

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 6/18/84  
CUSTOMER: RAYMOND OIL CO. INC.  
WELL: 1 TEST: 1  
ELEVATION (KB): 0 FORMATION:  
SECTION: 35 TOWNSHIP: 28S  
RANGE: 12W COUNTY: PRATT STATE: KANSAS  
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 4202 FT TO: 4234 FT TOTAL DEPTH: 4234 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 4197 FT SIZE: 6 3/4 IN PACKER DEPTH: 4202 FT SIZE: 6 3/4 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN  
MUD TYPE: STARCH VISCOSITY: 38  
WEIGHT: 9.3 WATER LOSS (CC): 9.6  
CHLORIDES (P.P.M.): 25000  
JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: 540 FT I.D.: 2.2 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 3642 FT I.D.: 3.2 IN  
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: 32 FT SIZE: 5 1/2 OD IN  
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN  
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 FH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW  
SLOWLY BUILDING TO FAIR.  
FINAL FLOW PERIOD FAIR BLOW  
DECREASING TO WEAK.

RECOVERED: 30 FT OF: MUD - FEW OIL SPECKS  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
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REMARKS:

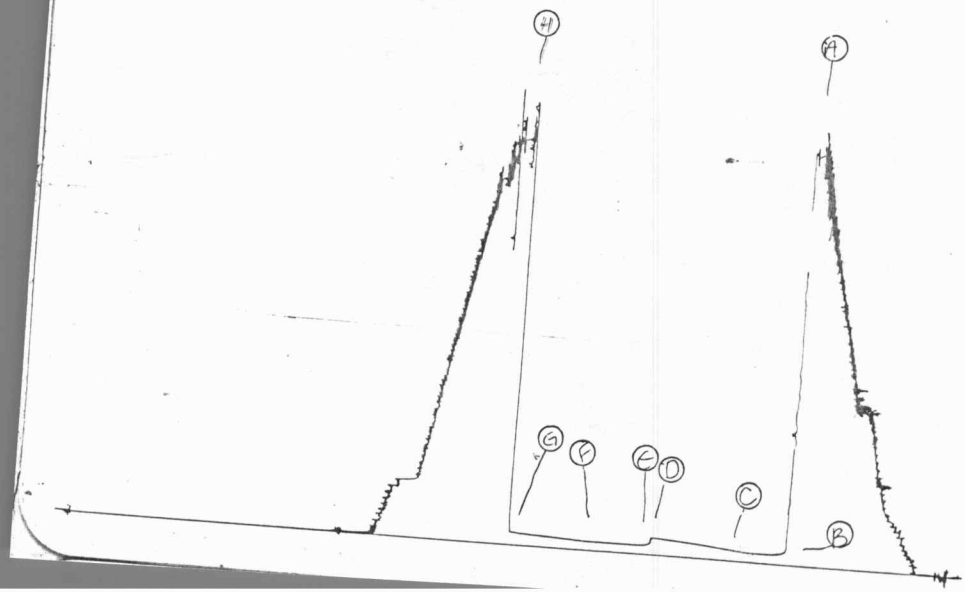
TIME SET PACKER(S): 10:00 AM TIME STARTED OFF BOTTOM: 1:25 PM  
WELL TEMPERATURE: 116 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 2121 PSI  
INITIAL FLOW PERIOD MIN: 30 (B) 48 PSI TO (C) 48 PSI  
INITIAL CLOSED IN PERIOD MIN: 69 (D) 87 PSI  
FINAL FLOW PERIOD MIN: 45 (E) 44 PSI TO (F) 44 PSI  
FINAL CLOSED IN PERIOD MIN: 60 (G) 63 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2083 PSI



15102  
DST #1

ICP# 5583

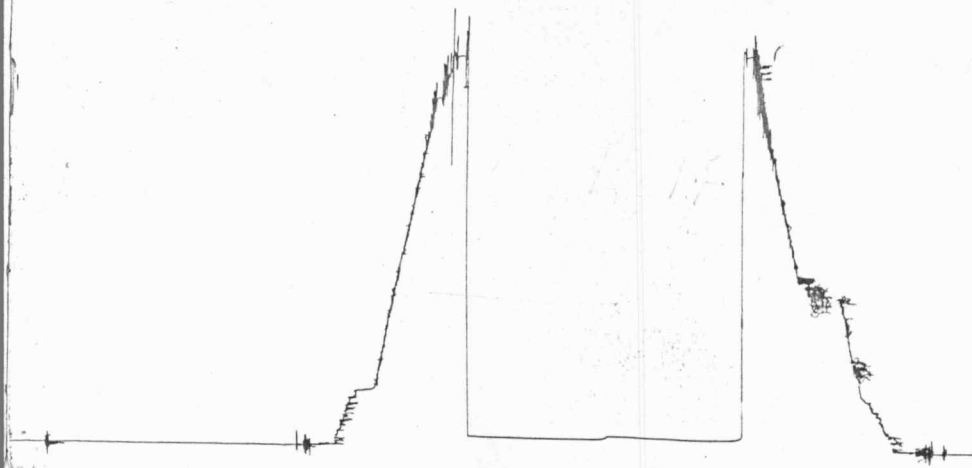
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1559  
DST #1

TK# 5583

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WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 6/19/84  
CUSTOMER: RAYMOND OIL COMPANY INC.  
WELL: 1 TEST: 2  
ELEVATION (KB): 0 FORMATION: VIOLA  
SECTION: 35 TOWNSHIP: 28S  
RANGE: 12W COUNTY: PRATT STATE: KANSAS  
GAUGE SN #13552 RANGE: 4050 CLOCK: 12

TICKET #4400  
LEASE: ROLF  
GEOLOGIST: LECKNER

INTERVAL TEST FROM: 4320 FT TO: 4440 FT TOTAL DEPTH: 4440 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 4315 FT SIZE: 6 5/8 IN Packer DEPTH: 4320 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN DRLG  
MUD TYPE: STARCH VISCOSITY: 39  
WEIGHT: 9.3 WATER LOSS (CC): 12.0  
CHLORIDES (P.P.M.): 29000

JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH: 445 FT I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 3854 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: 120 FT SIZE: 5 1/2 OD IN  
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN  
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW.  
FINAL FLOW PERIOD NO BLOW.

RECOVERED: 30 FT OF: DRILLING MUD.  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
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REMARKS: READ OUTSIDE CHART.

TIME SET PACKER(S): 9:00 PM TIME STARTED OFF BOTTOM: 11:15 PM  
WELL TEMPERATURE: 123 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 2148 PSI  
INITIAL FLOW PERIOD MIN: 30 (B) 59 PSI TO (C) 61 PSI  
INITIAL CLOSED IN PERIOD MIN: 45 (D) 1005 PSI  
FINAL FLOW PERIOD MIN: 30 (E) 71 PSI TO (F) 71 PSI  
FINAL CLOSED IN PERIOD MIN: 27 (G) 166 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2132 PSI

WESTERN TESTING CO. INC.  
PRESSURE DATA

DATE: 6/19/84  
CUSTOMER: RAYMOND OIL COMPANY INC.  
WELL: 1 TEST: 2  
ELEVATION (KB): 0 FORMATION: VIOLA  
SECTION: 35 TOWNSHIP: 28S  
RANGE: 12W COUNTY: PRATT STATE: KANSAS  
GAUGE SN #13552 RANGE: 4050 CLOCK: 12

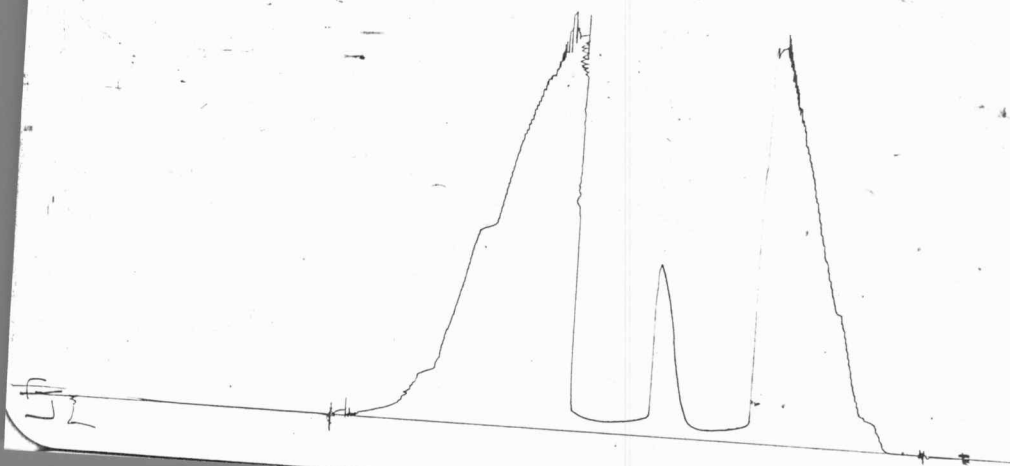
(A) INITIAL HYDROSTATIC PRESSURE: 2148 PSI  
(B) FIRST INITIAL FLOW PRESSURE: 59 PSI  
(C) FIRST FINAL FLOW PRESSURE: 61 PSI  
(D) INITIAL CLOSED-IN PRESSURE: 1005 PSI  
(E) SECOND INITIAL FLOW PRESSURE: 71 PSI  
(F) SECOND FINAL FLOW PRESSURE: 71 PSI  
(G) FINAL CLOSED-IN PRESSURE: 166 PSI  
(H) FINAL HYDROSTATIC PRESSURE: 2132 PSI  
WELL TEMPERATURE: 123 °F  
OPEN TOOL: 9:00 PM

|                             | TIME - GIVEN | TIME - ACTUAL |
|-----------------------------|--------------|---------------|
| FIRST FLOW PRESSURE:        | 30 MIN       | 30 MIN        |
| INITIAL CLOSED-IN PRESSURE: | 45 MIN       | 45 MIN        |
| SECOND FLOW PRESSURE:       | 30 MIN       | 30 MIN        |
| FINAL CLOSED-IN PRESSURE:   | 30 MIN       | 27 MIN        |

| PRESSURE BREAKDOWN |            |          |                 |          |             |          |               |          |
|--------------------|------------|----------|-----------------|----------|-------------|----------|---------------|----------|
| PT                 | FIRST FLOW |          | INITIAL SHUT-IN |          | SECOND FLOW |          | FINAL SHUT-IN |          |
|                    | MIN        | PRESSURE | MIN             | PRESSURE | MIN         | PRESSURE | MIN           | PRESSURE |
| 1                  | 0          | 59       | 0               | 61       | 0           | 71       | 0             | 71       |
| 2                  | 5          | 59       | 3               | 67       | 5           | 71       | 3             | 78       |
| 3                  | 10         | 59       | 6               | 78       | 10          | 71       | 6             | 85       |
| 4                  | 15         | 59       | 9               | 90       | 15          | 71       | 9             | 96       |
| 5                  | 20         | 60       | 12              | 107      | 20          | 71       | 12            | 105      |
| 6                  | 25         | 60       | 15              | 137      | 25          | 71       | 15            | 115      |
| 7                  | 30         | 61       | 18              | 172      | 30          | 71       | 18            | 126      |
| 8                  |            |          | 21              | 226      |             |          | 21            | 138      |
| 9                  |            |          | 24              | 315      |             |          | 24            | 150      |
| 10                 |            |          | 27              | 416      |             |          | 27            | 166      |
| 11                 |            |          | 30              | 552      |             |          |               |          |
| 12                 |            |          | 33              | 674      |             |          |               |          |
| 13                 |            |          | 36              | 788      |             |          |               |          |
| 14                 |            |          | 39              | 902      |             |          |               |          |
| 15                 |            |          | 42              | 976      |             |          |               |          |
| 16                 |            |          | 45              | 1005     |             |          |               |          |
| 17                 |            |          |                 |          |             |          |               |          |
| 18                 |            |          |                 |          |             |          |               |          |
| 19                 |            |          |                 |          |             |          |               |          |
| 20                 |            |          |                 |          |             |          |               |          |
| 21                 |            |          |                 |          |             |          |               |          |
| 22                 |            |          |                 |          |             |          |               |          |
| 23                 |            |          |                 |          |             |          |               |          |
| 24                 |            |          |                 |          |             |          |               |          |
| 25                 |            |          |                 |          |             |          |               |          |
| 26                 |            |          |                 |          |             |          |               |          |
| 27                 |            |          |                 |          |             |          |               |          |
| 28                 |            |          |                 |          |             |          |               |          |
| 29                 |            |          |                 |          |             |          |               |          |
| 30                 |            |          |                 |          |             |          |               |          |

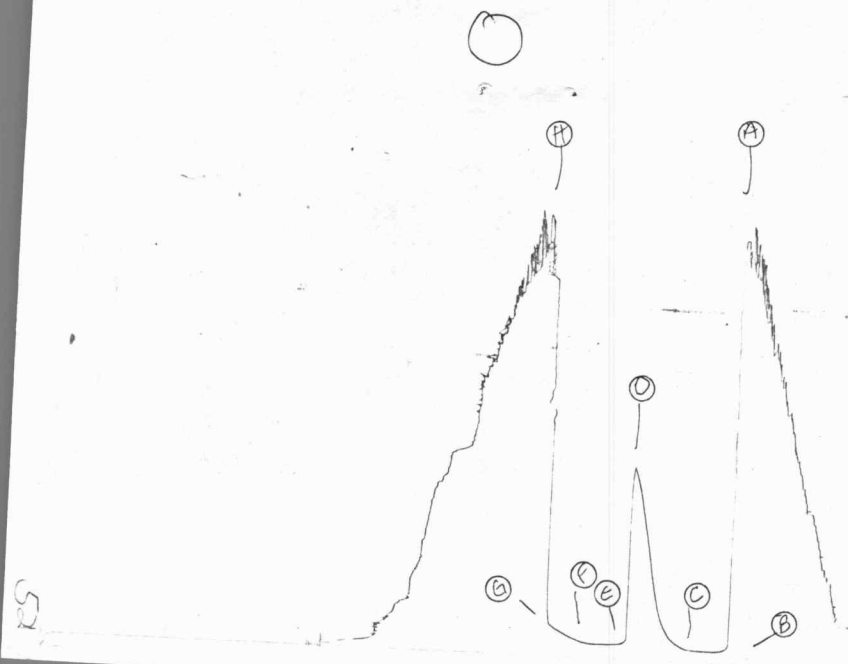
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ICE #4400





WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 6/20/84  
CUSTOMER: RAYMOND OIL COMPANY INC.  
WELL: 1 TEST: 3  
ELEVATION (KB): 0 FORMATION: SIMPSON  
SECTION: 35 TOWNSHIP: 28S  
RANGE: 12W COUNTY: PRATT STATE: KANSAS  
GAUGE SN #13552 RANGE: 4050 CLOCK: 12

TICKET #4676  
LEASE: ROLF  
GEOLOGIST: ?

INTERVAL TEST FROM: 4510 FT TO: 4528 FT TOTAL DEPTH: 4528 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 4505 FT SIZE: 6 5/8 IN Packer DEPTH: 4510 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN DRLG  
MUD TYPE: STARCH VISCOSITY: 41  
WEIGHT: 9.4 WATER LOSS (CC): 8.8  
CHLORIDES (P.P.M.): 26000

JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? YES REVERSED OUT? YES

DRILL COLLAR LENGTH: 546 FT I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 3943 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: 18 FT SIZE: 5 1/2 OD IN  
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN  
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: STRONG BLOW THROUGHOUT TEST.  
GAS TO SURFACE IN 20 MINUTES ON INITIAL FLOW.  
SEE ATTACHED SHEET FOR GAS MEASUREMENTS.

RECOVERED: 1850 FT OF: CLEAN GASSY OIL. 32 GRAVITY.  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS: READ OUTSIDE CHART.

TIME SET PACKER(S): 8:00 PM  
WELL TEMPERATURE: 124 °F  
INITIAL HYDROSTATIC PRESSURE:  
INITIAL FLOW PERIOD MIN: 25  
INITIAL CLOSED IN PERIOD MIN: 60  
FINAL FLOW PERIOD MIN: 45  
FINAL CLOSED IN PERIOD MIN: 60  
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 11:15 PM  
(A) 2246 PSI  
(B) 143 PSI TO (C) 359 PSI  
(D) 1022 PSI  
(E) 466 PSI TO (F) 621 PSI  
(G) 962 PSI  
(H) 2223 PSI



WESTERN TESTING CO., INC.  
GAS FLOW REPORT

DATE: 6/20/84  
CUSTOMER: RAYMOND OIL COMPANY INC.  
WELL: 1  
ELEVATION (KB): 0  
SECTION: 35  
RANGE: 12W  
GAUGE SN #13552

TEST: 3  
FORMATION: SIMPSON  
TOWNSHIP: 28S  
COUNTY: PRATT  
RANGE: 4050

TICKET #4676  
LEASE: ROLF  
GEOLOGIST: ?  
STATE: KANSAS  
CLOCK: 12

| TIME GAUGE<br>(MIN) | TESTER TYPE | ORIFICE<br>SIZE | PRESSURE<br>(PSI) | FLOW DESCRIPTION |
|---------------------|-------------|-----------------|-------------------|------------------|
|---------------------|-------------|-----------------|-------------------|------------------|

PRE FLOW

|    |       |     |        |            |
|----|-------|-----|--------|------------|
| 25 | MERLA | 3/4 | 1" WTR | 14200 CFPD |
| 30 |       |     | 1      | 14200      |

SECOND FLOW

|    |       |     |        |            |
|----|-------|-----|--------|------------|
| 5  | MERLA | 1/2 | 3" WTR | 10900 CFPD |
| 15 |       |     | 5      | 14100      |
| 25 |       |     | 5      | 14100      |
| 35 |       |     | 7      | 16700      |
| 45 |       |     | 7      | 16700      |

GAS BOTTLE SN #:  
DATE BOTTLE FILLED:  
DATE TO BE INVOICED:

COMPANY: RAYMOND OIL CO. INC.  
FIELD: ROLF

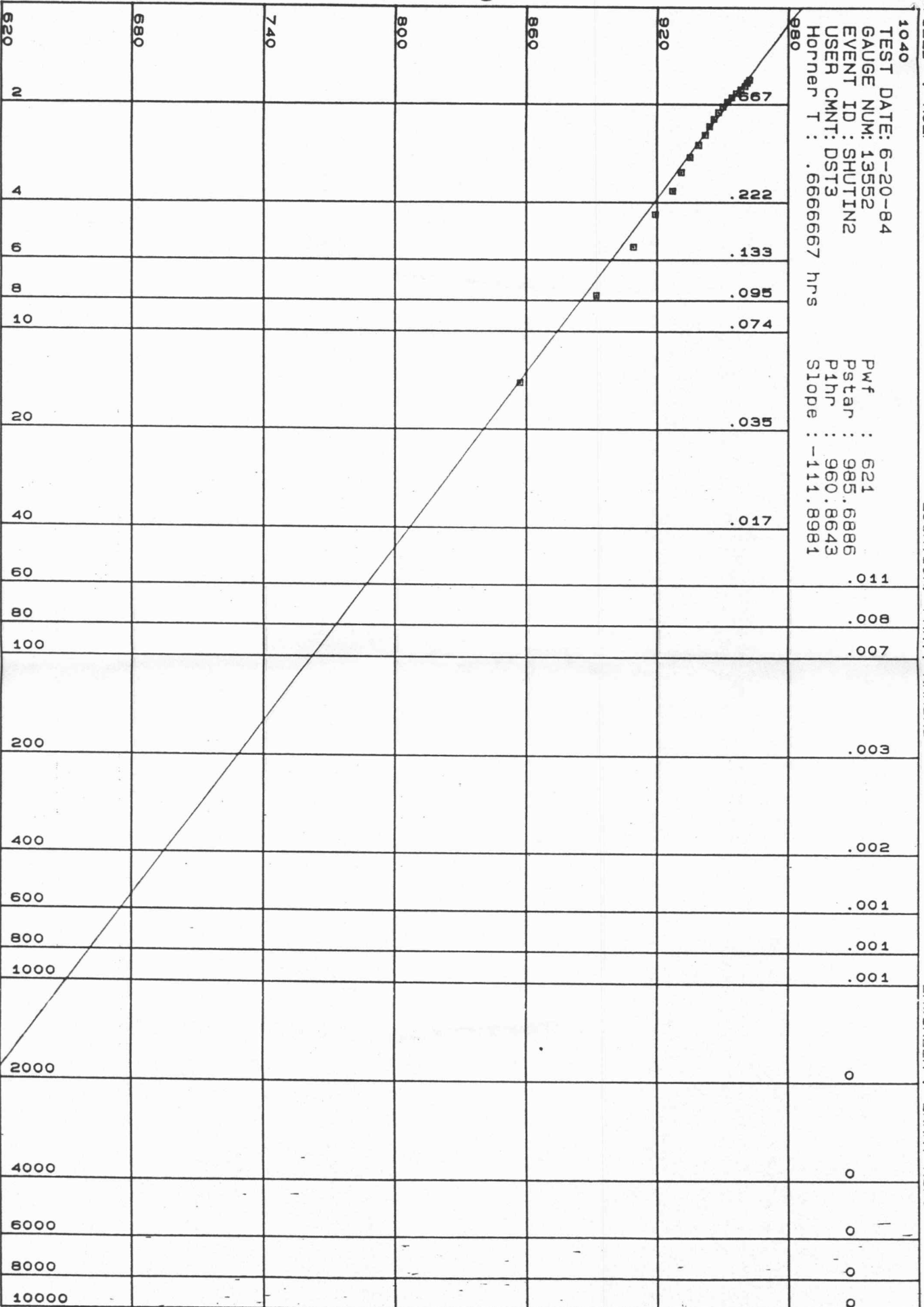
WELL: #1  
LOCATION: PRATT-KANSAS

PROCESSED: 03-16-1987  
ENGINEER: LARRY KING

TEST DATE: 6-20-84  
GAUGE NUM: 13552  
EVENT ID: SHUTIN2  
USER CMNT: DST3  
Horner T: .6666667 hrs

Pwf : 621  
Pstar : 985.6886  
P1hr : 960.8643  
Slope : -111.8981

Pressure, Psig



Job No. 4676  
WESTERN TESTING CO. INC.

Horner Ratio, (T+dt)/dt

AES-TRAN

COMPANY: RAYMOND OIL CO. INC.  
FIELD: ROLF

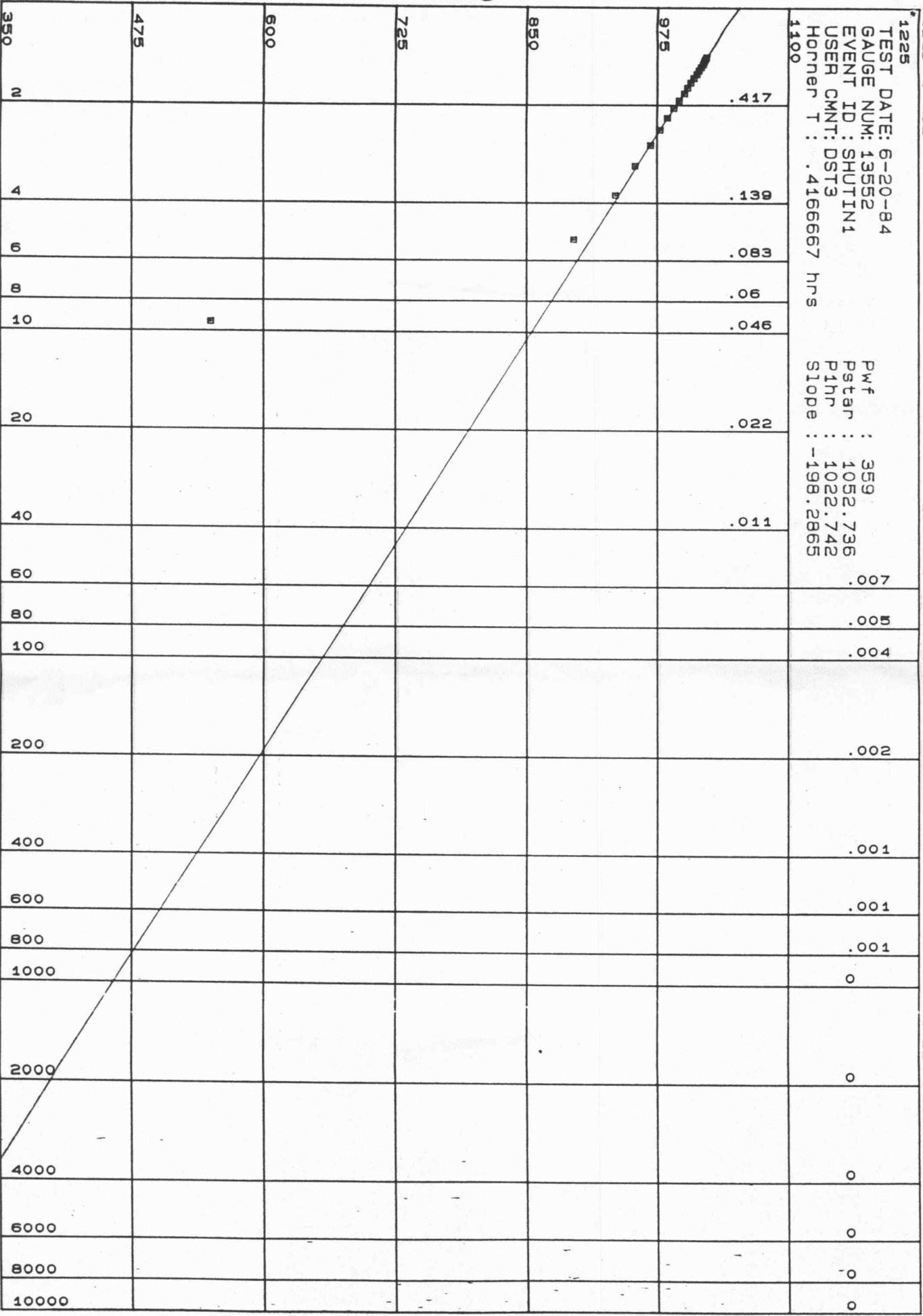
WELL LOCATION: #1 PRATT-KANSAS

PROCESSED: 03-16-1987  
ENGINEER: LARRY KING

TEST DATE: 6-20-84  
GAUGE NUM: 13552  
EVENT ID: SHUTIN1  
USER CMNT: DST3  
Horner T: .4166667 hrs

Pwf : 359  
Pstar : 1052.736  
P1hr : 1022.742  
Slope : -198.2865

Pressure . Psig

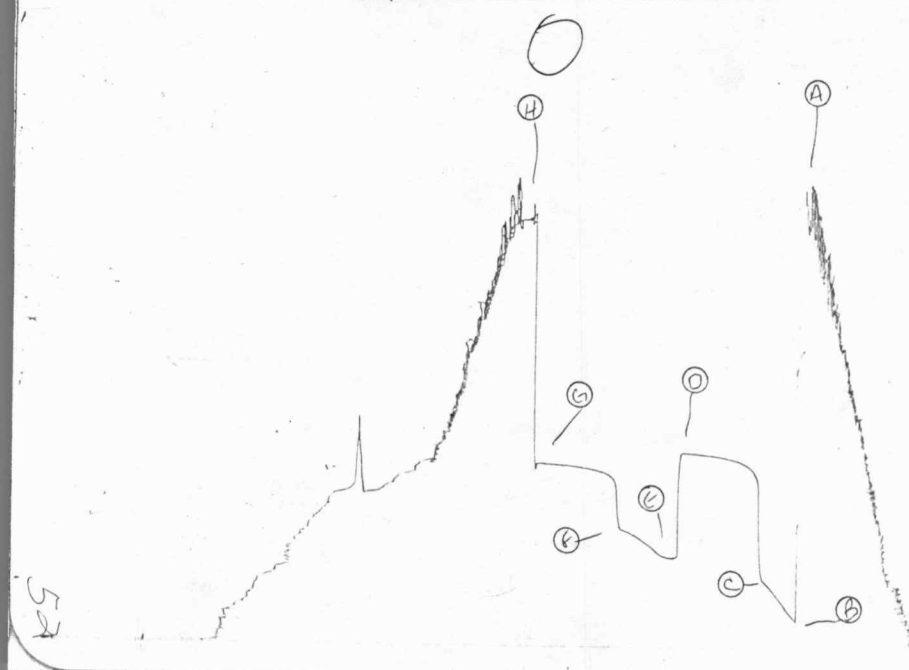


Job No. 4676  
WESTERN TESTING CO. INC.

Horner Ratio. (T+dt)/dt

RES-TRAN

ICE # 4676



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100# 4/6.76

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