



## 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: 2017.07.20 @ 09:10:00

End Date: 2017.07.20 @ 01:48:00

Job Ticket #: 01181                      DST #: 4

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

Printed: 2017.07.20 @ 13:59:31



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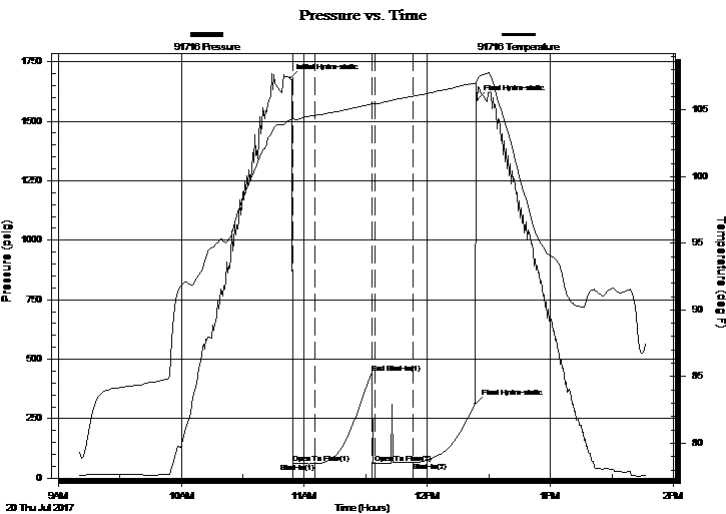
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:54:00  
 Time Test Ended: 01:48:00  
 Interval: **3382.00 ft (KB) To 3429.00 ft (KB) (TVD)**  
 Total Depth: 3429.00 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: 443.50 psig @ 3423.92 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2017.07.20 End Date: 2017.07.20 Last Calib.: 2017.07.20  
 Start Time: 09:10:00 End Time: 13:47:00 Time On Btm: 2017.07.20 @ 10:53:00  
 Time Off Btm: 2017.07.20 @ 12:23:30

TEST COMMENT: 1st Opening 10 Minutes w eak blow for 7 minutes and died  
 1st Shut-In 30 Minutes no blow back  
 2nd Opening 20 Minutes w eak blow 1 minute died flushed tool w eak blow 2 minutes and died  
 2nd Shut-In 30 Minutes n blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.22	104.27	Initial Hydro-static
2	61.98	104.38	Open To Flow (1)
12	60.82	104.61	Shut-In(1)
40	443.50	105.48	End Shut-In(1)
42	62.90	105.48	Open To Flow (2)
60	65.12	106.03	Shut-In(2)
91	312.00	107.02	Final Hydro-static
92	1590.67	107.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud	0.21

## Gas Rates

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



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**TOOL DIAGRAM**

Edison Operating Company

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## Tool Information

Drill Pipe:	Length: 3364.00 ft	Diameter: 3.80 inches	Volume: 47.19 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: 64000.00 lb
			<u>Total Volume: 47.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3382.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.92 ft			
Tool Length:	73.92 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3360.00	
Hydraulic tool	5.00			3365.00	
Jars	5.00			3370.00	
Safety Joint	2.00			3372.00	
Top Packer	5.00			3377.00	
Packer	5.00			3382.00	27.00 Bottom Of Top Packer
Anchor	0.00			3382.00	
Change Over Sub	0.75			3382.75	
Drill Pipe	31.42			3414.17	
Change Over Sub	0.75			3414.92	
Anchor	9.00			3423.92	
Recorder	0.00	91716	Inside	3423.92	
Recorder	0.00	93335	Outside	3423.92	
Bullnose	5.00			3428.92	46.92 Anchor Tool

**Total Tool Length: 73.92**



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## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 11.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 11000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drilling Mud	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

