



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Oil Co.
1607 Hopewell Rd.
Hays, KS 67601
ATTN: Janel Staab

10-8S-18W Rooks,KS
Maddy Echart #1
Job Ticket: 55398 DST#: 1
Test Start: 2017.10.18 @ 21:45:26

Tool Information

Drill Pipe:	Length: 2608.00 ft	Diameter: 3.82 inches	Volume: 36.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 466.00 ft	Diameter: 2.75 inches	Volume: 3.42 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 40.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3091.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3072.00	
Shut In Tool	5.00			3077.00	
Hydraulic tool	5.00			3082.00	
Packer	5.00			3087.00	20.00 Bottom Of Top Packer
Packer	4.00			3091.00	
Stubb	1.00			3092.00	
Recorder	0.00	6771	Inside	3092.00	
Recorder	0.00	8524	Outside	3092.00	
Perforations	16.00			3108.00	
Change Over Sub	1.00			3109.00	
Drill Pipe	32.00			3141.00	
Change Over Sub	1.00			3142.00	
Bullnose	3.00			3145.00	54.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



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DRILL STEM TEST REPORT

Staab Oil Co.

10-8S-18W Rooks, KS

1607 Hopewell Rd.
Hays, KS 67601

Maddy Echart #1

Job Ticket: 55399

DST#: 2

ATTN: Janel Staab

Test Start: 2017.10.19 @ 21:40:56

GENERAL INFORMATION:

Formation: **LKC "H-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:45:17

Time Test Ended: 05:37:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: **3182.00 ft (KB) To 3268.00 ft (KB) (TVD)**

Total Depth: 3268.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1877.00 ft (KB)

1872.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8524

Outside

Press@RunDepth: 86.42 psig @ 3183.00 ft (KB)

Start Date: 2017.10.19

End Date: 2017.10.20

Start Time: 21:40:57

End Time: 05:37:17

Capacity: 8000.00 psig

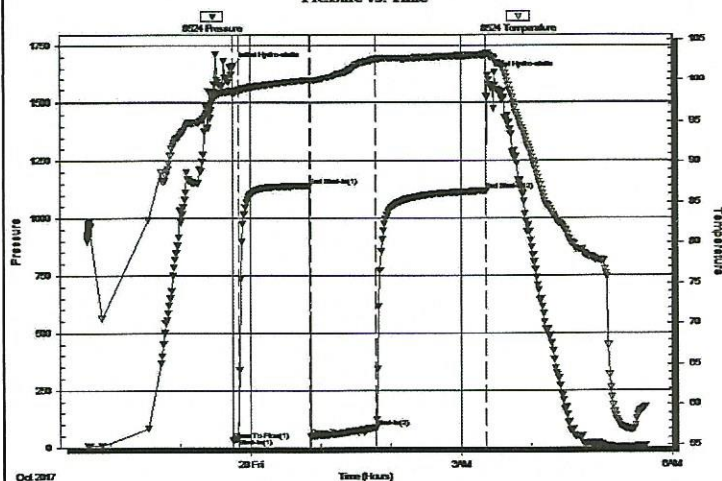
Last Calib.: 2017.10.20

Time On Btm: 2017.10.19 @ 23:45:02

Time Off Btm: 2017.10.20 @ 03:22:47

TEST COMMENT: 05- IF- Built to 1 1/2"
60- IS- No blow
60- FF- Slowly built to 3 1/2"
90- FS- No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1661.81	98.52	Initial Hydro-static
1	31.94	98.18	Open To Flow (1)
5	42.27	98.57	Shut-In(1)
66	1140.27	99.90	End Shut-In(1)
67	48.48	99.73	Open To Flow (2)
123	86.42	102.63	Shut-In(2)
217	1118.85	103.19	End Shut-In(2)
218	1618.72	103.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	WMw / few oil spots, 20%W 80%M	0.68

* Recovery from multiple tests

Gas Rates

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

