



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co. INC,

4-16s-34w Scott,KS

202 W Main ST
Salem IL, 62881

McDaniel 1-4

Job Ticket: 57738

DST#: 2

ATTN: Tim Priest

Test Start: 2014.10.08 @ 14:28:00

GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 16:30:40

Time Test Ended: 21:29:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

Interval: 4312.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

3136.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press@RunDepth: 97.67 psig @ 4316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.08

End Date: 2014.10.08

Last Calib.: 2014.10.08

Start Time: 14:28:00

End Time: 21:29:39

Time On Btm: 2014.10.08 @ 16:30:25

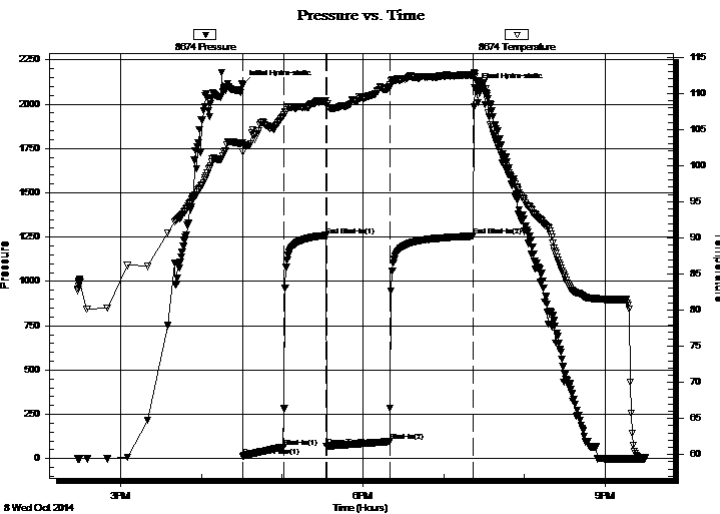
Time Off Btm: 2014.10.08 @ 19:22:54

TEST COMMENT: IF- Weak Surface Blow Built to 2"

IS- No Blow

FF- Weak Surface Blow Bilt to 3 3/4"

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.15	103.20	Initial Hydro-static
1	14.24	101.85	Open To Flow (1)
31	65.76	106.80	Shut-In(1)
62	1260.30	109.03	End Shut-In(1)
63	68.38	108.33	Open To Flow (2)
110	97.67	110.87	Shut-In(2)
172	1256.14	112.53	End Shut-In(2)
173	2093.89	112.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCW 19%m 81%w	0.61
31.00	MCW 44%m 56%w with a Few Oil Sp	0.43

* Recovery from multiple tests

Gas Rates

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



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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:

29500 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
124.00	MCW 19%m 81%w	0.610
31.00	MCW 44%m 56%w with a Few Oil Spots	0.435

Total Length: 155.00 ft Total Volume: 1.045 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .271 @ 63f = 29500

