



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Staab Oil Company

27-13s-22w Trego, KS

1607 Hopewell Rd.
Hays, KS 67601

Frank #1

Job Ticket: 54392

DST#: 1

ATTN: Marc Downing

Test Start: 2013.08.27 @ 22:08:39

GENERAL INFORMATION:

Formation: **C&D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:06:49

Time Test Ended: 06:21:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 41

Interval: **3771.00 ft (KB) To 3818.00 ft (KB) (TVD)**

Total Depth: 3818.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2342.00 ft (KB)

2337.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6752** Inside

Press@RunDepth: 160.79 psig @ 3772.00 ft (KB)

Start Date: 2013.08.27

End Date: 2013.08.28

Capacity: 8000.00 psig

Last Calib.: 2013.08.28

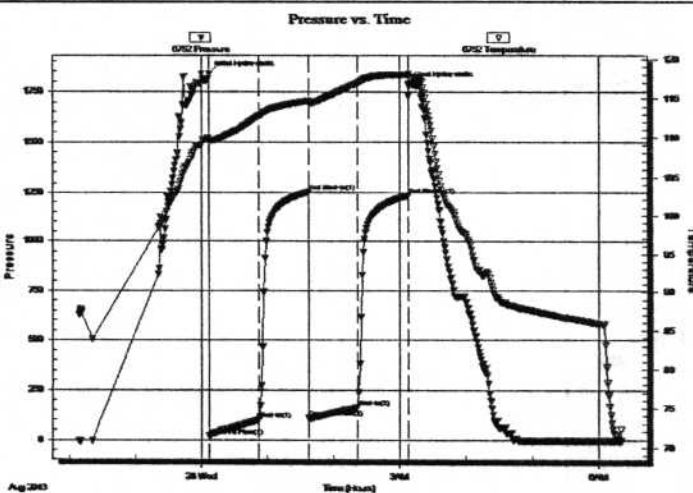
Start Time: 22:08:40

End Time: 06:21:29

Time On Btm: 2013.08.28 @ 00:06:39

Time Off Btm: 2013.08.28 @ 03:07:29

TEST COMMENT: B.O.B. In 17 mins.
Weak surface blow back built to 2 1/4 in.
B.O.B. In 18 mins.
Weak surface blow back built to 2 1/4 in.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1834.74	110.04	Initial Hydro-static
1	21.00	109.57	Open To Flow (1)
46	98.69	112.81	Shut-In(1)
91	1253.89	114.75	End Shut-In(1)
91	107.93	114.55	Open To Flow (2)
135	160.79	117.00	Shut-In(2)
181	1234.56	118.02	End Shut-In(2)
181	1781.66	118.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
404.00	10%G 90%O	2.86
62.00	5%G 80%O 15%M	0.44
0.00	310 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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Frank #1

Job Ticket: 54393

DST#: 2

ATTN: Marc Downing

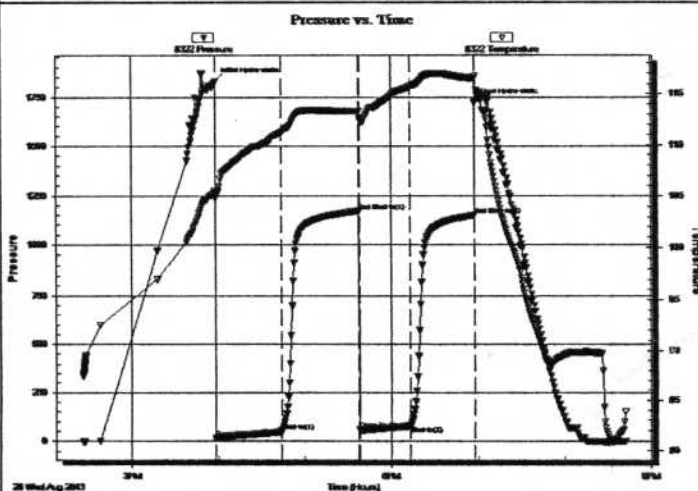
Test Start: 2013.08.28 @ 14:25:50

GENERAL INFORMATION:

Formation: **E**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:58:10
 Time Test Ended: 20:42:29
 Interval: **3814.00 ft (KB) To 3833.00 ft (KB) (TVD)**
 Total Depth: 3833.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 41
 Reference Elevations: 2342.00 ft (KB)
 2337.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: **8322** Outside
 Press@RunDepth: 78.16 psig @ 3815.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.28 End Date: 2013.08.28 Last Calib.: 2013.08.28
 Start Time: 14:25:51 End Time: 20:42:30 Time On Btm: 2013.08.28 @ 15:58:00
 Time Off Btm: 2013.08.28 @ 18:57:50

TEST COMMENT: B.O.B. in 20 mins.
 Weak surface blow back built to 1/2 in. died back to 1/4 in.
 B.O.B. in 13 mins.
 Weak surface blow back built to 1 1/2 in.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1828.41	105.59	Initial Hydro-static
1	16.74	104.86	Open To Flow (1)
46	48.19	111.21	Shut-In(1)
100	1172.33	113.32	End Shut-In(1)
101	59.51	112.58	Open To Flow (2)
136	78.16	115.74	Shut-In(2)
180	1150.66	116.55	End Shut-In(2)
180	1723.64	116.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	30%G 40%O 30%M	0.42
60.00	5%G 45%O 40%M	0.42
60.00	2%G 98%O	0.42
0.00	620 GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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Frank #1

Job Ticket: 54394

DST#: 3

ATTN: Marc Downing

Test Start: 2013.08.30 @ 08:08:02

GENERAL INFORMATION:

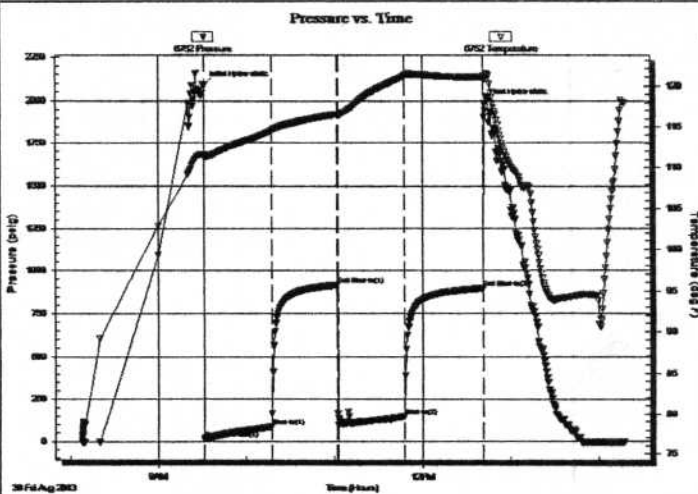
Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 09:31:22
 Tester: Tate Lang
 Time Test Ended: 14:17:11
 Unit No: 41
 Interval: 4142.00 ft (KB) To 4208.00 ft (KB) (TVD)
 Reference Elevations: 2342.00 ft (KB)
 Total Depth: 4208.00 ft (KB) (TVD)
 2337.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 151.25 psig @ 4143.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.30 End Date: 2013.08.30 Last Calib.: 2013.08.30
 Start Time: 08:08:03 End Time: 14:17:12 Time On Btm: 2013.08.30 @ 09:31:12
 Time Off Btm: 2013.08.30 @ 12:41:32

TEST COMMENT: Good surface blow built to 8 1/2 in.
 Dead no blow back
 Fair surface blow built to 5 in.
 Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2086.29	111.71	Initial Hydro-static
1	17.30	111.26	Open To Flow (1)
47	88.94	114.59	Shut-In(1)
91	918.66	116.60	End Shut-In(1)
92	98.34	116.45	Open To Flow (2)
137	151.25	121.19	Shut-In(2)
190	901.67	121.04	End Shut-In(2)
191	1984.88	121.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	2%O 40%W 58%M	0.85
120.00	3%O 10%W 87%M	0.85
30.00	5%O 95%M	0.21
0.00	90 GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)