



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Staab Oil Company
1607 Hopewell Rd
Hays, KS 67601

ATTN: Janel Staab

8-8s-18w Rooks,KS

Haines #1
Job Ticket: 65542 **DST#: 1**
Test Start: 2016.08.13 @ 07:31:00

GENERAL INFORMATION:

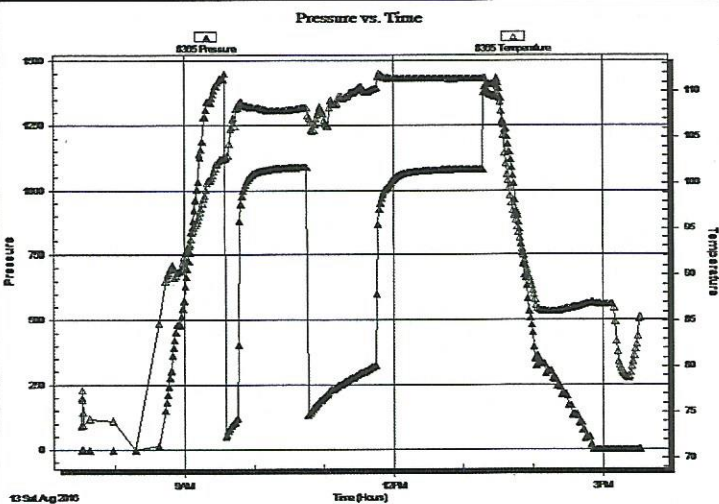
Formation:	Oread - Toronto	Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock:	Tester:	Bradley Walter
	ft (KB)	Unit No:	78
Time Tool Opened:	09:35:45	Reference Elevations:	1942.00 ft (KB)
Time Test Ended:	15:32:15		1937.00 ft (CF)
Interval:	3018.00 ft (KB) To 3110.00 ft (KB) (TVD)	KB to GR/CF:	5.00 ft
Total Depth:	3110.00 ft (KB) (TVD)		
Hole Diameter:	7.88 inches	Hole Condition:	Good

Serial #: 8365

Inside

Press@RunDepth:	psig @ 3019.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2016.08.13	End Date:	2016.08.13
Start Time:	07:31:05	End Time:	15:32:14
		Last Calib.:	1899.12.30
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: BOB @ 8 minutes (10' slide)
IS: Surface return, died @ 25 minutes.
FF: BOB @ 8 minutes.
FS: 4" return @ 45 min. receded to 1"



PRESSURE SUMMARY

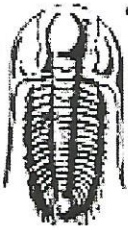
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
300.00	omcw 1o 9m 90w	2.20
170.00	gow cm 10g 10o 30w 50m	1.27
120.00	gw ocm 10g 20w 20o 50m	1.68
120.00	go 30g 70o	1.68
0.00	300' GIP	0.00

Gas Rates

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



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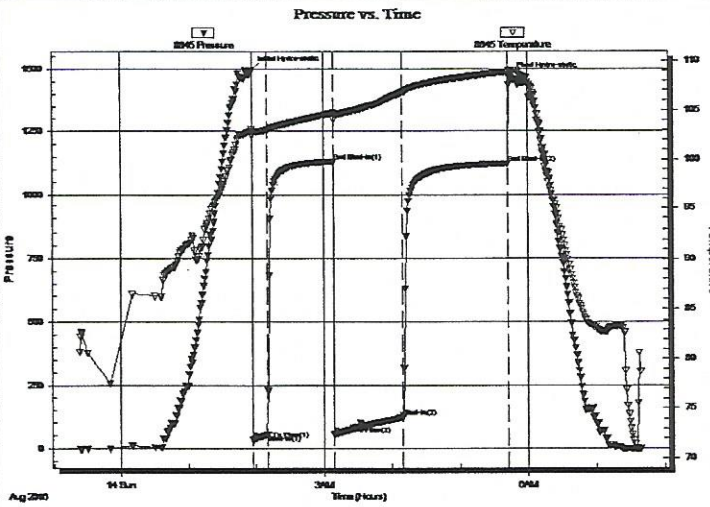
8-8s-18w Rooks, KS
Haines #1
 Job Ticket: 65543 **DST#: 2**
 Test Start: 2016.08.13 @ 23:23:00

GENERAL INFORMATION:

Formation: **LKC A - D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:57:15
 Time Test Ended: 07:39:15
 Interval: **3108.00 ft (KB) To 3184.00 ft (KB) (TVD)**
 Total Depth: 3184.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 1942.00 ft (KB)
 1937.00 ft (CF)
 KB to GRVCF: 5.00 ft

Serial #: 8845 Outside
 Press@RunDepth: 122.97 psig @ 3109.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.08.13 End Date: 2016.08.14 Last Calib.: 2016.08.14
 Start Time: 23:23:05 End Time: 07:39:14 Time On Btm: 2016.08.14 @ 01:57:00
 Time Off Btm: 2016.08.14 @ 05:45:00

TEST COMMENT: IF: 5" blow . slid 4"
 IS: No return.
 FF: 3" blow .
 FS: No return.

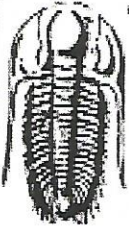


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1496.46	103.11	Initial Hydro-static
1	34.15	102.36	Open To Flow (1)
13	52.53	102.98	Shut-In(1)
72	1131.11	104.71	End Shut-In(1)
73	53.68	104.06	Open To Flow (2)
133	122.97	106.82	Shut-In(2)
226	1124.03	108.91	End Shut-In(2)
228	1470.43	109.10	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
230.00	socm 2o 98m	1.69

* Recovery from multiple tests

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



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8-8s-18w Rooks, KS

1607 Hopewell Rd
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Haines #1

ATTN: Janel Staab

Job Ticket: 65544

DST#: 3

Test Start: 2016.08.15 @ 10:00:00

GENERAL INFORMATION:

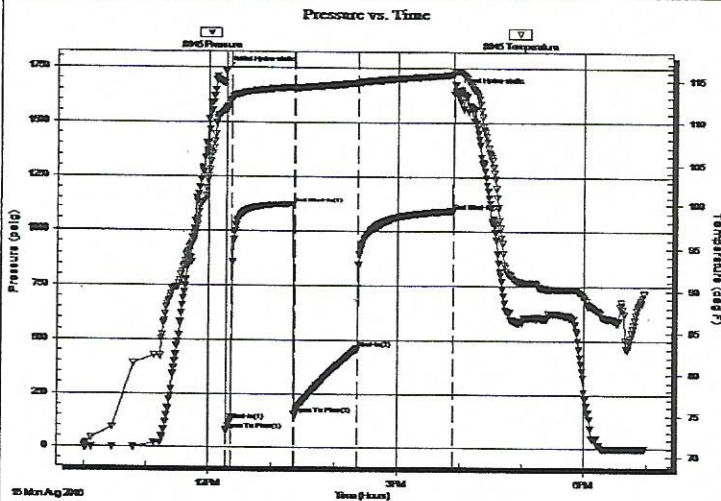
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:17:00
 Time Test Ended: 18:58:00
 Interval: **3367.00 ft (KB) To 3409.00 ft (KB) (TVD)**
 Total Depth: 3444.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 1942.00 ft (KB)
 1937.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8845

Inside

Press@RunDepth: 462.40 psig @ 3368.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.08.15 End Date: 2016.08.15 Last Calib.: 2016.08.15
 Start Time: 10:00:05 End Time: 18:58:00 Time On Btm: 2016.08.15 @ 12:16:30
 Time Off Btm: 2016.08.15 @ 15:55:30

TEST COMMENT: IF: BOB @ 2 minutes.
 IS: 4" return, receded to 1".
 FF: BOB @ 2 min.
 FSI: BOB @ 20 min, Receded to 7".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1737.53	111.80	Initial Hydro-static
1	75.71	111.55	Open To Flow (1)
5	123.46	112.70	Shut-In(1)
65	1117.60	114.25	End Shut-In(1)
66	153.60	114.05	Open To Flow (2)
126	462.40	114.70	Shut-In(2)
217	1084.96	115.70	End Shut-In(2)
219	1643.73	116.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gmco 30g 30m 40o	0.88
1140.00	go 30g 70o	13.67
0.00	880' GIP	0.00

* Recovery from multiple tests

Gas Rates

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