



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Richland Oil Investments

22-12-33 Logan, KS

608 E 1st
Palco, Ks 67657

Moore 22-2

Job Ticket: 63780

DST#: 1

ATTN: Steve Murphy

Test Start: 2017.04.01 @ 07:44:14

GENERAL INFORMATION:

Formation: **Lansing C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:20:44

Time Test Ended: 12:51:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **4080.00 ft (KB) To 4100.00 ft (KB) (TVD)**

Reference Elevations: 3114.00 ft (KB)

Total Depth: 4100.00 ft (KB) (TVD)

3104.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: **8166** Outside

Press@RunDepth: 30.69 psig @ 4081.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.01 End Date: 2017.04.01

Last Calib.: 2017.04.01

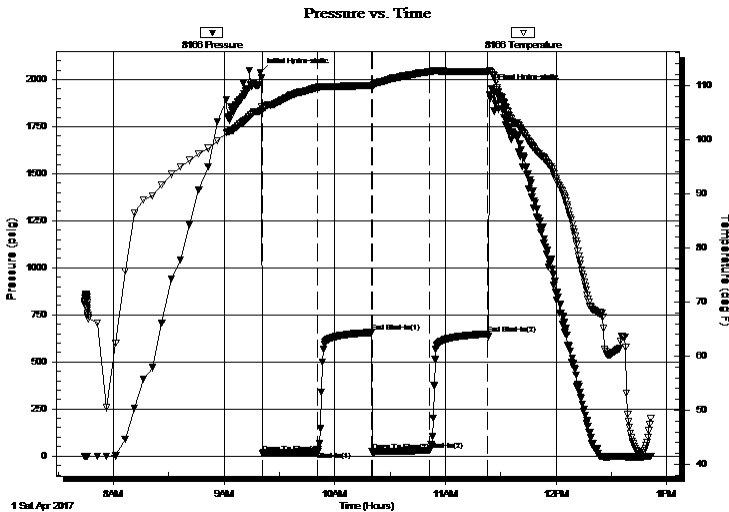
Start Time: 07:44:19 End Time: 12:51:13

Time On Btm: 2017.04.01 @ 09:19:44

Time Off Btm: 2017.04.01 @ 11:24:44

TEST COMMENT: IF: 1/4 blow built to 1/2.
IS: No return.
FF: Surface blow built to 1/4.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2038.72	105.31	Initial Hydro-static
1	15.79	105.28	Open To Flow (1)
31	22.60	109.61	Shut-In(1)
60	656.46	110.00	End Shut-In(1)
61	22.94	109.62	Open To Flow (2)
92	30.69	112.53	Shut-In(2)
123	649.19	112.53	End Shut-In(2)
125	1952.38	112.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	wcm20%w 80%m	0.49
1.00	free oil 100%	0.01

Gas Rates

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



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22-12-33 Logan, KS
Moore 22-2
Job Ticket: 63780 **DST#: 1**
Test Start: 2017.04.01 @ 07:44:14

GENERAL INFORMATION:

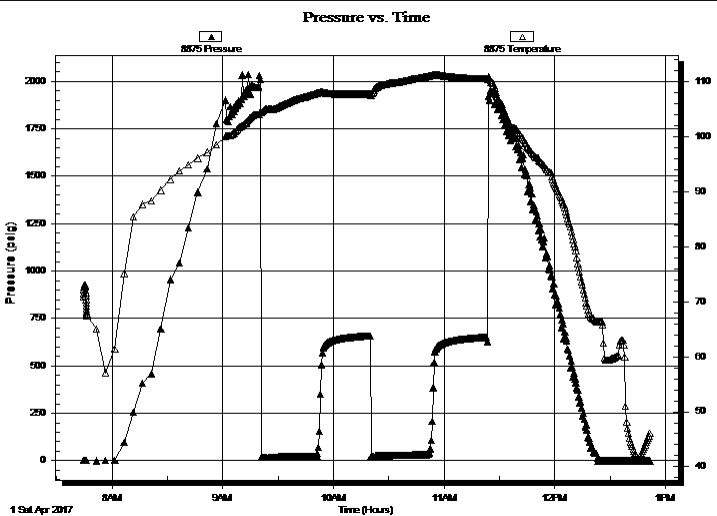
Formation:	Lansing C		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened:	09:20:44		Tester: Brandon Turley
Time Test Ended:	12:51:14		Unit No: 79
Interval:	4080.00 ft (KB) To 4100.00 ft (KB) (TVD)		Reference Elevations: 3114.00 ft (KB)
Total Depth:	4100.00 ft (KB) (TVD)		3104.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 10.00 ft

Serial #: 8875 Inside

Press@RunDepth:	psig @ 4081.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2017.04.01	End Date:	2017.04.01
Start Time:	07:44:33	End Time:	12:51:27
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: 1/4 blow built to 1/2.
IS: No return.
FF: Surface blow built to 1/4.
FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	wcm20%w 80%m	0.49
1.00	free oil 100%o	0.01

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Richland Oil Investments

22-12-33 Logan, KS

608 E 1st
Palco, Ks 67657

Moore 22-2

Job Ticket: 63780

DST#: 1

ATTN: Steve Murphy

Test Start: 2017.04.01 @ 07:44:14

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:

27000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	w cm 20%w 80%m	0.491
1.00	free oil 100%o	0.014

Total Length: 36.00 ft Total Volume: 0.505 bbl

Num Fluid Samples: 0

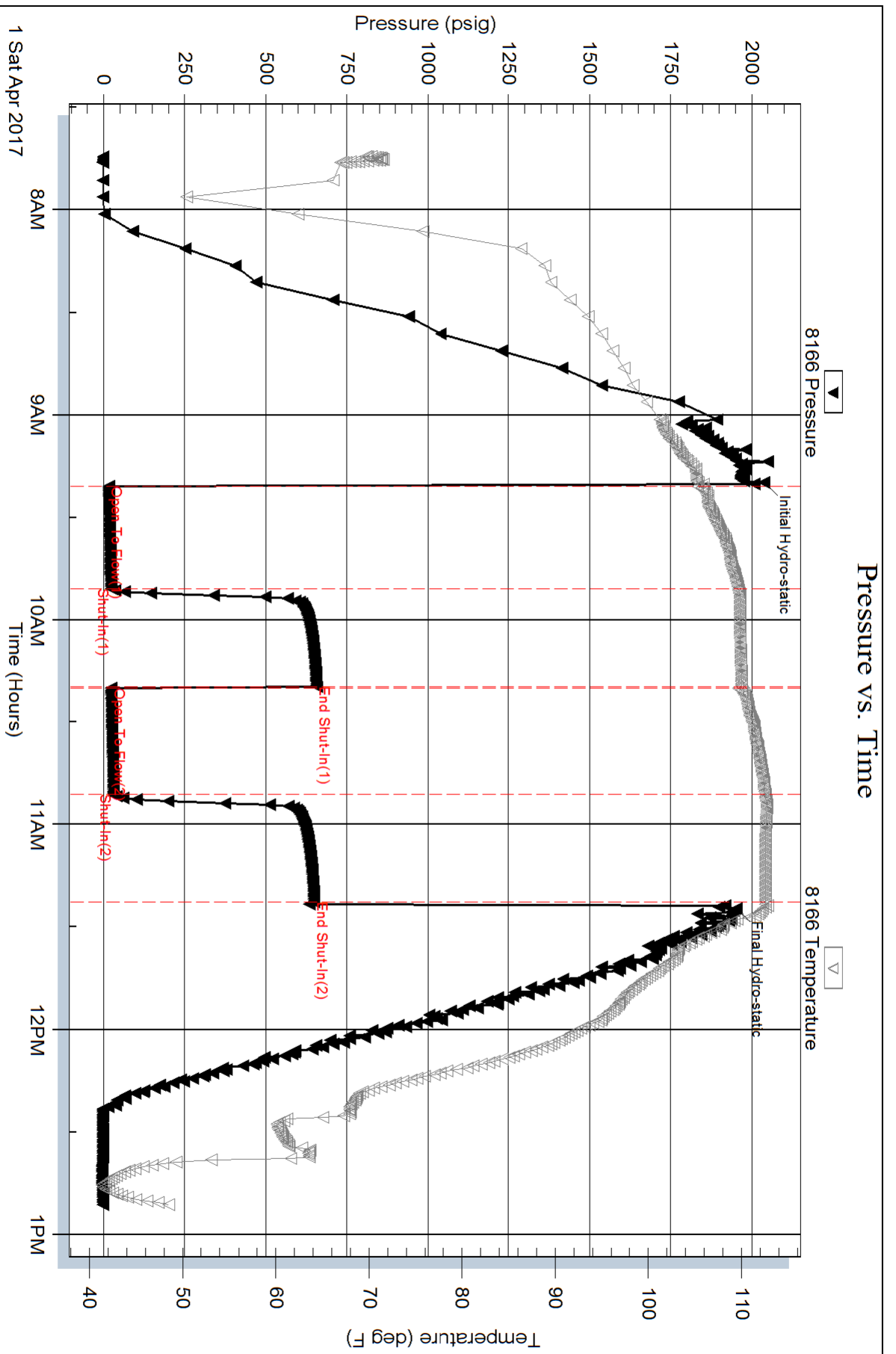
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .43@42=27000



Serial #: 8875

Inside

Richland Oil Investments

Moore 22-2

DST Test Number: 1

