



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co
 202 W Main St
 Salem, IL 62881
 ATTN: Tim Lauer

28-14s-32w Logan Ks
Ottley 4-28
 Job Ticket: 64832 **DST#: 4**
 Test Start: 2019.06.28 @ 21:00:15

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:15:45
 Time Test Ended: 05:04:00
 Interval: **3985.00 ft (KB) To 4110.00 ft (KB) (TVD)**
 Total Depth: 3985.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 2673.00 ft (KB)
 2664.00 ft (CF)
 KB to GR/CF: 9.00 ft

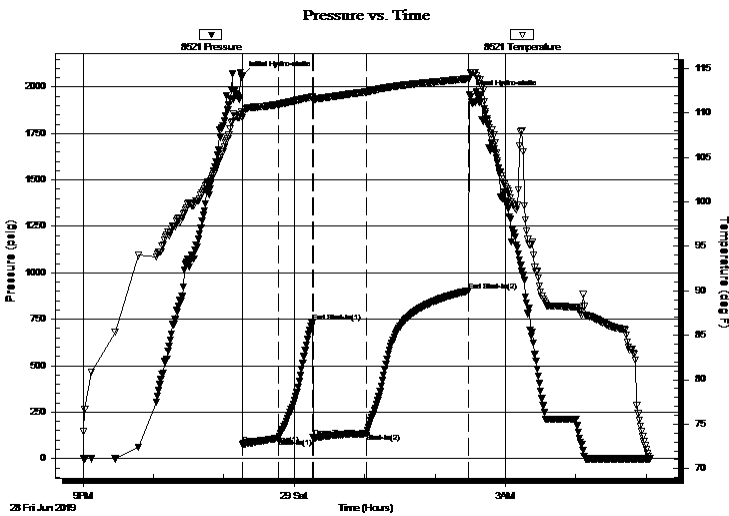
Serial #: 8521

Inside

Press@RunDepth: 135.41 psig @ 4092.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.06.28 End Date: 2019.06.29 Last Calib.: 2019.06.29
 Start Time: 21:00:15 End Time: 05:04:00 Time On Btm: 2019.06.28 @ 23:15:30
 Time Off Btm: 2019.06.29 @ 02:29:15

TEST COMMENT: IF: Built to 23 3/4" blow BOB in 17 min.
 IS: No return blow
 FF: Built to 33" blow BOB in 15 min.
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.31	110.14	Initial Hydro-static
1	74.75	109.47	Open To Flow (1)
31	108.72	110.95	Shut-In(1)
60	732.81	111.79	End Shut-In(1)
61	115.80	111.45	Open To Flow (2)
106	135.41	112.35	Shut-In(2)
193	902.37	113.84	End Shut-In(2)
194	1957.39	113.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
108.00	gcom 10%g 10%o 80%m	1.51
62.00	mco 20%m 40%g 40%o	0.87

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Salem, IL 62881

Ottley 4-28

Job Ticket: 64832

DST#: 4

ATTN: Tim Lauer

Test Start: 2019.06.28 @ 21:00:15

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:

0 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
108.00	gcom 10%g 10%o 80%m	1.515
62.00	mcgo 20%m 40%g 40%o	0.870

Total Length: 170.00 ft

Total Volume: 2.385 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8968

Outside Shakespeare Oil Co

Ottley 4-28

DST Test Number: 4

