Day
_____ mins Temp. °F Press Rdg. _____ psi Orifice Size _____ MCF/Day
_____ mins Temp. °F Press Rdg. _____ psi Orifice Size _____ MCF/Day
_____ mins Temp. °F Press Rdg. _____ psi Orifice Size _____ MCF/Day

Bleed Off Time for Drill Pipe _____
REMARKS GOOD INITIAL PUFF. SHUT IN FOR 30 MIN. GOOD PUFF ON
OPENING. BEAR AIR BLOW THROUGH OUT 60 MIN. FLOW.
F.S.I. 60 MIN.

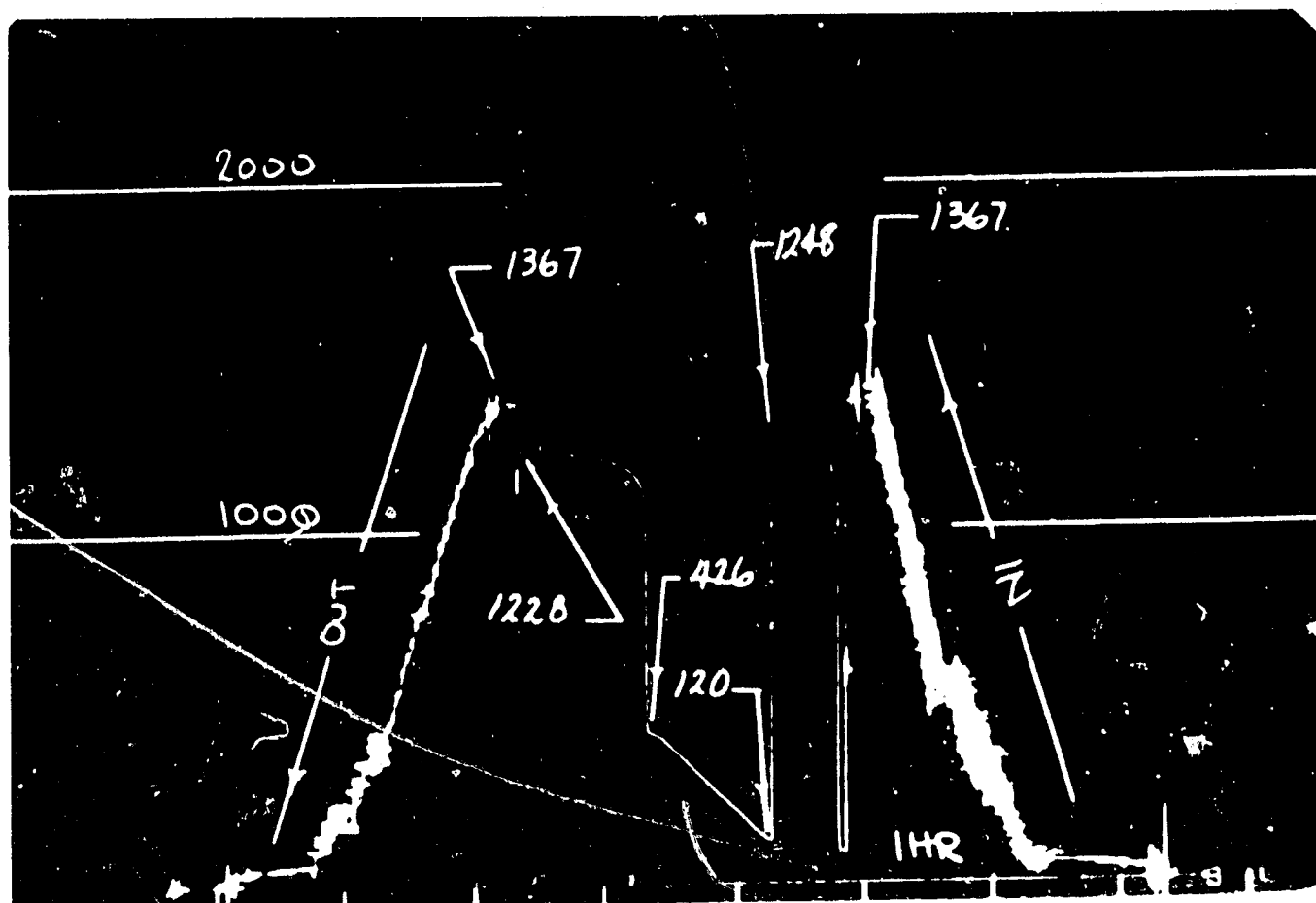
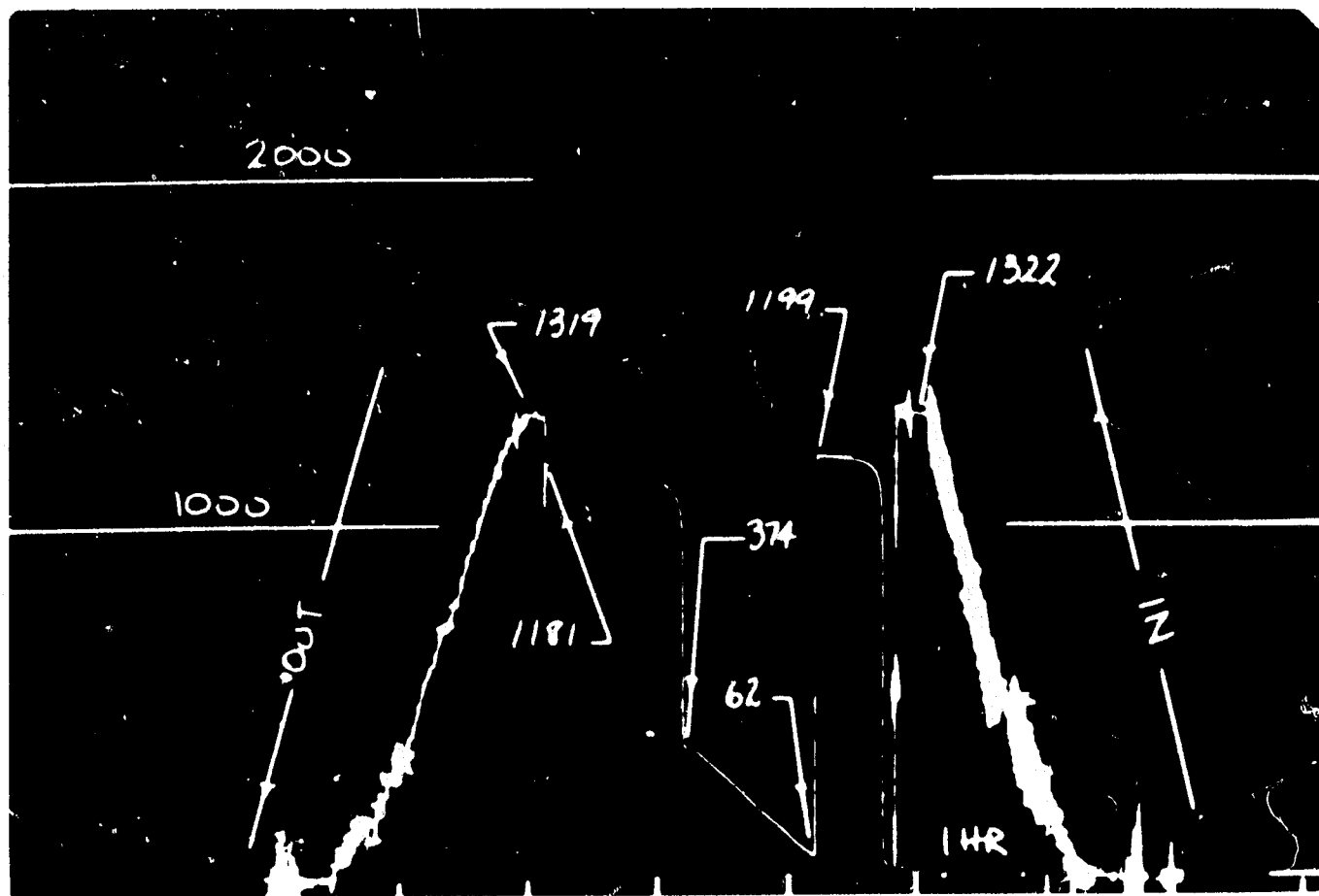


DST PRESSURE INCREMENTS

Recorder No. 5041

Depth 2821

Points	INITIAL CIP				FINAL CIP			
	Time Drill	T + 0	$\frac{T+0}{0}$	PSIG	Time Drill	T + 0	$\frac{T+0}{0}$	PSIG
1	0			89	0			426
2	5			1226	5			1155
3	10			1235	10			1178
4	15			1242	15			1192
5	20			1246	20			1199
6	25			1247	25			1206
7	28			1248	30			1210
8					35			1215
9					40			1219
10					45			1222
11					50			1225
12					55			1227
13					58			1228
14								
15								
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DRILL-STEM TEST DATA

Well Name	J Ray McDermott, Maida Creek	Test No	Three
Well Number	P-57	Zone Tested	3559 - 3876
Company	Transocean Oil Inc.	Interval	Near Rock
Comp Rep	D. Syke S. Wyman	Tester	J. Johnston
		Date	August 10, 1970

Type of Test Dual Straddle By-Pass RFS Tool No _____Prelim 5 mins ISI 60 mins Flow 60 mins PSI 61 mins

Specify Inside or Outside	INS REC No	5040	OUT REC No	5041	REC No
	3600 RANGE 12	HR CLOCK	3600 RANGE 12	HR CLOCK	RANGE HR CLOCK
DEPTH		3530		3575	
Initial Hydro Mud Press		1734		1767	
Initial Shut In Press		1576		1599	
Initial Flow Press		1000		1228	
Final Flow Press		1570		1593	
Final Shut In Press		1574		1598	
Final Hydro Mud Press		1729		1763	

Mud Drop HIL Fluid Loss _____ Mud Weight 9.4
Viscosity 48 Temperature °F 108 Net Pay Tested _____
Top Packer Depth 3559 Bottom Packer Depth 3876 Total Depth 4863
Drill Pipe Size 4" Wt 14.0 Drill Collar ID 2 7/8 Ft. Run 528
Surface Choke Size Variable Bottom Choke Size 3" Main Hole Size 7 7/8
Anchor Size 42 Rat Hole Size _____ Feet of Rat Hole _____
Cushion Amount _____ Type _____ Rubber Size 6 3/4

Fluid Recovery Total Feet 3430'
Recovered 450 Feet of Salty Drilling Mixt
Recovered 500 Feet of Muddy Salt Water
Recovered 2480 Feet of Clean Salt Water
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Gas Recovery How Measured _____ Riser size: _____

mins	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day

Bleed Off Time for Drill Pipe _____

REMARKS Strong Initial Puff
Strong air blow decreasing to dead in 50 mins.

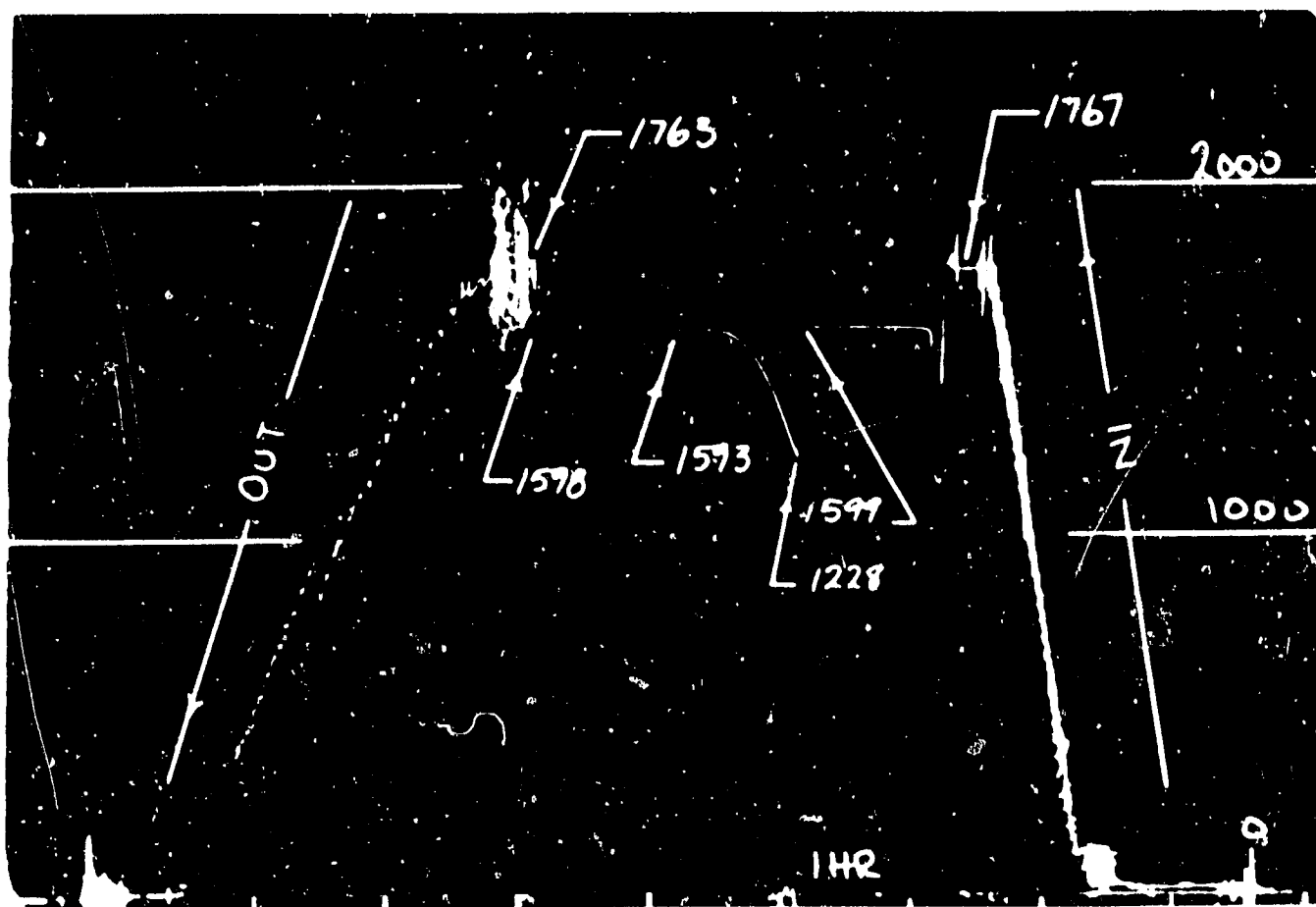
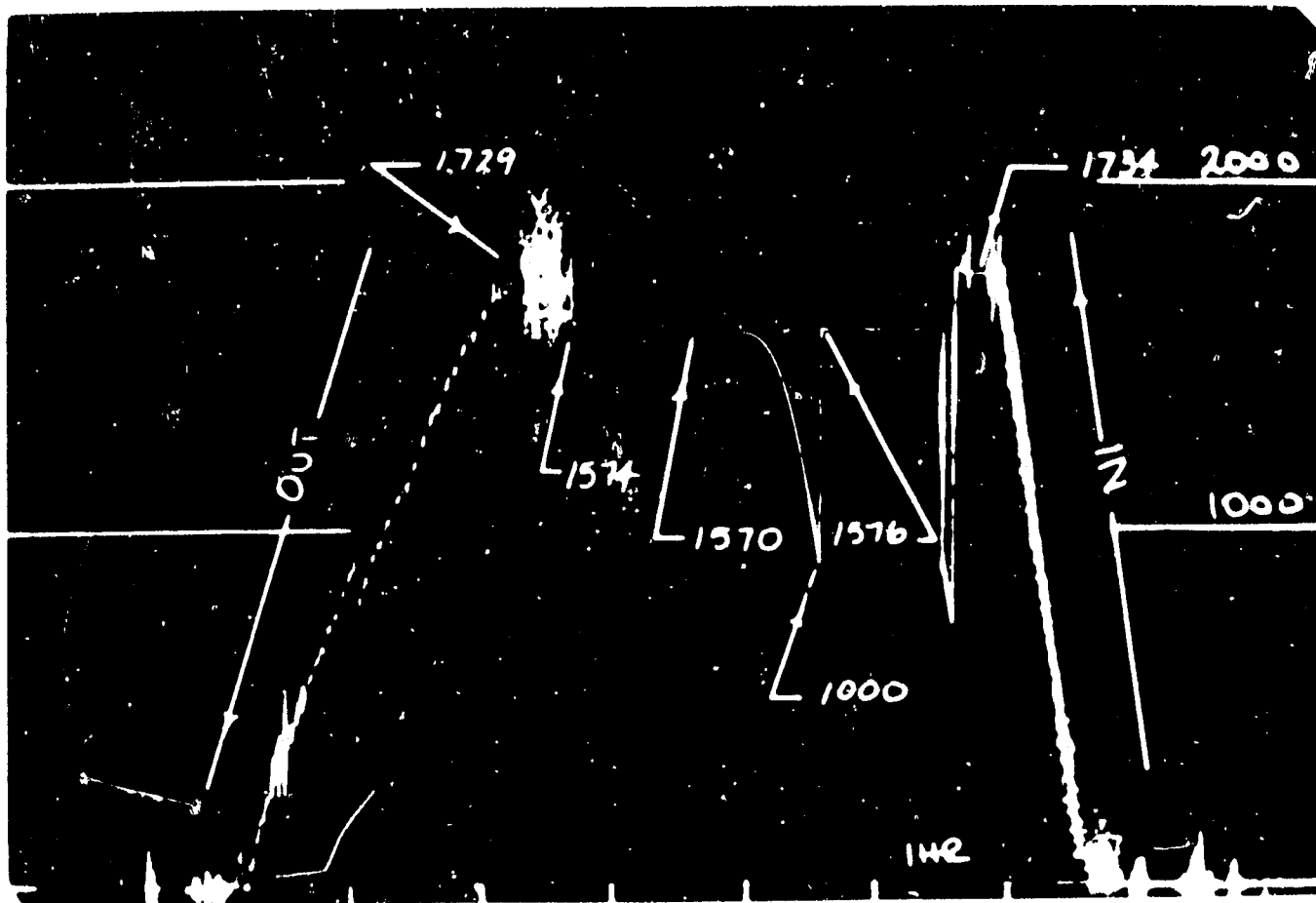


DST PRESSURE INCREMENTS

Recorder No 5040

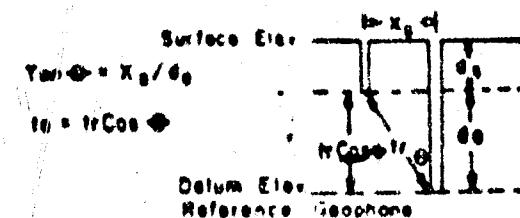
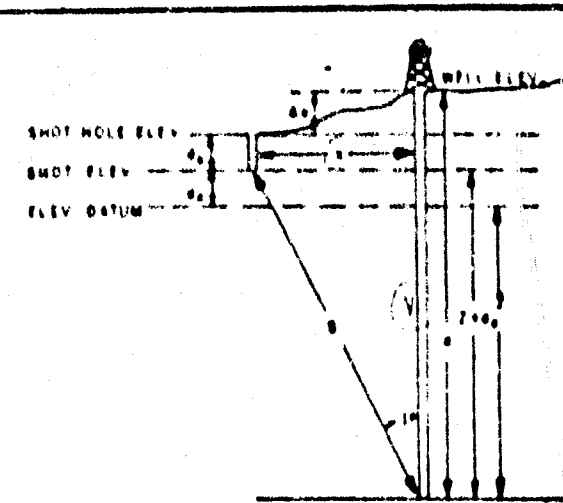
Depth 3530

Piston	INITIAL CIP				FINAL CIP			
	Time Diff. "	T + 0	$\frac{T + 0}{0}$	PMG	Time Diff. "	T + 0	$\frac{T + 0}{0}$	PMG
1	0			1190	0			1594
2	5			1594	5			1594
3	10			1596	10			1595
4	15			1597	15			1595
5	20			1597	20			1595
6	25			1597	25			1595
7	30			1598	30			1596
8	35			1598	35			1596
9	40			1598	40			1596
10	45			1598	45			1596
11	50			1598	50			1597
12	55			1599	55			1597
13	60			1599	60			1598
14					61			1598
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								



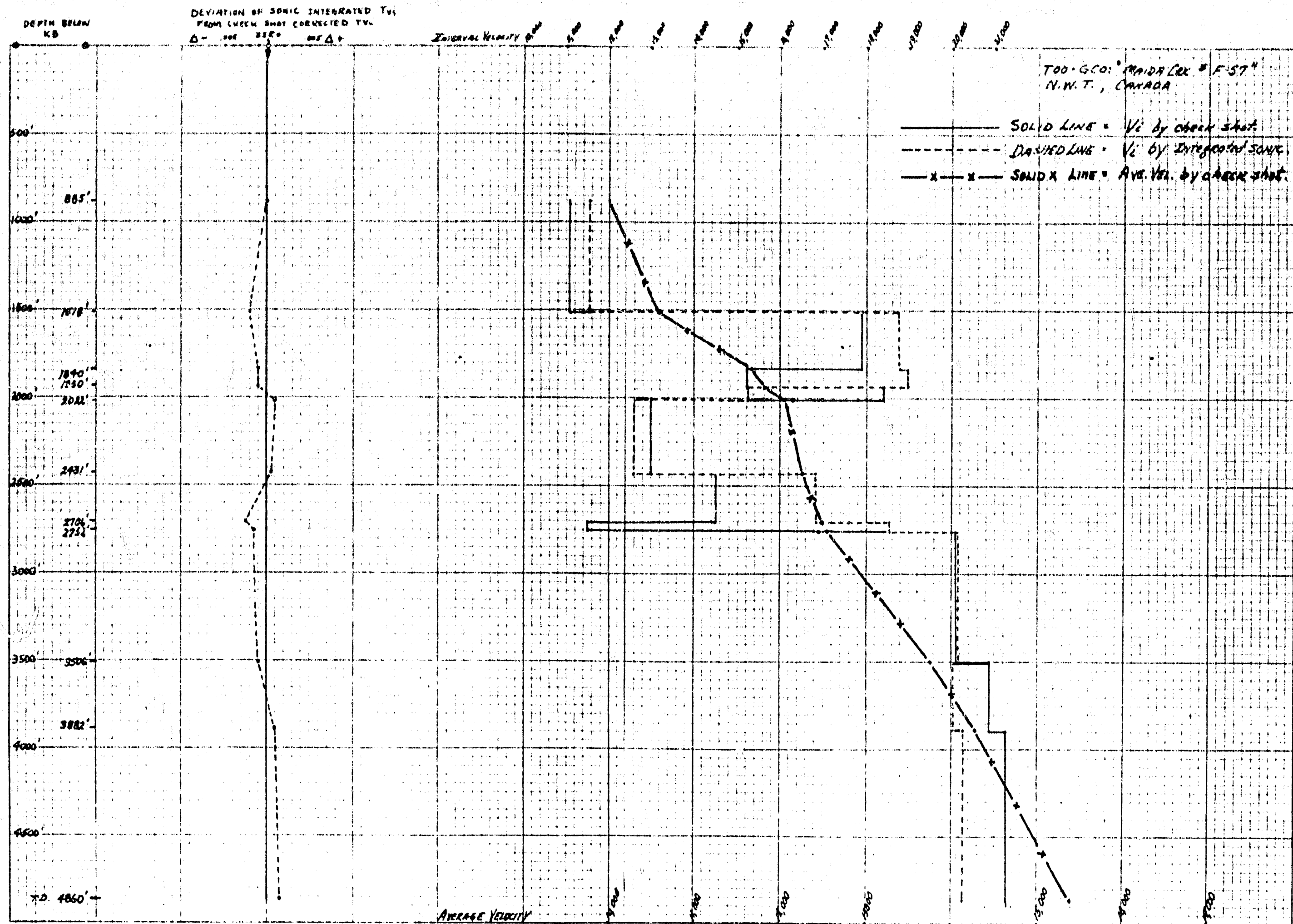
WELL: E/V Δ KB = 395 FT.
E/V Δ GL = 382 FT.

J. Ray M^c Dermott Can. Ltd, et al
MAIDA CREEK # F-57
NORTHWEST TERRITORIES, CANADA.

[illegible]

- H = Horizontal distance from well to shot point.
 - d = Well geophone depth measured from well elevation
 - d_s = Depth of shot
 - d_o = Difference in elevation between shot and elevation datum
 - d_w = Difference in elevation between well and shot point
 - Z = Well geophone depth measured from elevation datum
 $= d - (H \cdot S \cdot \text{elevation} - \text{elevation datum})$
 - Z + d_s = Well geophone depth measured from shot elevation
 $= d + d_s - \Delta d$
 - S = Straight line travel path from shot to well geophone
 - T = Observed time from shot to well geophone
 - t = Uphole time of shot or other surface reference time
- $$\text{Coast } Z + d_s / \sqrt{S^2 - (Z + d_s)^2}$$
- V = Vertical travel time from shot elevation to well geophone
 - Coast V
 - T_v = Vertical travel time from elevation datum to well geophone
 $= V - t_g$
 - V_o = Topmost velocity in consolidated layer
 - V_o = $\frac{Z}{T_v}$ = Average velocity.
 - V_i = $\frac{\Delta V}{\Delta T_v}$ = Interval velocity

2000 年 12 月 25 日



COMPANY J. RAY McDERMOTT CANADA LTD.

WELL McD CAN GCO MAIDA CK F-57

FIELD WILDCAT

PROVINCE N. W. T.

LOCATION LAT 68° 36' 17" LONG 128° 10' 32"

Permanant Datum Elev. 325

Log Interval Feet 10

Aug. 9, 1970

ON: 4661 860 4001 4022 4063 850 850 850

GEI 50

2.4 50

7.5

6.2

1.23 @ 55 4

0.61 @ 130 4

1.02 @ 20 4

1.60 @ 40 4

2.7/8

14°

34°-6'

34°-6'

34°-6'

6FF40

6FF40

6FF40

3.0 Hrs.

A 17

PLANT

AYRES

Drilling Started 23:40/8

Drilling Ended 03:50/9

Tool on Bottom 07:10/9

Log Interval 10'

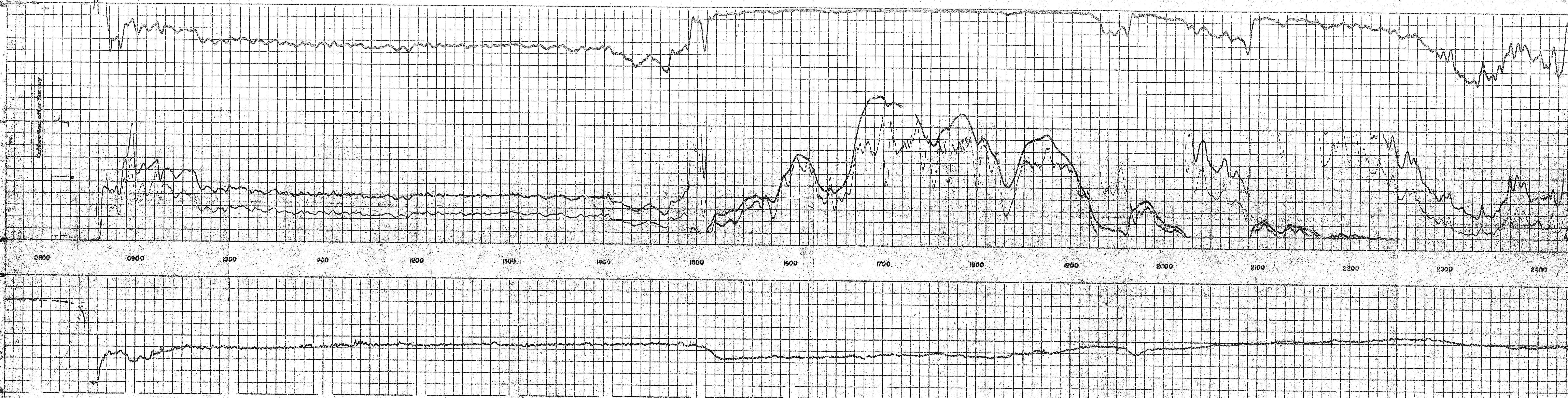
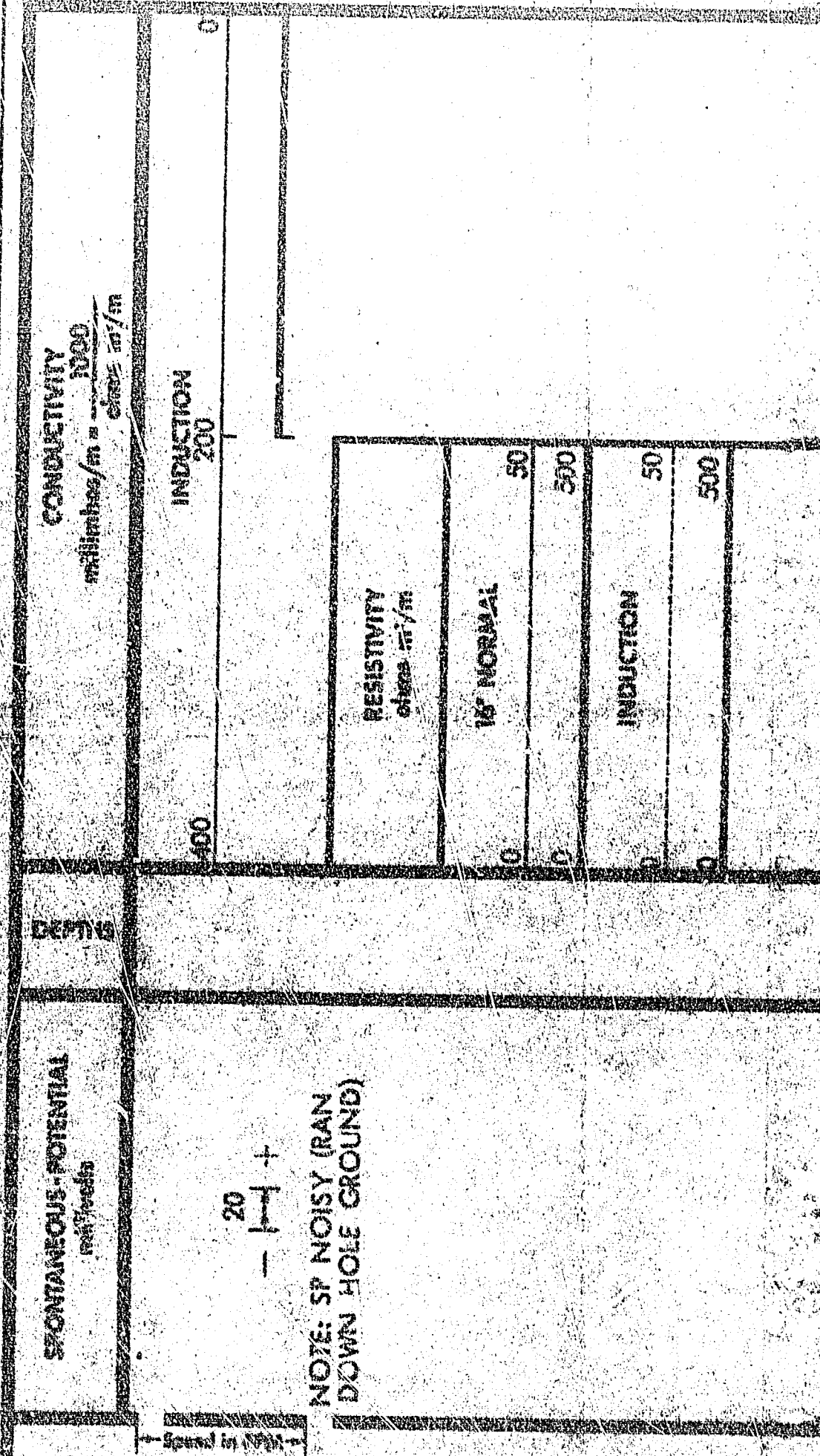
Scale 1:1

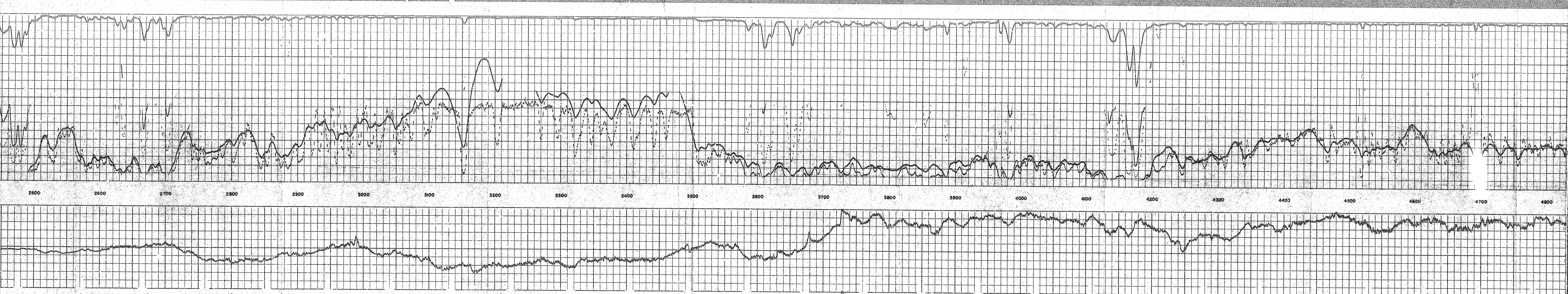
Card No. 1

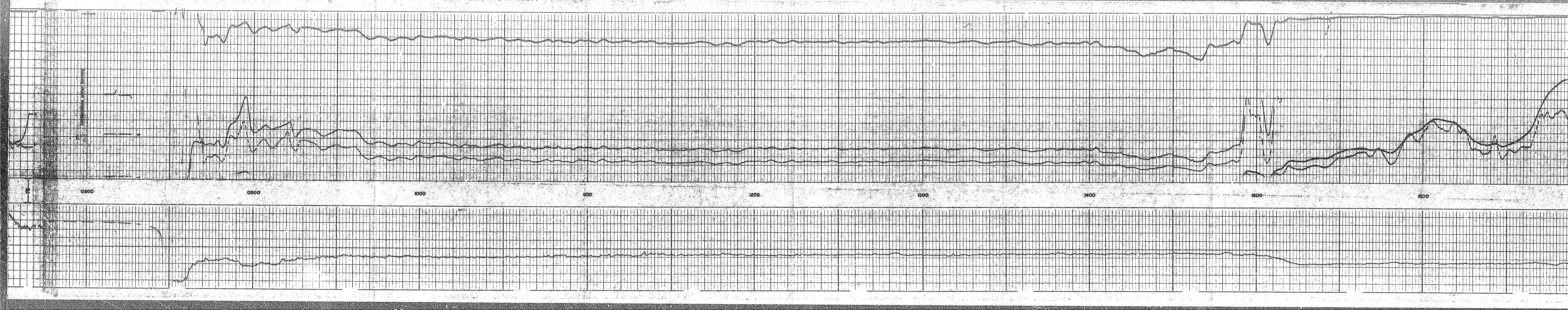
Serial No. 1

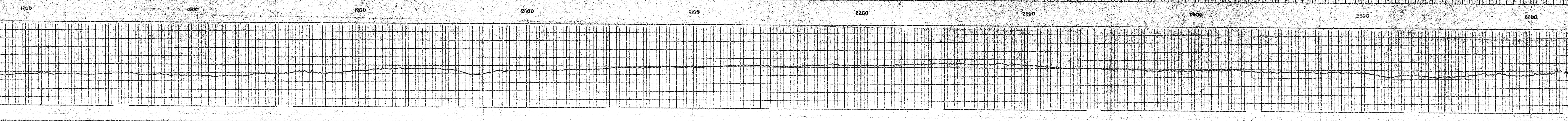
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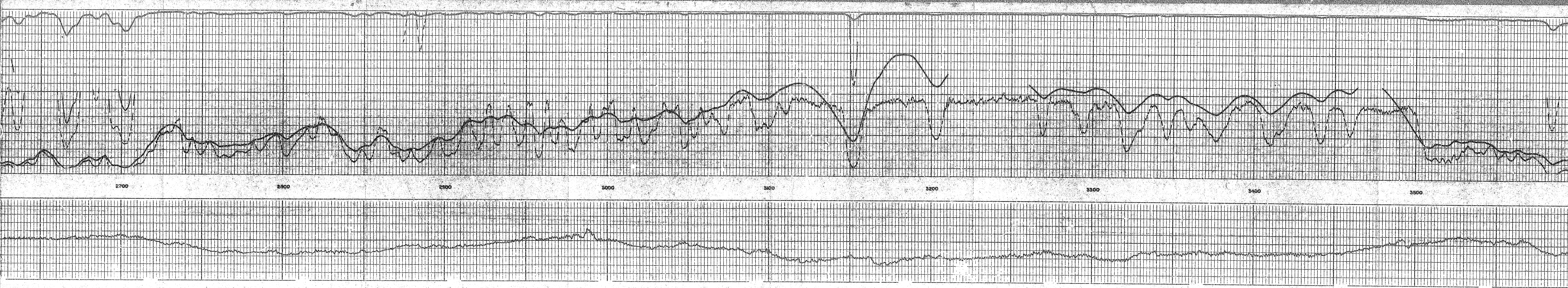
Log Date 8/20/70

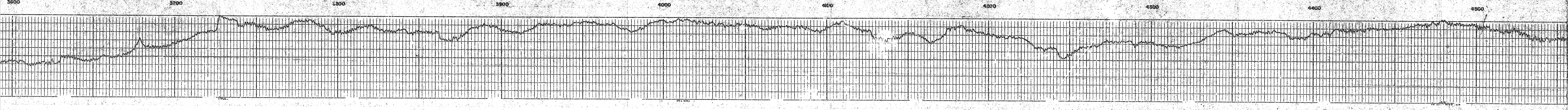
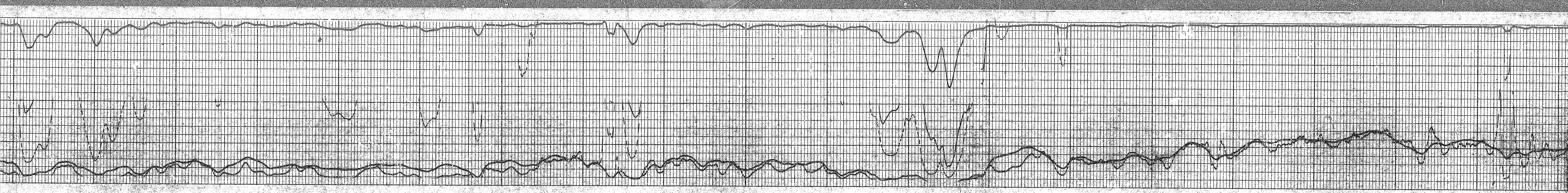


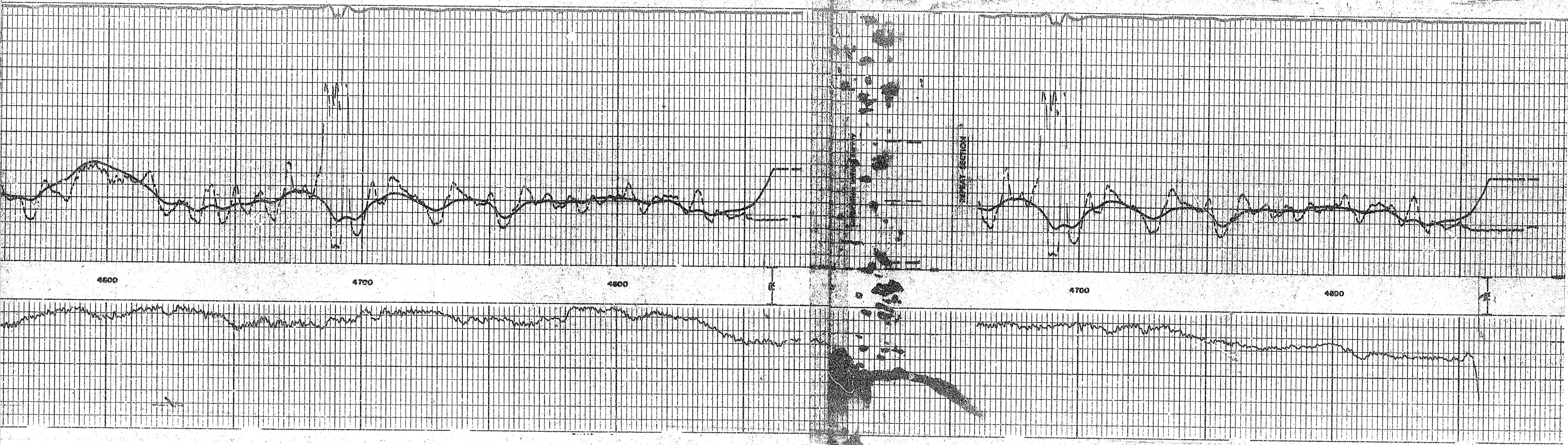


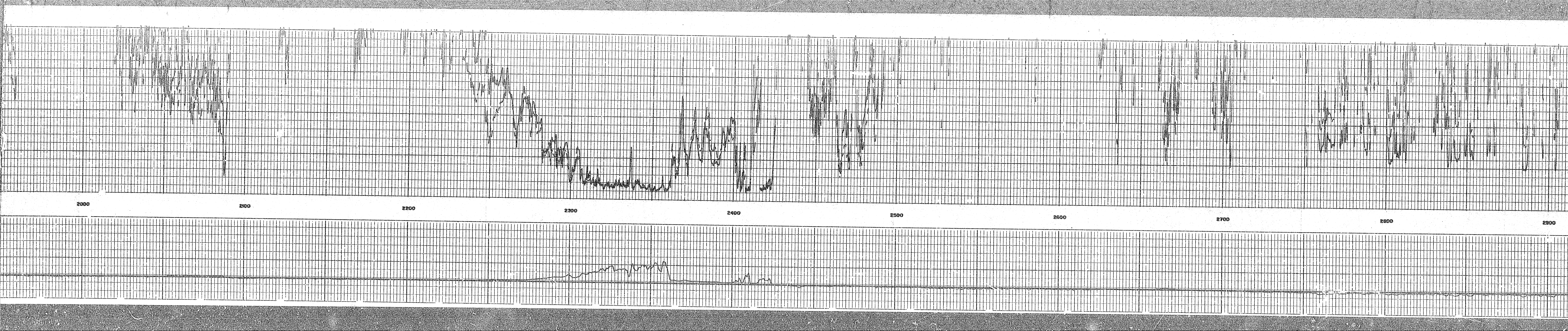


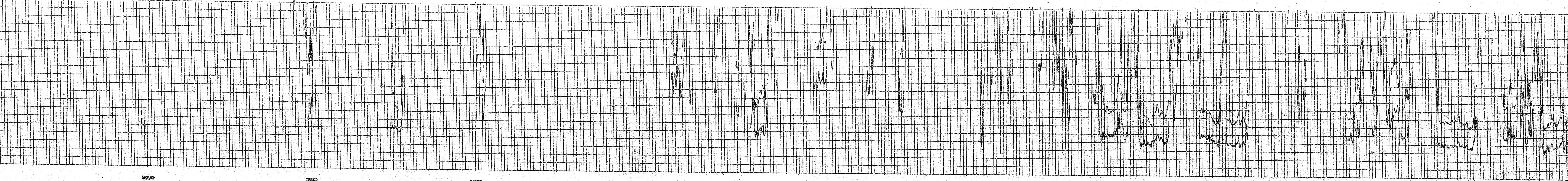












3000

3100

3200

3300

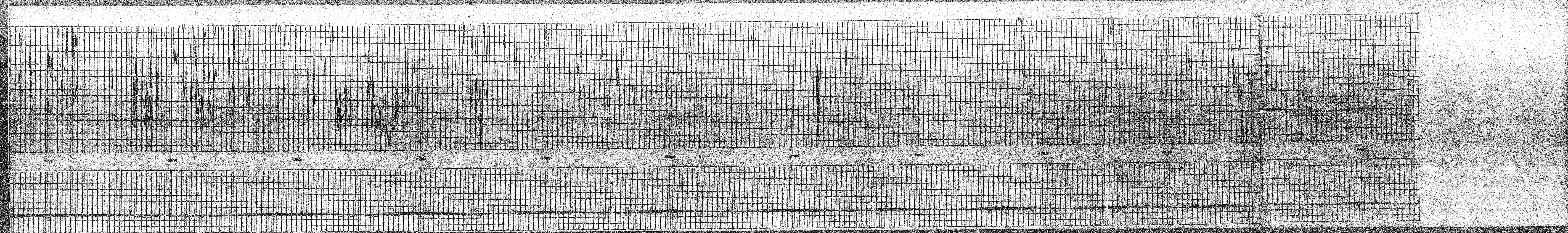
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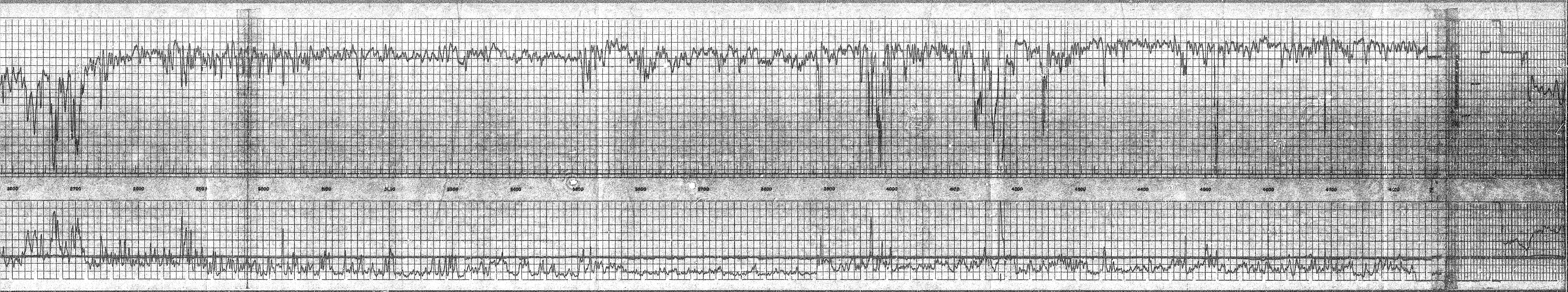
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3600

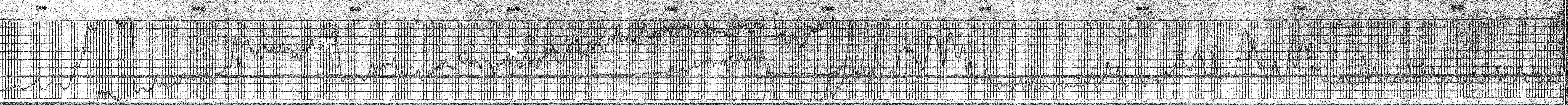
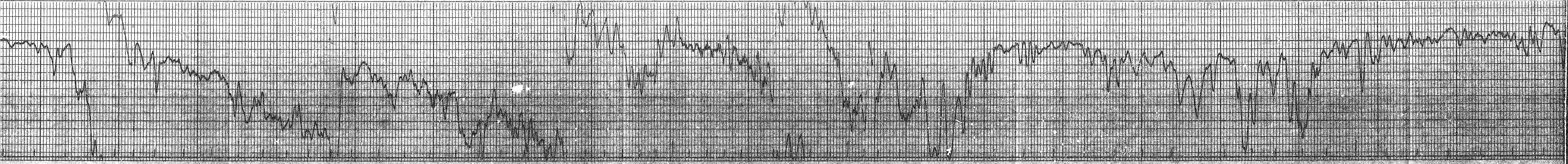
3700

3800

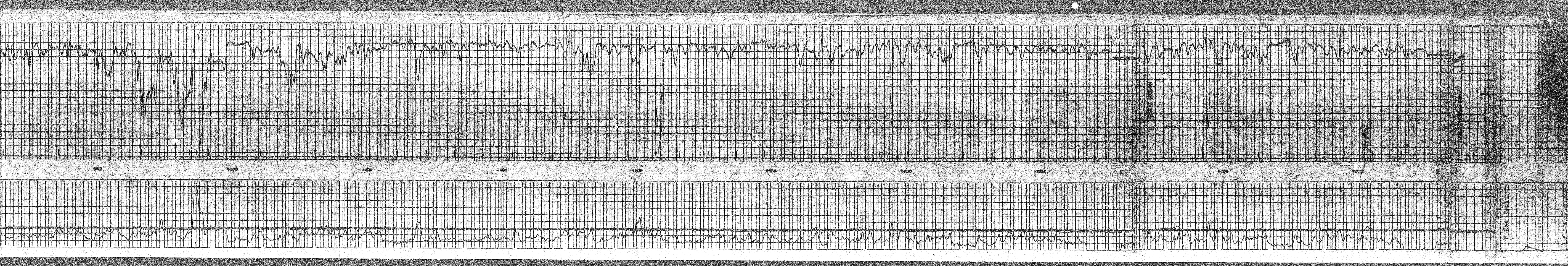












SCHLUMBERGER

SIDEWALL NEUTRON POROSITY LOG

PROVINCE N.W.T.
FIELD WILDCAT
WELL McD CAN CCO MAIDA CK F-57

COMPANY J. RAY McDERMOTT CANADA LTD.

COMPANY J. RAY McDERMOTT CANADA LTD.

WELL McD CAN CCO MAIDA CK F-57

FIELD WILDCAT

PROVINCE N.W.T.

LOCATION LAT 65° 36' 17" LONG 128° 10' 36"

Permanent Datum GL Elev 382 Log Measured From KB 13 R. Above Pen

Other Services: L-ES, BHC, FDC, HDT, MLC, CIS

ELEV. KB 395 GL 382 CBF

Date Aug 9, 1970
Run No. ONE
First Reading 4561
Last Reading 860
Feet Measured 4001
Depth Reached 4862
Bottom Identifier 4863
Csg. SOC 860
Csg. Driller 860
Mud Maturity GEL
Dens. Visc. 9.4 50
Mud pH 9.5
Water Loss 6.2
Loss 1.23 @ 55 °F
Perm 1.03 @ 60 °F
@ BH 0.53 @ 112 °F
Rinc 1.60 @ 60 °F
Rinc - CL
Bit Size 7 7/8

Equipment Type PNT-A
Opr. Rig Time
Truth No.
Recorded By PORTH
Witness SYKES

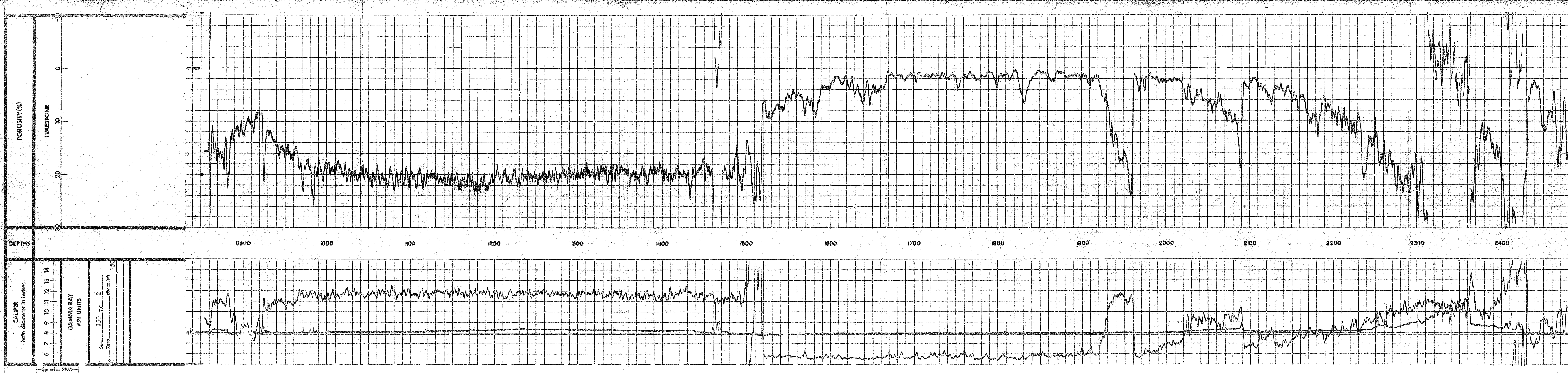
Drilling Stopped 23:00 / 8
Circulation Stopped 03:00 / 9
1st Run Service Order # 2934
B.H.T. 112

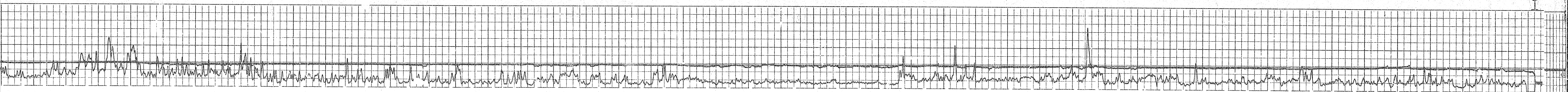
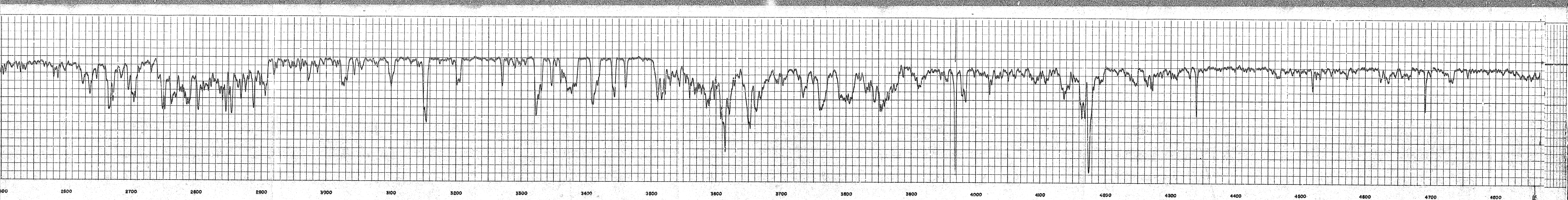
Panel No. DR 2.5
Cartridge No. HC 52
Seal No. E 310
Detector No. 5211A
CALIBRATION: Ground Ref
Background CPS 50

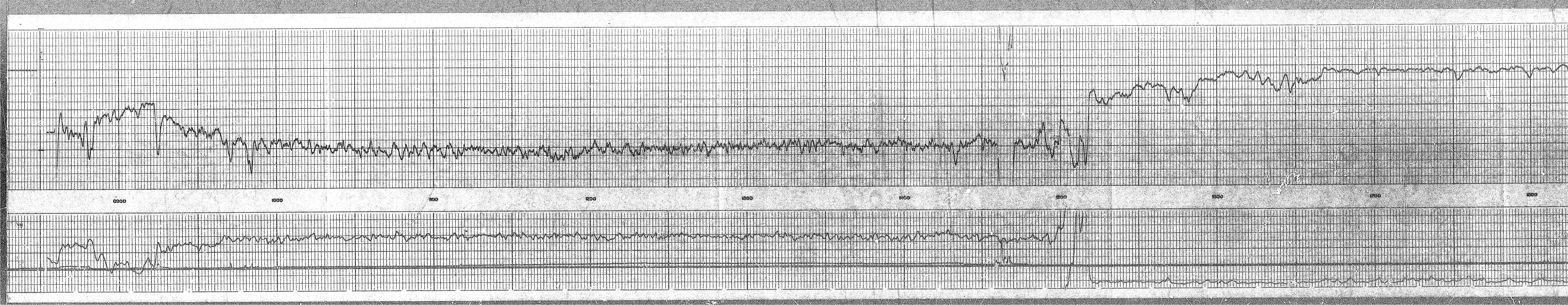
Test Source CPS 400
I.C. 2
Temp. Comp. Setting 112
Panel Settings: Function Farmer Temp. Comp. Setting 112
LIME

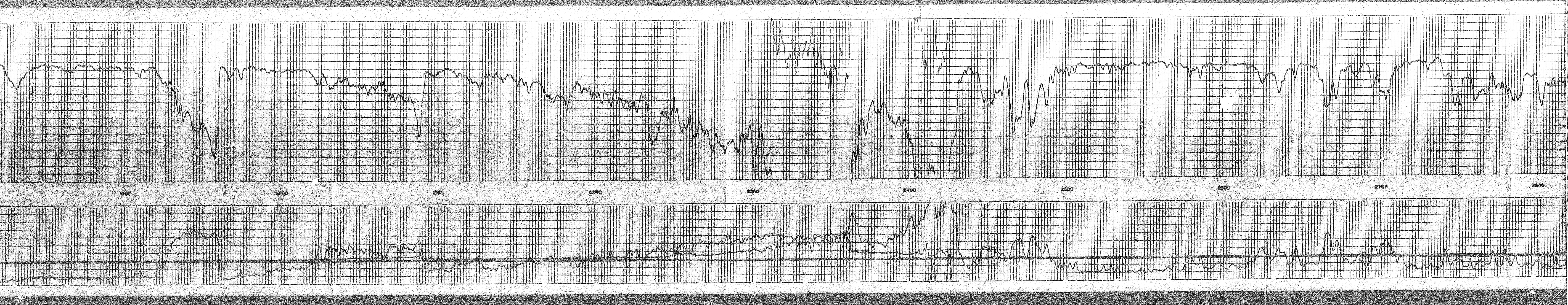
Neutron Environmental Cal. Drawer in - CPS 240
Before 390
After 245
Neutron Auxiliary Cal. - CPS Before
After

This interpretation represents our best judgment. Nevertheless since all interpretations are opinions based solely on inference from electrical or other measurements, we cannot and do not guarantee the accuracy or correctness of any interpretation and shall not be liable or responsible for any loss, cost, damages, or expenses that may be incurred or sustained resulting from this or any other interpretation.



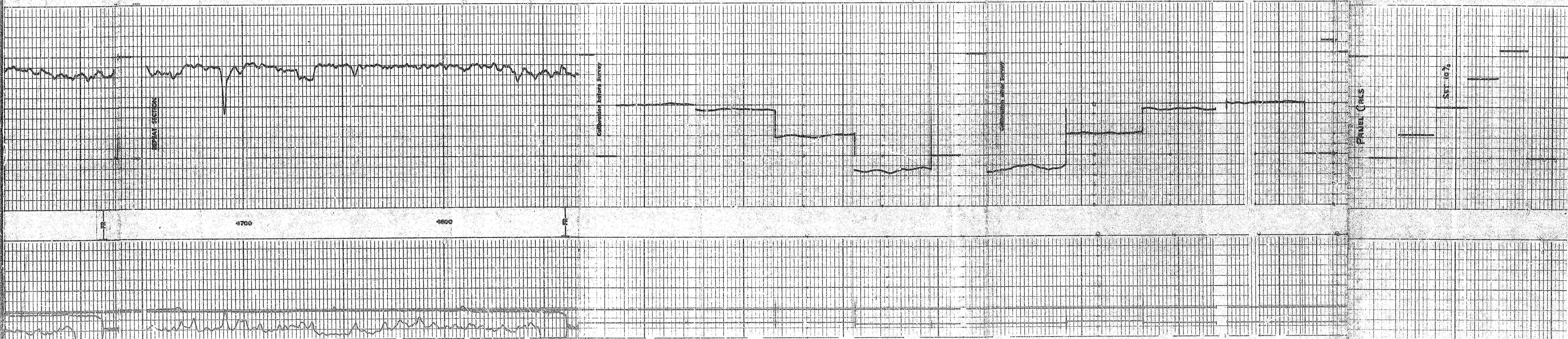


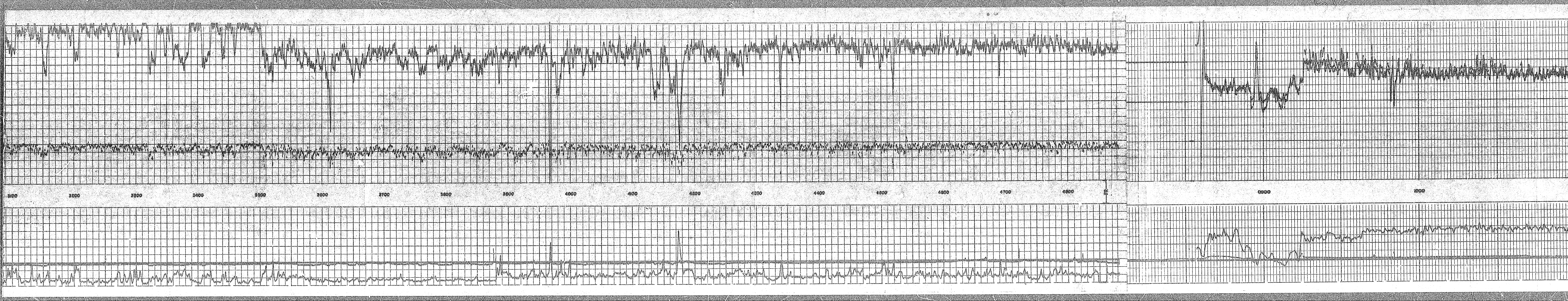


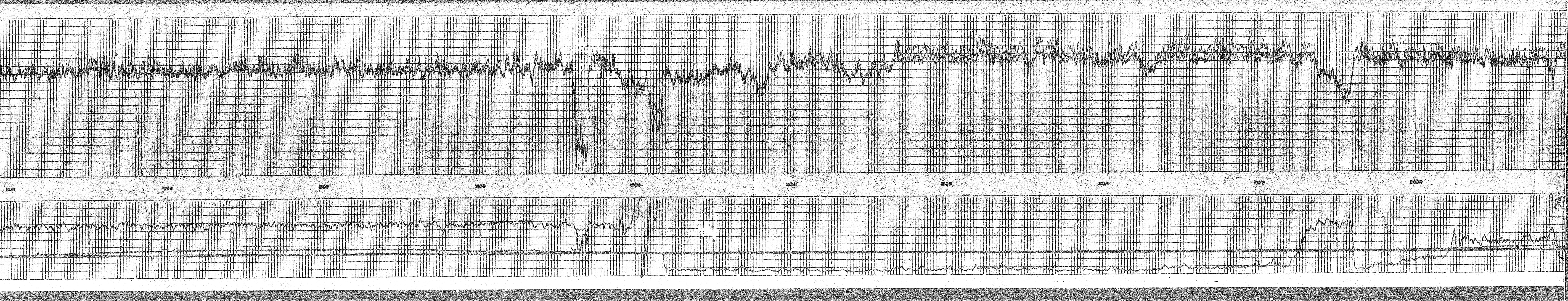


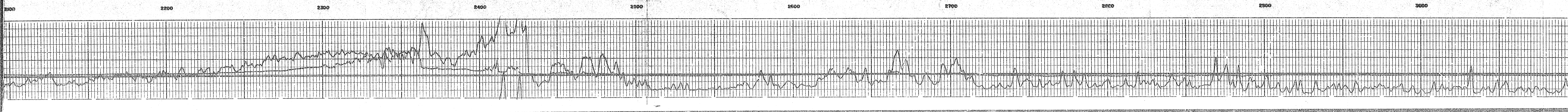
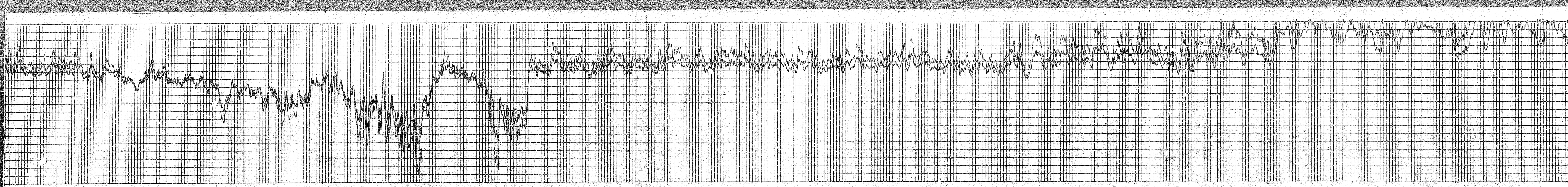


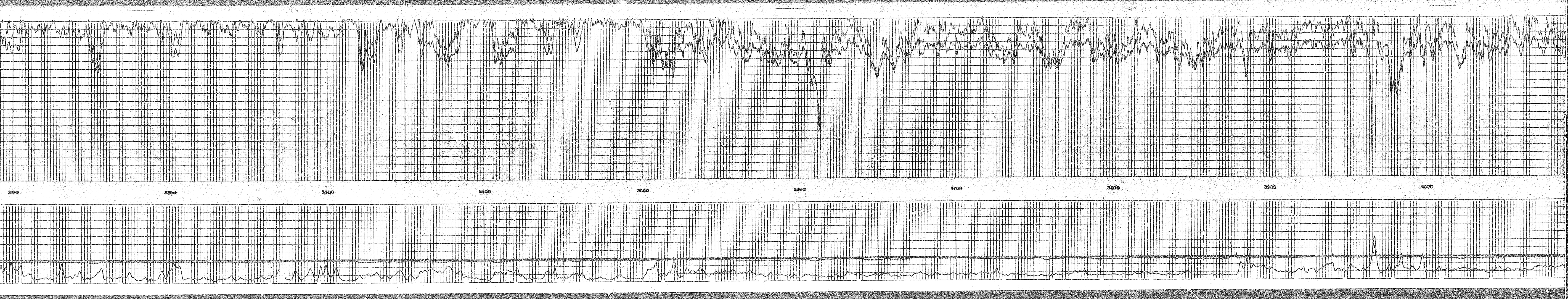




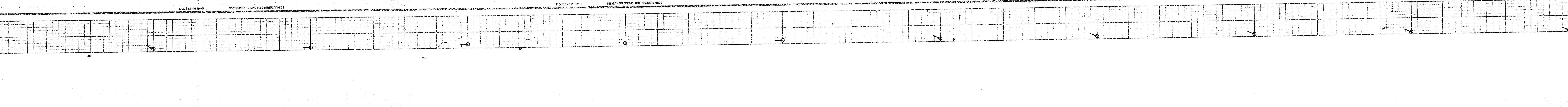
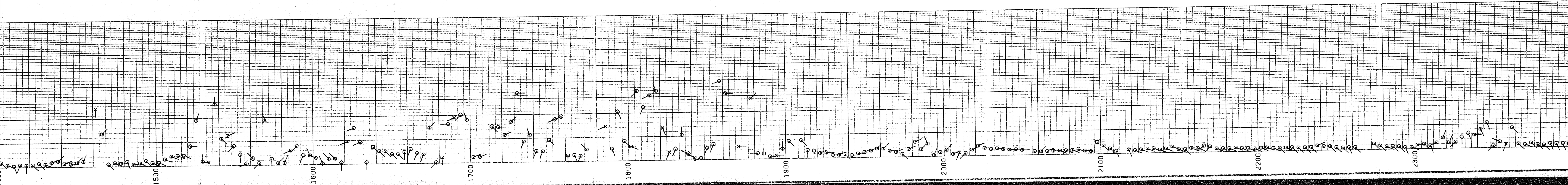












SWS H-13213

SCHLUMBERGER WELL SERVICES

SWS H-13213

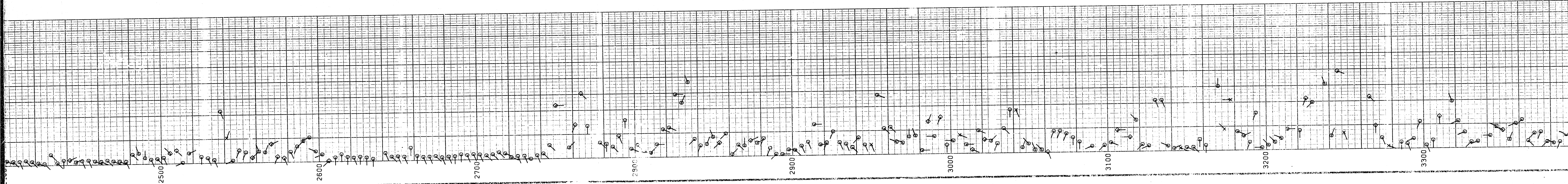
SCHLUMBERGER WELL SERVICES

SWS H-13213

SCHLUMBERGER WELL SERVICES

SWS H-13213

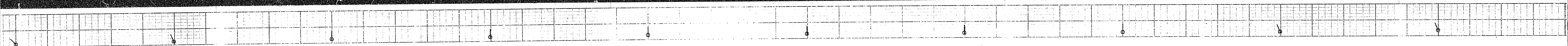
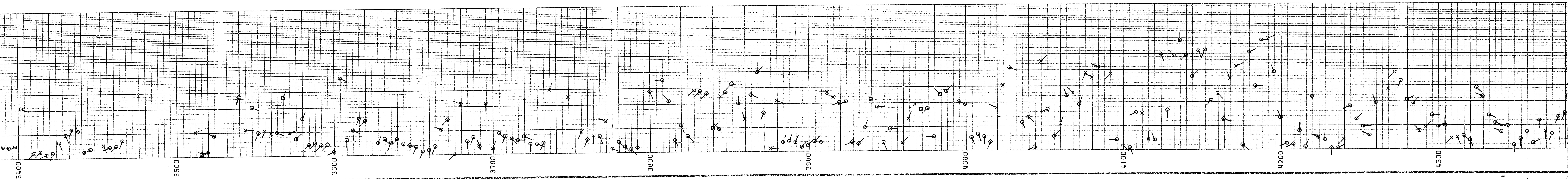
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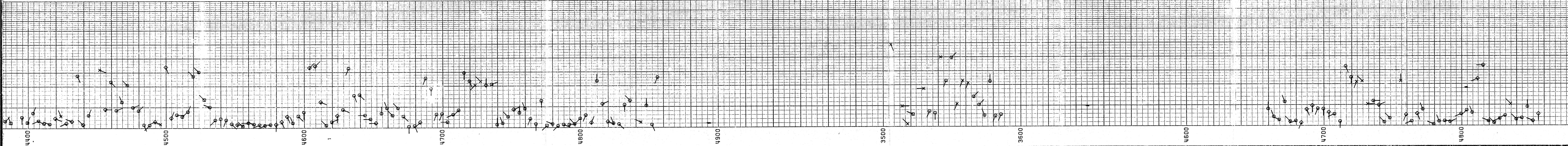


SCHLUMBERGER WELL SERVICES
SWS H-133013

SCHLUMBERGER WELL SERVICES
SWS H-133013

SCHLUMBERGER WELL SERVICES
SWS H-133013





REPEAT SECTION

REPEAT SECTION

DEPTH	TRUE DIP ANGLE	DEPTH INTERVAL	THIS DIP & TRUE DIP DIRECTION	SECTION OF SOLE
COMPANY J. RAY McDERMOTT CANADA LTD				
SCH. FR 4862				
SCH. TD 4863				
DRL TD 4863				
Elev. 395				
K9 395				
GL 382				
WELL HCD CAN GCO MALDO CK F-57				
FIELD WILLOCAT				
COUNTY RVT				
STATE CANADA				

SCHLUMBERGER

HIGH RESOLUTION
CONTINUOUS DYPMETER

COUNTY N. W. T.	WILDCAT	COMPANY J. RAY McDERMOTT	OTHER SERVICES
FIELD LOCATION	WILDCAT	CANADA LTD.	LOCATION OF WELL
WELL	CK F-57	McD' CAN COO MAIDA	WELL
COMPANY	J. RAY McDERMOTT	CK F-57	FIELD
WILDCAT	WILDCAT	WILDCAT	WILDCAT
LOCATION	LAT 65° 36' 17"	LONG 128° 10' 36"	LOCATION
COUNTY	N. W. T.		
STATE			
RUN No.	ONE	Mud Nature	CEL
Date	Aug. 9, 1970	Mud Density	2.4
Depth Datum		Mud Viscosity	50
First Reading	4862	Mud Resist.	1.23 @ 55 °F.
Last Reading	360	Mud Res. BHT	0.51 @ 110 °F.
Feet Measured	4002	Mud pH	9.5 @ °F.
Csg. Schlum.	860	Mud Wtr. Loss	6.2 CC 30 min.
Csg. Driller	860	Log Speed	3000 FPM
Depth Reached	4863	Bit Size	7 7/8
Bottom Driller	4863	Mag. Declin.	
Truck No.	A 17	HDM	D7596
Cable Length		HDS	C741
Recorded By	PORTH	HDE	DPI-D
Witness	SYKES	HDP	DDR
		C752	C742
		Opr. Rig Time	4 Hrs.

The well name, location and borehole reference data were furnished by the customer.

CHECK IF USED: UG 3" FILM 10" FILM 60" RECORD ANALOG DIGITAL

REMARKS

TOOL AZIMUTH AND HOLE DIRECTION CALCULATION

DEFINITIONS

(HSD) HIGH SIDE OF TOOL = Direction from center of tool to upper side of tool.

(N) NORTH = Direction from center of tool to Magnetic North.

(REF) REFERENCE ELECTRODE = Direction from center of tool to #1 electrode.

(AZI) AZIMUTH OF REFERENCE ELECTRODE = Clockwise angle from N to REF.

(RBR) RELATIVE BEARING = Clockwise angle from DHD to REF.

(AHD) AZIMUTH OF HOLE DEVIATION (TOOL AXIS) = Clockwise angle from N to DHD.

HDM-D

HDM-C

EXAMPLE

HDM-D - Low Angle Unit (0-36°)

AZI = 330° (solid curve) = 330°

RBR = 330° (dotted curve) = 230°

AHD = 330° - 230° = 100°

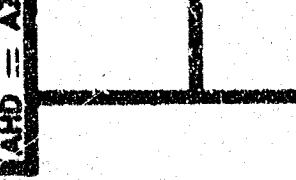
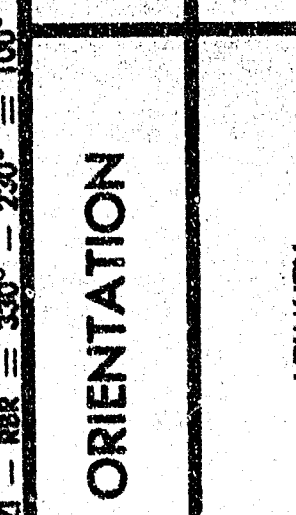
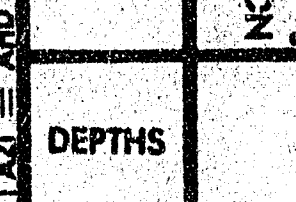
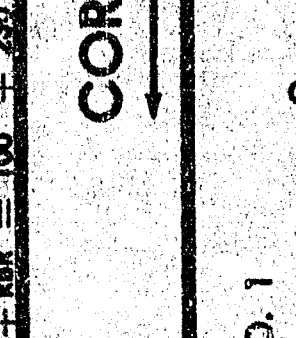
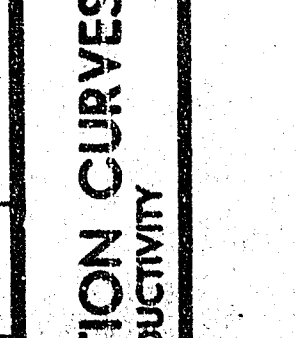
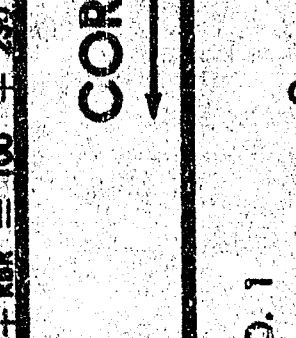
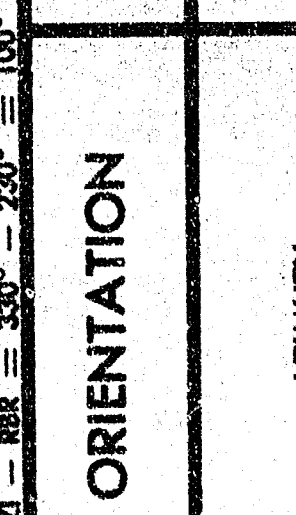
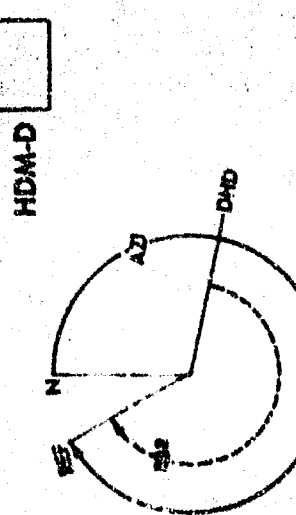
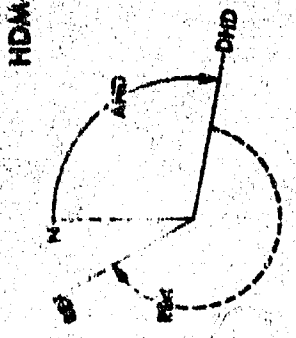
EXAMPLE

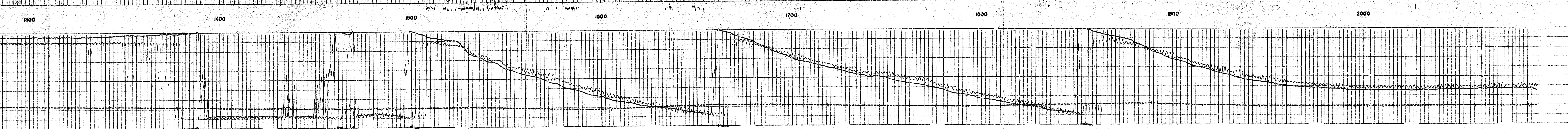
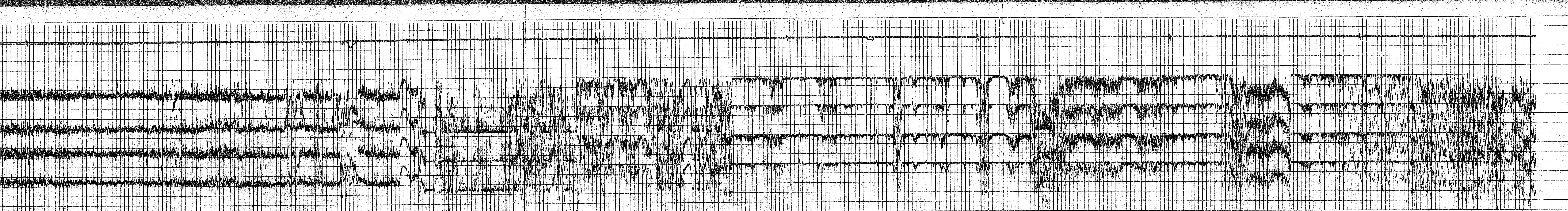
HDM-C - High Angle Unit (0-72°)

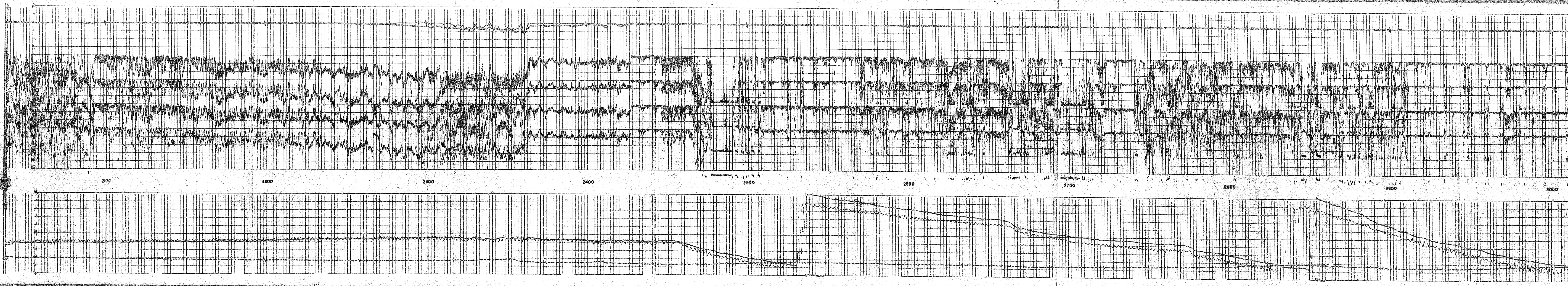
AHD = 100° (solid curve) = 100°

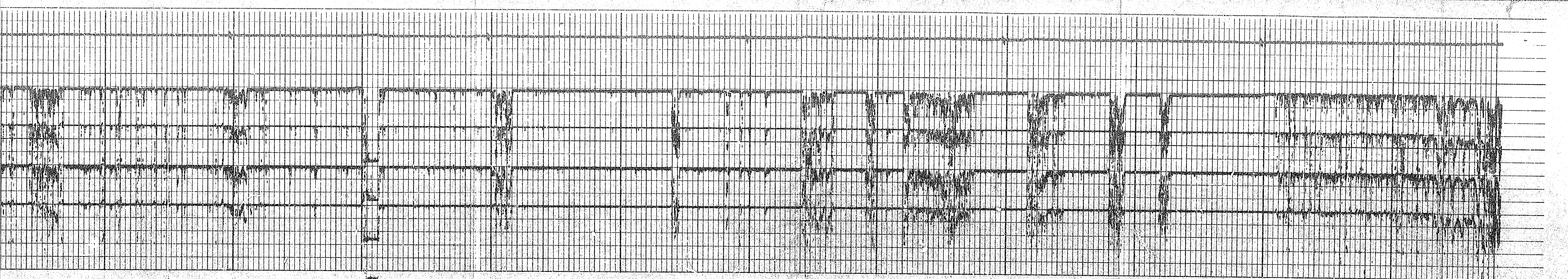
RBR = 100° (dotted curve) = 230°

AZI = 100° + 230° = 330°









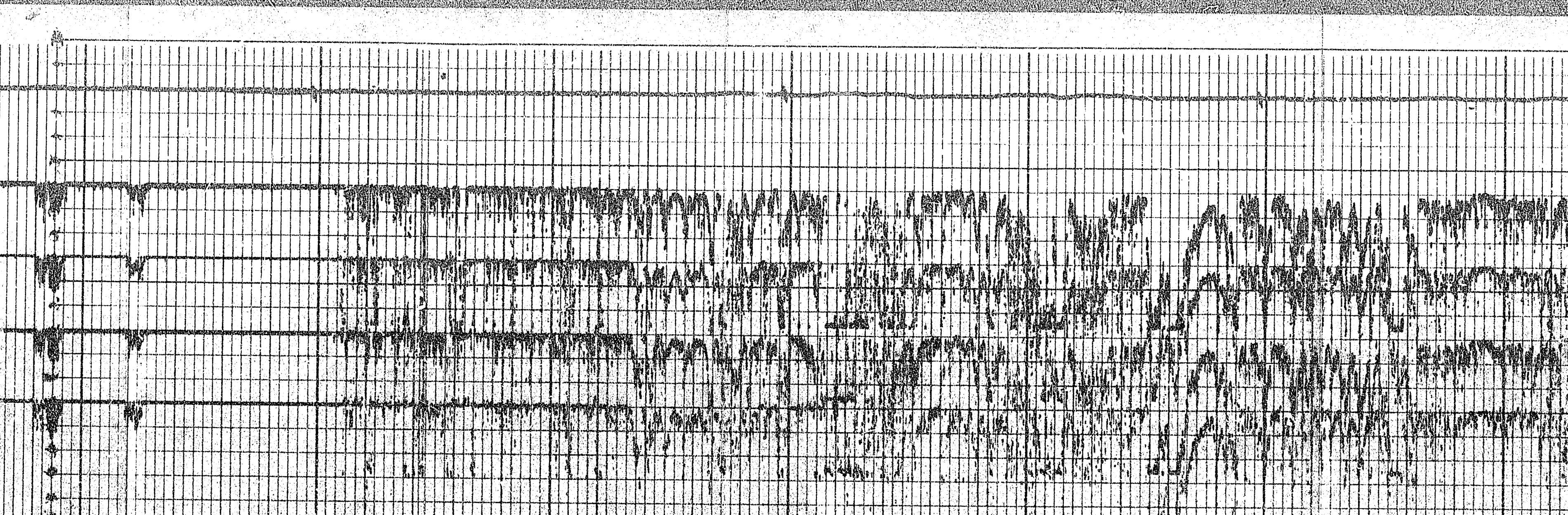
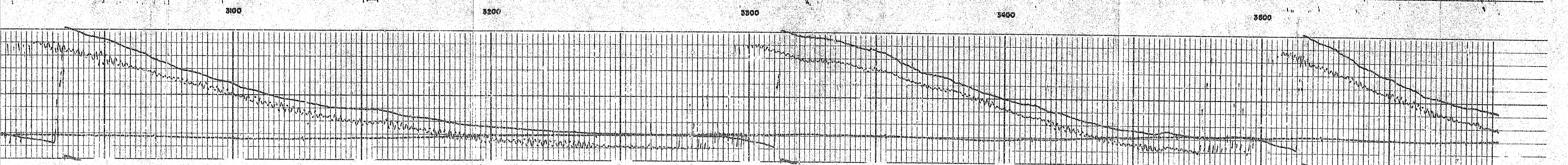
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3200

3300

3400

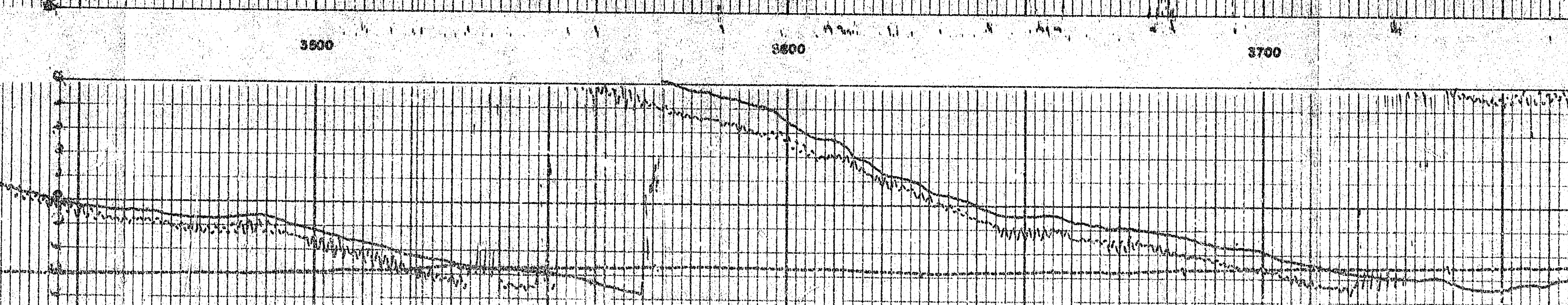
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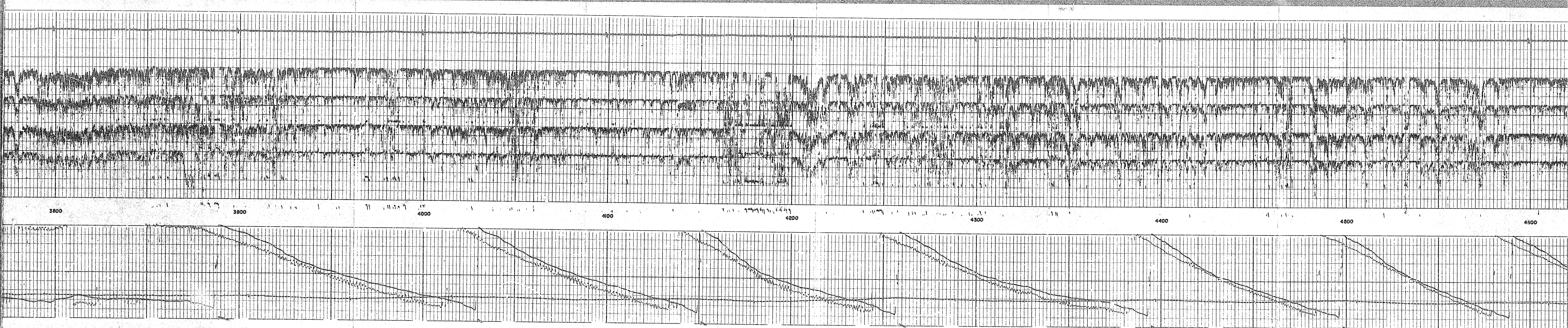


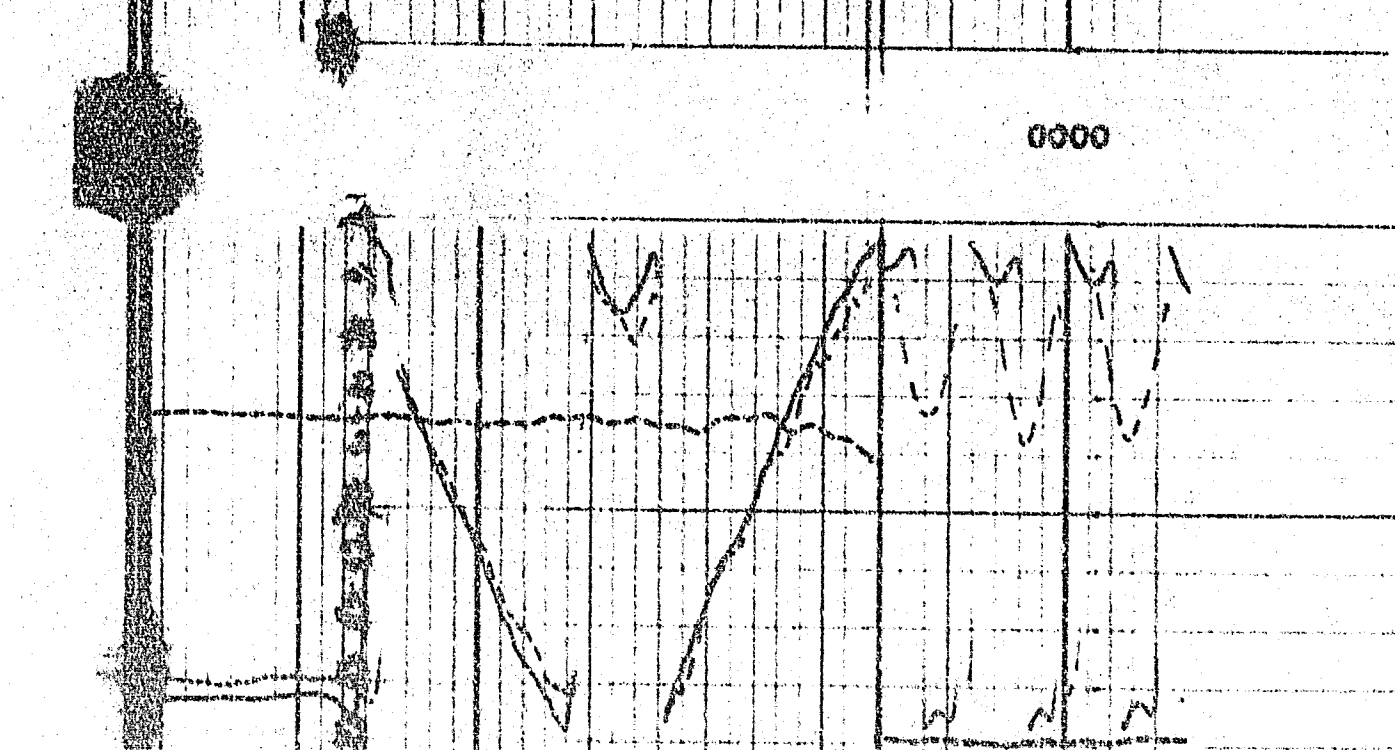
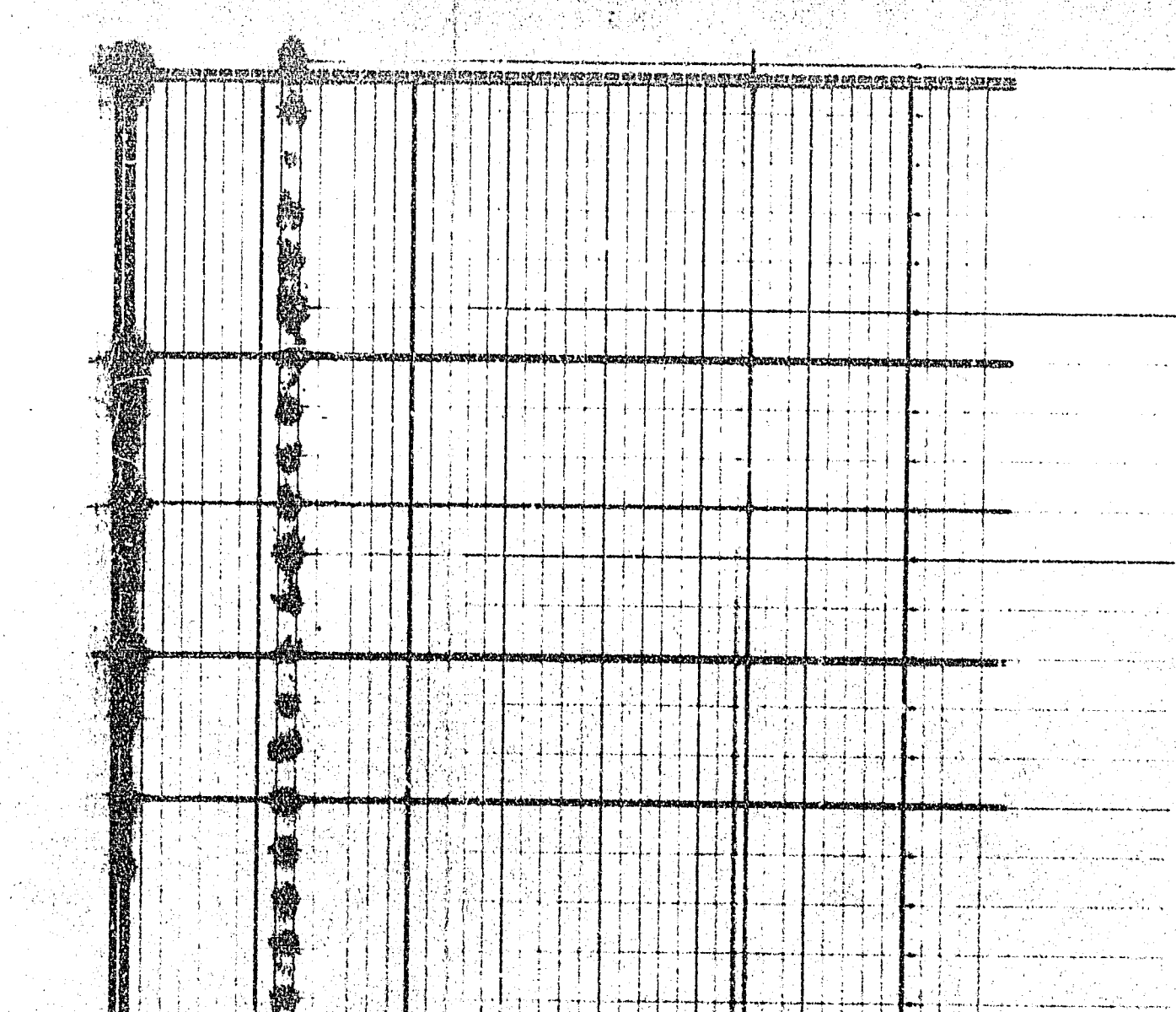
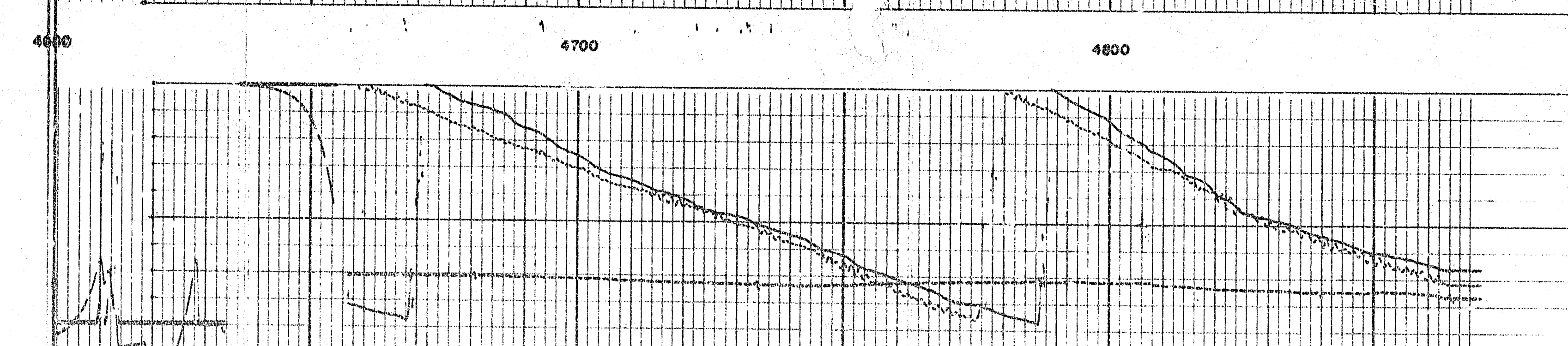
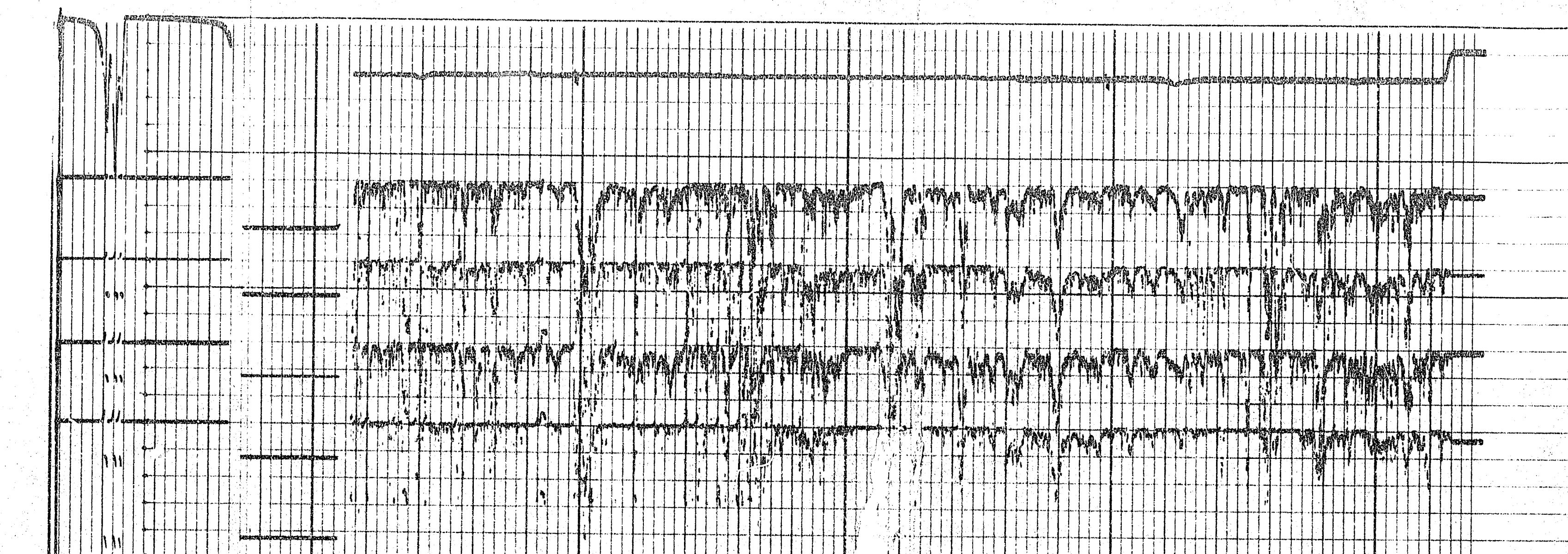
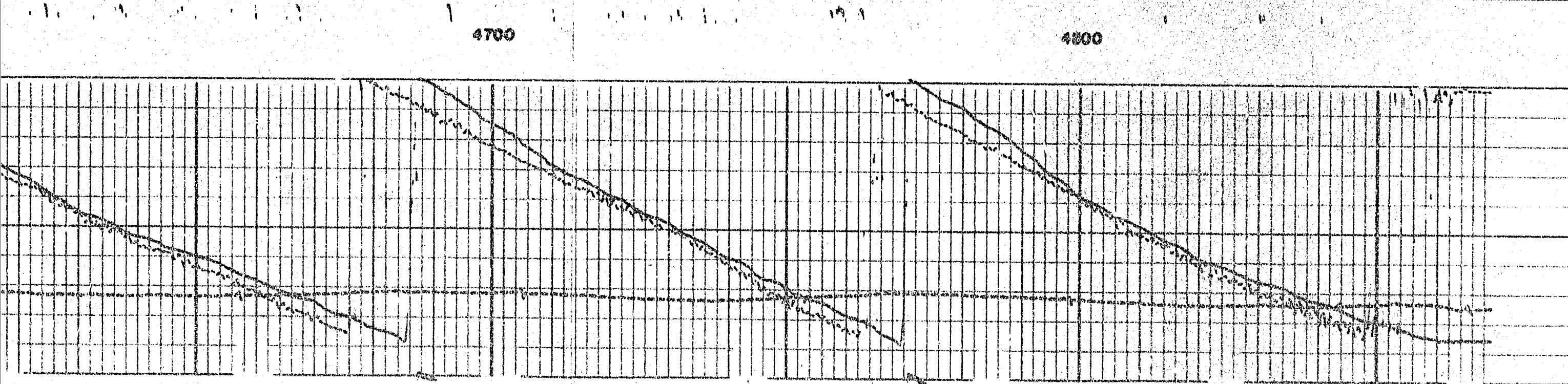
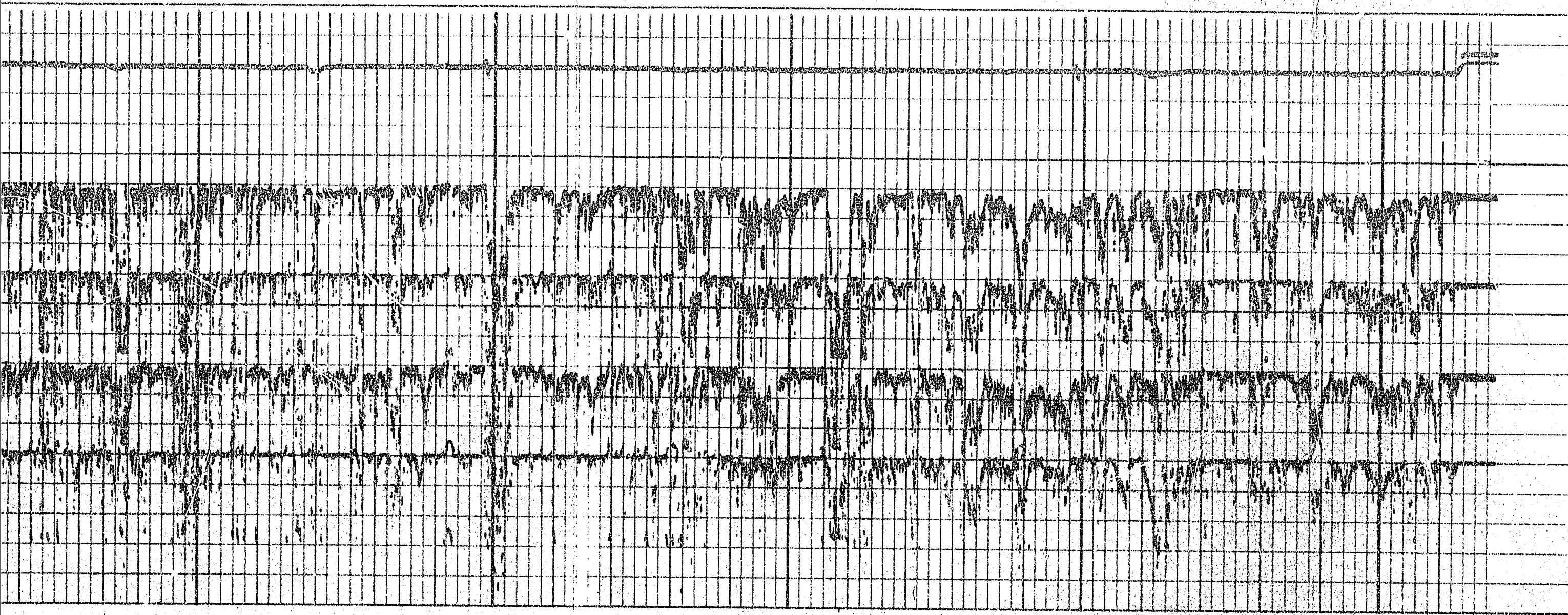
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3700







REPORT NO. 35 DATE AUG 13 1971

DATE AUG 13 1971

[illegible]

DATE 9-6-57

[illegible]

DAILY DRILLING REPORT

REPORT NO. 33

DATE August 11 -

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																			
J. RAY McDERMOTT		M.D. G.C.O. MAIRA CREEK.		F57		MAIRA CREEK.		N.W.T.		CANADA																			
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS		LAST CASING TUBING OR LINER		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS													
S & T DRILLING (WESTERN) CO. LTD.		1E	1 1/2"	5" O.D.	1. NAT. K-380 14"		2. NAT. K-380 14"		13 1/2"	Tap	48.555	3	94.67		90	67 SAR													
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO.		MANUFACTURER		TYPE		STROKE LENGTH		LAST CASING TUBING OR LINER		SIZE		MAKE		WT. & GR.		NO. JOINTS		FEET		RKB. TO CSG. HD.		SET AT		REMARKS	
[Signature]		[Signature]		1.		NAT.		K-380		14"		2.		NAT.		K-380		14"		3.								500 am 32 Cole	
TIME DISTRIBUTION - HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
WORN DAY EVE		STANDS D.P. FT.		BIT NO.		TIME		FROM TO		DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
RIG UP & TEAR DOWN		SINGLES D.P. FT.		SIZE		WEIGHT		TD.		DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
DRILLING ACTUAL		D.C.		MFG.		VISC. - SEC				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
REAMING		I.D. O.D. FT.		TYPE		W.L. - C.C.				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
CONDITIONING MUD & CIRCULATING		D.C.		NO.		FLTR. CK.				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
TRIPS		I.D. O.D. FT.		NOZZLE		PH				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
LUBRICATE RIG		STB. BODY O.D. FT.		SER. NO.		SD. CONT. %				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
DEVIATION SURVEY		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
TEST B.O.P.		RMR. BODY O.D. FT.		DEPTH IN						DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
CUT OFF DRILLING LINE		SUBS O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
CUT OFF RIG		BIT OR C.B. FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
CUT OFF LINE LOGGING		KELLY DOWN FT.		COND. OF BIT		DRILLER		Rm Smith		DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
CUT OFF CASING & CEMENTING		TOTAL FT.		REAMER NO.						DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
WAITING ON CEMENT		WT. OF STRING LBS.		REAMER TYPE						DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
DRILL TEST		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
OTHER		STANDS D.P. FT.		BIT NO.		TIME				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
A. PERFORATION		SINGLES D.P. FT.		SIZE		WEIGHT				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
B. TURBO TRIPS		D.C.		MFG.		VISC. - SEC				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
C. STABING		I.D. O.D. FT.		TYPE		W.L. - C.C.				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
D. TESTED		D.C.		NO.		FLTR. CK.				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
E. ADDITIONAL		I.D. O.D. FT.		NOZZLE		PH				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
TIME SUMMARY (OF USE ONLY)		STB. BODY O.D. FT.		SER. NO.		SD. CONT. %				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
DAY WORK		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
HRS. W/DP		RMR. BODY O.D. FT.		DEPTH IN						DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
HRS. W/DP		SUBS O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
HRS. STANDBY		BIT OR C.B. FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
TOTAL DAY WORK		KELLY DOWN FT.		COND. OF BIT		DRILLER		Rm Smith		DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
WIRE LINE RECORD		TOTAL FT.		REAMER NO.						DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
REEL NO.		WT. OF STRING LBS.		REAMER TYPE						DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
NO. OF LINES		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FEET SLIPPED		STANDS D.P. FT.		BIT NO.		TIME				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
FEET CUT OFF		SINGLES D.P. FT.		SIZE		WEIGHT				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
PRESENT LENGTH		D.C.		MFG.		VISC. - SEC				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
TOM M. OR TRIPS SINCE LAST CUT		I.D. O.D. FT.		TYPE		W.L. - C.C.				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
CUMULATIVE TOM M. OR TRIPS		D.C.		NO.		FLTR. CK.				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
NO. OF DAYS FROM SPUD		I.D. O.D. FT.		NOZZLE		PH				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
CUMULATIVE ROTATING HRS.		STB. BODY O.D. FT.		SER. NO.		SD. CONT. %				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
		RMR. BODY O.D. FT.		DEPTH IN						DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
		SUBS O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
		BIT OR C.B. FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.				DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
		KELLY DOWN FT.		COND. OF BIT		DRILLER		Rm Smith		DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
		TOTAL FT.		REAMER NO.						DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
		WT. OF STRING LBS.		REAMER TYPE						DR. D RM. R CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			

1200 100 1 Laydown Testing Tees & v R.H. Rame
100 370 2 1/2 Run in Drill Collar & Laydown
330 530 2 Run in 4 Drill pipe open end & Pick up 17 singles
530 800 2 1/2 Circulate & Wash on end

863 - FTD

8- 400 8 Circulation

Run Plug #1 4000 - 3000 cement
w/ 36 SAR PORTLAND CEMENT PLUS 3% CRACK.
Plug Down @ 730 PM Aug 11/20

300 700 3 Circ. well O. Rame
700 750 4 1/2 Plug #2 4000 - 3000 cement
730 1245 4 1/2 w/ O. Cement
+ 3200 / 4000

DAILY DRILLING REPORT

REPORT NO. 32

DATE August 10-1

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE											
J. Ray McDermott		M.D. G.C.O. MAIDA CREEK		E57		MAIDA CREEK		AL. W.T.		CANADA											
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS		LAST CASING TUBING OR LINER		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS					
S & T DRILLING (WESTERN) CO. LTD.		1E	NO. 1	SIZE 5" O.D.	TYPE THD. 3 1/2 IF	NO. 1	MANUFACTURER N.A.T.	TYPE K-380	STROKE LENGTH 14"	13 1/2	MAID	48 ISS	3	94.67	90'	67 000 Count					
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL FINDER		NO. 2		MANUFACTURER N.A.T.		TYPE K-380	STROKE LENGTH 14"	8 1/2	MAID	48 ISS	24	876.42	860'	500 000 370 Cuts					
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL FINDER		NO. 3		MANUFACTURER		TYPE	STROKE LENGTH												
TIME DISTRIBUTION - HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
MORN DAY EVE		STANDS D.P. FT.		BIT NO.		TIME		FROM TO		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
RIG UP & TEAR DOWN		SINGLES D.P. FT.		SIZE		WEIGHT		11863		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
DRILLING ACTUAL		D.C.		MFG.		VISC.-SEC				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
REAMING		I.D. O.D. 528.52 FT.		TYPE		W.L.-C.C.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
CONDITIONING MUD & CIRCULATING		D.C.		NOZZLE		FLTR. CK.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
TRIPS		I.D. O.D. FT.		NO. SIZE		PH				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
LUBRICATE RIG		STB. BODY O.D. FT.		SER. NO.		SD. CONT. %				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
DEVIATION SURVEY		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
TEST B.O.P.		RMR. BODY O.D. FT.		DEPTH IN		MUD & CHEMICALS ADDED				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
CUT OFF DRILLING LINE		SUBS O.D. 1.65 FT.		TOTAL FTG.		TYPE AMT. TYPE AMT.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
RIG		BIT OR C.B. FT.		TOTAL HR. RUN						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
WIRE LINE LOGGING		KELLY DOWN FT.		COND. OF BIT		REAMER NO.		DRILLER Ron Smith		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
RUNNING CASING & CEMENTING		TOTAL FT.		REAMER TYPE						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
WAITING ON CEMENT		WT. OF STRING LBS.								FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
DRILL STEM TEST		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
CYCLE		STANDS D.P. FT.		BIT NO.		TIME		1200		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
FLOWING		SINGLES D.P. FT.		SIZE		WEIGHT		9.4		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
A. PERFORATING		D.C.		MFG.		VISC.-SEC		48		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
B. TUBING TRIPS		I.D. O.D. FT.		TYPE		W.L.-C.C.		6.4		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
C. SWABING		D.C.		NOZZLE		FLTR. CK.		3/12		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
D. TESTING		I.D. O.D. FT.		NO. SIZE		PH		9.0		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
E. ADDITIONAL		STB. BODY O.D. FT.		SER. NO.		SD. CONT. %		6		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
TIME SUMMARY (OFFICE USE ONLY)		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT		48.29 PSI		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
DAY WORK		RMR. BODY O.D. FT.		DEPTH IN		MUD & CHEMICALS ADDED		G.L.O. 4360		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
HRS. W/DP		SUBS O.D. FT.		TOTAL FTG.		TYPE AMT. TYPE AMT.		D. 10.12		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
HRS. NO/DP		BIT OR C.B. FT.		TOTAL HR. RUN						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
HRS. STANDBY		KELLY DOWN FT.		COND. OF BIT		REAMER NO.		DRILLER		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
TOTAL DAY WORK		TOTAL FT.		REAMER TYPE						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
WIRE LINE RECORD		WT. OF STRING LBS.								FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
REEL NO.		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
NO. OF LINES		STANDS D.P. FT.		BIT NO.		TIME				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
FEET SLIPPED		SINGLES D.P. FT.		SIZE		WEIGHT				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
FEET CUT OFF		D.C.		MFG.		VISC.-SEC				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
PRESENT LENGTH		I.D. O.D. FT.		TYPE		W.L.-C.C.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
TON MI. OR TRIPS SINCE LAST CUT		D.C.		NOZZLE		FLTR. CK.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
CUMULATIVE TON MI. OR TRIPS		I.D. O.D. FT.		NO. SIZE		PH				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
NO. OF DAYS FROM SPUD		STB. BODY O.D. FT.		SER. NO.		SD. CONT. %				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
CUMULATIVE ROTATING HRS.		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		RMR. BODY O.D. FT.		DEPTH IN		MUD & CHEMICALS ADDED				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		SUBS O.D. FT.		TOTAL FTG.		TYPE AMT. TYPE AMT.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		BIT OR C.B. FT.		TOTAL HR. RUN						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		KELLY DOWN FT.		COND. OF BIT		REAMER NO.		DRILLER		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		TOTAL FT.		REAMER TYPE						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		WT. OF STRING LBS.								FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
		STANDS D.P. FT.		BIT NO.		TIME				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		SINGLES D.P. FT.		SIZE		WEIGHT				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		D.C.		MFG.		VISC.-SEC				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		I.D. O.D. FT.		TYPE		W.L.-C.C.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		D.C.		NOZZLE		FLTR. CK.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		I.D. O.D. FT.		NO. SIZE		PH				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		STB. BODY O.D. FT.		SER. NO.		SD. CONT. %				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		RMR. BODY O.D. FT.		DEPTH IN		MUD & CHEMICALS ADDED				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		SUBS O.D. FT.		TOTAL FTG.		TYPE AMT. TYPE AMT.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		BIT OR C.B. FT.		TOTAL HR. RUN						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		KELLY DOWN FT.		COND. OF BIT		REAMER NO.		DRILLER		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		TOTAL FT.		REAMER TYPE						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		WT. OF STRING LBS.								FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
		STANDS D.P. FT.		BIT NO.		TIME				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		SINGLES D.P. FT.		SIZE		WEIGHT				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		D.C.		MFG.		VISC.-SEC				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		I.D. O.D. FT.		TYPE		W.L.-C.C.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		D.C.		NOZZLE		FLTR. CK.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		I.D. O.D. FT.		NO. SIZE		PH				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		STB. BODY O.D. FT.		SER. NO.		SD. CONT. %				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		RMR. BODY O.D. FT.		DEPTH IN		MUD & CHEMICALS ADDED				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		SUBS O.D. FT.		TOTAL FTG.		TYPE AMT. TYPE AMT.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		BIT OR C.B. FT.		TOTAL HR. RUN						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		KELLY DOWN FT.		COND. OF BIT		REAMER NO.		DRILLER		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		TOTAL FT.		REAMER TYPE						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		WT. OF STRING LBS.								FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
		STANDS D.P. FT.		BIT NO.		TIME				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		SINGLES D.P. FT.		SIZE		WEIGHT				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		D.C.		MFG.		VISC.-SEC				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		I.D. O.D. FT.		TYPE		W.L.-C.C.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		D.C.		NOZZLE		FLTR. CK.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		I.D. O.D. FT.		NO. SIZE		PH				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		STB. BODY O.D. FT.		SER. NO.		SD. CONT. %				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		RMR. BODY O.D. FT.		DEPTH IN		MUD & CHEMICALS ADDED				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		SUBS O.D. FT.		TOTAL FTG.		TYPE AMT. TYPE AMT.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		BIT OR C.B. FT.		TOTAL HR. RUN						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		KELLY DOWN FT.		COND. OF BIT		REAMER NO.		DRILLER		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		TOTAL FT.		REAMER TYPE						FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		WT. OF STRING LBS.								FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
		STANDS D.P. FT.		BIT NO.		TIME				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		SINGLES D.P. FT.		SIZE		WEIGHT				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		D.C.		MFG.		VISC.-SEC				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		I.D. O.D. FT.		TYPE		W.L.-C.C.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		D.C.		NOZZLE		FLTR. CK.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		I.D. O.D. FT.		NO. SIZE		PH				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		STB. BODY O.D. FT.		SER. NO.		SD. CONT. %				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		RMR. BODY O.D. FT.		DEPTH IN		MUD & CHEMICALS ADDED				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
		SUBS O.D. FT.		TOTAL FTG.		TYPE AMT. TYPE AMT.															

DAILY DRILLING REPORT

REPORT NO. 31

DATE August 7-70

OPERATOR				LEASE				WELL NO.				FIELD OR DIST.				COUNTY				STATE																																							
J. Ray McDERMOTT				McD. G.C.O MAIDA CREEK.				F57				MAIDA CREEK.				ALBERTA				CANADA																																							
CONTRACTOR				RIG NO.		DRILL PIPE STRING		TOOL JOINT		PUMPS				LAST CASING TUBING OR LINER		SIZE		MAKE		WT. & GR.		NO. JOINTS		FEET		RKB. TO CSG. HD.		SET AT		REMARKS																													
S & T DRILLING (WESTERN) CO. LTD.				1E		NO. 1		SIZE 4" TYPE TH 3/4 IF		1. A/B.T. H. 380 14"				2. A/B.T. H. 380 14"		1 3/4		JAP		WT 1.55		3		94.67		90'		REMARKS 1st 62' 50' 37' Col.																															
NATURE OF OPERATOR'S REPRESENTATIVE				SIGNATURE OF CONTRACTOR'S TOOL PUSHER				NO.				MANUFACTURER				TYPE				STROKE LENGTH				LAST CASING TUBING OR LINER				SIZE				MAKE				WT. & GR.				NO. JOINTS				FEET				RKB. TO CSG. HD.				SET AT				REMARKS			
J. Ray McDERMOTT				J. Ray McDERMOTT				1				A/B.T.				H. 380				14"				1 3/4				JAP		WT 1.55		3		94.67		90'		REMARKS 1st 62' 50' 37' Col.																					
TIME DISTRIBUTION (HOURS)				NO.				DRILLING ASSEMBLY AT END OF TOUR				BIT RECORD				MUD RECORD				FOOTAGE				DR. O. R. L. R. CORE NO.				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM				WT. ON BIT 1000#				PUMP PRESS				PUMP NO.				PUMP NO.				METHOD RUN							
RIG UP & TEAR DOWN				15				STANDS D.P. 41289.66 FT.				BIT NO. 12				TIME 2:00 3:00				FROM 4859 TO 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
DRILLING ACTUAL				18				SINGLES D.P. 528.58 FT.				SIZE 7/8				WEIGHT 9.4 9.4				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
REAMING				1				D.C.				MFG. H-6				VISC.-SEC 50 50				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
CONDITIONING MUD & CIRCULATING				1				I.D. O.D. 528.58 FT.				TYPE 6W.C				W.L.-C.C. 6.2 6.2				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
TRIPS				24				I.D. O.D. 528.58 FT.				NOZZLE NO. 3-11				FLTR. CK. 4/32 3/32				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
LUBRICATE RIG				1				STB. BODY O.D. 3.67 FT.				SER. NO. 92406				SD. CONT. % 1				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
DEVIATION SURVEY				1				STB. BODY O.D. 4.97 FT.				DEPTH OUT 4863				PRESSURE GRADIENT 109				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
TEST B.O.P.				1				RMR. BODY O.D. 3.56 FT.				DEPTH IN 4792				MUD & CHEMICALS ADDED				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
TEST OFF DRILLING LINE				1				SUBS O.D. 1.65 FT.				TOTAL FTG. 71'				TYPE AMT. TYPE AMT.				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
DRILL RIG				1				BIT OR C.B. 8.70 FT.				TOTAL HR. RUN 17 1/4				COND. OF BIT 2-21				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
DRILL LINE LIFTING				2 8 8				KELLY DOWN 22.87 FT.				COND. OF NT 2-21				DRILLER Ben Smith				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
DRILLING CASING & CEMENTING				110 M				TOTAL 4863.00 FT.				REAMER NO.				DRILLER Ben Smith				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
DRILLING ON CEMENT				110 M				TOTAL 4863.00 FT.				REAMER TYPE				DRILLER Ben Smith				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
DRILL & STEM TEST				1				STANDS D.P. 41289.66 FT.				BIT NO. 12				TIME 2:00 3:00				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
STEM TEST				1				SINGLES D.P. 528.58 FT.				SIZE 7/8				WEIGHT 9.4 9.4				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
DRILLING				1				D.C.				MFG. H-6				VISC.-SEC 50 50				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
A. PREPARATION				1				I.D. O.D. 528.58 FT.				TYPE 6W.C				W.L.-C.C. 6.2 6.2				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
B. TESTING				1				D.C.				NOZZLE NO. 3-11				FLTR. CK. 4/32 3/32				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
C. SHARPENING				1				I.D. O.D. 528.58 FT.				SER. NO. 92406				SD. CONT. % 1				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
D. TESTING				1				STB. BODY O.D. 3.67 FT.				DEPTH OUT 4863				PRESSURE GRADIENT 109				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
E. ADDITIONAL				1				STB. BODY O.D. 4.97 FT.				DEPTH IN 4792				MUD & CHEMICALS ADDED				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
TIME SUMMARY (OFFICE USE ONLY)				1				SUBS O.D. 1.65 FT.				TOTAL FTG. 71'				TYPE AMT. TYPE AMT.				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
DAY WORK				1				BIT OR C.B. 8.70 FT.				TOTAL HR. RUN 17 1/4				COND. OF NT 2-21				DRILLER Ben Smith				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.							
WIRE LINE RECORD				1				KELLY DOWN 22.87 FT.				COND. OF NT 2-21				DRILLER Ben Smith				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
REEL NO.				1				TOTAL 4863.00 FT.				REAMER NO.				DRILLER Ben Smith				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
NO. OF LINES				1				TOTAL 4863.00 FT.				REAMER TYPE				DRILLER Ben Smith				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
FEET SLIPPED				1				STANDS D.P. 41289.66 FT.				BIT NO. 12				TIME 2:00 3:00				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
FEET CUT OFF				1				SINGLES D.P. 528.58 FT.				SIZE 7/8				WEIGHT 9.4 9.4				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
PRESENT LENGTH				1				D.C.				MFG. H-6				VISC.-SEC 50 50				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
TON M. OR TRIPS SINCE LAST CUT				1				I.D. O.D. 528.58 FT.				TYPE 6W.C				W.L.-C.C. 6.2 6.2				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
CUMULATIVE TON M. OR TRIPS				1				D.C.				NOZZLE NO. 3-11				FLTR. CK. 4/32 3/32				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
NO. OF DAYS FROM SPUD				1				I.D. O.D. 528.58 FT.				SER. NO. 92406				SD. CONT. % 1				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
CUMULATIVE ROTATING HRS.				1				STB. BODY O.D. 3.67 FT.				DEPTH OUT 4863				PRESSURE GRADIENT 109				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
				1				STB. BODY O.D. 4.97 FT.				DEPTH IN 4792				MUD & CHEMICALS ADDED				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
				1				SUBS O.D. 1.65 FT.				TOTAL FTG. 71'				TYPE AMT. TYPE AMT.				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
				1				BIT OR C.B. 8.70 FT.				TOTAL HR. RUN 17 1/4				COND. OF BIT 2-21				DRILLER Ben Smith				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.							
				1				KELLY DOWN 22.87 FT.				COND. OF NT 2-21				DRILLER Ben Smith				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
				1				TOTAL 4863.00 FT.				REAMER NO.				DRILLER Ben Smith				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											
				1				TOTAL 4863.00 FT.				REAMER TYPE				DRILLER Ben Smith				4859 4863				DR. O. R. L. R. CORE NO. 0				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM 70				WT. ON BIT 1000# 35				PUMP PRESS 125				PUMP NO. 54				METHOD RUN 1st 62' 50' 37' Col.											

Changed oil & filter on 8/29/70 (fuel oil filter)
Aug 9/70
Changed Rod & Seal K & HESK BOTH Pumps

DATE August 8-70

2010 CHINA

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE					
J. Ray McDermott		MCO. G.C.O. MAIDA CREEK.		F59		MAIDA CREEK.		N.W.T.		CANADA					
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS			SIZE	MAKE	WT. & CR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
S & T DRILLING (WESTERN) CO. LTD.		1E	1 1/4"	5' O.D.				1 1/2"	JAP	48.1FS	3	94.67		90'	REMARKS
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER						LAST CASING TYPING OR LINER							
[Signature]		[Signature]						8 1/2" MAIDS 24 NSS 24			876.42			860 500.00 3% Cal.	
TIME DISTRIBUTION		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.	
MORN DAY EVE		NO. STANDS D.P. FT.		BIT NO. 10 11		TIME 2:00 7:00		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP NO.	
RIG UP & TEAS DOWN		2 SINGLES D.P. 4101.59 FT.		SIZE 7 1/4 7 1/4		WEIGHT 0.3 9.3		4666 4681		70				45 35	
DRILLING ACTUAL		18 I.D. O.D. 628.52 FT.		MFG. SAITH REED		VISC. SEC 40 48		4681 4690						14	
REAMING		D.C.		TYPE 1175 SCMS		W.L.-CC. 7.0 7.0									
CONDITIONING MUD & CIRCULATING		I.D. O.D. FT.		NO. 2-11 2-11		FLTR. CL. 7 1/2 7 1/2									
TRIPS		1 STD. BODY O.D. 3.67 FT.		NOZZLE SIZE 1-12 1-12		PH 10.0 10.0									
LUBRICATE RIG		1 STD. BODY O.D. 4.77 FT.		SER. NO. CNE598 863010		SD. CONT. % .8 17									
DEVIATION SURVEY		1 STD. BODY O.D. 3.56 FT.		DEPTH OUT 4681		PRESSURE GRADIENT 12.13									
TEST B.O.P.		1 STD. BODY O.D. 1.65 FT.		DEPTH IN 4450 4681		S. LIOS 7.5% CAL. 100									
CUT OFF DRILLING LINE		1 STD. BODY O.D. 8.70 FT.		TOTAL FTG. 231 9		MUD & CHEMICALS ADDED									
WIRE LINE		1 BIT OR C.B. 8.70 FT.		TOTAL HR. RUN 34 1/4 13 1/4		TYPE AMT. TYPE AMT.									
KELLY DOWN		TOTAL 4690.00 FT.		COND. OF BIT 7-2-1 RUN											
TOTAL		4690.00 FT.		REAMER NO.		DRILLER [Signature]									
WT. OF STRING		1120 LBS.		REAMER TYPE											
MORN DAY EVE		NO. STANDS D.P. FT.		BIT NO. 11		TIME 9:00 12:00 3:00		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP NO.	
RIG UP & TEAS DOWN		1 SINGLES D.P. 4101.59 FT.		SIZE 7 1/4 7 1/4		WEIGHT 9.3 9.3 9.3		4690 4733		D				45 35	
DRILLING ACTUAL		18 I.D. O.D. 628.52 FT.		MFG. [Signature]		VISC. SEC 40 44 46								14	
REAMING		D.C.		TYPE SCMS		W.L.-CC. 8.0 7.4									
CONDITIONING MUD & CIRCULATING		I.D. O.D. FT.		NOZZLE SIZE 1/2 1/2		FLTR. CL. 7 1/2 7 1/2									
TRIPS		1 STD. BODY O.D. 3.67 FT.		SER. NO. 863010		SD. CONT. % .8 17									
LUBRICATE RIG		1 STD. BODY O.D. 4.77 FT.		DEPTH OUT 4681		PRESSURE GRADIENT 12.13									
DEVIATION SURVEY		1 STD. BODY O.D. 3.56 FT.		DEPTH IN 4450 4681		S. LIOS 7.5% CAL. 100									
TEST B.O.P.		1 STD. BODY O.D. 1.65 FT.		TOTAL FTG. 231 9		MUD & CHEMICALS ADDED									
CUT OFF DRILLING LINE		1 BIT OR C.B. 8.70 FT.		TOTAL HR. RUN 34 1/4 13 1/4		TYPE AMT. TYPE AMT.									
WIRE LINE		1 STD. BODY O.D. 8.70 FT.		TOTAL FTG. 231 9		MUD & CHEMICALS ADDED									
KELLY DOWN		TOTAL 4733.00 FT.		COND. OF BIT 7-2-1 RUN		DRILLER [Signature]									
TOTAL		4733.00 FT.		REAMER NO.		DRILLER [Signature]									
WT. OF STRING		1120 LBS.		REAMER TYPE											
MORN DAY EVE		NO. STANDS D.P. FT.		BIT NO. 11		TIME 5:00 8:15 11:00		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP NO.	
RIG UP & TEAS DOWN															

DATE ~~Class~~ 6-70

DAILY DRILLING REPORT

REPORT NO. 27

DATE August 3-70

OPERATOR

LEASE

J. RAY McDERMOTT

MCD. G.C.O. MAIDA CREEK

WELL NO.

FIELD OR DIST.

MAIDA CREEK

COUNTY

N.W.T.

STATE

CANADA

CONTRACTOR

RIG NO.

DRILL PIPE STRING

TOOL JOINT

5" O.D.

PUMPS

SIZE

MAKE

Y.T. & GR.

NO. JOINTS

FEET

WKB. TO C.S. HD.

SET AT

REMARKS

S & T DRILLING (WESTERN) CO. LTD.

1F

NO. 1

TYPE THD. 3/4 IF

NO.

MANUFACTURER

TYPE

STROKE LENGTH

LAST CASING TUBING OR LINER

13 1/2

H.B. J-55

3

94.67

90

6200 Count

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER

1.

N.A.T.

K-380

14"

2.

N.A.T.

K-380

14"

3.

TIME DISTRIBUTION-HOURS

RIG UP & TEAR DOWN

DRILLING ACTUAL

REAMING

CONDITIONING MUD & CIRCULATING

TRIPS

LUBRICATE RIG

DEVIATION SURVEY

TEST B.O.P.

CUT OFF DRILLING LINE

NEWS

WELL LOG

CIRCUITING

CIRCUITING

CIRCUITING

CIRCUITING

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CIRCUITING

NO.

DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.

3949.60

SINGLES D.P.

FT.

D.C.

I.D. O.D.

528.52

D.C.

I.D. O.D.

FT.

STB. BODY O.D.

3.67

STB. BODY O.D.

4.37

BODY O.D.

3.56

SUBS O.D.

1.65

STB. BODY O.D.

8.70

KELLY DOWN

33.93

TOTAL

4434.00

WT. OF STRING

107M

LBS.

REAMER NO.

REAMER TYPE

DRILLER

R. S. S. S.

R. S. S. S.

R. S. S. S.

R. S. S. S.

R. S. S. S.

R. S. S. S.

R. S. S. S.

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BIT RECORD

BIT NO.

9

SIZE

7/8

MFG.

H-W

TYPE

VSSR

NO.

2-11

NOZZLE

SIZE

1-12

SER. NO.

9093

DEPTH OUT

4235

DEPTH IN

4235

TOTAL FTG.

199

TOTAL HR. RUN

32

COND. OF BIT

Run

REAMER NO.

REAMER TYPE

DRILLER

R. S. S. S.

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MUD RECORD

TIME

145

400

630

WEIGHT

9.3

9.3

9.3

VISC.-SEC

44

45

42

W.L.-C.C.

6.6

6.2

6.2

FLTR. CK.

3/2

3/2

3/2

PH

9.5

9.5

9.5

SD. CONT. %

.8

PRESSURE GRADIENT

YP

21

PV

12

MUD & CHEMICALS ADDED

TYPE

AMT.

TYPE

AMT.

TYPE

AMT.

TYPE

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AMT.

DATE August 7-70

Operator: J. Ray McDermott. Well No: 157. Field or Dist: MAIDON CREEK. County: N.W.T. State: CANADA. Contractor: S & T DRILLING (WESTERN) CO. LTD. Rig No: 1-E. Drill Pipe String: 5" O.D. Tool Joint: 5" O.D. Pumps: 1. NAT. 2. NAT. 3. LAST CASING TUBING OR LINER. Size: 13 3/8. Make: Jap. WT. & GR.: 45. NO. JOINTS: 3. FEET: 94.67. RKB. TO CSG. HD.: 90'. SET AT: 90'. REMARKS: Cemented 60' 67' 100' 500' 370' C.C.

Drilling Assembly: STANDS D.P. 3724.25 FT. SINGLES D.P. 528.52 FT. I.D. O.D. 3.67 FT. 4.37 FT. 3.56 FT. 1.65 FT. 8.70 FT. 14.28 FT. 4289.00 FT. 106 M LBS. BIT RECORD: BIT NO. 9, SIZE 7 3/8, MFG. H-W, TYPE 155R, NO. 2-11, NOZZLE 1-12, SER. NO. 9093, DEPTH OUT 14235, DEPTH IN 14235, TOTAL FTG. 54, TOTAL HR. RUN 9, COND. OF BIT RUN, REAMER NO. 106 M, REAMER TYPE 106 M. MUD RECORD: TIME 12.00, WEIGHT 9.3, VISC.-SEC. 40, W.L.-C.C. 2.0, FLTR. CK. 3/32, PH 9.5, SD. CONT. % 2.8, PRESSURE GRADIENT 4.0, MUD & CHEMICALS ADDED: BEL 1000, KELZAN 100, DOW B 10, COLLER 100, SMOIL 100. FOOTAGE: FROM 4245 TO 4289. FORMATION: (SHOW CORE RECOVERY). ROTARY RPM 45, WT. ON BIT 1000# 35, PUMP PRESS 1075, PUMP NO. 1, LINER SIZE 5 1/2, S.P.M. 64, PUMP NO. 2, LINER SIZE 5 1/2, S.P.M. 64, METHOD RUN 5. DEVIATION RECORD: DEPTH 1200, DEV. 1 1/2, DIRECTION DRAG, DEPTH 130, DEV. 1/4, DIRECTION SER. RIG V BOP + Kelly WAVE, DEPTH 145, DEV. 6 1/4, DIRECTION DRAG. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS: 1200 130 1 1/2 DRAG, 130 145 1/4 SER. RIG V BOP + Kelly WAVE, 145 900 6 1/4 DRAG.

Drilling Assembly: STANDS D.P. 3817.92 FT. SINGLES D.P. 528.52 FT. I.D. O.D. 3.67 FT. 4.37 FT. 3.56 FT. 1.65 FT. 8.70 FT. 14.28 FT. 4289.00 FT. 107 M LBS. BIT RECORD: BIT NO. 9, SIZE 7 3/8, MFG. H-W, TYPE 155R, NO. 2-11, NOZZLE 1-12, SER. NO. 9093, DEPTH OUT 14235, DEPTH IN 14235, TOTAL FTG. 54, TOTAL HR. RUN 9, COND. OF BIT RUN, REAMER NO. 107 M, REAMER TYPE 107 M. MUD RECORD: TIME 9.00, WEIGHT 9.3, VISC.-SEC. 40, W.L.-C.C. 2.0, FLTR. CK. 3/32, PH 9.0, SD. CONT. % 2.8, PRESSURE GRADIENT 4.0, MUD & CHEMICALS ADDED: BEL 1000, KELZAN 100, DOW B 10, COLLER 100, SMOIL 100. FOOTAGE: FROM 4289 TO 4329. FORMATION: (SHOW CORE RECOVERY). ROTARY RPM 45, WT. ON BIT 1000# 35, PUMP PRESS 1075, PUMP NO. 1, LINER SIZE 5 1/2, S.P.M. 64, PUMP NO. 2, LINER SIZE 5 1/2, S.P.M. 64, METHOD RUN 5. DEVIATION RECORD: DEPTH 800, DEV. 1 1/2, DIRECTION DRAG, DEPTH 815, DEV. 1/4, DIRECTION SER. RIG V BOP + Kelly WAVE, DEPTH 830, DEV. 6 1/4, DIRECTION DRAG. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS: 800 815 1 1/2 DRAG, 815 830 1/4 SER. RIG V BOP + Kelly WAVE, 830 900 6 1/4 DRAG.

Drilling Assembly: STANDS D.P. 3817.92 FT. SINGLES D.P. 528.52 FT. I.D. O.D. 3.67 FT. 4.37 FT. 3.56 FT. 1.65 FT. 8.70 FT. 14.28 FT. 4289.00 FT. 107 M LBS. BIT RECORD: BIT NO. 9, SIZE 7 3/8, MFG. H-W, TYPE 155R, NO. 2-11, NOZZLE 1-12, SER. NO. 9093, DEPTH OUT 14235, DEPTH IN 14235, TOTAL FTG. 54, TOTAL HR. RUN 9, COND. OF BIT RUN, REAMER NO. 107 M, REAMER TYPE 107 M. MUD RECORD: TIME 8.00, WEIGHT 9.3, VISC.-SEC. 40, W.L.-C.C. 2.0, FLTR. CK. 3/32, PH 9.0, SD. CONT. % 2.8, PRESSURE GRADIENT 4.0, MUD & CHEMICALS ADDED: BEL 1000, KELZAN 100, DOW B 10, COLLER 100, SMOIL 100. FOOTAGE: FROM 4329 TO 4390. FORMATION: (SHOW CORE RECOVERY). ROTARY RPM 45, WT. ON BIT 1000# 35, PUMP PRESS 1075, PUMP NO. 1, LINER SIZE 5 1/2, S.P.M. 64, PUMP NO. 2, LINER SIZE 5 1/2, S.P.M. 64, METHOD RUN 5. DEVIATION RECORD: DEPTH 400, DEV. 1 1/2, DIRECTION DRAG, DEPTH 415, DEV. 1/4, DIRECTION SER. RIG V BOP + Kelly WAVE, DEPTH 430, DEV. 6 1/4, DIRECTION DRAG. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS: 400 415 1 1/2 DRAG, 415 430 1/4 SER. RIG V BOP + Kelly WAVE, 430 900 6 1/4 DRAG.

DATE August 5 1960

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE									
J. Ray, McDERMOTT		MCD. G.C.O. MAIDA CREEK		P57		MAIDA CREEK		N.W.T.		CANADA									
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS			SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKE. TO CS. NO.	SET AT	REMARKS			
S & T DRILLING (WESTERN) CO. LTD.		1E	1 1/4"	5"	5"				13 3/4"	TAP.	18" J-55	3	94.62		90'	CEMENT W/ 62 SAE			
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER							8 5/8"	WARRS	24" J-55	24	876.42		8.60	W.SAE 37% C.C.			
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER																	
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER																	
TIME DISTRIBUTION - HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
MORN DAY EVE		STANDS D.P. 3566.10 FT.		BIT NO. 8		TIME 1 15 4 00 6 30		FROM 4080 TO 4148				45		35A		1075 5 1/2			
RIG UP & TEAR DOWN		SINGLES D.P. FT.		SIZE 7 3/4		WEIGHT 9.3 9.3 9.3													
DRILLING ACTUAL 7 1/2 7 3/4 3 1/4		D.C.		MFG. H-W		VISC.-SEC 40 40 44													
REAMING		I.D. O.D. 528.52 FT.		TYPE 155R		W.L.-C.C. 7.8 7.6													
CONDITIONING MUD & CIRCULATING		NO. 2-11		NOZZLE SIZE 1-12		FLTR. CK. 3/32 3/32 3/32													
TRIPS		STB. BODY O.D. 3.62 FT.		SER. NO. 14533		SO. CONT. % 8% 8.4 10													
LUBRICATE RIG		STB. BODY O.D. 4.37 FT.		DEPTH OUT		PRESSURE GRADIENT 4.0 17													
DEVIATION SURVEY		RMR. BODY O.D. 3.56 FT.		DEPTH IN		SOLIDS 7.8 7.5 7.5													
TEST D.O.P.		SUBS O.D. 1.65 FT.		TOTAL FTG. 362		TYPE AMT. TYPE AMT.													
CUT OFF DRILLING LINE		KELLY DOWN 3443 FT.		COND. OF BIT		DRILLER													
TIME SUMMARY (OFFER USE ONLY)		TOTAL 4148.00 FT.		REAMER NO.		REAMER TYPE													
DAY WORK		REEL NO.		NO. OF LINES 8		SIZE 1 1/4													
HRS. W/DP		FEET SLIPPED 23		FEET CUT OFF 69'		PRESENT LENGTH ?													
HRS. NO/DP		CUMULATIVE TOM M. OR TRIPS		CUMULATIVE TOM M. OR TRIPS		NO. OF DAYS FROM SPUD													
HRS. STANDBY		CUMULATIVE ROTATING HRS.																	
DAY TOUR		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
A. PENETRATING		STANDS D.P. 3566.10 FT.		BIT NO. 8		TIME 8 00 12 00 3 00		FROM 4148 TO 4218				45		35		1075 5 1/2		5	
B. TUBING TRIP		SINGLES D.P. FT.		SIZE 7 3/4		WEIGHT 9.3 9.3 9.3													
C. GUARDING		D.C.		MFG. H-W		VISC.-SEC 42 41													
D. TESTING		I.D. O.D. 528.52 FT.		TYPE 155R		W.L.-C.C. 8.0 7.6 7.6													
E. ADDITIONAL		STB. BODY O.D. 3.62 FT.		SER. NO. 14533		SO. CONT. % 8.8 8.6													
F. TIME SUMMARY (OFFER USE ONLY)		STB. BODY O.D. 4.37 FT.		DEPTH OUT		PRESSURE GRADIENT 7.8 7.5 7.5													
G. DAY WORK		RMR. BODY O.D. 3.56 FT.		DEPTH IN		SOLIDS 7.8 7.5 7.5													
H. HRS. W/DP		SUBS O.D. 1.65 FT.		TOTAL FTG. 422		TYPE AMT. TYPE AMT.													
I. HRS. NO/DP		BIT OR C.B. FT.		TOTAL HR. RUN		COND. OF BIT													
J. HRS. STANDBY		KELLY DOWN 344																	

DAILY DRILLING REPORT

REPORT NO. 20

DATE August 1 1970

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE													
J. Ray McDERMOTT		M.D. G.C.O. - Maida Creek		157		MAIDA, C.K.		A.W.T.		CANADA													
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS			SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS								
S & T DRILLING (WESTERN) CO. LTD.		1E	NO. 1	SIZE 5" O.D.	NO. 1	MANUFACTURER	TYPE	STROKE LENGTH	LAST CASING TUBING OR LINER	13 3/4	Jap.	48.5" x 5	3	94.67	90 67.41 Cement								
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER			NO. 2	NAT.	X-380	14"		13 3/4	MANUFACTURER	24	8.76.42	860. 500.00 370 Col.									
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER			NO. 3	NAT.	X-380	14"															
TIME DISTRIBUTION - HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
MOON DAY EVE		NO. STANDS D.P. 3072.35 FT.		BIT NO. 7		TIME 0:00 0:15 0:30		FROM TO		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
RIG UP & TEAR DOWN		SINGLES D.P. FT.		SIZE 7 3/4		WEIGHT 9.2 9.3 9.3		3720 3782		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
DRILLING ACTUAL		D.C.		MFG. REED		VISC.-SEC 38 40 42				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
REAMING		I.D. O.D. 529.52 FT.		TYPE SCMS		W.L.-C.C. 6.8 6.9 6.8				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
CONDITIONING MUD & CIRCULATING		D.C.		NO. 2-13		FLTR. CK. 1/32 1/32 1/32				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
TRIPS		I.D. O.D. FT.		NOZZLE SIZE 1-11		PH 9.0 9.0 9.0				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
LUBRICATE RIG		STB. BODY O.D. 3.67 FT.		SER. NO. 263007		SD. CONT. % 12				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
DEVIATION SURVEY		STB. BODY O.D. 4.37 FT.		DEPTH OUT		PRESSURE GRADIENT 12.20				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
TEST B.O.P.		RMR. BODY O.D. 3.56 FT.		DEPTH IN 3906		C.M. C.M. High				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
CUT OFF DRILLING LINE		SUBS. BODY O.D. 1.65 FT.		TOTAL FTG. 3716		MUD & CHEMICALS ADDED				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		WY. OF STRING 8.70 FT.		TOTAL HR. RUN 4534		TYPE AMT. TYPE AMT.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		KELLY DOWN 3818 FT.		COND. OF BIT Run		DRILLER				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		TOTAL 3782.00 FT.		REAMER NO.		REAMER TYPE				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		WT. OF STRING 100 LB.		LBS.		DRILLER				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		NO. 1		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN	
		STANDS D.P. 3072.35 FT.		BIT NO. 7		TIME 0:00 0:15 0:30		FROM TO		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		SINGLES D.P. FT.		SIZE 7 3/4		WEIGHT 9.3 9.3 9.3		3720 3782		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		D.C.		MFG. REED		VISC.-SEC 41 40 42				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		I.D. O.D. 529.52 FT.		TYPE SCMS		W.L.-C.C. 6.8 6.9 6.8				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		D.C.		NO. 2-13		FLTR. CK. 1/32 1/32 1/32				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		I.D. O.D. FT.		NOZZLE SIZE 1-11		PH 8.5 8.5 8.5				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		STB. BODY O.D. 3.67 FT.		SER. NO. 263007		SD. CONT. % 15				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		STB. BODY O.D. 4.37 FT.		DEPTH OUT		PRESSURE GRADIENT 11.4 P 15				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		RMR. BODY O.D. 3.56 FT.		DEPTH IN 3786		Calcium Carb. 400				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		SUBS. BODY O.D. 1.65 FT.		TOTAL FTG. 3716		MUD & CHEMICALS ADDED				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		BIT OR C.B. FT.		TOTAL HR. RUN 4534		TYPE AMT. TYPE AMT.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		KELLY DOWN 3818 FT.		COND. OF BIT Run		DRILLER				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		TOTAL 3782.00 FT.		REAMER NO.		REAMER TYPE				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		WT. OF STRING 100 LB.		LBS.		DRILLER				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		NO. 1		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN	
		STANDS D.P. 3072.35 FT.		BIT NO. 7		TIME 0:00 0:15 0:30		FROM TO		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		SINGLES D.P. FT.		SIZE 7 3/4		WEIGHT 9.3 9.3 9.3		3720 3782		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		D.C.		MFG. REED		VISC.-SEC 43 44 45				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		I.D. O.D. 529.52 FT.		TYPE SCMS		W.L.-C.C. 7.0 6.9 7.0				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		D.C.		NO. 2-13		FLTR. CK. 1/32 1/32 1/32				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		I.D. O.D. FT.		NOZZLE SIZE 1-11		PH 10.0 10.5 10.0				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		STB. BODY O.D. 3.67 FT.		SER. NO. 14533		SD. CONT. % 13				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		STB. BODY O.D. 4.37 FT.		DEPTH OUT		PRESSURE GRADIENT 11.22				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		RMR. BODY O.D. 3.56 FT.		DEPTH IN 3786		Calcium Carb. 400				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		SUBS. BODY O.D. 1.65 FT.		TOTAL FTG. 110		MUD & CHEMICALS ADDED				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		BIT OR C.B. FT.		TOTAL HR. RUN 12		TYPE AMT. TYPE AMT.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		KELLY DOWN 27.22 FT.		COND. OF BIT Run		DRILLER				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		TOTAL 3896.00 FT.		REAMER NO.		REAMER TYPE				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		WT. OF STRING 100 LB.		LBS.		DRILLER				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		NO. 1		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN	
		STANDS D.P. 3072.35 FT.		BIT NO. 7		TIME 0:00 0:15 0:30		FROM TO		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		SINGLES D.P. FT.		SIZE 7 3/4		WEIGHT 9.3 9.3 9.3		3720 3782		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		D.C.		MFG. REED		VISC.-SEC 43 44 45				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		I.D. O.D. 529.52 FT.		TYPE SCMS		W.L.-C.C. 7.0 6.9 7.0				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		D.C.		NO. 2-13		FLTR. CK. 1/32 1/32 1/32				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		I.D. O.D. FT.		NOZZLE SIZE 1-11		PH 10.0 10.5 10.0				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		STB. BODY O.D. 3.67 FT.		SER. NO. 14533		SD. CONT. % 13				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		STB. BODY O.D. 4.37 FT.		DEPTH OUT		PRESSURE GRADIENT 11.22				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		RMR. BODY O.D. 3.56 FT.		DEPTH IN 3786		Calcium Carb. 400				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		SUBS. BODY O.D. 1.65 FT.		TOTAL FTG. 110		MUD & CHEMICALS ADDED				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		BIT OR C.B. FT.		TOTAL HR. RUN 12		TYPE AMT. TYPE AMT.				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		KELLY DOWN 27.22 FT.		COND. OF BIT Run		DRILLER				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		TOTAL 3896.00 FT.		REAMER NO.		REAMER TYPE				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
		WT. OF STRING 100 LB.		LBS.		DRILLER				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			

REPORT NO. 22 DATE July 31 - 80

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OPERATOR J. Ray McDermott		LEASE MCD. CAN. G.C.O. MAIDA CREEK.		WELL NO. F-57		FIELD OR DIST. MAIDA CREEK.		COUNTY AL W.T.		STATE CANADA.																					
CONTRACTOR S & T DRILLING (WESTERN) CO. LTD.		RIG NO. 1E		DRILL PIPE STRING NO. 1 SIZE 4"		TOOL JOINT 5" O.D.		PUMPS		SIZE		MAKES		WT. & GN.		NO. JOINTS		FEET		RKB. TO CSG. HD.		SET AT		REMARKS							
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>		TYPE THD. 1F		NO.		MANUFACTURER		TYPE		STROKE LENGTH		LAST CASING TUBING OR LINER		13 3/8		JAP		4" J-55		3		74.46		90' 67 5/8 CEMENT.					
						1.		NAT.		5.180		14"				1 1/2		MANS		24" J-55		24		716.42		8.60 300 in 32 C.C.					
						2.		NAT.		6.380		14"																			
						3.																									
TIME DISTRIBUTION - HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR-D RM-R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN			
MORN DAY EVE		18		STANDS D.P. 2656.03 FT.		BIT NO. RR# 6		TIME 3:00 4:30 7:00		FROM 3156 TO 3228																					
RIG UP & TEAR DOWN		1		SINGLES D.P. 2656.03 FT.		SIZE 7 3/8		WEIGHT 9.2 9.2 9.2																							
DRILLING ACTUAL 7 1/4 7 1/4 7 1/4		18		D.C. 2656.03 FT.		MFG. Smith		VISC.-SEC 41 45 42																							
REAMING		1		D.C. 528.52 FT.		TYPE HTS		W.L.-C.C. 8.0 6.4 6.8																							
CONDITIONING MUD & CIRCULATING		1		I.D. O.D. 3.67 FT.		NOZZLE 3-11		FLTR. CK 1/32 1/32 1/32																							
TRIPS		1		STB. BODY O.D. 3.67 FT.		SER. NO. EA 189		PH 9.5 8.5 9.5																							
LUBRICATE RIG		1		STB. BODY O.D. 4.37 FT.		DEPTH OUT		SD. CONT. %																							
DEVIATION SURVEY		1		RM. BODY O.D. 3.56 FT.		DEPTH IN 2825		PRESSURE GRADIENT																							
TEST B.O.P.		1		SUBS O.D. 1.65 FT.		TOTAL FTG. 403		MUD & CHEMICALS ADDED																							
CUT OFF DRILLING LINE		1		BIT OR C.B. 8.70 FT.		TOTAL HR. RUN 40 1/2		TYPE GFL 1000 AMT. CANSTIC 50																							
DRILL RIG		1		KELLY DOWN 21.50 FT.		COND. OF BIT RUN		C.M.C. 50																							
DRILLING		1		TOTAL 3228.00 FT.		REAMER NO.		REAMER TYPE DRILLER																							
DRILLING		1		WT. OF STRING 90 M LBS.		REAMER TYPE		DRILLER DRILLER																							
DRILLING		1		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR-D RM-R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN	
DRILLING		1		STANDS D.P. 2718.77 FT.		BIT NO. RR# 6		TIME 9:00 12:00 3:00		FROM 3228 TO 3199																					
DRILLING		1		SINGLES D.P. 2718.77 FT.		SIZE 7 3/8		WEIGHT 9.2 9.2 9.2																							
DRILLING		1		D.C. 528.52 FT.		MFG. Smith		VISC.-SEC 42 44 42																							
DRILLING		1		I.D. O.D. 3.67 FT.		TYPE HTS		W.L.-C.C.																							

DATE 74Kv28-10

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DAILY DRILLING REPORT

REPORT NO. 18

DATE July 27 1970

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE									
J. Ray McDERMOTT		M.D. CAN G.C.O. MAIDA CREEK.		F37				CANADA		N.W.T.									
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS		SIZE	MAKE	WT. & GP.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS				
S & T DRILLING (WESTERN) CO. LTD.		1E.	NO. 2	SIZE 4"	TYPE THD 3 1/2 IF.	NO. 1	MANUFACTURER NATIONAL	TYPE H380	STROK/3 LENGTH 14										
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER																	
J. Ray McDERMOTT		L.H. Webber																	
TIME DISTRIBUTION - HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
MORN DAY EVE		STANDS D.P. 2246.51 FT.		BIT NO. 7 1/8		TIME 1:30		FROM 2808 TO 2825		D.		45		35M		175 5 1/2 54			
BIG UPS & TEAR DOWN		SINGLES D.P. FT.		SIZE 7 1/8		WEIGHT 9.2													
DRILLING ACTUAL 1 1/4 3 1/2 7 1/2		D.C. 6 1/4 528.52 FT.		MFG. Smith		VISC.-SEC 42													
REAMING		I.D. O.D. FT.		TYPE 435		V.L.-C.C.													
CONDITIONING MUD & CIRCULATING		D.C. FT.		NO. 3-11		FLTR. CK. 3/32													
TRIPS 2 1/2 3 1/2		I.D. O.D. FT.		NOZZLE SIZE		PH 9.8													
LUBRICATE RIG		STB. BODY O.D. 367 FT.		SER. NO. EA189		SD. CONT. %													
DEVIATION SURVEY		STB. BODY O.D. 437 FT.		DEPTH OUT 2825		PRESSURE GRADIENT													
TEST B.O.P.		RMR. BODY O.D. 336 FT.		DEPTH IN 2724															
CUT OFF DRILLING LINE		SUBS O.D. 165 FT.		TOTAL FTG. 101		MUD & CHEMICALS ADDED													
DRILL RIG		BIT OR C.B. FT.		TOTAL HR. RUN 8		TYPE AMT. TYPE AMT.													
DRILL LINE		KELLY DOWN 2802 FT.		COND. OF BIT 1-1		Dew. B. 20"													
DRILLING CASING & CEMENTING		TOTAL 2820 FT.		REAMER NO.		DRILLER D.B. Hanover													
DRILLING ON CEMENT		WT. OF STRING 84M LBS.		REAMER TYPE															
DRILL STEM TEST		STANDS D.P. FT.		BIT NO. 7 1/8		TIME 1:00		FROM 2825 TO 2864		D		45		35		175 5 1/2 54			
OTHER		SINGLES D.P. 2226.46 FT.		SIZE 7 1/8		WEIGHT 9.2													
FISHING		D.C. 6 1/4 528.52 FT.		MFG. Smith		VISC.-SEC 44													
A. PREPARATING		I.D. O.D. FT.		TYPE 435		V.L.-C.C.													
B. USING TRIPS		D.C. FT.		NO. 3-11		FLTR. CK. 3/32													
C. SWABING		I.D. O.D. FT.		NOZZLE SIZE		PH 9.5													
D. TESTING		STB. BODY O.D. 367 FT.		SER. NO. EA189		SD. CONT. %													
E. ADDITIONAL		STB. BODY O.D. 437 FT.		DEPTH OUT 2825		PRESSURE GRADIENT													
TIME SUMMARY (OFFICE USE ONLY)		RMR. BODY O.D. 336 FT.		DEPTH IN 2825		MUD & CHEMICALS ADDED													
DAY WORK		SUBS O.D. 165 FT.		TOTAL FTG. 39		TYPE AMT. TYPE AMT.													
HRS. W/D.P.		BIT OR C.B. FT.		TOTAL HR. RUN 3 1/2		MASTER 50"													
HRS. W/O.D.P.		KELLY DOWN 3667 FT.		COND. OF BIT Run															
HRS. STANDBY		TOTAL 2864.00 FT.		REAMER NO.		DRILLER Ron Smith													
		WT. OF STRING 84M LBS.		REAMER TYPE															
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
		STANDS D.P. 2343.18 FT.		BIT NO. 7 1/8		TIME 6:00 19:00 11:00		FROM 2864 TO 2937		D		45		35		1700 5 1/2 54			
		SINGLES D.P. FT.		SIZE 7 1/8		WEIGHT 9.3													
		D.C. FT.		MFG. Smith		VISC.-SEC 44													
		I.D. O.D. 528.52 FT.		TYPE 435		V.L.-C.C.													
		D.C. FT.		NO. 3-11		FLTR. CK. 3/32													
		I.D. O.D. FT.		NOZZLE SIZE		PH 9.5													
		STB. BODY O.D. 367 FT.		SER. NO. EA189		SD. CONT. %													
		STB. BODY O.D. 437 FT.		DEPTH OUT 2825		PRESSURE GRADIENT													
		RMR. BODY O.D. 336 FT.		DEPTH IN 2825		MUD & CHEMICALS ADDED													
		SUBS O.D. 165 FT.		TOTAL FTG. 39		TYPE AMT. TYPE AMT.													
		BIT OR C.B. FT.		TOTAL HR. RUN 10 1/4															
		KELLY DOWN 1424 FT.		COND. OF BIT Run															
		TOTAL 2937 FT.		REAMER NO.		DRILLER Ron Smith													
		WT. OF STRING 89M LBS.		REAMER TYPE															
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
		STANDS D.P. 2343.18 FT.		BIT NO. 7 1/8		TIME 6:00 19:00 11:00		FROM 2864 TO 2937		D		45		35		1700 5 1/2 54			
		SINGLES D.P. FT.		SIZE 7 1/8		WEIGHT 9.3													
		D.C. FT.		MFG. Smith		VISC.-SEC 44													
		I.D. O.D. 528.52 FT.		TYPE 435		V.L.-C.C.													
		D.C. FT.		NO. 3-11		FLTR. CK. 3/32													
		I.D. O.D. FT.		NOZZLE SIZE		PH 9.5													
		STB. BODY O.D. 367 FT.		SER. NO. EA189		SD. CONT. %													
		STB. BODY O.D. 437 FT.		DEPTH OUT 2825		PRESSURE GRADIENT													
		RMR. BODY O.D. 336 FT.		DEPTH IN 2825		MUD & CHEMICALS ADDED													
		SUBS O.D. 165 FT.		TOTAL FTG. 39		TYPE AMT. TYPE AMT.													
		BIT OR C.B. FT.		TOTAL HR. RUN 10 1/4															
		KELLY DOWN 1424 FT.		COND. OF BIT Run															
		TOTAL 2937 FT.		REAMER NO.		DRILLER Ron Smith													
		WT. OF STRING 89M LBS.		REAMER TYPE															
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
		STANDS D.P. 2343.18 FT.		BIT NO. 7 1/8		TIME 6:00 19:00 11:00		FROM 2864 TO 2937		D		45		35		1700 5 1/2 54			
		SINGLES D.P. FT.		SIZE 7 1/8		WEIGHT 9.3													
		D.C. FT.		MFG. Smith		VISC.-SEC 44													
		I.D. O.D. 528.52 FT.		TYPE 435		V.L.-C.C.													
		D.C. FT.		NO. 3-11		FLTR. CK. 3/32													
		I.D. O.D. FT.		NOZZLE SIZE		PH 9.5													
		STB. BODY O.D. 367 FT.		SER. NO. EA189		SD. CONT. %													
		STB. BODY O.D. 437 FT.		DEPTH OUT 2825		PRESSURE GRADIENT													
		RMR. BODY O.D. 336 FT.		DEPTH IN 2825		MUD & CHEMICALS ADDED													
		SUBS O.D. 165 FT.		TOTAL FTG. 39		TYPE AMT. TYPE AMT.													
		BIT OR C.B. FT.		TOTAL HR. RUN 10 1/4															
		KELLY DOWN 1424 FT.		COND. OF BIT Run															
		TOTAL 2937 FT.		REAMER NO.		DRILLER Ron Smith													
		WT. OF STRING 89M LBS.		REAMER TYPE															
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
		STANDS D.P. 2343.18 FT.		BIT NO. 7 1/8		TIME 6:00 19:00 11:00		FROM 2864 TO 2937		D		45		35		1700 5 1/2 54			
		SINGLES D.P. FT.		SIZE 7 1/8		WEIGHT 9.3													
		D.C. FT.		MFG. Smith		VISC.-SEC 44													
		I.D. O.D. 528.52 FT.		TYPE 435		V.L.-C.C.													
		D.C. FT.		NO. 3-11		FLTR. CK. 3/32													
		I.D. O.D. FT.		NOZZLE SIZE		PH 9.5													
		STB. BODY O.D. 367 FT.		SER. NO. EA189		SD. CONT. %													
		STB. BODY O.D. 437 FT.		DEPTH OUT 2825		PRESSURE GRADIENT													
		RMR. BODY O.D. 336 FT.		DEPTH IN 2825		MUD & CHEMICALS ADDED													
		SUBS O.D. 165 FT.		TOTAL FTG. 39		TYPE AMT. TYPE AMT.													
		BIT OR C.B. FT.		TOTAL HR. RUN 10 1/4															
		KELLY DOWN 1424 FT.		COND. OF BIT Run															
		TOTAL 2937 FT.		REAMER NO.		DRILLER Ron Smith													
		WT. OF STRING 89M LBS.		REAMER TYPE															
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
		STANDS D.P. 2343.18 FT.		BIT NO. 7 1/8		TIME 6:00 19:00 11:00		FROM 2864 TO 2937		D		45		35		1700 5 1/2 54			
		SINGLES D.P. FT.		SIZE 7 1/8		WEIGHT 9.3													
		D.C. FT.		MFG. Smith		VISC.-SEC 44													
		I.D. O.D. 528.52 FT.		TYPE 435		V.L.-C.C.													
		D.C. FT.		NO. 3-11		FLTR. CK. 3/32													
		I.D. O.D. FT.		NOZZLE SIZE		PH 9.5													
		STB. BODY O.D. 367 FT.		SER. NO. EA189		SD. CONT. %													
		STB. BODY O.D. 437 FT.		DEPTH OUT 2825		PRESSURE GRADIENT													
		RMR. BODY O.D. 336 FT.		DEPTH IN 2825		MUD & CHEMICALS ADDED													
		SUBS O.D. 165 FT.		TOTAL FTG. 39		TYPE AMT. TYPE AMT.													
		BIT OR C.B. FT.		TOTAL HR. RUN 10 1/4															
		KELLY DOWN 1424 FT.		COND. OF BIT Run															
		TOTAL 2937 FT.		REAMER NO.		DRILLER Ron Smith													
		WT. OF STRING 89M LBS.		REAMER TYPE															
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
		STANDS D.P. 2343.18 FT.		BIT NO. 7 1/8		TIME 6:00 19:00 11:00		FROM 2864 TO 2937		D		45		35		1700 5 1/2 54			
		SINGLES D.P. FT.		SIZE 7 1/8		WEIGHT 9.3													
		D.C. FT.		MFG. Smith		VISC.-SEC 44													
		I.D. O.D. 528.52 FT.		TYPE 435		V.L.-C.C.													
		D.C. FT.		NO. 3-11		FLTR. CK. 3/32													
		I.D. O.D. FT.		NOZZLE SIZE		PH 9.5													
		STB. BODY O.D. 367 FT.		SER. NO. EA189		SD. CONT. %													
		STB. BODY O.D. 437 FT.																	

DATE July 26/70

OPERATOR J RAY McDERMOTT.		LEASE M.D. CAN GCO MAIDA CREEK.		WELL NO. F57.		FIELD OR DIST.		COUNTY CANADA.		STATE N.W.T.																											
CONTRACTOR S & T DRILLING (WESTERN) CO. LTD.		RIG NO. 1E		DRILL PIPE STRING N°1 SIZE 4" TYPE THD. 3 1/2 IF		TOOL JOINT 5" O.D.		PUMPS		LAST CASING TUBING OR LINER		SIZE 13 3/8 8 3/8		MAKE JAP MANN		WT. & GR. 48 355 24 155		NO. JOINTS 3 24		FEET 94.46 876.42		RKB. TO CEG. HD.		SET AT 90. 860		REMARKS 675x CEMENT 5005x CEMENT 37.00											
SIGNATURE OF OPERATOR'S REPRESENTATIVE J. Ray		SIGNATURE OF CONTRACTOR'S TOOL Usher P. H. Webster		NO.		MANUFACTURER NATIONAL		TYPE H380		STROKE LENGTH 14		NO.		MANUFACTURER NATIONAL		TYPE H380		STROKE LENGTH 14		NO.		MANUFACTURER NATIONAL		TYPE H380		STROKE LENGTH 14											
TIME DISTRIBUTION - HOURS		NORM		DAY		EVE		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. O. RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN SGL. S. PANEL. P. COMD. S.			
RIG UP & TEAR DOWN		7 1/2		3 1/4		6 1/4		1		STANDS D.P. 2088.01 FT.		BIT NO. 6RR		TIME 12 00 02 00 6 00		FROM 2580		TO 2675		D.				45		35m		1175		5 1/2		54					
DRILLING ACTUAL		7 1/2		3 1/4		6 1/4		1		SINGLES D.P. 1 FT.		SIZE 7 3/8		WEIGHT 9.1 9.1 9.1																							
REAMING								1		D.C. 64 529.90 FT.		MFG. SMITH		VISC.-SEC 46 45 44																							
CONDITIONING MUD & CIRCULATING								1		I.D. O.D. FT.		TYPE 452		W.L.-C.C. 6.0 6.1																							
TRIPS								1		P.C. FT.		NO. 3-11		FLTR. CK. 2 1/2 2 1/2																							
LUBRICATE RIG		✓		✓		✓		1		NOZZLE SIZE		PH 9.5 9.5 9.5		SD. CONT. % 2%																							
DEVIATION SURVEY		4						1		SER. NO. CN7863		DEPTH OUT		PRESSURE GRADIENT 16																							
TEST B.O.P.		1/4		1/4		1/4		1		DEPTH IN 1995		Ca. 40m YP 24																									
CUT OFF DRILLING LINE								1		TOTAL FTG. 680		MUD & CHEMICALS ADDED		TYPE AMT. TYPE AMT.																							
DRILL RIG								1		TOTAL HR. RUN 48		COND. OF BIT RUN.		C. 50"																							
WIRE LINE LOGGING								1		REAMER NO.		DRILLER		C. 50"																							
RIGGING CASING & CEMENTING								1		REAMER TYPE		DRILLER		C. 50"																							
CUTTING ON CEMENT								1		TOTAL 2675 FT.																											
DRILL STEEL TEST								1		FT. OF STRING 82.01 LBS.																											
A. PERFORATING								1		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. O. RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN SGL. S. PANEL. P. COMD. S.	
B. YUBBER TRIPS								1		STANDS D.P. 2151.01 FT.		BIT NO. 6RR		TIME 9 00 00 00 9 00		FROM 2775		TO 2724		D.						45		35		1175		5 1/2		54			
C. SWABBING								1		SINGLES D.P. 1 FT.		SIZE 7 3/8		WEIGHT 9.1																							
D. TESTING								1		D.C. 2 1/4 629.90 FT.		MFG. SMITH		VISC.-SEC 44																							
E. ADDITIONAL								1																													

DATE July 25/70

WEEKEND TOUR

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE									
J. Ray McDermott		MCD. CAN GEO MAIDA. CREEK.		P. 27				CANADA		N.W.T.									
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS			SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	APPROX. TO HD.	SET AT	REMARKS				
S & T DRILLING (WESTERN) CO. LTD.		1E.	NO. 2	SIZE 5' O.D.	TYPE THD. 3 1/2 IF	NO. 1	MANUFACTURER NATIONAL.	TYPE H380	STROKE LENGTH 14										
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUMPER			NO. 2	MANUFACTURER NATIONAL.	TYPE H380	STROKE LENGTH 14											
J. Ray McDermott		L.H. Webber			NO. 3														
TIME DISTRIBUTION - HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO.		METHOD RUN	
MORN DAY EVE		STANDS D.P. 1398.4 FT.		BIT NO. 7 1/2		TIME 7:00		FROM 1925 TO 1975		DR. D RM. R CORE C		45		350		1075		5 1/2 54	
RIG UP & TEAR DOWN		SINGLES D.P. 6 1/2		MFG. Smith		VISC. - SEC 5.5													
DRILLING ACTUAL 8 1/2 2 1/2 1 1/2		D.C. 529.90		I.D. O.D. 3.67		VISC. - SEC 5.1													
REAMING		D.C. 529.90		NO. 3-11		FLTR. CK. 7/32													
CONDITIONING MUD & CIRCULATING		D.C. 529.90		SER. NO. 21706		SD. CONT. % 2%													
TRIPS		D.C. 529.90		NO. 3-11		PH 8.5													
LUBRICATE RIG		D.C. 529.90		SER. NO. 21706		SD. CONT. % 2%													
DEVIATION SURVEY		D.C. 529.90		SER. NO. 21706		SD. CONT. % 2%													
TEST B.O.P.		D.C. 529.90		SER. NO. 21706		SD. CONT. % 2%													
CUT OFF DRILLING LINE		D.C. 529.90		SER. NO. 21706		SD. CONT. % 2%													
DRILL RIG		D.C. 529.90		SER. NO. 21706		SD. CONT. % 2%													
DRILLING		D.C. 529.90		SER. NO. 21706		SD. CONT. % 2%													
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DRILLING		D.C. 529.90		SER. NO. 21706		SD. CONT. % 2%													

[illegible]

DATE July 22 1967

[illegible]

DATE July 21 1970

OPERATOR: J. RAY McDERMOTT. LEASE: Mc.D. CAN GEO MANDA CREEK. WELL NO: 137. FIELD OR DIST.: COUNTY: CANADA. STATE: N.W.T.

CONTRACTOR: S & T DRILLING (WESTERN) CO. LTD. RIG NO: 1E. DRILL PIPE STRING: 5" O.D. TOOL JOINT: 3 1/2 IF. PUMPS: NATIONAL 17380. LAST CASING TUBING OR LINER: 13 3/8 JAP 48 35 3 94.46 8 7/8 MANN 24 15 24 876.42 90 675X CEMENT. 860 500 SX CEMENT 3% CAC.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: SIGNATURE OF CONTRACTOR'S TOOL PUSHER: TIME DISTRIBUTION: MORNING TOUR: DRILLING ACTUAL: REAMING: CONDITIONING MUD & CIRCULATING: TRIPS: LUBRICATE RIG: DEVIATION SURVEY: TEST B.O.P.: CUT OFF DRILLING LINE: PAIR RIG: TIME LOG: 12:00 12:30 12:45 1:15 1:45 2:15 2:45 3:15 3:45 4:15 4:45 5:15 5:45 6:15 6:45 7:15 7:45 8:00. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS: REAMING 6 1/2 CORE HOLE TO 7 3/8. CIRC. Pull Bit #4. Pick up CORE HOLE + JARS. RIG SERV B.O.P. + M.L.D. P.A.M.S. Run in w/ CORE HOLE #2. BREAK CIRC. + Drop Ball. CUTTING CORE #2.

DAY TOUR: DRILLING ACTUAL: REAMING: CONDITIONING MUD & CIRCULATING: TRIPS: LUBRICATE RIG: DEVIATION SURVEY: TEST B.O.P.: CUT OFF DRILLING LINE: PAIR RIG: TIME LOG: 8:00 8:30 9:00 9:30 10:00 10:30 11:00 11:30 12:00. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS: Changing bit + filter + fast filter in 2nd light plants.

EVENING TOUR: DRILLING ACTUAL: REAMING: CONDITIONING MUD & CIRCULATING: TRIPS: LUBRICATE RIG: DEVIATION SURVEY: TEST B.O.P.: CUT OFF DRILLING LINE: PAIR RIG: TIME LOG: 4:00 4:30 5:00 5:30 6:00 6:30 7:00 7:30 8:00. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS: Cutting Core #2.

DAILY DRILLING REPORT

REPORT NO. 11

DATE July 20 1970

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE											
RAY, M. DEWITT		M.D. CAN GSO MAIDA CREEK		157				NWT		CANADA											
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS						
S & T DRILLING (WESTERN) CO. LTD.		1E	NO. 1	SIZE 3 1/2	TYPE THD. 3 1/2 IF	NO. 1	MANUFACTURER NATIONAL	TYPE K380	STROKE LENGTH 14	LAST CASING TUBING OR LINER		13 3/8	JAP	40 555	3	94.46	90	675K CEMENT			
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO. 2		MANUFACTURER NATIONAL		TYPE K380	STROKE LENGTH 14	LAST CASING TUBING OR LINER		8 5/8	MAN	24 185	24	876.42	860	5005K CEMENT 3% CCL			
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO. 3		MANUFACTURER		TYPE	STROKE LENGTH	LAST CASING TUBING OR LINER											
TIME		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO. 1		PUMP NO. 2		METHOD RUN	
MORN DAY EVE		STANDS D.P. 9216 FT.		BIT NO. 3 1C		TIME 12:00		FROM 1522 TO 1538		C. 1		100		800		5 1/2		40		SOL. 3 PART-L-P COMD-C	
RIG UP & TEAR DOWN		SINGLES D.P. 139 FT.		SIZE 7 3/8		WEIGHT 7.0		VISC.-SEC 5.2		W.L.-C.C. 4.6		FLTR. CK. 5.8		PH 9.0		SD. CONT. % 7.5		PRESSURE GRADIENT 10.13			
DRILLING ACTUAL		D.C. 139.14 FT.		MFG. MANCO		VISC.-SEC 5.2		W.L.-C.C. 4.6		FLTR. CK. 5.8		PH 9.0		SD. CONT. % 7.5		PRESSURE GRADIENT 10.13					
REAMING		I.D. O.D. FT.		TYPE SEC		W.L.-C.C. 4.6		FLTR. CK. 5.8		PH 9.0		SD. CONT. % 7.5		PRESSURE GRADIENT 10.13							
CONDITIONING MUD & CIRCULATING		I.D. O.D. FT.		NOZZLE NO. 3-10		PH 9.0		SD. CONT. % 7.5		PRESSURE GRADIENT 10.13											
TRIPS		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
LUBRICATE RIG		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
DEVIATION SURVEY		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
TEST B.O.P.		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
CUT OFF DRILLING LINE		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
FAIR RIG		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
WIRE LINE LOGGING		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
RUNNING CASING & CEMENTING		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
MIXING ON CEMENT		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
DRILL STEM TEST		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
OTHER		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
FISHING		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
A. PERFORATING		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
B. TUBING TRIPS		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
C. STABBING		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
D. TESTING		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
E. ADDITIONAL		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
TIME SUMMARY (OFFICE USE ONLY)		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
DAY WORK		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
HRS. W/DP		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
HRS. NO/DP		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
HRS. STANDBY		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
TOTAL DAY WORK		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
WIRE LINE RECORD		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
REEL NO.		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
NO. OF LINES		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
FEET SLIPPED		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
FENT CUT OFF		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
PRESENT LENGTH		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
TON MI. OR TRIPS SINCE LAST CUT		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
CUMULATIVE TON MI. OR TRIPS		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
NO. OF DAYS FROM SPUD		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	
CUMULATIVE ROTATING HRS.		STR. BODY O.D. FT.		SER. NO. 71154		DEPTH OUT 1523		DEPTH IN 1382		TOTAL FTG. 141		TOTAL HR. RUN 4		COND. OF BIT 3 1/2		REAMER NO. 1-1-1		REAMER TYPE		DRILLER O. L. Hanson	

DAILY DRILLING REPORT

REPORT NO. 10

DATE JULY 19/1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																	
S. T. DRILLING (WESTERN) CO. LTD.		M.D. CAN G.C.O. MAIDA CREEK.		10		N.W.T.		N.W.T.		CANADA																	
CONTRACTOR		RIG NO.	DRILL PIPE STRUNG	TOOL JOINT	PUMPS	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS														
S & T DRILLING (WESTERN) CO. LTD.		1E	NO. 1	SIZE 3 1/2 IF	NO. 1	MANUFACTURER	TYPE	STROKE LENGTH	LAST CASTING TUBING OR LINER	13 3/8	JAP	48 155	3	94.40	92	6754 Cement											
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		1. NATIONAL		H 380		14		8 5/8		MADAN		24		276.42		860		50052 Cement 3 1/2 CaCl							
TIME DISTRIBUTION - HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN	
MORN DAY EVE		2		STANDS D.P. 712.77 FT.		BIT NO. 2		TIME 2:00 4:00 7:00		FROM 1400		TO 1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
RIG UP & TEAR DOWN		2		SINGLES D.P. FT.		SIZE 7 3/8		WEIGHT 8.6 8.6 8.7		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
DRILLING ACTUAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		MFG. HW.		VISC.-SEC 32 36 35		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
REAMING		18		D.C. 3 1/2 6 1/4 529.90 FT.		TYPE ODU-3		W.L.-C.C. 16 13		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
CONDITIONING MUD & CIRCULATING		18		D.C. 3 1/2 6 1/4 529.90 FT.		NOZZLE NO. 2-11		FLTR. CK. 1/32 1/16		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TRIPS		18		D.C. 3 1/2 6 1/4 529.90 FT.		SIZE 1-10		PH 9.0 8.5 9.5		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
LUBRICATE RIG		18		D.C. 3 1/2 6 1/4 529.90 FT.		SER. NO. 18200		SD. CONT. % 2.2% 2.5%		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
DEVIATION SURVEY		18		D.C. 3 1/2 6 1/4 529.90 FT.		DEPTH OUT 935		PRESSURE GRADIENT 12 12		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TEST B.O.P.		18		D.C. 3 1/2 6 1/4 529.90 FT.		DEPTH IN 935		Co Cont 80 PPM CaCl. 100 PPM		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
CUT OFF DRILLING LINE		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL FTG. 370		MUD & CHEMICALS ADDED		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
RIG		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL HR. RUN 12 1/2		TYPE AMT. TYPE AMT.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		COND. OF BIT RUN		KELLY 100*		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		REAMER NO.		Master 100*		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
WT. OF STRING		18		D.C. 3 1/2 6 1/4 529.90 FT.		REAMER TYPE		DRILLER		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY DOWN		18		D.C. 3 1/2 6 1/4 529.90 FT.		TOTAL		1305		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
TOTAL		18		D.C. 3 1/2 6 1/4 529.90 FT.		WT. OF STRING		20M LBS.		1400		1305		D.		60		14M		1005		5 1/2		5 1/2		SCL-3 PARCEL-P COM'D-S	
KELLY																											

DAILY DRILLING REPORT

REPORT NO. 9

DATE JULY 18/70

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE									
J. RAY M ^o DERMOTT		M ^o D. CAN. G20 MAIDA CREEK		F57				N.W.T.		CANADA									
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS			SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HP.	SET AT	REMARKS				
S & T DRILLING (WESTERN) CO. LTD.		12	NO. 1 SIZE 4 1/2	5" O.D. TYPE THD. 3 1/2 IF	NO. 1 MANUFACTURE NATIONAL	TYPE K380	STROKE LENGTH 14	1 3/8	JAP	48 JSS	3	94.40		92	675X CENTENT				
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO. 2 MANUFACTURE "			TYPE K380	STROKE LENGTH 14	8 1/2	MAN	24 KSS	24	876.42	860	5005X " 3% C.A.C.				
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO. 3 MANUFACTURE "			TYPE K380	STROKE LENGTH 14											
TIME DISTRIBUTION HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
MORN DAY EVE		NO. STANDS D.P. 368.94 FT.		BIT NO. 1		TIME		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP PRESS		PUMP NO.		METHOD RUN	
RIG UP & TEAR DOWN		SINGLES D.P. FT.		SIZE 7 1/2		WEIGHT		860 935		D.				60 16m 700		5 1/2 56		SGL. T. PARCEL. P. COMPLE.	
DRILLING ACTUAL 3 1/4 1 1/4 3 1/4		D.C. 3 1/2 x 6 1/4 129.90 FT.		MFG. SMITH		VISC.-SEC													
REAMING 1 1/4		I.D. O.D. FT.		TYPE DT.398		W.L.-C.C.													
CONDITIONING MUD & CIRCULATING 3 1/4 1 1/4		D.C. FT.		NO. 3		FLTR. CK.													
TRIPS 1 1 1/4		I.D. O.D. FT.		NOZZLE SIZE 2-11		PH													
LUBRICATE RIG 1 1/4		STR. BODY O.D. FT.		SER. NO. DD138		SD. CONT. %													
DEVIATION SURVEY 1 1/4		STR. BODY O.D. FT.		DEPTH OUT 935		PRESSURE GRADIENT													
TEST B.O.P.		STR. BODY O.D. FT.		DEPTH IN 860															
CUT OFF DRILLING LINE		SUBS. O.D. 1.65 FT.		TOTAL FTG. 75		MUD & CHEMICALS ADDED													
AIR RIG		SUBS. O.D. 2.10 FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.													
WIRE LINE LOGGING		BIT OR C.B. FT.		COND. OF BIT 6-8-04															
RUNNING CASING & CEMENTING		KELLY DOWN 31.41 FT.		REAMER NO.		DRILLER O.P. Hansen													
WAITING ON CEMENT		TOTAL 935.00 FT.		REAMER TYPE															
DRILL STEM TEST		WT. OF STRING 647 M. LBS.																	
OTHER		NO. STANDS D.P. FT.		BIT NO. 2		TIME 3:00		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP PRESS		PUMP NO.		METHOD RUN	
FINISHING		SINGLES D.P. 392.22 FT.		SIZE 7 1/2		WEIGHT 8.4		935 973		0				60 16 850 5 1/2 55				SGL. T. PARCEL. P. COMPLE.	
A. PERFORATING		D.C. FT.		MFG. H.W.		VISC.-SEC 28													
B. TUBING TRIPS		I.D. O.D. FT.		TYPE DD138		W.L.-C.C.													
C. SWABBING		NOZZLE NO. 2-11		SIZE 1-10		FLTR. CK.													
D. TESTING		STR. BODY O.D. 3.67 FT.		SER. NO. 18205		SD. CONT. %													
E. ADDITIONAL		STR. BODY O.D. 4.37 FT.		DEPTH OUT 935		PRESSURE GRADIENT													
TIME SUMMARY (OFFICE USE ONLY)		STR. BODY O.D. 3.56 FT.		DEPTH IN 935															
DAY WORK		SUBS. O.D. 1.65 FT.		TOTAL FTG. 38		MUD & CHEMICALS ADDED													
HRS. NO/DP		BIT OR C.B. 8.70 FT.		TOTAL HR. RUN 1 1/4		TYPE AMT. TYPE AMT.													
HRS. STANDBY		KELLY DOWN 22.93 FT.		COND. OF BIT Run		DRILLER Ron Snydl													
		TOTAL 973.00 FT.		REAMER NO.															
		WT. OF STRING 67 M. LBS.		REAMER TYPE															
		NO. STANDS D.P. 524.36 FT.		BIT NO. 2		TIME 9:00 12:00		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP PRESS		PUMP NO.		METHOD RUN	
		SINGLES D.P. FT.		SIZE 7 1/2		WEIGHT 78.6		973 1000		D.				60 16m 860 5 1/2 55				SGL. T. PARCEL. P. COMPLE.	
		D.C. FT.		MFG. H.W.		VISC.-SEC 31 35													
		I.D. O.D. FT.		TYPE DDV-5		W.L.-C.C.													
		NOZZLE NO. 2-11		SIZE 1-10		FLTR. CK.													
		STR. BODY O.D. 3.67 FT.		SER. NO. 18205		SD. CONT. %													
		STR. BODY O.D. 4.37 FT.		DEPTH OUT 935		PRESSURE GRADIENT													
		RMR. BODY O.D. 3.56 FT.		DEPTH IN 935															
		SUBS. O.D. 1.65 FT.		TOTAL FTG. 165		MUD & CHEMICALS ADDED													
		BIT OR C.B. 8.70 FT.		TOTAL HR. RUN 1 1/2		TYPE AMT. TYPE AMT.													
		KELLY DOWN 23.78 FT.		COND. OF BIT Run		DRILLER Ron Snydl													
		TOTAL 1100 FT.		REAMER NO.															
		WT. OF STRING 68 M. LBS.		REAMER TYPE															
		NO. STANDS D.P. 524.36 FT.		BIT NO. 2		TIME 9:00 12:00		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP PRESS		PUMP NO.		METHOD RUN	
		SINGLES D.P. FT.		SIZE 7 1/2		WEIGHT 78.6		973 1000		D.				60 16m 860 5 1/2 55				SGL. T. PARCEL. P. COMPLE.	
		D.C. FT.		MFG. H.W.		VISC.-SEC 31 35													
		I.D. O.D. FT.		TYPE DDV-5		W.L.-C.C.													
		NOZZLE NO. 2-11		SIZE 1-10		FLTR. CK.													
		STR. BODY O.D. 3.67 FT.		SER. NO. 18205		SD. CONT. %													
		STR. BODY O.D. 4.37 FT.		DEPTH OUT 935		PRESSURE GRADIENT													
		RMR. BODY O.D. 3.56 FT.		DEPTH IN 935															
		SUBS. O.D. 1.65 FT.		TOTAL FTG. 165		MUD & CHEMICALS ADDED													
		BIT OR C.B. 8.70 FT.		TOTAL HR. RUN 1 1/2		TYPE AMT. TYPE AMT.													
		KELLY DOWN 23.78 FT.		COND. OF BIT Run		DRILLER Ron Snydl													
		TOTAL 1100 FT.		REAMER NO.															
		WT. OF STRING 68 M. LBS.		REAMER TYPE															
		NO. STANDS D.P. 524.36 FT.		BIT NO. 2		TIME 9:00 12:00		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP PRESS		PUMP NO.		METHOD RUN	
		SINGLES D.P. FT.		SIZE 7 1/2		WEIGHT 78.6		973 1000		D.				60 16m 860 5 1/2 55				SGL. T. PARCEL. P. COMPLE.	
		D.C. FT.		MFG. H.W.		VISC.-SEC 31 35													
		I.D. O.D. FT.		TYPE DDV-5		W.L.-C.C.													
		NOZZLE NO. 2-11		SIZE 1-10		FLTR. CK.													
		STR. BODY O.D. 3.67 FT.		SER. NO. 18205		SD. CONT. %													
		STR. BODY O.D. 4.37 FT.		DEPTH OUT 935		PRESSURE GRADIENT													
		RMR. BODY O.D. 3.56 FT.		DEPTH IN 935															
		SUBS. O.D. 1.65 FT.		TOTAL FTG. 165		MUD & CHEMICALS ADDED													
		BIT OR C.B. 8.70 FT.		TOTAL HR. RUN 1 1/2		TYPE AMT. TYPE AMT.													
		KELLY DOWN 23.78 FT.		COND. OF BIT Run		DRILLER Ron Snydl													
		TOTAL 1100 FT.		REAMER NO.															
		WT. OF STRING 68 M. LBS.		REAMER TYPE															
		NO. STANDS D.P. 524.36 FT.		BIT NO. 2		TIME 9:00 12:00		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP PRESS		PUMP NO.		METHOD RUN	
		SINGLES D.P. FT.		SIZE 7 1/2		WEIGHT 78.6		973 1000		D.				60 16m 860 5 1/2 55				SGL. T. PARCEL. P. COMPLE.	
		D.C. FT.		MFG. H.W.		VISC.-SEC 31 35													
		I.D. O.D. FT.		TYPE DDV-5		W.L.-C.C.													
		NOZZLE NO. 2-11		SIZE 1-10		FLTR. CK.													
		STR. BODY O.D. 3.67 FT.		SER. NO. 18205		SD. CONT. %													
		STR. BODY O.D. 4.37 FT.		DEPTH OUT 935		PRESSURE GRADIENT													
		RMR. BODY O.D. 3.56 FT.		DEPTH IN 935															
		SUBS. O.D. 1.65 FT.		TOTAL FTG. 165		MUD & CHEMICALS ADDED													
		BIT OR C.B. 8.70 FT.		TOTAL HR. RUN 1 1/2		TYPE AMT. TYPE AMT.													
		KELLY DOWN 23.78 FT.		COND. OF BIT Run		DRILLER Ron Snydl													
		TOTAL 1100 FT.		REAMER NO.															
		WT. OF STRING 68 M. LBS.		REAMER TYPE															
		NO. STANDS D.P. 524.36 FT.		BIT NO. 2		TIME 9:00 12:00		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP PRESS		PUMP NO.		METHOD RUN	
		SINGLES D.P. FT.		SIZE 7 1/2		WEIGHT 78.6		973 1000		D.				60 16m 860 5 1/2 55				SGL. T. PARCEL. P. COMPLE.	
		D.C. FT.		MFG. H.W.		VISC.-SEC 31 35													
		I.D. O.D. FT.		TYPE DDV-5		W.L.-C.C.													
		NOZZLE NO. 2-11		SIZE 1-10		FLTR. CK.													
		STR. BODY O.D. 3.67 FT.		SER. NO. 18205		SD. CONT. %													
		STR. BODY O.D. 4.37 FT.		DEPTH OUT 935		PRESSURE GRADIENT													
		RMR. BODY O.D. 3.56 FT.		DEPTH IN 935															
		SUBS. O.D. 1.65 FT.		TOTAL FTG. 165		MUD & CHEMICALS ADDED													
		BIT OR C.B. 8.70 FT.		TOTAL HR. RUN 1 1/2		TYPE AMT. TYPE AMT.													
		KELLY DOWN 23.78 FT.		COND. OF BIT Run		DRILLER Ron Snydl													
		TOTAL 1100 FT.		REAMER NO.															
		WT. OF STRING 68 M. LBS.		REAMER TYPE															
		NO. STANDS D.P. 524.36 FT.		BIT NO. 2		TIME 9:00 12:00		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP PRESS		PUMP NO.		METHOD RUN	
		SINGLES D.P. FT.		SIZE 7 1/2		WEIGHT 78.6		973 1000		D.				60 16m 860 5 1/2 55				SGL. T. PARCEL. P. COMPLE.	
		D.C. FT.		MFG. H.W.		VISC.-SEC 31 35													
		I.D. O.D. FT.		TYPE DDV-5		W.L.-C.C.													
		NOZZLE NO. 2-11		SIZE 1-10		FLTR. CK.													
		STR. BODY O.D. 3.67 FT.		SER. NO. 18205		SD. CONT. %													
		STR. BODY O.D. 4.37 FT.		DEPTH OUT 935		PRESSURE GRADIENT													
		RMR. BODY O.D. 3.56 FT.		DEPTH IN 935															
		SUBS. O.D. 1.65 FT.		TOTAL FTG. 165		MUD & CHEMICALS ADDED													
		BIT OR C.B. 8.70 FT.		TOTAL HR. RUN 1 1/2		TYPE AMT. TYPE AMT.													
		KELLY DOWN 23.78 FT.		COND. OF BIT Run		DRILLER Ron Snydl													
		TOTAL 1100 FT.		REAMER NO.															
		WT. OF STRING 68 M. LBS.		REAMER TYPE															
		NO. STANDS D.P. 524.36 FT.		BIT NO. 2		TIME 9:00 12:00		FROM TO		DR. D RM. R CORE. C		CORE NO.		PUMP PRESS		PUMP NO.		METHOD RUN	
		SINGLES D.P. FT.		SIZE 7 1/2		WEIGHT 78.6		973 1000		D.				60 16m 860 5 1/2 55					

DAILY DRILLING REPORT

REPORT NO. 8

DATE July 17 1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE									
J. Roy McDermott		M.D. CAN. GCO MAIDA CREEK		F57				N.W.T.		CANADA									
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	KG. TO CSG. NO.	SET AT	REMARKS					
S & T DRILLING (WESTERN) CO. LTD.		1E	HO. 2 SIZE 4	5 O.D. TYPE YHD. 3 1/2 IF	HO. 1 MANUFACTURER NATIONAL	TYPE K380	STROKE LENGTH 14	LAST CASING TUBING OR LINER	13 3/4 JAP	48 3/4	3	981.6	90	675x CEMENT					
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUMPER		HO. 2 MANUFACTURER		TYPE K380	STROKE LENGTH 14			8 1/2 ANN	24 1/2	23	876.42	860	5005x CEMENT 27/65				
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUMPER		HO. 3															
TIME DISTRIBUTION - HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
MORN DAY EVE		STANDS D.P. FT.		BIT NO.		TIME		FROM TO		CORE NO.		DEPTH		DEV.		DIRECTION		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
RIG UP & TEAR DOWN		SINGLES D.P. FT.		SIZE		WEIGHT		860											
DRILLING ACTUAL		D.C.		MFG.		VISC.-SEC													
REAMING		I.D. O.D. FT.		TYPE		W.L.-C.C.													
CONDITIONING MUD & CIRCULATING		D.C.		NO. NOZZLE		FLTR. CK.													
TRIPS		I.D. O.D. FT.		SER. NO.		PH													
LUBRICATE RIG		STB. BODY O.D. FT.		DEPTH OUT		SD. CONT. %													
DEVIATION SURVEY		STB. BODY O.D. FT.		DEPTH IN		PRESSURE GRADIENT													
TEST B.O.P.		RMR. BODY O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED													
CUT OFF DRILLING LINE		SUBS O.D. FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.													
AIR RIG		BIT OR C.B. FT.		COND. OF BIT															
LOGGING		KELLY DOWN FT.		REAMER NO.		DRILLER													
WIRE LINE LOGGING		TOTAL FT.		REAMER TYPE															
RUNNING CASING & CEMENTING		WT. OF STRING LBS.																	
WAITING ON CEMENT																			
CRILL STEM TEST																			
OTHER																			
FISHING																			
A. PERFORATING																			
B. TUBING TRIP																			
C. SWABBING																			
D. TESTING																			
E. ADDITIONAL																			
TIME SUMMARY (OFFICE USE ONLY)																			
DAY WORK																			
HRS. W/DP																			
HRS. WO/DP																			
HRS. STANDBY																			
TOTAL DAY WORK																			
WIRE LINE RECORD																			
REEL NO.																			
NO. OF LINES																			
SIZE																			
FEET SLIPPED																			
FEET CUT OFF																			
PRESENT LENGTH																			
TON MI. OR TRIPS SINCE LAST CUT																			
CUMULATIVE TON MI. OR TRIPS																			
NO. OF DAYS FROM SPUD																			
CUMULATIVE ROTATING HRS.																			

MORNING TOUR

STANDS D.P. FT. 860

SINGLES D.P. FT.

D.C.

I.D. O.D. FT.

D.C.

I.D. O.D. FT.

STB. BODY O.D. FT.

STB. BODY O.D. FT.

RMR. BODY O.D. FT.

SUBS O.D. FT.

BIT OR C.B. FT.

KELLY DOWN FT.

TOTAL FT.

WT. OF STRING LBS.

REAMER NO.

REAMER TYPE

DRILLER

DAY TOUR

STANDS D.P. FT.

SINGLES D.P. FT.

D.C.

I.D. O.D. FT.

D.C.

I.D. O.D. FT.

STB. BODY O.D. FT.

STB. BODY O.D. FT.

RMR. BODY O.D. FT.

SUBS O.D. FT.

BIT OR C.B. FT.

KELLY DOWN FT.

TOTAL FT.

WT. OF STRING LBS.

REAMER NO.

REAMER TYPE

DRILLER

EVENING TOUR

STANDS D.P. FT.

SINGLES D.P. FT.

D.C.

I.D. O.D. FT.

D.C.

I.D. O.D. FT.

STB. BODY O.D. FT.

STB. BODY O.D. FT.

RMR. BODY O.D. FT.

SUBS O.D. FT.

BIT OR C.B. FT.

KELLY DOWN FT.

TOTAL FT.

WT. OF STRING LBS.

REAMER NO.

REAMER TYPE

DRILLER

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

W.O.C. - CHECKED RIG SAVERS OK R.H.

SHACK OFF ON CSG & BACKED OUT LANDING 31 @ 6:00 AM.

Shipped section rods to S&T via P.W.A.

W.O.C. Saw on CSG Band Weld & Head Up

SCREW ON BAND WELD & HEAD UP

FLD T&R.

MAKE NEW SECTION ON STAND PIPE

W.O.C. - Head Up - SEASON HYDRIL BEAMS

WH - REMARK CAP OF HYDRIL CHANG

SEAL - (UPPER) RE ASSEMBLY (QTY)

CHANGUT NOUSE HOLE

PRESSURE BEAD PAMS - 1200" HOLD 15 MIN

Run in PRESSURE 4" PAMS 1100" HOLD 15 MIN

Run in PRESSURE UP HYDRIL - 1000" HOLD 15 MIN

Pick up 6 DC & FINISH IN TO Plug.

DAILY DRILLING REPORT

REPORT NO. 7

DATE

July 16 '70

OPERATOR J. RAY McDERMOTT		LEASE M^{rs} CAN ECO MAIDACK		WELL NO. E-57	FIELD OR DIST. N.W.T.	COUNTRY CANADA	STATE						
CONTRACTOR S & T DRILLING (WESTERN) CO. LTD.		RIG NO. 1E	DRILL PIPE STRING NO. 2 SIZE 4 TYPE THD. 3 1/2 IF	PUMPS NO. 1 MANUFACTURER NAT TYPE K-380 STROKE LENGTH 14"		SIZE 13 3/8	MAKE MANNA	WT. & GR. 155	NO. JOINTS 3	FEET 911.40	RKB. TO CSG. HD. 70' RKB	SET AT 67 1/2	REMARKS CEMENT
SIGNATURE OF OPERATOR'S REPRESENTATIVE L.H. Waffar		SIGNATURE OF CONTRACTOR'S TOOL PUSHER L.H. Waffar		LAST CASING TUBING OR LINER K 380 14"									

TIME DISTRIBUTION-HOURS				DRILLING ASSEMBLY AT END OF TOUR				BIT RECORD				MUD RECORD				FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
MORN DAY EVE				STANDS D.P. 461.90 FT.				BIT NO. 7B 5A				TIME 4:00				FROM 839 TO 860		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
RIG UP & TEAR DOWN				SINGLES D.P. 12 1/2 FT.				SIZE 12 1/2				WEIGHT 9.5															
DRILLING ACTUAL 30				D.C. 12				MFG. SUM HTE				VISC.-SEC 88															
REAMING				I.D. O.D. 354.48 FT.				TYPE NO. 3				W.L.-C.C.															
CONDITIONING MUD & CIRCULATING				D.C. 12				NOZZLE				FLTR. CK.															
TRIPS				I.D. O.D. 1.00 FT.				PH																			
LUBRICATE RIG				STB. BODY O.D. 1.65 FT.				SER. NO. 8504 11122				SO. CONT. %															
DEVIATION SURVEY				STB. BODY O.D. 3.10 FT.				DEPTH OUT 839 860				PRESSURE GRADIENT															
TEST B.O.P.				STB. BODY O.D. 2.37 FT.				DEPTH IN 500 839																			
CUT OFF DRILLING LINE				SUBS O.D. 1.00 FT.				TOTAL FTG. 253 21				MUD & CHEMICALS ADDED															
PAIR RIG				BIT OR C.B. 1.00 FT.				TOTAL HR. RUN 10 3/4 39				TYPE REL AMT. 1000															
WIRE LINE LOGGING				KELLY DOWN 36.50 FT.				COND. OF BIT																			
RUNNING CASING & CEMENTING				TOTAL 860 FT.				REAMER NO.				DRILLER															
WAITING ON CEMENT				WT. OF STRING 54 M LBS.				REAMER TYPE H10																			
DEVIATION SURVEY				STANDS D.P. 12 1/2 FT.				BIT NO.				TIME				FROM 860 TO		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
OTHER				SINGLES D.P. 12 1/2 FT.				SIZE				WEIGHT															
FISHING				D.C. 12				MFG.				VISC.-SEC															
A. PERFORATING				I.D. O.D. 12 1/2 FT.				TYPE				W.L.-C.C.															
B. TURNING T. RPS				D.C. 12				NOZZLE				FLTR. CK.															
C. SWABBING				I.D. O.D. 12 1/2 FT.				PH																			
D. TESTING				STB. BODY O.D. 12 1/2 FT.				SER. NO.				SO. CONT. %															
E. ADDITIONAL				STB. BODY O.D. 12 1/2 FT.				DEPTH OUT				PRESSURE GRADIENT															
TOTAL				RHR. BODY O.D. 12 1/2 FT.				DEPTH IN																			
TIME PRIMARY (OFFICE USE ONLY)				SUBS O.D. 12 1/2 FT.				TOTAL FTG.				MUD & CHEMICALS ADDED															
DAY LOG				BIT OR C.B. 12 1/2 FT.				TOTAL HR. RUN				TYPE AMT. TYPE AMT.															
HRS. W/D				KELLY DOWN 12 1/2 FT.				COND. OF BIT																			
HRS. W/D				TOTAL 12 1/2 FT.				REAMER NO.				DRILLER															
HRS. STANDBY				WT. OF STRING 12 1/2 LBS.				REAMER TYPE																			
TOTAL DAY WORK				STANDS D.P. 12 1/2 FT.				BIT NO.				TIME				FROM 12 1/2 TO		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
WIRE LINE RECORD				SINGLES D.P. 12 1/2 FT.				SIZE				WEIGHT															
SEEL NO.				D.C. 12				MFG.				VISC.-SEC															
NO. OF LINES				I.D. O.D. 12 1/2 FT.				TYPE				W.L.-C.C.															
FEET SLIPPED				D.C. 12				NOZZLE				FLTR. CK.															
FEET CUT OFF				I.D. O.D. 12 1/2 FT.				PH																			
PRESENT LENGTH				STB. BODY O.D. 12 1/2 FT.				SER. NO.				SO. CONT. %															
TOTAL M. OR TRIPS				STB. BODY O.D. 12 1/2 FT.				DEPTH OUT				PRESSURE GRADIENT															
SINCE LAST CUT				RHR. BODY O.D. 12 1/2 FT.				DEPTH IN																			
CUMULATIVE				SUBS O.D. 12 1/2 FT.				TOTAL FTG.				MUD & CHEMICALS ADDED															
TOTAL M. OR TRIPS				BIT OR C.B. 12 1/2 FT.				TOTAL HR. RUN				TYPE AMT. TYPE AMT.															
NO. OF DAYS				KELLY DOWN 12 1/2 FT.				COND. OF BIT																			
FROM 12:00				TOTAL 12 1/2 FT.				REAMER NO.				DRILLER															
CUMULATIVE				WT. OF STRING 12 1/2 LBS.				REAMER TYPE																			
ROTATING MRS				STANDS D.P. 12 1/2 FT.				BIT NO.				TIME				FROM 12 1/2 TO		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
				SINGLES D.P. 12 1/2 FT.				SIZE				WEIGHT															
				D.C. 12				MFG.				VISC.-SEC															
				I.D. O.D. 12 1/2 FT.				TYPE				W.L.-C.C.															
				D.C. 12				NOZZLE				FLTR. CK.															
				I.D. O.D. 12 1/2 FT.				PH																			
				STB. BODY O.D. 12 1/2 FT.				SER. NO.				SO. CONT. %															
				STB. BODY O.D. 12 1/2 FT.				DEPTH OUT				PRESSURE GRADIENT															
				RHR. BODY O.D. 12 1/2 FT.				DEPTH IN																			
				SUBS O.D. 12 1/2 FT.				TOTAL FTG.				MUD & CHEMICALS ADDED															
				BIT OR C.B. 12 1/2 FT.				TOTAL HR. RUN				TYPE AMT. TYPE AMT.															
				KELLY DOWN 12 1/2 FT.				COND. OF BIT																			
				TOTAL 12 1/2 FT.				REAMER NO.				DRILLER															
				WT. OF STRING 12 1/2 LBS.				REAMER TYPE																			
				STANDS D.P. 12 1/2 FT.				BIT NO.				TIME				FROM 12 1/2 TO		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
				SINGLES D.P. 12 1/2 FT.				SIZE				WEIGHT															
				D.C. 12				MFG.				VISC.-SEC															
				I.D. O.D. 12 1/2 FT.				TYPE				W.L.-C.C.															
				D.C. 12				NOZZLE				FLTR. CK.															
				I.D. O.D. 12 1/2 FT.				PH																			
				STB. BODY O.D. 12 1/2 FT.				SER. NO.				SO. CONT. %															
				STB. BODY O.D. 12 1/2 FT.				DEPTH OUT				PRESSURE GRADIENT															
				RHR. BODY O.D. 12 1/2 FT.				DEPTH IN																			
				SUBS O.D. 12 1/2 FT.				TOTAL FTG.				MUD & CHEMICALS ADDED															
				BIT OR C.B. 12 1/2 FT.				TOTAL HR. RUN				TYPE AMT. TYPE AMT.															
				KELLY DOWN 12 1/2 FT.				COND. OF BIT																			
				TOTAL 12 1/2 FT.				REAMER NO.				DRILLER															
				WT. OF STRING 12 1/2 LBS.				REAMER TYPE																			
				STANDS D.P. 12 1/2 FT.				BIT NO.				TIME				FROM 12 1/2 TO		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
				SINGLES D.P. 12 1/2 FT.				SIZE				WEIGHT															
				D.C. 12				MFG.				VISC.-SEC															
				I.D. O.D. 12 1/2 FT.				TYPE				W.L.-C.C.															
				D.C. 12				NOZZLE				FLTR. CK.															
				I.D. O.D. 12 1/2 FT.				PH																			
				STB. BODY O.D. 12 1/2 FT.				SER. NO.				SO. CONT. %															
				STB. BODY O.D. 12 1/2 FT.				DEPTH OUT				PRESSURE GRADIENT															
				RHR. BODY O.D. 12 1/2 FT.				DEPTH IN																			
				SUBS O.D. 12 1/2 FT.				TOTAL FTG.				MUD & CHEMICALS ADDED															
				BIT OR C.B. 12 1/2 FT.				TOTAL HR. RUN				TYPE AMT. TYPE AMT.															
				KELLY DOWN 12 1/2 FT.				COND. OF BIT																			
				TOTAL 12 1/2 FT.				REAMER NO.				DRILLER															
				WT. OF STRING 12 1/2 LBS.				REAMER TYPE																			
				STANDS D.P. 12 1/2 FT.				BIT NO.				TIME				FROM 12 1/2 TO		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
				SINGLES D.P. 12 1/2 FT.				SIZE				WEIGHT															
				D.C. 12				MFG.				VISC.-SEC															
				I.D. O.D. 12 1/2 FT.				TYPE				W.L.-C.C.															
				D.C. 12				NOZZLE				FLTR. CK.															
				I.D. O.D. 12 1/2 FT.				PH																			
				STB. BODY O.D. 12 1/2 FT.				SER. NO.				SO. CONT. %															
				STB. BODY O.D. 12 1/2 FT.				DEPTH OUT				PRESSURE GRADIENT															
				RHR. BODY O.D. 12 1/2 FT.				DEPTH IN																			
				SUBS O.D. 12 1/2 FT.				TOTAL FTG.				MUD & CHEMICALS ADDED															
				BIT OR C.B. 12 1/2 FT.				TOTAL HR. RUN				TYPE AMT. TYPE AMT.															
				KELLY DOWN 12 1/2 FT.				COND. OF BIT																			
				TOTAL 12 1/2 FT.				REAMER NO.				DRILLER															
				WT. OF STRING 12 1/2 LBS.				REAMER TYPE																			
				STANDS D.P. 12 1/2 FT.				BIT NO.				TIME				FROM 12 1/2 TO		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
				SINGLES D.P. 12 1/2 FT.				SIZE				WEIGHT															
				D.C. 12				MFG.				VISC.-SEC															
				I.D. O.D. 12 1/2 FT.				TYPE				W.L.-C.C.															
				D.C. 12				NOZZLE				FLTR. CK.															
				I.D. O.D. 12 1/2 FT.				PH																			
				STB. BODY O.D. 12 1/2 FT.				SER. NO.				SO. CONT. %															
				STB. BODY O.D. 12 1/2 FT.				DEPTH OUT				PRESSURE GRADIENT															
				RHR. BODY O.D. 12 1/2 FT.				DEPTH IN																			
				SUBS O.D. 12 1/2 FT.				TOTAL FTG.				MUD & CHEMICALS ADDED															
				BIT OR C.B. 12 1/2 FT.				TOTAL HR. RUN																			

DAILY DRILLING REPORT

REPORT NO. 3

DATE July 12 1977

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE													
J. Ray M'Dermott		M'Dermott Co. B.T.S. Co.		537		MADON CREEK		New T.		CANADA													
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS		SIZE	MAKE	WT. & CR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS								
S & T DRILLING (WESTERN) CO. LTD.		1E	NO. 1	SIZE	TYPE THD.	NO. 1	MANUFACTURER	TYPE	STROKE LENGTH	LAST CASING TUBING OR LINER													
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER				1. NATIONAL		K380	14														
						2. "		K380	14														
						3. "																	
TIME DISTRIBUTION - HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN					
MORN DAY EVE		STANDS D.P. FT.		BIT NO. 2A		TIME		FROM TO		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
RIG UP & BREAK DOWN		SINGLES D.P. FT.		SIZE 12 3/4		WEIGHT		90 90		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
DRILLING ACTUAL		D.C.		MFG. HTC		VISC. - SEC				DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
REAMING		I.D. O.D. FT.		TYPE OSC 86		W.L. - C.C.				DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
CONDITIONING MUD & CIRCULATING		D.C.		NO. 2-16		FLTR. CK.				DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
TRIPS		I.D. O.D. FT.		NOZZLE		PH				DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
LUBRICATE RIG		STB. BODY O.D. FT.		SER. NO. TL-130		SD. CONT. %				DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
DEVIATION SURVEY		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT				DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
TEST B.O.P.		RMR. BODY O.D. FT.		DEPTH IN						DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
CUT OFF DRILLING LINE		SUBS O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED				DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
REPAIR RIG		BIT OR C.B. FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.				DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
WIRING		KELLY DOWN FT.		COND. OF BIT						DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
WIRE LINE LOGGING		TOTAL FT.		REAMER NO.		DRILLER				DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
RUNNING CASING & CEMENTING		WT. OF STRING LBS.		REAMER TYPE						DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
WAITING ON CEMENT		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
DRILL STEM TEST		STANDS D.P. FT.		BIT NO. 2A		TIME 3:20		FROM TO		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
OTHER		SINGLES D.P. FT.		SIZE 12 3/4		WEIGHT		80 90		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
FISHING		D.C.		MFG. H.W.		VISC. SEC 39		90 197		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
COMPLETION WORK		I.D. O.D. FT.		NOZZLE		FLTR. CK.		DEVIATION RECORD		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
A. PERFORATING		STB. BODY O.D. FT.		SER. NO. TL-130		SD. CONT. %		FROM TO		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
B. TUBING TRIPS		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT		8:00 8:15		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
C. "VABBING"		STB. BODY O.D. FT.		DEPTH IN				8:15 9:00		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
D. TESTING		RMR. BODY O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED		9:00 9:15		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
E. ADDITIONAL		SUBS O.D. FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.		9:15 9:45		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
TOTALS		BIT OR C.B. FT.		TOTAL HR. RUN		COND. OF BIT		9:45 2:30		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
TIME SUMMARY (OFFICE USE ONLY)		KELLY DOWN FT.		REAMER NO.		DRILLER		2:30 2:45		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
DAY WORK		TOTAL FT.		REAMER TYPE				2:45 4:00		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
HRS. W/DP		WT. OF STRING LBS.		REAMER TYPE						DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
HRS. W/DP		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN			
HRS. STANDBY		STANDS D.P. FT.		BIT NO. 2A		TIME 9:00 11:00		FROM TO		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
TOTAL DAY WORK		SINGLES D.P. FT.		SIZE 12 3/4		WEIGHT		177 315		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
WIRE LINE RECORD		D.C.		MFG. H.W.		VISC. SEC 40 39		DEVIATION RECORD		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
REEL NO.		I.D. O.D. FT.		NOZZLE		FLTR. CK.		FROM TO		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
NO. OF LINES		STB. BODY O.D. FT.		SER. NO. TL-130		SD. CONT. %		170 1/4		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
FEET SLIPPED		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT		4:00 4:15		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
FEET CUT OFF		STB. BODY O.D. FT.		DEPTH IN				4:15 7:30		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
PRESENT LENGTH		RMR. BODY O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED		7:10 7:45		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
TON MI. OR TRIPS SINCE LAST CUT		SUBS O.D. FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.		7:45 11:45		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
CUMULATIVE TON MI. OR TRIPS		BIT OR C.B. FT.		TOTAL HR. RUN		COND. OF BIT		11:45 12:00		DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
NO. OF DAYS FROM SPUD		KELLY DOWN FT.		REAMER NO.		DRILLER				DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
CUMULATIVE ROTATING HRS.		TOTAL FT.		REAMER TYPE						DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	
		WT. OF STRING LBS.		REAMER TYPE						DR. D RM-R CORE-C		CORE NO.		FORMATION		ROTARY RPM		PUMP NO.		PUMP NO.		METHOD RUN	

DATE July 12/70

OPERATOR J. Ray Mc Dermott		LEASE M.D. CAN OCO MAIDA CK		WELL NO. 197		FIELD OR DIST. MAIDA CREEK.		COUNTY N.W.T.		STATE CANADA			
CONTRACTOR S & T DRILLING (WESTERN) CO. LTD.		RIG NO. 1E		DRILL PIPE STRING NO. SIZE		TOOL JOINT O.D. TYPE TID.		PUMPS NO. MANUFACTURER TYPE STROKE LENGTH		LAST CASING TUBING OR LINER		SIZE MAKE WT. & GR. NO. JOINTS FEET RKS. TO CSG. HD. SET AT REMARKS	
SIGNATURE OF OPERATOR'S REPRESENTATIVE J. Ray Mc Dermott		SIGNATURE OF CONTRACTOR'S TOOL PUSHER L. H. Webster		1. NATIONAL H380 14		2. " H380 14		3.					
TIME DISTRIBUTION - HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
MORN DAY EVE		STANDS D.P. FT. SINGLES D.P. FT. D.C. 29.76 I.D. O.D. FT. D.C. I.D. O.D. FT. STB. BODY O.D. FT. STB. BODY O.D. FT. RMR. BODY O.D. 4.10 FT. SUBS 3.10 FT. BIT OR C.D. 2.37 FT. KELLY DOWN 26.00 FT. TOTAL 65 FT. WT. OF STRING LBS.		BIT NO. 1A 1B SIZE 12 1/4 17 1/2 MFG. H75 Smith TYPE OSC 3 NO. NOZZLE NO. SIZE SER. NO. 16543 DEPTH OUT 90 DEPTH IN 0 0 TOTAL FTG. 90 TOTAL HR. RUN 10 1/4 COND. OF BIT REAMER NO. 8563 REAMER TYPE 3-P. S. Smith DRILLER C. H. Hanson		TIME WEIGHT VISC.-SEC. W.L.-C.C. FLTR. CK. PH SD. CONT. % PRESSURE GRADIENT MUD & CHEMICALS ADDED TYPE AMT. TYPE AMT.		FROM TO DR. D. RM. R CORE-C CORE NO. FORMATION (SHOW CORE RECOVERY) ROTARY RPM WT. ON BIT 1000# PUMP PRESS LINER SIZE S.P.M. LINER SIZE S.P.M.		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
RIG UP & TEAR DOWN		1		1A 1B		1A 1B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
DRILLING ACTUAL 2 1/2		2		2A 2B		2A 2B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
REAMING 4 1/2		3		3A 3B		3A 3B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
CONDITIONING MUD & CIRCULATING 1 1/2		4		4A 4B		4A 4B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
TRIPS 3/4		5		5A 5B		5A 5B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
LUBRICATE RIG 1/4		6		6A 6B		6A 6B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
DEVIATION SURVEY 1/4		7		7A 7B		7A 7B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
TEST B.O.P.		8		8A 8B		8A 8B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
CUT OFF DRILLING LINE		9		9A 9B		9A 9B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
WIRE LINE LOGGING		10		10A 10B		10A 10B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
RUNNING CASING & CEMENTING		11		11A 11B		11A 11B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
WAITING ON CEMENT		12		12A 12B		12A 12B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
DRILL STEM TEST		13		13A 13B		13A 13B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
OTHER		14		14A 14B		14A 14B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
FISHING		15		15A 15B		15A 15B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
A. PERFORATING		16		16A 16B		16A 16B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
B. TUBING TRIPS		17		17A 17B		17A 17B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
C. SWABBING		18		18A 18B		18A 18B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
D. TESTING		19		19A 19B		19A 19B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
E. ADDITIONAL		20		20A 20B		20A 20B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
TOTAL DAY WORK		21		21A 21B		21A 21B		20' 20' 100 250 5 1/2 70 ON SET		20' 20' 100 250 5 1/2 70 ON SET		PUMP NO. 1 PUMP NO. 2 METHOD RUN	
WIRE LINE RECORD		22		22A 22B		22A 22B		20' 20' 100 250 5 1/2 70 ON SET		20'			

[illegible]

DA 1141

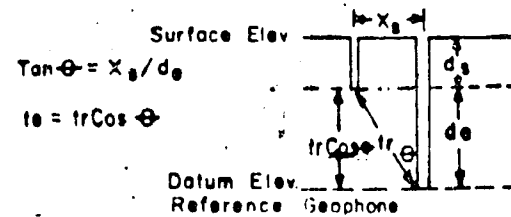
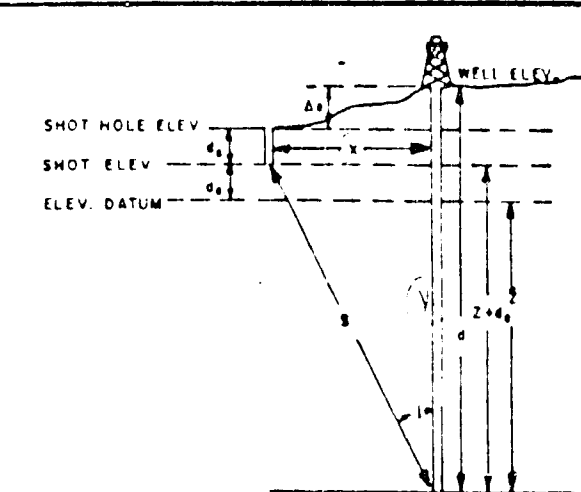
MCDERMOTT CANADA GCO MAIDA CK

F-57

Velocity Survey

WELL: ELEV @ KB = 395 FT.
ELEV @ GL = 382 FT.

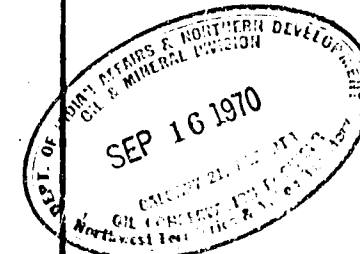
J. RAY M^c Dermott Can. Ltd, et al
MAIDA CREEK # F-57
NORTHWEST TERRITORIES, CANADA.

[illegible]

- X = Horizontal distance from well to shot point.
- d = Well geophone depth measured from well elevation.
- d₀ = Depth of shot.
- d₀ = Difference in elevation between shot and elevation datum.
- Δe = Difference in elevation between well and shot point.
- Z = Well geophone depth measured from elevation datum = d - (X B, elevation - elevation datum).
- Z + d₀ = Well geophone depth measured from shot elevation = d - d₀ - Δe
- S = Straight line travel path from shot to well geophone
- T = Observed time from shot to well geophone.
- t = Uphole time at shot or other surface reference time

$$\cos i = Z + d_0 / \sqrt{X^2 + (Z + d_0)^2}$$

- T = Vertical travel time from shot elevation to well geophone = $\cos i T$
- T_c = Vertical travel time from elevation datum to well geophone = $T - t_0$
- V₀ = Topmost velocity in consolidated layer.
- V_a = $\frac{Z}{T_c}$ = Average velocity.
- V_i = $\frac{\Delta Z}{\Delta T_c}$ = Interval velocity



DEVIATION OF SONIC INTEGRATED V_i
FROM CHECK SHOT CORRECTED TVC

$\Delta - .005$ ZERO $.005 \Delta +$

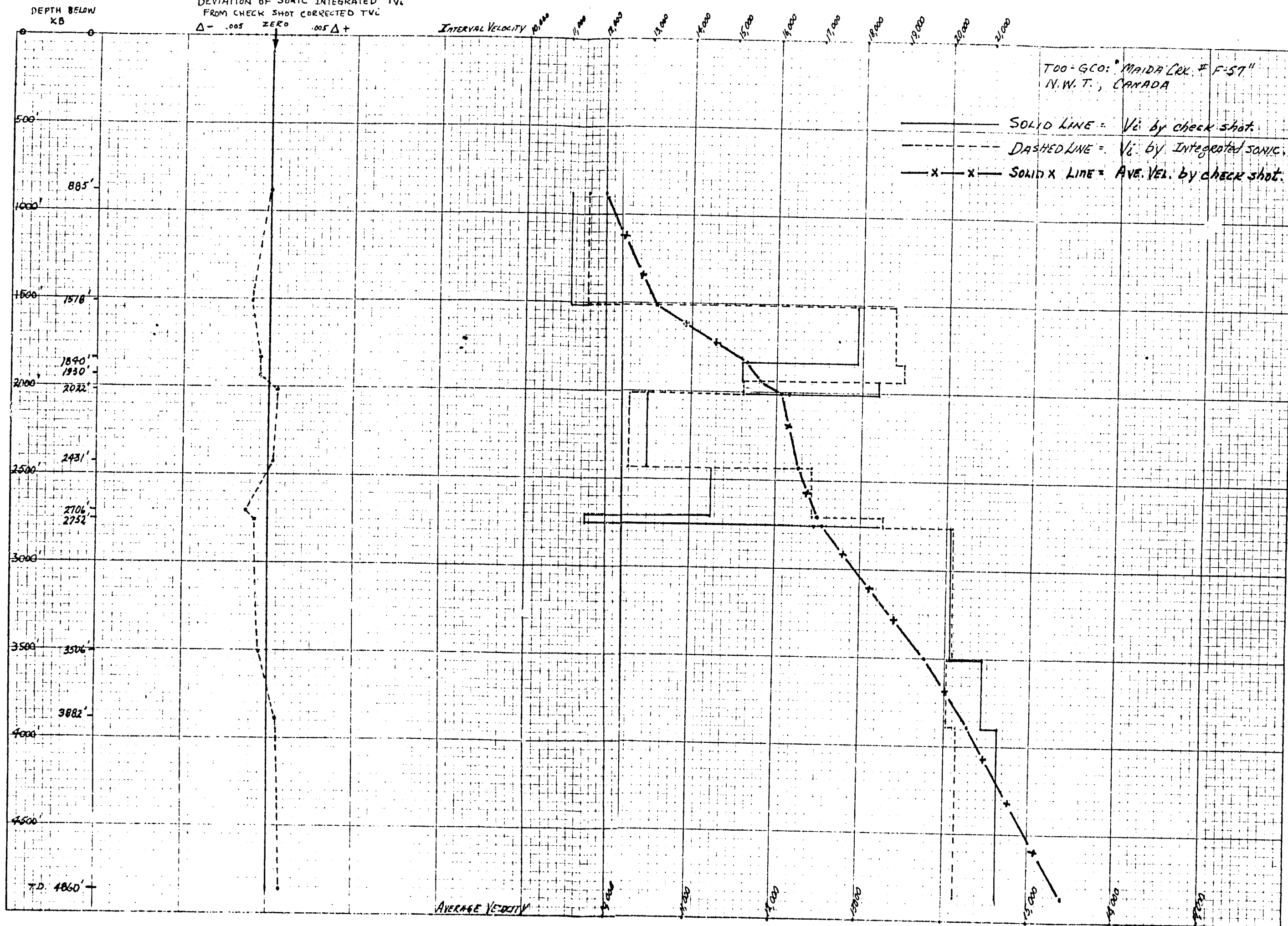
INTERVAL VELOCITY

T00-GCO: MAIDA CRK. # F-57"
N.W.T., CANADA

SOLID LINE = V_i by check shot.

DASHED LINE = V_i by Integrated SONIC.

SOLID X LINE = AVE. V_i by check shot.



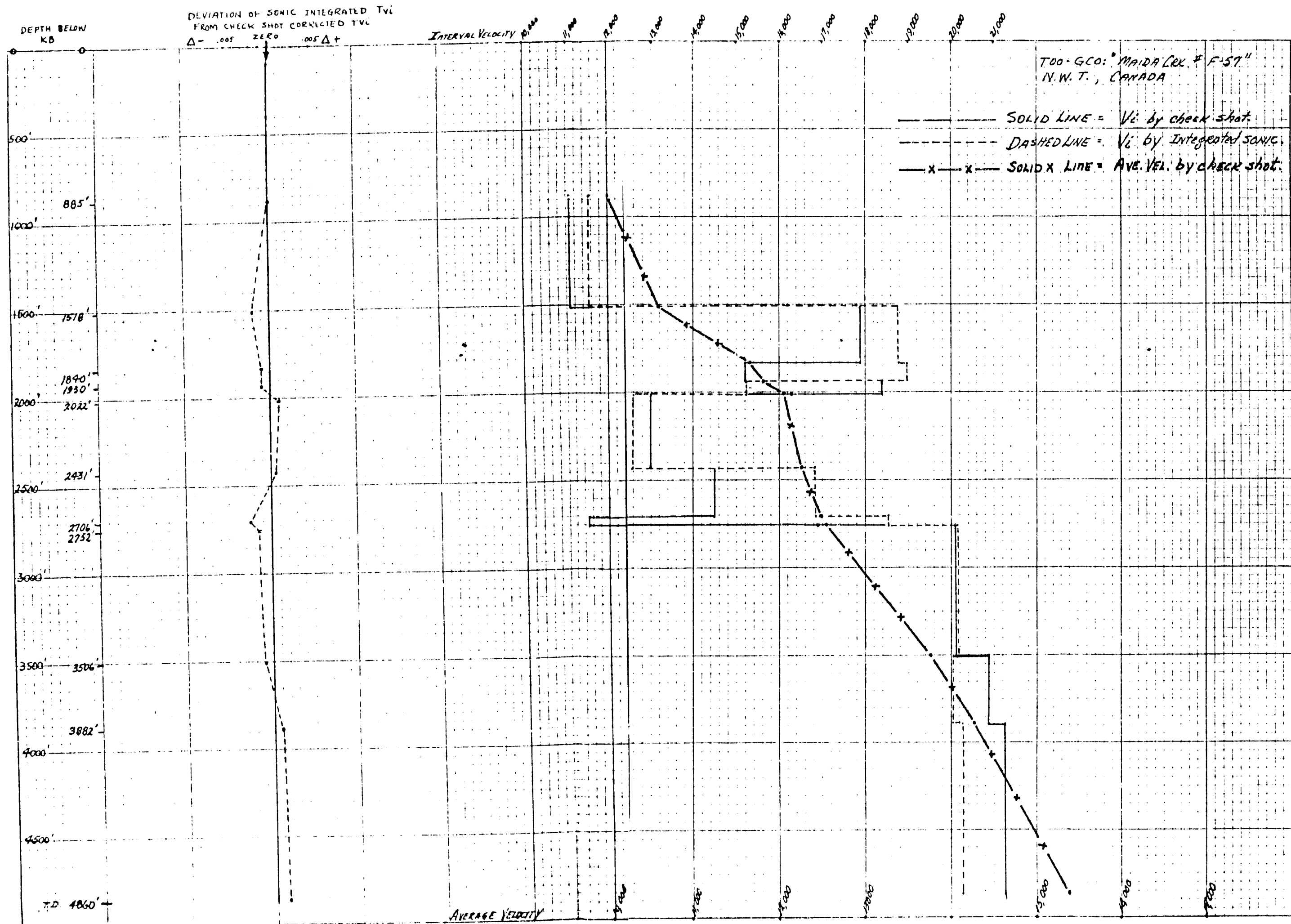
DR 441

MCDERMOTT CANADA GCO MAIDA CK

F-57

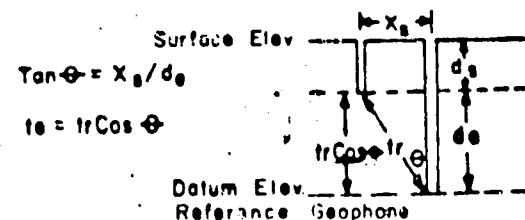
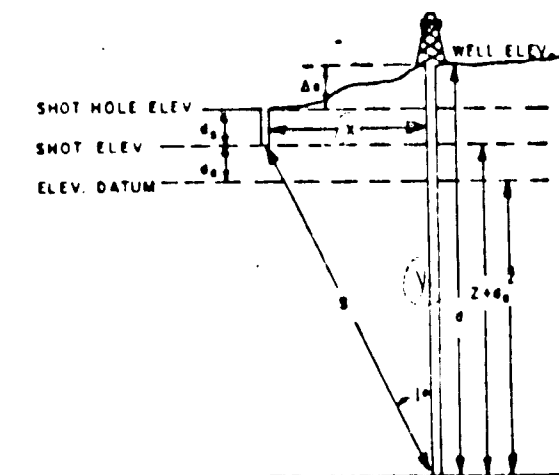
Velocity Survey

10 TO THE INCH 47 0702
NEEDLES 3 85850



WELL: Elev @ KB = 395 FT.
Elev @ GL = 382 FT.

J. RAY M^c Dermott Can. Ltd, et al
MAIDA CREEK # F-57
NORTHWEST TERRITORIES, CANADA.

[illegible]

- X = Horizontal distance from well to shot point.
 - d = Well geophone depth measured from well elevation
 - d_s = Depth of shot.
 - d_g = Difference in elevation between shot and elevation datum
 - Δz = Difference in elevation between well and shot point.
 - Z = Well geophone depth measured from elevation datum
= $d - (H.B. \text{ elevation} - \text{elevation datum})$.
 - $Z + d_g$ = Well geophone depth measured from shot elevation
 $d - d_s - \Delta z$
 - S = Straight line travel path from shot to well geophone
 - T = Observed time from shot to well geophone
 - t = Uphole time of shot or other surface reference time
- $$\cos \alpha = \frac{Z + d_g}{\sqrt{X^2 + (Z + d_g)^2}}$$
- T = Vertical travel time from shot elevation to well geophone
 - $\cos T$
 - T_c = Vertical travel time from elevation datum to well geophone
 - $T - t_g$
 - V_g = True velocity in consolidated layer.
 - $V_0 = \frac{X}{T_c}$ = Average velocity.
 - $V_I = \frac{\Delta Z}{\Delta T_c}$ = Interval velocity

