



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Gulf Exploration
9701 N. Broadway Extension
Oklahoma City, OK 73114
ATTN: Mike Madcharo

3/7S/36W

Goetsch #1-3

Job Ticket: 62287

DST#: 1

Test Start: 2015.05.30 @ 08:30:00

GENERAL INFORMATION:

Formation: **Tarkio - Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:22:00

Time Test Ended: 15:23:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: **3750.00 ft (KB) To 3940.00 ft (KB) (TVD)**

Reference Elevations: 3324.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD)

3313.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press @ Run Depth: 106.55 psig @ 3751.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.30

End Date:

2015.05.30

Last Calib.:

2015.05.30

Start Time: 08:30:01

End Time:

15:23:30

Time On Btm:

2015.05.30 @ 10:20:00

Time Off Btm:

2015.05.30 @ 13:25:00

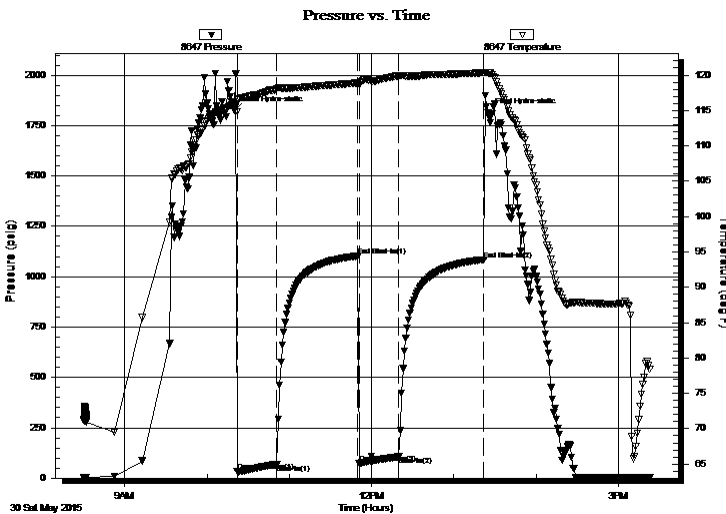
TEST COMMENT: 30 - IF - Opened w/ surface blow, built to 2"

60 - ISI - No Return

30 - FF - No Blow

60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1824.92	115.94	Initial Hydro-static
2	33.60	114.86	Open To Flow (1)
31	68.08	118.08	Shut-In(1)
90	1102.35	118.87	End Shut-In(1)
91	73.36	118.69	Open To Flow (2)
120	106.55	119.88	Shut-In(2)
182	1083.40	120.33	End Shut-In(2)
185	1811.79	120.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	100% mud w/ oil spots in tool	0.66

Gas Rates

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



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FLUID SUMMARY

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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:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
135.00	100% mud w / oil spots in tool	0.664

Total Length: 135.00 ft Total Volume: 0.664 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Slight smell of gas at bottom collar

