

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name OBORNY #1 Test No. 1 Date 8/9/94  
Company DOWNING-NELSON OIL CO Zone \_\_\_\_\_  
Address P.O. BOX 372 HAYS KS 67601 Elevation 1995  
Co. Rep./Geo. RON NELSON Cont. EMPHASIS RIG #7 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 2 Twp. 18S Rge. 17W Co. RUSH State KS

Interval Tested 3521-3568 Drill Pipe Size 4.5 XH  
Anchor Length 47 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3516 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3521 Mud Wt. 9.2 lb/Gal.  
Total Depth 3568 Viscosity 45 Filtrate 11.2

Tool Open @ 3:30 A.M. Initial Blow LOST PACKER SEAT 1ST TIME LOST ABOUT 60' MUD-OPENED TO  
2 1/2 " BLOW DECREASING TO 3/4  
Final Blow NONE TAKEN

Recovery - Total Feet 140 Flush Tool? NO

Rec. 140 Feet of MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 104 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 1773.7 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 127.3 PSI @ (depth) 3527 w / Clock No. 25109

(C) First Final Flow Pressure 123.6 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 165.0 PSI @ (depth) 3567 w / Clock No. 23839

(E) Second Initial Flow Pressure 0.0 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

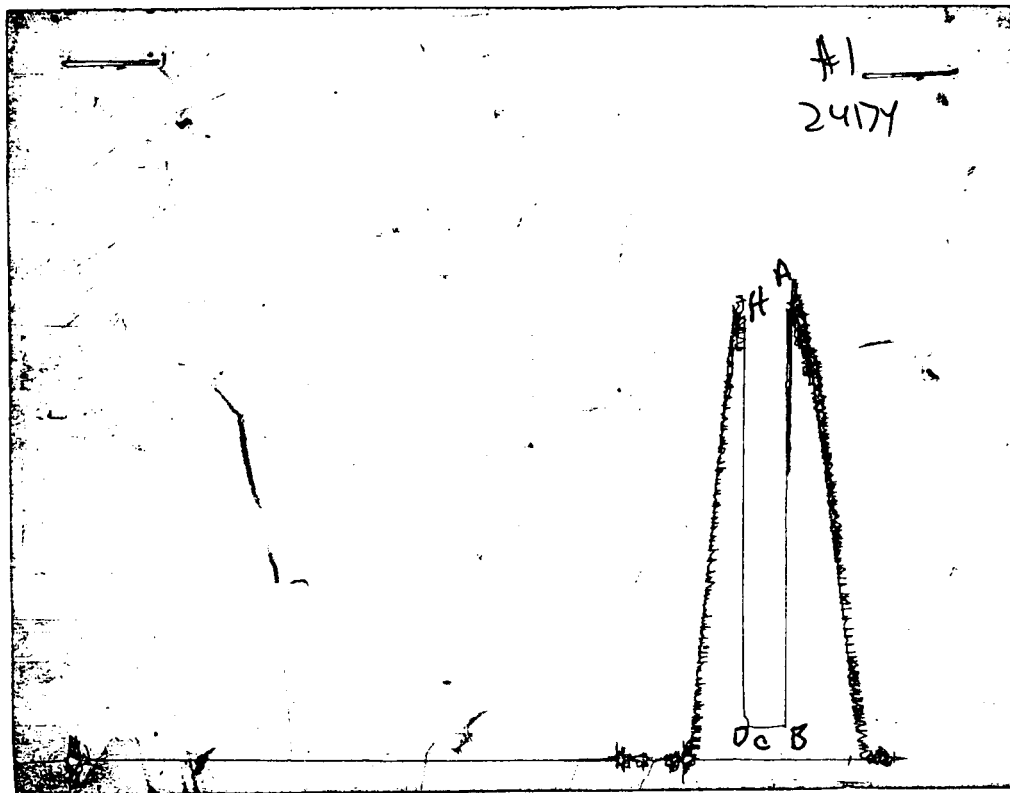
(F) Second Final Flow Pressure 0.0 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 0.0 PSI Initial Opening 15 Final Flow 0

(H) Final Hydrostatic Mud 1744.6 PSI Initial Shut-in 15 Final Shut-in 0

Our Representative PAUL SIMPSON

# CHART PAGE



|                                  | FIELD<br>READING | OFFICE<br>READING |
|----------------------------------|------------------|-------------------|
| (A) INITIAL HYDROSTATIC MUD      | 1811             | 1773.7            |
| (B) FIRST INITIAL FLOW PRESSURE  | 134              | 127.3             |
| (C) FIRST FINAL FLOW PRESSURE    | 134              | 123.6             |
| (D) INITIAL CLOSED-IN PRESSURE   | 172              | 165               |
| (E) SECOND INITIAL FLOW PRESSURE | 0                | 0                 |
| (F) SECOND FINAL FLOW PRESSURE   | 0                | 0                 |
| (G) FINAL CLOSED-IN PRESSURE     | 0                | 0                 |
| (H) FINAL HYDROSTATIC MUD        | 1803             | 1744.6            |

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## Drill-Stem Test Data

Well Name OBORNY #1 Test No. 2 Date 8/9/94  
Company DOWNING-NELSON OIL CO Zone GRANDE WASH  
Address P.O. BOX 372 HAYS KS 67601 Elevation 1995  
Co. Rep./Geo. RON NELSON Cont. EMPHASIS RIG #7 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 2 Twp. 18S Rge. 17W Co. RUSH State KS

Interval Tested 3515-3601 Drill Pipe Size 4.5 XH  
Anchor Length 86 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3510 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3515 Mud Wt. 9.5 lb/Gal.  
Total Depth 3601 Viscosity 45 Filtrate 10.8

Tool Open @ 6:39 P.M. Initial Blow VERY STRONG-BOTTOM OF BUCKET IN 30 SEC-GAS TO SURFACE  
4 MIN

Final Blow GAUGING GAS-SEE REPORT-1/2" BLOW BACK ON SHUT-IN DECREASING  
TO SURFACE

Recovery - Total Feet 110 Flush Tool? NO

Rec. 110 Feet of GASSY MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 106 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 1782.1 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 113.1 PSI @ (depth) 3585 w / Clock No. 23935

(C) First Final Flow Pressure 96.6 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 195.9 PSI @ (depth) 3596 w / Clock No. 14074

(E) Second Initial Flow Pressure 98.8 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

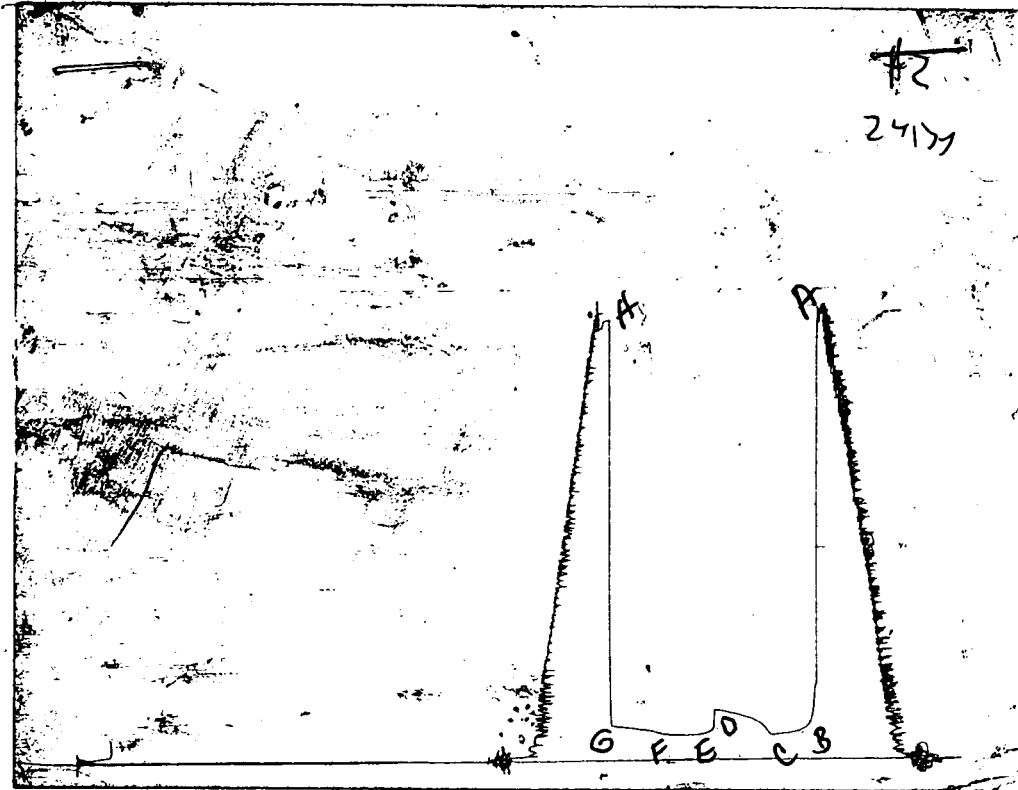
(F) Second Final Flow Pressure 98.8 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 139.4 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1733.2 PSI Initial Shut-in 45 Final Shut-in 45

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# CHART PAGE



FIELD  
READING

OFFICE  
READING

|                                  |      |        |
|----------------------------------|------|--------|
| (A) INITIAL HYDROSTATIC MUD      | 1788 | 1782.1 |
| (B) FIRST INITIAL FLOW PRESSURE  | 111  | 113.1  |
| (C) FIRST FINAL FLOW PRESSURE    | 96   | 96.6   |
| (D) INITIAL CLOSED-IN PRESSURE   | 194  | 195.9  |
| (E) SECOND INITIAL FLOW PRESSURE | 96   | 98.8   |
| (F) SECOND FINAL FLOW PRESSURE   | 96   | 98.8   |
| (G) FINAL CLOSED-IN PRESSURE     | 134  | 139.4  |
| (H) FINAL HYDROSTATIC MUD        | 1742 | 1733.2 |

# GAS VOLUME REPORT

DOWNING-NELSON OIL CO

OBORNY #1

DST # 2

| MIN | PSIG | ORIFICE | MCF/D | MIN | PSIG | ORIFICE | MCF/D |
|-----|------|---------|-------|-----|------|---------|-------|
| 5   | 12   | 1.25    | 152   | 2   | 30   | 0.5     | 34.3  |
| 10  | 10   | 1       | 81.6  | 5   | 20   | 0.5     | 28    |
| 15  | 10   | 0.75    | 44.8  | 10  | 10   | 0.25    | 5.32  |
| 20  | 20   | 0.5     | 28    | 15  | 15   | 0.25    | 6.55  |
| 25  | 18   | 0.5     | 26.6  | 20  | 14   | 0.25    | 6.33  |
| 30  |      | 0.5     | 19.9  | 25  | 10   | 0.25    | 5.32  |
|     |      |         |       | 30  | 8    | 0.25    | 4.76  |

Remarks: GAS TO SURFACE IN 4 MIN

COPY

OBORNY #1  
N/2-N/2-NW  
2-18s-17w  
Rush County, Kansas

API#15-165-21660

DST Results

#1 3521-3568  
Times- 15"-15"-0-0  
IFP: 134-134  
ISIP: 172  
FFP: None  
FSIP: None  
HP: 1811-1803  
RECOVERY: 140' mud

#2 3515-3601  
Times-30-45-30-45  
IFP:113-96  
FFP:98-98  
SIP-195-139  
HP-1782-1733  
Recovery:110' gassy mud; gas volume 5"-152,000  
10"-82,000  
15"-44,000  
20"-28,000  
25"-27,000  
30"-20,000

2nd open 2"-34,000  
5"-28,000  
15"- 6,500  
30"- 4,760

RECEIVED  
STATE CORPORATION COMMISSION

JAN 03 1995

REGISTRATION DIVISION  
RECEIVED