



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

23-17s-33w Scott Co. KS

202 W. Main St.
Salem IL 62881

Rudolph #1-23

Job Ticket: 58678

DST#: 2

ATTN: Tim Priest

Test Start: 2014.12.05 @ 10:44:05

GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:52:45

Time Test Ended: 17:55:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

Interval: 4257.00 ft (KB) To 4277.00 ft (KB) (TVD)

Reference Elevations: 3026.00 ft (KB)

Total Depth: 4277.00 ft (KB) (TVD)

3016.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 553.52 psig @ 4258.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.05

End Date:

2014.12.05

Last Calib.:

2014.12.05

Start Time:

10:44:05

End Time:

17:55:44

Time On Btm:

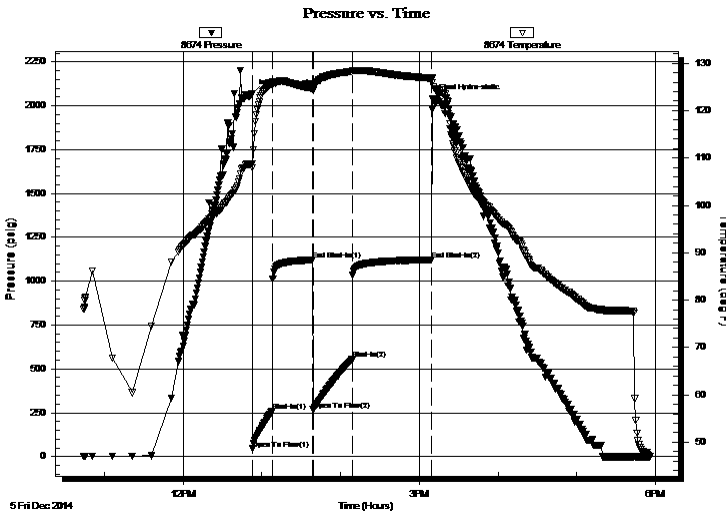
2014.12.05 @ 12:52:30

Time Off Btm:

2014.12.05 @ 15:10:14

TEST COMMENT: IF- Surface Blow Built to BOB in 4min
IS- No Blow
FF- Surface Blow Built to BOB in 4min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.24	108.85	Initial Hydro-static
1	44.97	107.97	Open To Flow (1)
16	260.02	125.75	Shut-In(1)
46	1121.31	124.69	End Shut-In(1)
47	267.50	124.23	Open To Flow (2)
77	553.52	128.27	Shut-In(2)
137	1122.19	126.83	End Shut-In(2)
138	2041.92	125.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
868.00	MCW 5% m 95% w	11.05
248.00	MCW 16% m 84% w	3.48
93.00	MCW 47% m 53% w with a Skim of Oil	01.30

Gas Rates

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

* Recovery from multiple tests



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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:

50000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
868.00	MCW 5% <i>m</i> 95% <i>w</i>	11.046
248.00	MCW 16% <i>m</i> 84% <i>w</i>	3.479
93.00	MCW 47% <i>m</i> 53% <i>w</i> with a Skim of Oil on T	1.305

Total Length: 1209.00 ft Total Volume: 15.830 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .172 @ 61f = 50000

Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph #1-23

DST Test Number: 2

