

Report of Progress

Permit Nos. 773 - 774

Kakisa Lake, N.W.T.

Merrill Petroelums Limited and New Superior Oils are joint holders of Permit Nos. 773 and 774 in the Kakisa Lake area. These permits were acquired February 24, 1954.

Pursuant to Section 30 (1) of the regulations pertaining to the permits of Petroleum and Natural Gas rights, we submit a progress report of our exploration work on the permits to date.

Permit Nos. 773 and 774 are two of three adjoining permits in the Kakisa Lake area held by Merrill Petroleums and Associates. A structure test program was conducted on Petroleum and Natural Gas permits Nos. 773, 774 and 869 in the Northwest Territories during a period from February 1st to February 23rd, 1956. The contractor for the program was Geophysical Prospecting Company Limited. The work was supervised by J. C. Sproule and Associates, Calgary, geological consultants; the field supervisor for J. C. Sproule and Associates was geologist, K. W. Kyle.

A total of eight structure tests were drilled on the three permits. Structure test hole Nos. 1 and 2 were drilled on permit 773 and test hole Nos. 3 and 5 were drilled on permit No. 774. The test holes were drilled to an average depth of 580 feet. Structure test correlations were made by electric logs supplemented by sample examination.

From previous work in the general area, a fault, now named the Providence Fault, was shown trending southwest-northeast in the direction of Permit No. 774. The structure test program has shown this fault trend to be an influence on the geological structure in the permits held by Merrill and Associates (See accompanying map).

Expenditures on Permit Nos. 773 and 774 to January 31st, 1957, shown on the accompanying Statutory Declaration of Expenditures total \$15,992.46.

We forward herewith:

- (1) 2 prints of each of the four electrical logs from test holes 1, 2, 3, 5, drilled on Permits 773 and 774.
- (2) 2 prints of Structure Contour Map of a specific geological marker.
(ie. Marker 'Q').


A. M. Patterson, P. Eng.
Exploration Manager.

ELECTRONIC

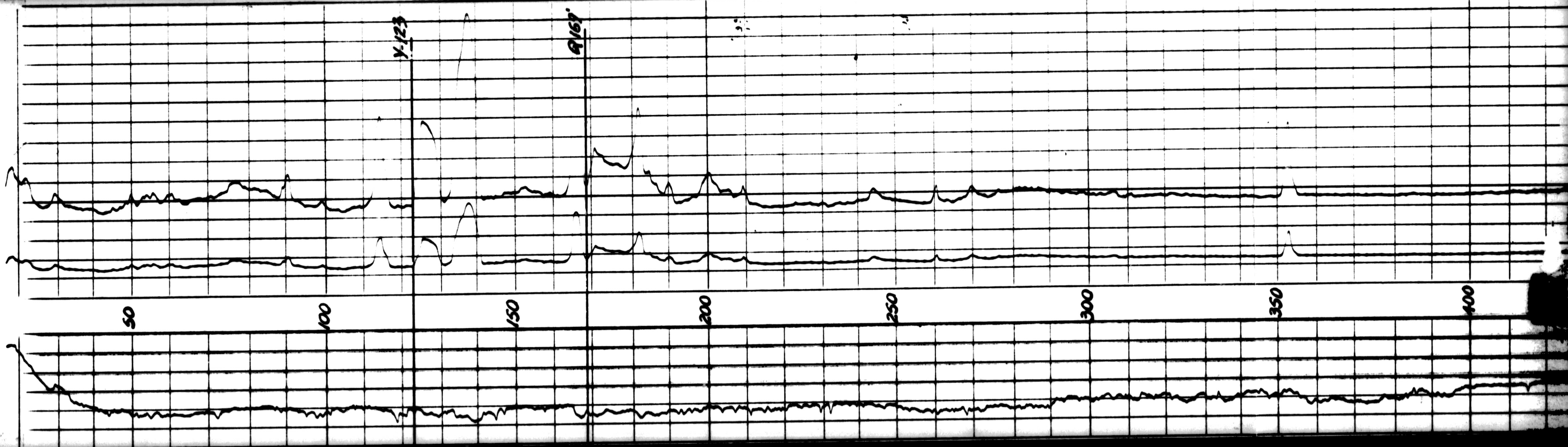
Logging & Velocity
Co. Ltd.

EDMONTON, ALBERTA

STRUCTURE TEST HOLE SURVEY

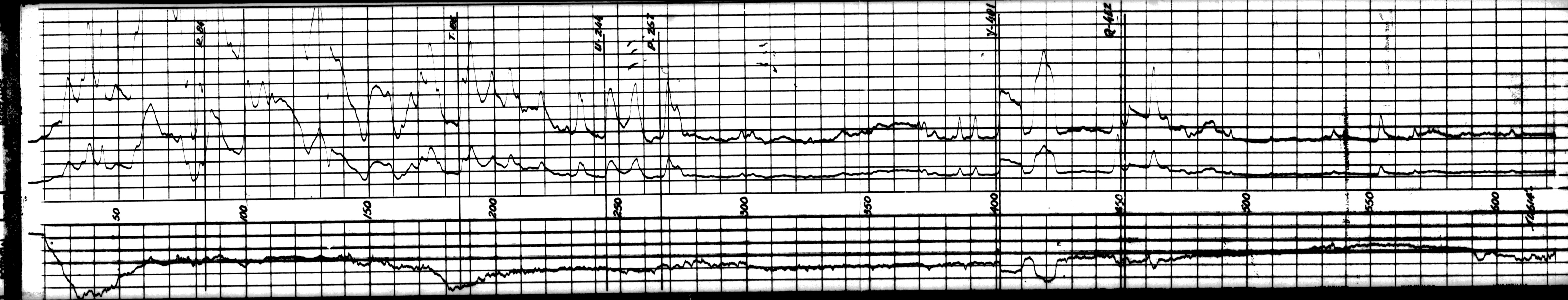
Location	COMPANY <u>MERRILL PATRICKS LTD.</u>
<u>1650'N</u> <u>34310'E</u> <u>of NE. cor.</u>	WELL <u>S.T. Hole No. 1</u> FILE
	FIELD <u>KARISA LAKE</u> <u>Willcoat</u>
	PROVINCE <u>N.W.T.</u> LSD
	Sec. <u>1</u> Twp. <u>140</u> Rge. <u>1</u> <u>6</u>
Log Measured From	<u>GROUND LEVEL</u> Elevation <u>779.9</u>
Run No. <u>1</u>	
Date <u>FEB 8, 1956</u>	
Footage Logged	
Total Depth, Logged <u>425'</u>	
Total Depth, Driller	
Csg Shoe, Logged	
Csg Shoe, Driller	
Csg Size <u>4 3/4"</u>	
Bit Size	
Mud Kind <u>Natural</u>	
Treatment	
Weight	
Viscosity	
Ph.	
Resist. Ohms m2m @ <u>°F</u> @ <u>°F</u>	
Loss ml/30 min	
Max Temp	
Recorded By <u>A.B. Barclay</u>	
Witnessed By <u>K. Lyle</u>	
REMARKS OR OTHER DATA	
<u>DEVIATIONS -</u>	

POTENTIAL 25 300 RESISTANCE 100



STRUCTURE TEST HOLE SURVEY

Location	COMPANY <u>MEADULL PETROLEUMS LTD.</u>
	WELL <u>ST. HUB. No. 2</u> FILE
	FIELD <u>STARO LANE W. 14-0-7</u>
	PROVINCE <u>N.W.T.</u> LSD <u>15E</u>
	Sec. <u>1</u> Twp. <u>140</u> Rge. <u>4</u> W <u>6</u>
	Log Measured From <u>GROUND LEVEL</u> Elevation <u>BUL'S</u>
Run No. <u>1</u>	Date <u>FEB. 10, 1956.</u>
Footage Logged	Total Depth, Logged <u>618'</u>
Total Depth, Driller	Cog Shoe, Logged
Cog Shoe, Driller	Cog Size <u>4 3/4"</u>
Bit Size	Mud Kind <u>Natural</u>
Weight	Viscosity
Pl.	Resist. Ohms m2m @ °F @ °F
Loss ml/30 min	Max Temp
Recorded By <u>C. G. G. G.</u>	Witnessed By <u>H. B. B. B.</u>
REMARKS OR OTHER DATA <u>Deviation:-</u>	



ELECTRONIC Logging Velocity Co. Ltd.

EDMONTON, ALBERTA

STRUCTURE TEST HOLE SURVEY

Location

COMPANY

NEARBY PETROLEUMS LTD.

2760'N
4950'W
of NE cor.

WELL

SI Hole No. 3

FILE

FIELD

~~NEARBY PETROLEUMS LTD.~~ Wildcat

PROVINCE

N.W.T.

LSD

Sec.

1 Twp. 140 Rge. 1 W 6

W 6

Log Measured From

GROUND LEVEL

Elevation

286.1

Run No.

1

Date

FEB. 2, 1956

Footage Logged

592'

Total Depth, Logged

592'

Total Depth, Driller

592'

Csg Shoe, Logged

592'

Csg Shoe, Driller

592'

Csg Size

4 3/4"

Bit Size

4 3/4"

Mud Kind

Mud

Treatment

Weight

Viscosity

Ph.

Resist. Ohms m2m

@ °F @ °F

Loss ml/30 min

Max Temp

Recorded By

C. G. Gammal

Witnessed By

H. A. Barron

REMARKS OR OTHER DATA

Deviations

POTENTIAL

25

300 RESISTANCE

100

50

100

150

200

250

300

350

400

450

500

550

600

650

700

750

800

850

900

950

1000

1050

1100

1150

1200

1250

1300

1350

1400

1450

1500

1550

1600

1650

1700

1750

1800

1850

1900

1950

2000

2050

2100

2150

2200

2250

2300

2350

2400

2450

2500

2550

2600

2650

2700

2750

2800

2850

2900

2950

3000

3050

3100

3150

3200

3250

3300

3350

3400

3450

3500

3550

3600

3650

3700

3750

3800

3850

3900

3950

4000

4050

4100

4150

4200

4250

4300

4350

4400

4450

4500

4550

4600

4650

4700

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4800

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5000

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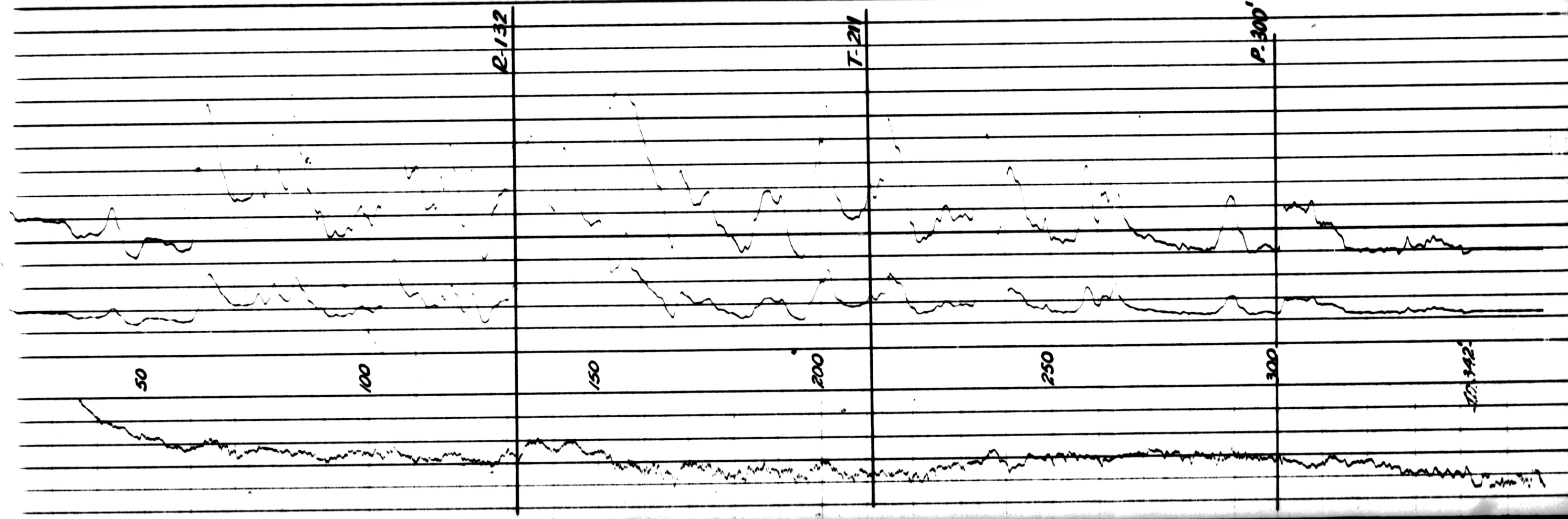
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Co. Ltd.

EDMONTON, ALBERTA

STRUCTURE TEST HOLE SURVEY

Location	COMPANY <u>Western Petroleum Ltd.</u>
<u>11500'N</u>	WELL <u>ST. Paul's</u> FILE
<u>12940'N</u>	FIELD <u>St. Paul's</u> Wildcat
<u>01 NE COR.</u>	PROVINCE <u>N.W.T.</u> LSD
	Sec. <u>1</u> Twp. <u>140</u> Rge. <u>1</u> W <u>6</u>
Log Measured From <u>Ground Level</u>	Elevation <u>2382</u>
Run No. <u>2</u>	Date <u>FEB 4, 1956</u>
Footage Logged	
Total Depth, Logged <u>342'</u>	
Total Depth, Driller	
Csg Shoe, Logged	
Csg Shoe, Driller	
Csg Size	
Bit Size <u>4-3/4"</u>	
Mud Kind <u>Natural</u>	
Treatment	
Weight	
Viscosity	
Ph.	
Resist. Ohms m2m @ <u> </u> °F @ <u> </u> °F	
Loss ml/30 min	
Max Temp	
Recorded By <u>G. G. G. G.</u>	
Witnessed By <u>A. B. B. B.</u>	
REMARKS OR OTHER DATA	
<u>Denominations -</u>	

POTENTIAL RESISTANCE



ELECTRONIC
Logging Velocity
Co. Ltd.
EDMONTON, ALBERTA

STRUCTURE TEST HOLE SURVEY

Location	COMPANY <u>MEGILL PETROLEUMS LTD.</u>
<u>15980'S,</u> <u>27160'N</u> <u>of N.E. cor</u>	WELL <u>ST-Hue No. 5</u> FILE
	FIELD <u>Karman-Lane-Wildcat</u>
	PROVINCE <u>Manit</u> LSD
	Sec. <u>1</u> Twp. <u>140</u> Rge. <u>1</u> W <u>6</u>

Log Measured From Cannon Level Elevation 778.8

Run No. <u>1</u>
Date <u>Feb. 12, 1956</u>
Footage Logged <u>403'</u>
Total Depth, Logged
Total Depth, Driller
Csg Shoe, Logged
Csg Shoe, Driller
Csg Size
Bit Size <u>4 3/4"</u>

Mud Kind Natural

Weight

Viscosity

Ph.

Resist. Ohms m2m @ °F @ °F

Loss ml/30 min

Max Temp

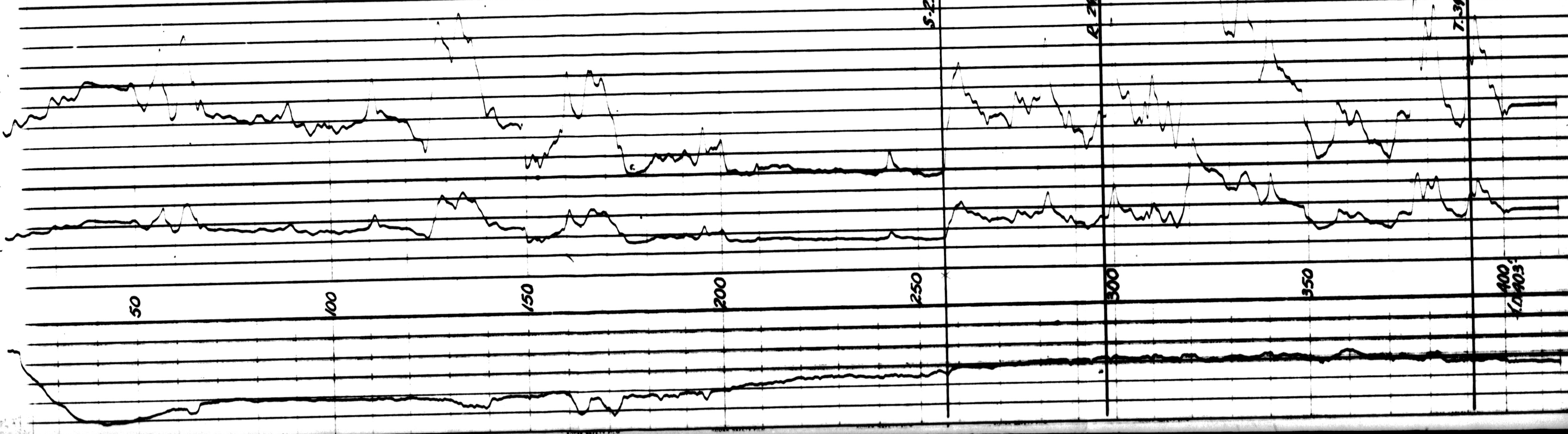
Recorded By C. Gurnea

Witnessed By H. B. Brown - Line

REMARKS OR OTHER DATA

Reverts

POTENTIAL 25 RESISTANCE 100



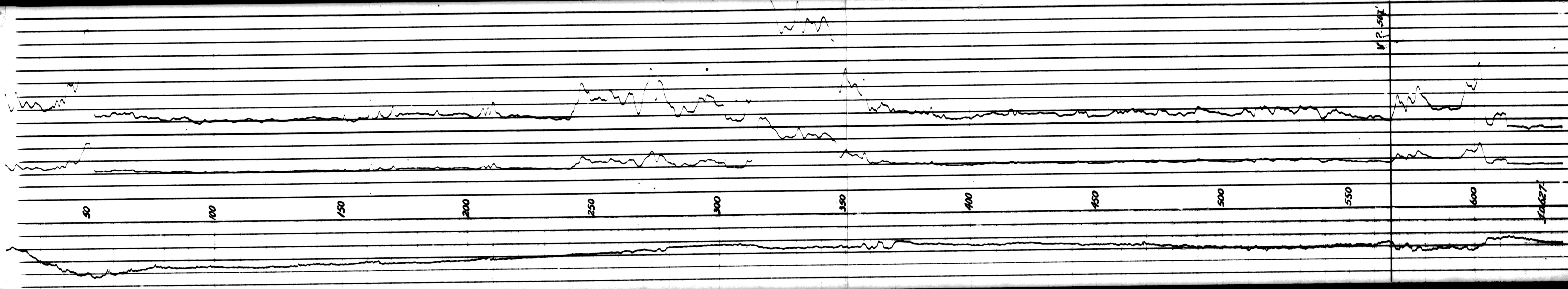
ELECTRONIC Logging Velocity Co. Ltd.

CALGARY, ALBERTA

STRUCTURE TEST HOLE SURVEY

Location	COMPANY <u>MERRILL PETROLEUMS LTD.</u>
	WELL <u>ST Hole No. 7</u> FILE
	FIELD <u>MANITOBA-LANE</u> W1110117
	PROVINCE <u>N.W.T.</u> LSD
	Sec. <u>36</u> Twp. <u>140</u> Rge. <u>2</u> W <u>6</u>
	Log Measured From <u>CARDINAL LEVEL</u> Elevation <u>508.5</u>
	Run No. <u>3</u>
	Date <u>FEB 17, 1956</u>
	Footage Logged <u>623'</u>
	Total Depth, Logged
	Total Depth, Driller
	Cog Shoe, Logged
	Cog Shoe, Driller
	Cog Size <u>4 3/4"</u>
	Bit Size
	Mud Kind <u>Natural</u>
	Treatment
	Weight
	Viscosity
	Ph.
	Resist. Ohms m2m @ °F @ °F
	Loss ml/30 min
	Max Temp
	Recorded By <u>C. Cunningham</u>
	Witnessed By <u>H. McE</u>
	REMARKS OR OTHER DATA
	<u>Deviation - 3°30' - 627'</u>
	<u>Press to log this Run No.</u>

POTENTIAL 25 300 RESISTANCE 100



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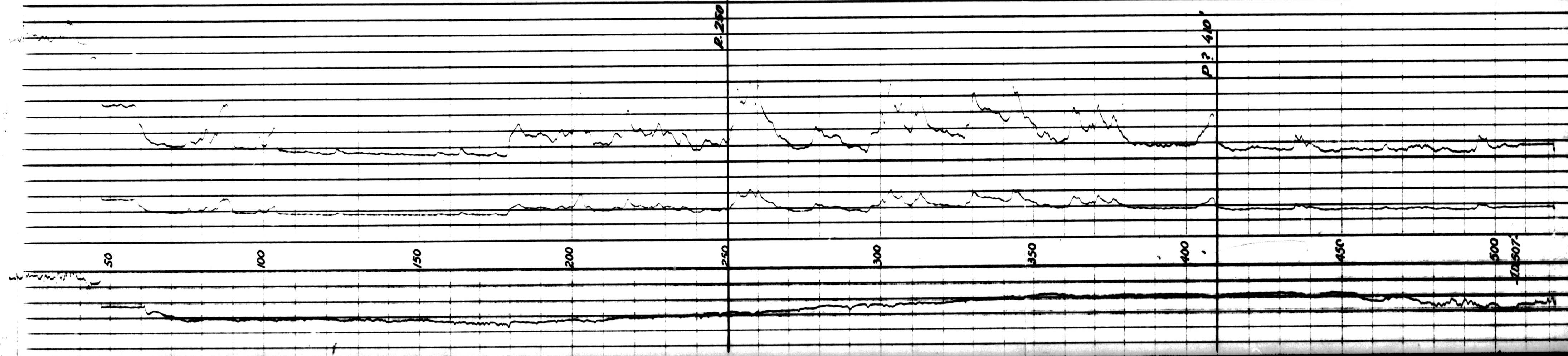
STRUCTURE TEST HOLE SURVEY

Location	COMPANY <u>MERRILL PETROLEUMS LTD.</u>
<u>9800' N.</u>	WELL <u>ST. HOLE No. 10</u> FILE
<u>36100' N.</u>	FIELD <u>KANTISA LAKE - Wildcat</u>
<u>of NE cor.</u>	PROVINCE <u>ALTA.</u> LSD
	Sec. <u>1</u> Twp. <u>140</u> Rge. <u>1</u> W <u>6</u>
Log Measured From	<u>GROUND LEVEL</u> Elevation <u>714.8</u>
Run No. <u>3</u>	
Date <u>FEB. 22, 1956.</u>	
Footage Logged	
Total Depth, Logged <u>507'</u>	
Total Depth, Driller	
Csg Shoe, Logged	
Csg Shoe, Driller	
Csg Size <u>4 3/4"</u>	
Bit Size	
Mud Kind <u>NATURAL</u>	
Treatment	
Weight	
Viscosity	
Ph.	
Resist. Ohms m2m @ <u>°F</u> @ <u>°F</u>	
Loss ml/30 min	
Max Temp	
Recorded By <u>C. GUNHOLD</u>	
Witnessed By <u>K. LYLE</u>	

REMARKS OR OTHER DATA

DEVIATION - 1° 20' - 507'

POTENTIAL 25 RESISTANCE 100



ELECTRONIC*Logging & Velocity*
Co. Ltd.
CALGARY, ALBERTA**STRUCTURE TEST HOLE SURVEY**

Location 33050°N. 16800°E. 5 1/2 B.M. to N.E. COR.	COMPANY MERRILL PETROLEUMS LIMITED WELL S.T. HOLE #7 FILE 62280 FIELD WILDCAT PROVINCE N.W.T. LSD Sec 36 Twp 140 Rge 2 W 6
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Log Measured from GROUND LEVEL Elevation 508.9'

Run No. <u>3</u>
Date <u>FEB. 17, 1956</u>
Footage Logged <u>623</u>
Total Depth Logged
Total Depth, Driller
Cup Shoe Logged
Cup Shoe, Driller
Cup Size
Bit Size <u>4 3/4"</u>

Mud Kind <u>NATURAL</u>
Treatment
Weight
Viscosity
PH

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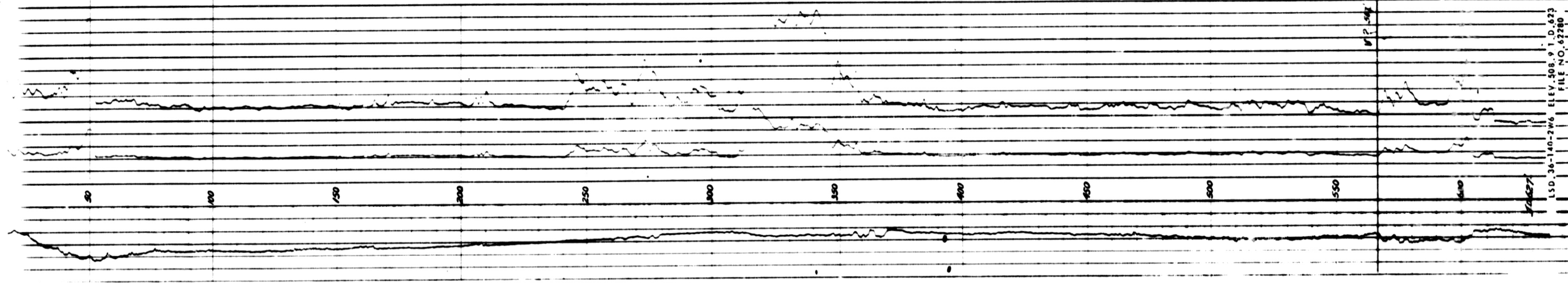
Resist. Ohms m2m
Loggal/30 min
Max Temp
Recorded By <u>C. GUNHOLD</u>
Witnessed By <u>K. LYLE</u>

REMARKS OR OTHER DATA

DEVIATION - 3°30' - 627'

REFER TO LOG NO. 6 RUN NO. 1

POTENTIAL 25 300 RESISTANCE 100



LSD 36-140-2W6 ELEV. 508.9' T.D. 623

FILE NO. 62280