DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Staab Oil Co

1607 Hopewell Rd
Hays KS 67601

ATTN: Randy Killian

15-8s-18w Rooks,KS

Gisela Eckart #1

Job Ticket: 59391 **DST#: 1**

Test Start: 2014.07.13 @ 20:40:00

GENERAL INFORMATION:

Formation: **Toronto - KC"C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:42:15
Time Test Ended: 05:28:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Brett Dickinson
Unit No: 59

Interval: 3045.00 ft (KB) To 3140.00 ft (KB) (TVD)
Total Depth: 3140.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

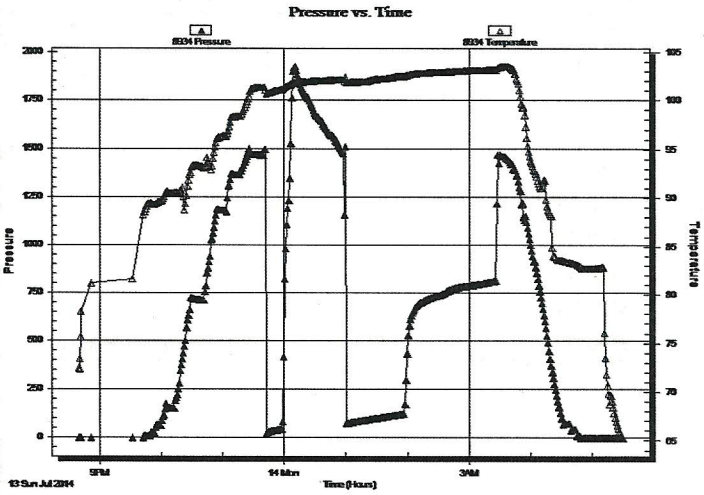
Reference Elevations: 1917.00 ft (KB)
1912.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8934 **Inside**

Press@RunDepth: psig @ 3050.00 ft (KB)
Start Date: 2014.07.13 End Date: 2014.07.14
Start Time: 20:40:05 End Time: 05:28:45

Capacity: 8000.00 psig
Last Calib.: 2014.07.14
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-3 1/2" blow
ISI-No blow
FF-2" blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCM 20%O 80%M	1.27
30.00	OCM 25%O 75%M	0.21

Gas Rates

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

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15-8s-18w Rooks,KS

Gisela Eckart #1

Job Ticket: 59392 **DST#: 2**

Test Start: 2014.07.15 @ 02:20:00

GENERAL INFORMATION:

Formation: **LKC "H-L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:40:00
Time Test Ended: 09:44:00

Interval: 3200.00 ft (KB) To 3315.00 ft (KB) (TVD)
Total Depth: 3315.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

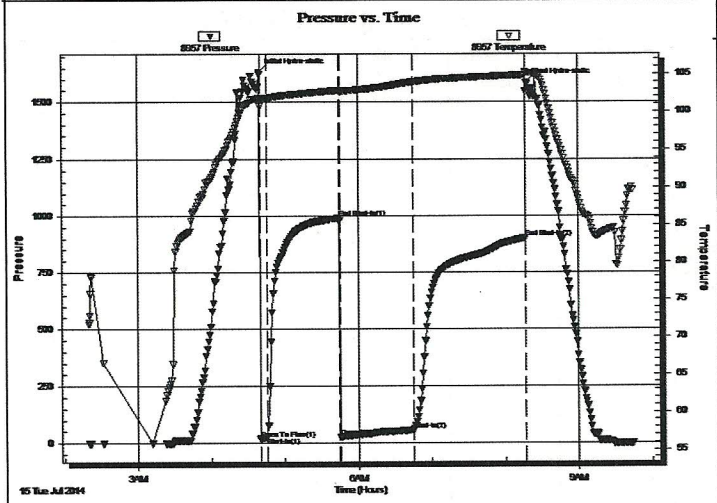
Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson
Unit No: 59

Reference Elevations: 1917.00 ft (KB)
1912.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8957 **Outside**

Press@RunDepth:	57.52 psig @	3205.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2014.07.15	End Date:	2014.07.15	Last Calib.:	2014.07.15
Start Time:	02:20:05	End Time:	09:43:59	Time On Btm:	2014.07.15 @ 04:39:15
				Time Off Btm:	2014.07.15 @ 08:17:30

TEST COMMENT: IF-1" blow
ISI-No blow
FF-5 1/2" blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.58	101.77	Initial Hydro-static
1	18.85	100.70	Open To Flow (1)
7	25.64	101.73	Shut-In(1)
66	990.36	102.80	End Shut-In(1)
66	24.99	102.58	Open To Flow (2)
126	57.52	103.93	Shut-In(2)
217	902.03	104.84	End Shut-In(2)
219	1586.16	105.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM 10%O 90%	0.42
15.00	OCM 40%O 60%M	0.11
5.00	Free Oil	0.04

* Recovery from multiple tests

Gas Rates

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

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ATTN: Randy Killian

15-8s-18w Rooks,KS

Gisela Eckart #1

Job Ticket: 59393 **DST#: 3**

Test Start: 2014.07.15 @ 23:59:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:35:00
Time Test Ended: 08:24:45

Test Type: Conventional Straddle (Reset)
Tester: Brett Dickinson
Unit No: 59

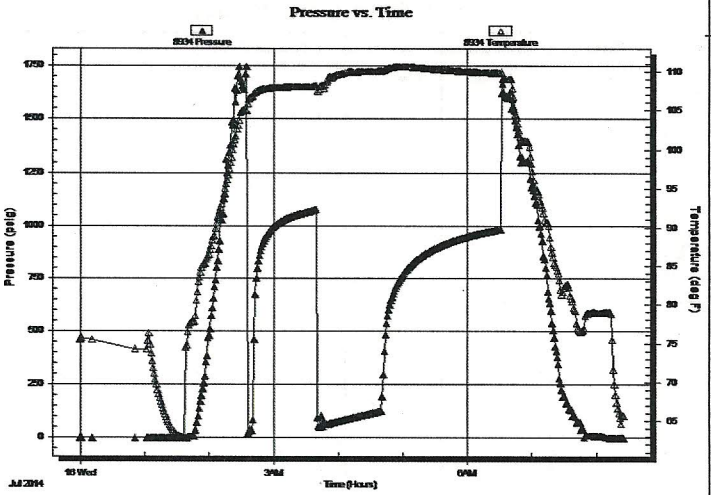
Interval: 3374.00 ft (KB) To 3384.00 ft (KB) (TVD)
Total Depth: 3425.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1917.00 ft (KB)
1912.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8934 **Outside**

Press@RunDepth:	psig @	3375.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2014.07.15	End Date:	2014.07.16	Last Calib.:	2014.07.16
Start Time:	23:59:05	End Time:	08:24:44	Time On Btm:	
				Time Off Btm:	

TEST COMMENT:
IF-6" blow
ISI-1/8" blow
FF-BOB in 16 min
FSI-Weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GSMCO 10%G 70%O 20%M	0.42
310.00	GO 20%G 80%O	2.20

* Recovery from multiple tests

Gas Rates

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