



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc
8100 E 22nd St. N 700
Wichita, Ks 67278
ATTN: John Goldsmith

5-16s-36w Wichita, ks

Miller Trust #1

Job Ticket: 64545

DST#: 1

Test Start: 2016.05.25 @ 00:54:26

GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:43:26

Time Test Ended: 07:19:26

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4044.00 ft (KB) To 4072.00 ft (KB) (TVD)

Reference Elevations: 3311.00 ft (KB)

Total Depth: 4072.00 ft (KB) (TVD)

3306.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8166 Outside

Press@RunDepth: 166.68 psig @ 4045.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.25

End Date:

2016.05.25

Last Calib.:

2016.05.25

Start Time: 00:54:31

End Time:

07:19:25

Time On Btm:

2016.05.25 @ 02:42:56

Time Off Btm:

2016.05.25 @ 05:46:56

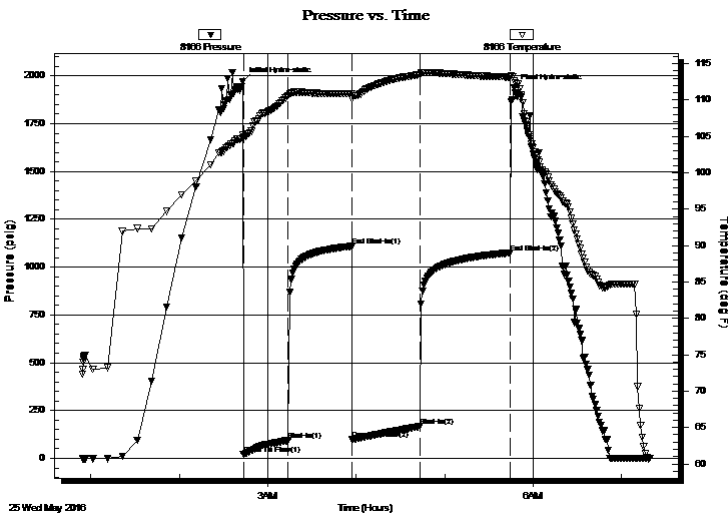
TEST COMMENT: IF: 1/4 blow BOB in 29 min.

IS: No return.

FF: Surface blow BOB in 35 min.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.62	105.19	Initial Hydro-static
1	19.63	104.81	Open To Flow (1)
31	93.94	110.61	Shut-In(1)
74	1108.57	110.85	End Shut-In(1)
75	98.67	110.25	Open To Flow (2)
120	166.68	113.50	Shut-In(2)
182	1074.61	113.16	End Shut-In(2)
184	1935.84	112.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcw 90%w 10%m	1.53
155.00	w cm oil spots 20%w 80%m	2.17

Gas Rates

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



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FLUID SUMMARY

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DST#: 1

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Test Start: 2016.05.25 @ 00:54:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	mcw 90%w 10%m	1.534
155.00	w cm oil spots 20%w 80%m	2.174

Total Length: 341.00 ft Total Volume: 3.708 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .35@57=24000

