



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Staab Oil Co
1607 Hopwell Rd
Hays KS 67601 + 9443

ATTN: Randy Kilian

28-12s-17w Ellis,,KS

Lawrence #1

Job Ticket: 52543

Test Start: 2013.10.23 @ 23:40:24

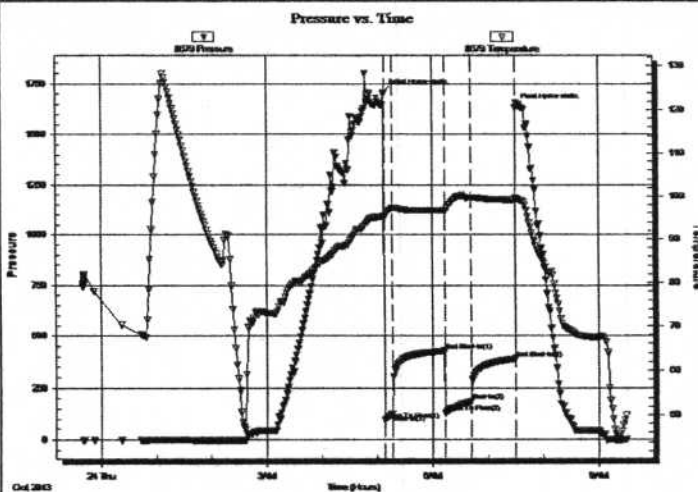
DST#: 1

GENERAL INFORMATION:

Formation: **LKC-C-F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 05:07:54 Tester: Jeff Brown
 Time Test Ended: 09:36:24 Unit No: 67
 Interval: **3387.00 ft (KB) To 3491.00 ft (KB) (TVD)** Reference Elevations: 2133.00 ft (KB)
 Total Depth: 3491.00 ft (KB) (TVD) 2128.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8679 Inside
 Press@RunDepth: 186.85 psig @ 3456.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.23 End Date: 2013.10.24 Last Calib.: 2013.10.24
 Start Time: 23:40:25 End Time: 09:30:24 Time On Btm: 2013.10.24 @ 05:07:24
 Time Off Btm: 2013.10.24 @ 07:29:54

TEST COMMENT: IFP=Weak blow built to 1"
 ISI=Dead no blow back
 FFP=Weak blow built to 1/4" died out in 12 min. Flushed tool weak surface blow then died out
 FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.48	95.42	Initial Hydro-static
1	93.17	95.03	Open To Flow (1)
9	123.86	97.29	Shut-In(1)
66	428.03	96.79	End Shut-In(1)
67	129.59	96.69	Open To Flow (2)
94	186.85	99.80	Shut-In(2)
142	390.74	99.24	End Shut-In(2)
143	1636.55	99.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	WM With a scum of oil 20%W 80%M	0.44
217.00	VSOCM 2%O 98%M	1.54

Gas Rates

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



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Lawrence #1
Job Ticket: 52544

DST#: 2

Test Start: 2013.10.25 @ 14:09:46

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:07:46
Time Test Ended: 22:05:16

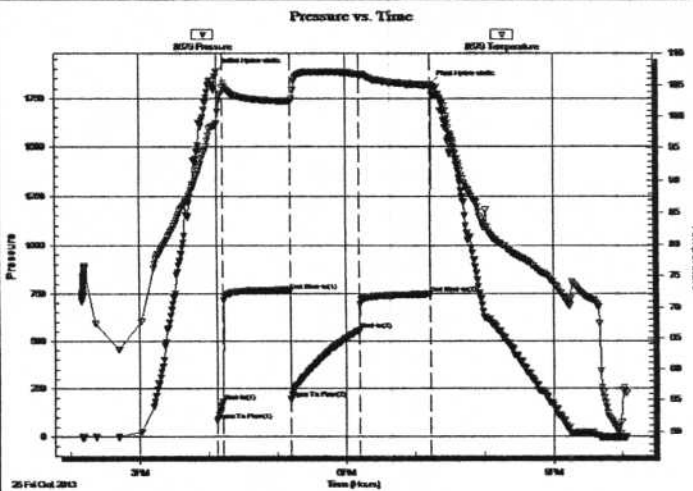
Interval: **3625.00 ft (KB) To 3685.00 ft (KB) (TVD)**
Total Depth: 3750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Straddle (Reset)
Tester: Jeff Brown
Unit No: 67

Reference Elevations: 2133.00 ft (KB)
2128.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: **8679** Outside
Press@RunDepth: 560.36 psig @ 3663.00 ft (KB)
Start Date: 2013.10.25 End Date: 2013.10.25
Start Time: 14:09:47 End Time: 22:03:16
Capacity: 8000.00 psig
Last Calib.: 2013.10.25
Time On Btm: 2013.10.25 @ 16:07:16
Time Off Btm: 2013.10.25 @ 19:14:16

TEST COMMENT: IFF=Strong blow BOB in 2-3/4 min
IS=Dead no blow back
FFP=Fair blow built to 4-3/4 min Dead back to 1/4 in
FS=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.86	98.93	Initial Hydro-static
1	82.62	99.02	Open To Flow (1)
5	181.06	104.70	Shut-In(1)
65	765.74	102.48	End Shut-In(1)
65	197.73	102.43	Open To Flow (2)
125	560.36	106.68	Shut-In(2)
186	748.42	105.00	End Shut-In(2)
187	1821.95	104.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	VSOCMW 2%O 10%M 88%W	1.34
441.00	OCMW 10%O 20%M 70%W	4.26
536.00	GWOCM 10%G 5%W 15%O 70%M	7.52
31.00	HOCM 40%O 60%M	0.43

* Recovery from multiple tests

Gas Rates

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



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28-12s-17w Ellis,,KS

Lawrence #1

Job Ticket: 52545

Test Start: 2013.10.25 @ 23:20:50

DST#: 3

GENERAL INFORMATION:

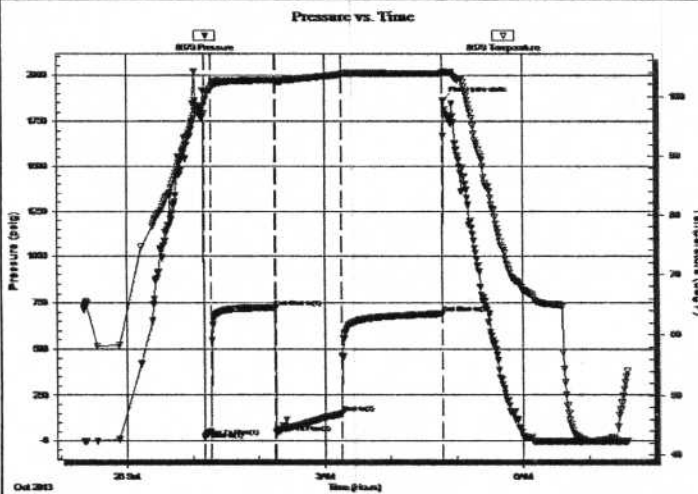
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:10:20
 Time Test Ended: 07:36:20
 Interval: **3624.00 ft (KB) To 3666.00 ft (KB) (TVD)**
 Total Depth: 3750.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Jeff Brown
 Unit No: 67
 Reference Elevations: 2133.00 ft (KB)
 2128.00 ft (CF)
 KB to GRVCF: 5.00 ft

Serial #: 8679

Outside

Press@RunDepth: 150.98 psig @ 3659.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.25 End Date: 2013.10.26 Last Calib.: 2013.10.26
 Start Time: 23:20:51 End Time: 07:34:20 Time On Btm: 2013.10.26 @ 01:09:50
 Time Off Btm: 2013.10.26 @ 04:47:50

TEST COMMENT: IFP=Fair blow built to 4 in
 ISI=Weak surface blow back Died out in 12 min
 FFP=Good blow BOB in 36 min
 FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.42	98.32	Initial Hydro-static
1	23.15	97.27	Open To Flow (1)
7	54.76	101.26	Shut-In(1)
66	723.82	102.72	End Shut-In(1)
66	45.19	102.46	Open To Flow (2)
126	150.98	103.66	Shut-In(2)
217	692.18	103.83	End Shut-In(2)
218	1860.46	104.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GWHOCM 10%G 10%W 35%O 45%M	0.88
188.00	GHOcm 5%G 35%O 60%M	1.33
0.00	441=GIP	0.00

* Recovery from multiple tests

Gas Rates

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