



DRILL STEM TEST REPORT

Prepared For: **RJM COMPANY**

P.O. BOX 256
CLAFLIN ,KANSAS 67525-0256

ATTN: WYATT URBAN

HOWARD 1

22-19S-13W BARTON

Start Date: 2015.09.22 @ 17:53:00

End Date: 2015.09.22 @ 00:00:00

Job Ticket #: 01237 DST #: 1

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

Printed: 2015.09.22 @ 23:10:19

RJM COMPANY
22-19S-13W BARTON
HOWARD 1
DST # 1
KANSAS CITY 'A-F'
2015.09.22



DRILL STEM TEST REPORT

RJM COMPANY
 P.O. BOX 256
 CLAFLIN, KANSAS 67525-0256
 ATTN: WYATT URBAN

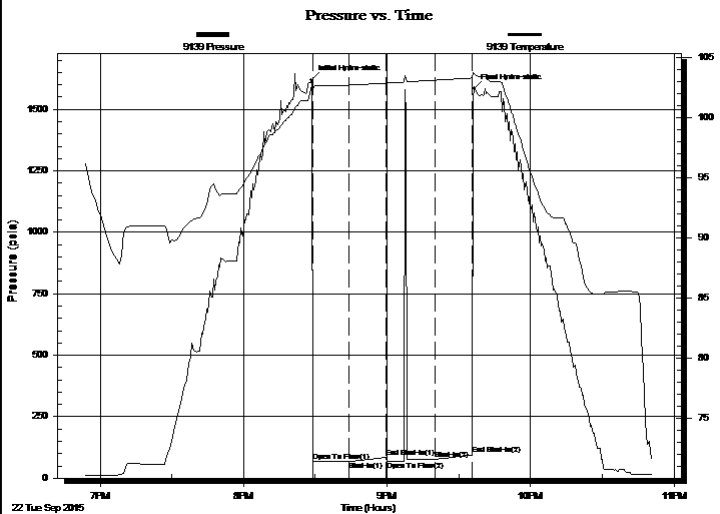
22-19S-13W BARTON
HOWARD 1
 Job Ticket: 01237 **DST#: 1**
 Test Start: 2015.09.22 @ 17:53:00

GENERAL INFORMATION:

Formation: **KANSAS CITY 'A-F'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:29:00
 Time Test Ended: 00:00:00
 Interval: **3166.00 ft (KB) To 3250.00 ft (KB) (TVD)**
 Total Depth: 3250.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1-0
 Reference Elevations: 1849.00 ft (KB)
 1843.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 95.27 psia @ 3245.21 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.09.22 End Date: 2015.09.22 Last Calib.: 2015.09.22
 Start Time: 18:53:00 End Time: 22:51:00 Time On Btm: 2015.09.22 @ 20:28:30
 Time Off Btm: 2015.09.22 @ 21:36:30

TEST COMMENT: 1ST OPENING 15 MINUTES VERY WEAK SURFACE BLOW FOR 12 MINUTES ANBD DIED
 1ST SHUT-IN 15 MINUTES
 2ND OPENING 20 MINUTES VERY WEAK SURFACE BLOW FOR 8 MINUTES AND DIED FLUSHED TOOL
 GOOD SURGE VERY WEAK SURFACE BLOW FOR 6 MINUTES AND DIED



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1620.78	102.64	Initial Hydro-static
1	66.81	102.37	Open To Flow (1)
16	68.30	102.73	Shut-In(1)
31	85.01	102.90	End Shut-In(1)
32	67.01	102.89	Open To Flow (2)
52	75.93	103.13	Shut-In(2)
67	95.27	103.33	End Shut-In(2)
68	1584.30	103.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	DRILLING MUD	0.21

Gas Rates

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



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TOOL DIAGRAM

RJM COMPANY

22-19S-13W BARTON

P.O. BOX 256
CLAFLIN, KANSAS 67525-0256

HOWARD 1

Job Ticket: 01237

DST#: 1

ATTN: WYATT URBAN

Test Start: 2015.09.22 @ 17:53:00

Tool Information

Drill Pipe:	Length: 3166.00 ft	Diameter: 3.80 inches	Volume: 44.41 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: 44.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3166.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.21 ft			
Tool Length:	104.21 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			3151.00	
Hydraulic tool	5.00			3156.00	
Top Packer	5.00			3161.00	
Packer	5.00			3166.00	20.00 Bottom Of Top Packer
Anchor	5.00			3171.00	
Change Over Sub	0.75			3171.75	
Drill Pipe	63.71			3235.46	
Change Over Sub	0.75			3236.21	
Anchor	9.00			3245.21	
Recorder	0.00	9119	Inside	3245.21	
Recorder	0.00	9139	Outside	3245.21	
Bullnose	5.00			3250.21	84.21 Anchor Tool

Total Tool Length: 104.21



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FLUID SUMMARY

RJM COMPANY

22-19S-13W BARTON

P.O. BOX 256
CLAFLIN, KANSAS 67525-0256

HOWARD 1

Job Ticket: 01237

DST#: 1

ATTN: WYATT URBAN

Test Start: 2015.09.22 @ 17:53:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

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

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:

