

DIAMOND TESTING  
P.O. Box 157  
HOISINGTON, KANSAS 67544  
(800) 542-7313

CLOCK ON: 15:34  
CLOCK OFF: 00:57 (8.6)

DRILL-STEM TEST TICKET

Company **HARTMAN OIL CO., INC.** Lease & Well No. **SCHROEDER #1-23**  
Contractor **H-2 RIG 2** Charge to **HARTMAN OIL CO., INC.**  
Elevation **1937 KB** Formation **REAGAN SAND** Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date **8-5-08** Sec. **23** Twp. **18 S** Range **16 W** County **RUSH** State **KANSAS**  
Test Approved By **WES HANSEN** Diamond Representative **ROGER D. FRIEDLY**

Formation Test No. **1** Interval Tested from **3,438** ft. to **3,522** ft. Total Depth **3,522** ft.

Packer Depth **3,433** ft. Size **6 3/4** in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Packer Depth **3,438** ft. Size **6 3/4** in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) **3,419** ft. Recorder Number **30044** Cap. **5000** P.S.I.

Bottom Recorder Depth (Outside) **3,519** ft. Recorder Number **3815** Cap. **5700** P.S.I.

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type **CHEMICAL** Viscosity **50** Drill Collar Length **123** ft. I.D. **2 1/4** in.

Weight **9.3** Water Loss **11.2** cc. Weight Pipe Length **0** ft. I.D. **2 7/8** in.

Chlorides **5,200** P.P.M. Drill Pipe Length **3,283** ft. I.D. **3 1/2** in.

Jars: Make **BOWEN** Serial Number **#3** Test Tool Length **32** ft. Tool Size **3 1/2-IF** in.

Did Well Flow? **NO** Reversed Out **NO** Anchor Length **84** ft. Size **4 1/2-FH** in.

Main Hole Size **7 7/8** Tool Joint Size **4 1/2 XH** in. Surface Choke Size **1** in. Bottom Choke Size **5/8** in.

Blow: 1st Open: **STRONG BLOW OFF BOTTOM OF BUCKET 2 1/2 MIN - GTS 25 MIN** (Nobb)

2nd Open: **STRONG BLOW OFF BOTTOM OF BUCKET IMMED.** (NObb)

Recovered **133** ft. of **DM 100% MUD WITH A FEW OIL SPECKS FLOATING ON TOP**

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

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KANSAS CORPORATION COMMISSION

NOV 20 2008

CONSERVATION DIVISION  
WICHITA, KS

Price Job

Other Charges

Insurance

Total

TOOL SAMPLE: 100% DM WITH A FEW OIL SPECKS

Time Set Packer(s) **7:20 P.M.** A.M. P.M. Time Started Off Bottom **10:35 P.M.** A.M. P.M. Maximum Temperature **120**

Initial Hydrostatic Pressure \_\_\_\_\_ (A) **1,626** P.S.I.

Initial Flow Period \_\_\_\_\_ Minutes **45** (B) **21** P.S.I. to (C) **50** P.S.I.

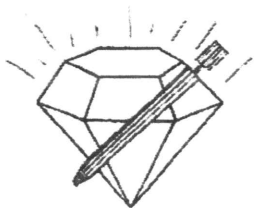
Initial Closed In Period \_\_\_\_\_ Minutes **45** (D) **113** P.S.I.

Final Flow Period \_\_\_\_\_ Minutes **45** (E) **32** P.S.I. to (F) **70** P.S.I.

Final Closed In Period \_\_\_\_\_ Minutes **60** (G) **113** P.S.I.

Final Hydrostatic Pressure \_\_\_\_\_ (H) **1,626** P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**DIAMOND TESTING**  
P. O. Box 157  
**HOISINGTON, KANSAS 67544**  
(316) 653-7550  
**GAS VOLUME REPORT**

Company HARTMAN OIL CO., INC Lease & Well No. SCHROEDER #1-23  
Date 8.5.08 Sec. 23 Twp. 18 S Rge. 16 W Location \_\_\_\_\_ County RUSH State KS  
Drilling Contractor H-2 RIG 2 Formation REAGAN SAND DST No. 1  
Remarks: GAS TO SURFACE 25 MIN.  
GAS BURNED NICELY

**INITIAL FLOW**

PSI

| Time<br>O'Clock | Orifice<br>Size | Gauge    | CF/D   |
|-----------------|-----------------|----------|--------|
| 25              | 1/4 in.         | 1.50 in. | 11,020 |
| 30              | " in.           | 2.50 in. | 14,300 |
| 35              | " in.           | 3.00 in. | 15,700 |
| 40              | " in.           | 3.50 in. | 17,100 |
| 45              | " in.           | 4.00 in. | 18,500 |
|                 | in.             | in.      |        |
|                 | in.             | in.      |        |
|                 | in.             | in.      |        |
|                 | in.             | in.      |        |
|                 | in.             | in.      |        |
|                 | in.             | in.      |        |

**FINAL FLOW**

PSI

| Time<br>O'Clock | Orifice<br>Size | Gauge     | CF/D   |
|-----------------|-----------------|-----------|--------|
| 5               | 1/8 in.         | 5.00 in.  | 6,390  |
| 10              | " in.           | 7.00 in.  | 7,700  |
| 15              | " in.           | 9.00 in.  | 8,890  |
| 20              | " in.           | 11.00 in. | 10,000 |
| 25              | " in.           | 13.00 in. | 11,000 |
| 30              | " in.           | 15.00 in. | 12,100 |
| *35             | " in.           | 17.00 in. | 13,100 |
| 40              | " in.           | 18.00 in. | 13,500 |
| 45              | " in.           | 19.00 in. | 14,000 |
|                 | in.             | in.       |        |

**\*SAMPLE TAKEN**

RECEIVED  
KANSAS CORPORATION COMMISSION

**NOV 20 2008**

CONSERVATION DIVISION  
WICHITA, KS