



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil CO

14-16-34 Scott, Ks

202 w Main st.
Salem, Il
62881
ATTN: Mac Armstrong

Radnor Cog 1-14

Job Ticket: 59084 **DST#: 3**
Test Start: 2014.10.01 @ 18:50:52

GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 20:36:07

Time Test Ended: 02:47:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4616.00 ft (KB) To 4713.00 ft (KB) (TVD)

Reference Elevations: 3126.00 ft (KB)

Total Depth: 4713.00 ft (KB) (TVD)

3114.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6771

Inside

Press@RunDepth: 201.13 psig @ 4617.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.01 End Date: 2014.10.02

Last Calib.: 2014.10.02

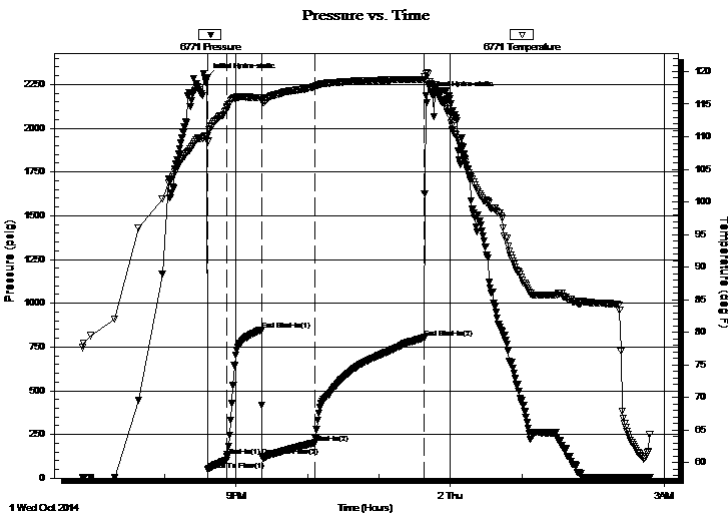
Start Time: 18:50:52 End Time: 02:47:37

Time On Btm: 2014.10.01 @ 20:35:22

Time Off Btm: 2014.10.01 @ 23:39:22

TEST COMMENT: BOB in 8 min.
No Return
BOB in 5 min.
No Return / 15 min Shut in had Return / BOB in 30 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2291.02	110.13	Initial Hydro-static
1	47.57	109.17	Open To Flow (1)
17	126.72	114.39	Shut-In(1)
46	844.96	116.00	End Shut-In(1)
47	125.51	115.68	Open To Flow (2)
91	201.13	117.69	Shut-In(2)
183	803.17	118.81	End Shut-In(2)
184	2184.82	119.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
68.00	c g o 25% g 75% o	0.95
189.00	g s m c o 40% g 50% o 10% m	2.65
189.00	g m c o 30% g 50% o 20% m	2.65
126.00	g m c o 10%g 45% o 45% m	1.77
0.00	1444' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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DST#: 3

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
68.00	c g o 25% g 75% o	0.954
189.00	g s m c o 40% g 50% o 10% m	2.651
189.00	g m c o 30% g 50% o 20% m	2.651
126.00	g m c o 10%g 45% o 45% m	1.767
0.00	1444' GIP	0.000

Total Length: 572.00 ft

Total Volume: 8.023 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6771

Inside

Shakespeare Oil Co

Radnor Cog 1-14

DST Test Number: 3

