



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

New Gulf Operating

**4-12-32 Logan, Ks**

10441 S Regal BLVD  
Tulsa, Ok 74133

**James 1-4**

ATTN: Steve Murphy/ Jim He

Job Ticket: 59045

**DST#: 3**

Test Start: 2014.10.05 @ 18:30:25

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:38:25

Time Test Ended: 02:16:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

**Interval: 4610.00 ft (KB) To 4646.00 ft (KB) (TVD)**

Reference Elevations: 3056.00 ft (KB)

Total Depth: 4646.00 ft (KB) (TVD)

3046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8166 Outside**

Press @ Run Depth: 67.66 psig @ 4611.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.05

End Date:

2014.10.06

Last Calib.:

2014.10.06

Start Time: 18:30:30

End Time:

02:16:24

Time On Btm:

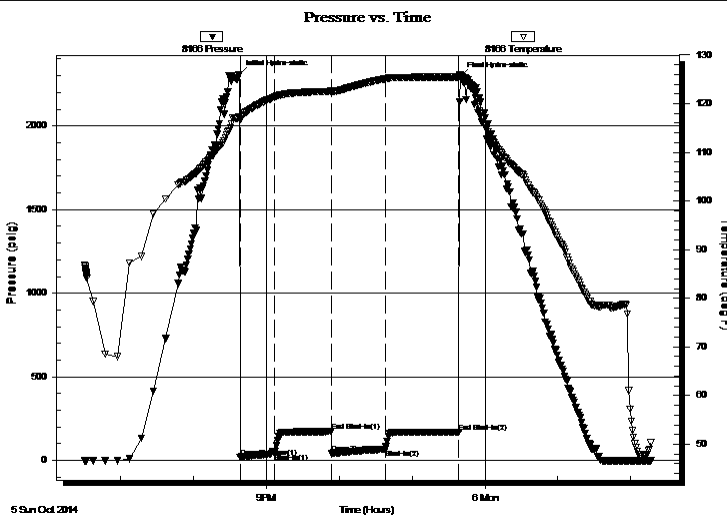
2014.10.05 @ 20:37:55

Time Off Btm:

2014.10.05 @ 23:39:55

**TEST COMMENT:** IF: BOB in 7 min.  
IS: Weak surface blow died in 8 min.  
FF: BOB in 4 min.  
FS: Surface blow built to 1/2 died in 30 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2307.91	117.37	Initial Hydro-static
1	18.73	116.70	Open To Flow (1)
29	42.43	121.35	Shut-In(1)
76	172.86	122.55	End Shut-In(1)
76	42.37	122.50	Open To Flow (2)
120	67.66	125.09	Shut-In(2)
181	170.57	125.46	End Shut-In(2)
182	2294.93	125.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	gocw m 10%g 10%o 5%w 75%m	0.59
62.00	gocm 10%g 10%o 80%w	0.87
30.00	go 5%g 95%o	0.42
0.00	1210 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



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## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 55.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 4000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 27 deg API  
Water Salinity: 0 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	gocw m 10%g 10%o 5%w 75%m	0.587
62.00	gocm 10%g 10%o 80%w	0.870
30.00	go 5%g 95%o	0.421
0.00	1210 GIP	0.000

Total Length: 154.00 ft      Total Volume: 1.878 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 28@50=27

