

**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Staab Oil Co  
1607 Hopewell Rd  
Hays KS 67601-9443

**6-8s-18w Rooks,KS**

**Hayes #1**

Job Ticket: 60878

**DST#: 1**

ATTN: Frank Staab, Janel

Test Start: 2014.09.13 @ 15:50:52

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.36 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	280'GIP	0.000
20.00	O&GCM 20%G20%O60%M	0.142
62.00	HO&GCM 20%G30%O50%M	0.439
62.00	HO&GCM 20%G40%O40%M	0.439

Total Length: 144.00 ft      Total Volume: 1.020 bbl

Num Fluid Samples: 0

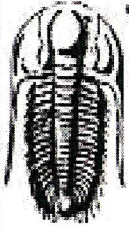
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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**Hayes #1**

Job Ticket: 60879

**DST#: 2**

ATTN: Frank Staab, Janel

Test Start: 2014.09.14 @ 10:35:46

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	50000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

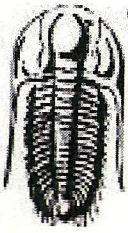
Length ft	Description	Volume bbl
90.00	MW 20%M80%W w/show of oil	0.637
180.00	MW 10%M90%W	1.275

Total Length: 270.00 ft      Total Volume: 1.912 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: slid tool 5' to bottom  
RW .14@75F



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# DRILL STEM TEST REPORT

Staab Oil Co  
 1607 Hopewell Rd  
 Hays KS 67601-9443  
 ATTN: Frank Staab , Janel

6-8s-18w Rooks,KS

Hayes #1

Job Ticket: 60880

DST#: 3

Test Start: 2014.09.15 @ 09:46:01

## GENERAL INFORMATION:

Formation: LKC K-L  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:02:56  
 Time Test Ended: 14:11:25  
 Interval: 3328.00 ft (KB) To 3370.00 ft (KB) (TVD)  
 Total Depth: 3370.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 1965.00 ft (KB)  
 1960.00 ft (CF)  
 KB to GR/CF: 5.00 ft

Serial #: 8700

Outside

Press@RunDepth: psig @ 3334.00 ft (KB)

Start Date: 2014.09.15 End Date: 2014.09.15

Start Time: 09:45:40 End Time: 14:11:04

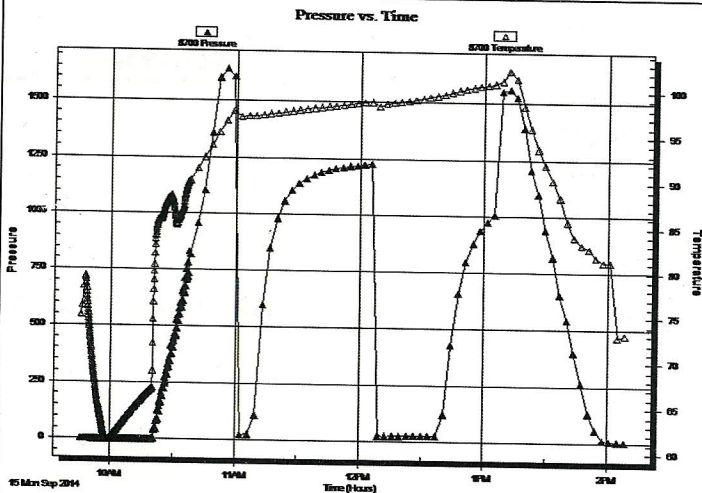
Capacity: 8000.00 psig

Last Calib.: 2014.09.15

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP-w k surface bl thru-out  
 60-ISIP-no bl  
 30-FFP-no bl  
 30-FSIP-no bl



## PRESSURE SUMMARY

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

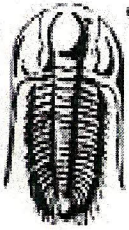
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.07

\* Recovery from multiple tests

## Gas Rates

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



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**6-8s-18w Rooks, KS**

1607 Hopewell Rd  
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**Hayes #1**

Job Ticket: 60881

**DST#: 4**

ATTN: Frank Staab, Janel

Test Start: 2014.09.16 @ 07:50:55

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	745'GIP	0.000
186.00	GMO 30%G10%M60%O	1.317
680.00	CO	7.816

Total Length: 866.00 ft

Total Volume: 9.133 bbl

*9.133*

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: