



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Edison Operating Company
 8100 E 22nd St N Bldg 1900
 Wichita, KS 67226
 ATTN: Derek Patterson

15-30S-18W Kiowa
Carol Unruh 1-15
 Job Ticket: 57772 **DST#: 1**
 Test Start: 2014.10.17 @ 07:58:33

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:31:18
 Time Test Ended: 17:06:18
 Interval: **5024.00 ft (KB) To 5052.00 ft (KB) (TVD)**
 Total Depth: 5052.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2205.00 ft (KB)
 2200.00 ft (CF)
 KB to GR/CF: 5.00 ft

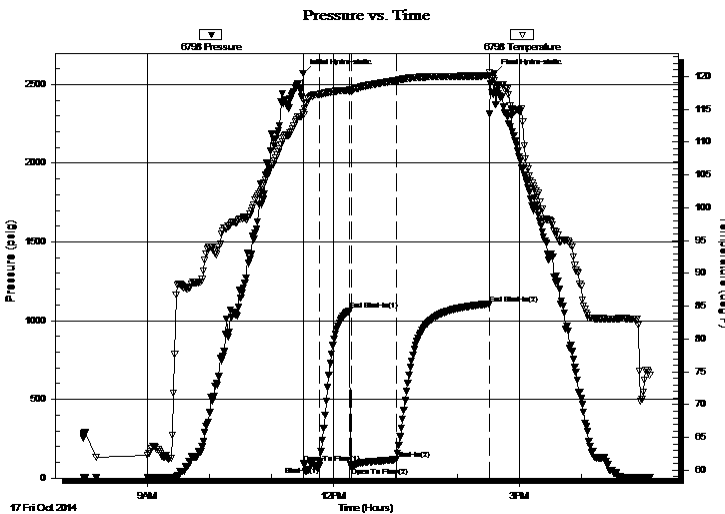
Serial #: 6798

Inside

Press @ Run Depth: 118.76 psig @ 5025.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.10.17 End Date: 2014.10.17 Last Calib.: 2014.10.17
 Start Time: 07:58:34 End Time: 17:06:18 Time On Btm: 2014.10.17 @ 11:30:33
 Time Off Btm: 2014.10.17 @ 14:35:33

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
 IS: No Blow Back
 FF: Strong Blow , BOB in 45 seconds
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2570.67	114.48	Initial Hydro-static
1	91.93	114.22	Open To Flow (1)
16	77.87	117.18	Shut-In(1)
46	1064.58	117.89	End Shut-In(1)
47	66.73	117.92	Open To Flow (2)
91	118.76	119.35	Shut-In(2)
180	1106.65	120.09	End Shut-In(2)
185	2567.73	119.32	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	2542 GIP	0.00
124.00	GOMCW 12%G 18%O 20%M 50%W	0.61
159.00	GOCM 20%G 20%O 60%M	1.10

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



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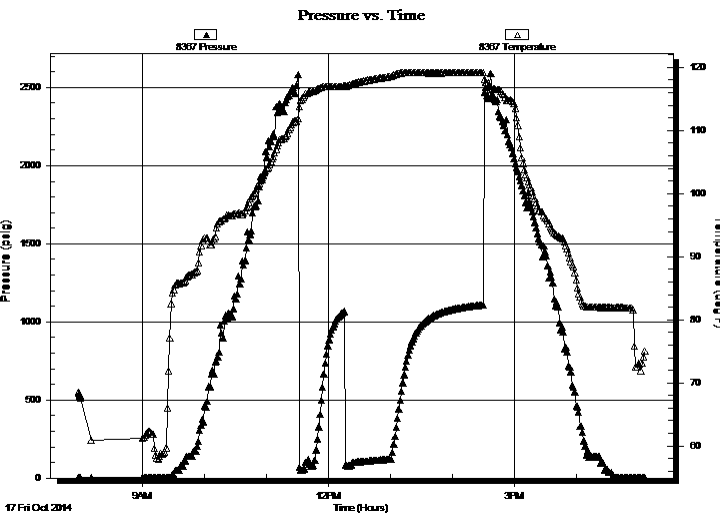
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 2200.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8367 Outside
 Press @ Run Depth: psig @ 5025.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.10.17 End Date: 2014.10.17 Last Calib.: 2014.10.17
 Start Time: 07:58:34 End Time: 17:06:18 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
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PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2542 GIP	0.00
124.00	GOMCW 12%G 18%O 20%M 50%W	0.61
159.00	GOCM 20%G 20%O 60%M	1.10

Gas Rates

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



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FLUID SUMMARY

Edison Operating Company

15-30S-18W Kiowa

8100 E 22nd St N Bldg 1900
Wichita, KS 67226

Carol Unruh 1-15

Job Ticket: 57772

DST#: 1

ATTN: Derek Patterson

Test Start: 2014.10.17 @ 07:58:33

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

85000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2542 GIP	0.000
124.00	GOMCW 12%G 18%O 20%M 50%W	0.610
159.00	GOCM 20%G 20%O 60%M	1.101

Total Length: 283.00 ft Total Volume: 1.711 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .09 @ 73 degrees

Pressure vs. Time

