



DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company**

8100 e.22nd St.bldg 1900
Wiochita, Kansas 67226

ATTN: Derek Patterson

Knop #1-27

27-19s-12w Barton

Start Date: 2017.07.19 @ 20:20:00

End Date: 2017.07.20 @ 02:26:00

Job Ticket #: 01180 DST #: 3

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2017.07.20 @ 02:39:07



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Test Start: 2017.07.19 @ 20:20:00

GENERAL INFORMATION:

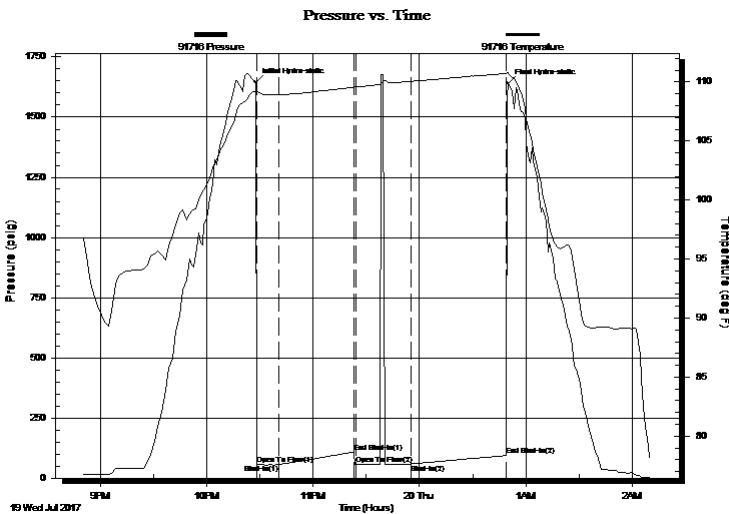
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:54:00
 Time Test Ended: 02:26:00
 Interval: **3384.00 ft (KB) To 3422.00 ft (KB) (TVD)**
 Total Depth: 3422.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1832.00 ft (KB)
 1823.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 91716 Inside

Press@RunDepth: 94.33 psig @ 3417.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2017.07.19 End Date: 2017.07.20 Last Calib.: 2017.07.20
 Start Time: 20:50:00 End Time: 02:10:30 Time On Btm: 2017.07.19 @ 22:27:30
 Time Off Btm: 2017.07.20 @ 00:50:00

TEST COMMENT: 1st Opening 10 Minutes weak blow for 4 minutes and died
 1st Shut-In 45 Minutes no blow back
 2nd Opening 30 Minutes no blow -Flushed tool-Good surge-No help
 2nd Shut-In 60 Minutes no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.42	109.20	Initial Hydro-static
1	56.61	109.16	Open To Flow (1)
13	56.76	108.92	Shut-In(1)
56	108.84	109.55	End Shut-In(1)
57	56.84	109.57	Open To Flow (2)
88	58.65	110.05	Shut-In(2)
142	94.33	110.71	End Shut-In(2)
143	1639.83	110.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.07

Gas Rates

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



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GENERAL INFORMATION:

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 Time Test Ended: 02:26:00
 Interval: **3384.00 ft (KB) To 3422.00 ft (KB) (TVD)**
 Total Depth: 3422.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1832.00 ft (KB)
 1823.00 ft (CF)
 KB to GR/CF: 9.00 ft

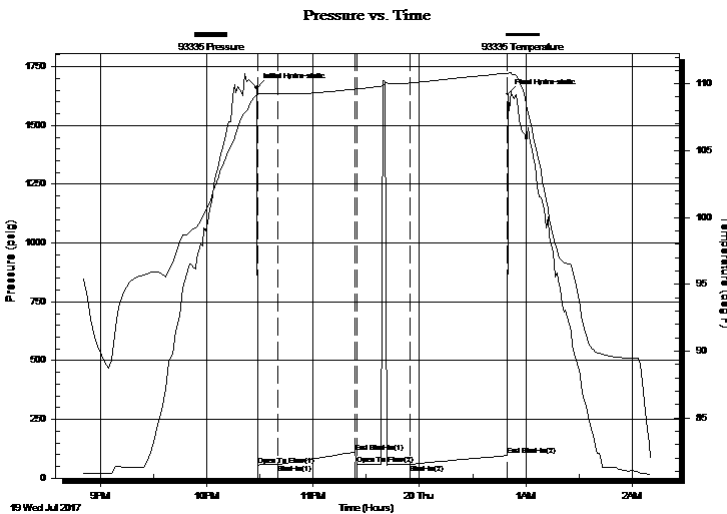
Serial #: 93335 Outside

Press@RunDepth: 95.90 psig @ 3417.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2017.07.19 End Date: 2017.07.20 Last Calib.: 2017.07.20
 Start Time: 20:50:00 End Time: 02:11:00 Time On Btm: 2017.07.19 @ 22:28:00
 Time Off Btm: 2017.07.20 @ 00:50:00

TEST COMMENT: 1st Opening 10 Minutes weak blow for 4 minutes and died
 1st Shut-In 45 Minutes no blow back
 2nd Opening 30 Minutes no blow -Flushed tool-Good surge-No help
 2nd Shut-In 60 Minutes no blow back

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.28	109.17	Initial Hydro-static
1	55.84	109.27	Open To Flow (1)
12	57.38	109.26	Shut-In(1)
56	111.33	109.60	End Shut-In(1)
57	56.96	109.62	Open To Flow (2)
87	58.34	110.06	Shut-In(2)
142	95.90	110.79	End Shut-In(2)
142	1634.50	110.80	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.07

Gas Rates

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



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TOOL DIAGRAM

Edison Operating Company

27-19s-12w Barton

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Test Start: 2017.07.19 @ 20:20:00

Tool Information

Drill Pipe:	Length: 3371.00 ft	Diameter: 3.80 inches	Volume: 47.29 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume: 47.29 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3384.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	58.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3369.00	
Hydraulic tool	5.00			3374.00	
Top Packer	5.00			3379.00	
Packer	5.00			3384.00	20.00 Bottom Of Top Packer
Anchor	33.00			3417.00	
Recorder	0.00	91716	Inside	3417.00	
Recorder	0.00	93335	Outside	3417.00	
Bullnose	5.00			3422.00	38.00 Anchor Tool

Total Tool Length: 58.00



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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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

