



DRILL STEM TEST REPORT

Prepared For: **ROYAL ENERGY INC.**

402 CEDAR STREET
MEADE, KANSAS 67864

ATTN: JEFF BURK

YOUNG 31

7-26S-13W PRATT

Start Date: 2017.01.09 @ 12:56:00

End Date: 2017.01.09 @ 19:46:00

Job Ticket #: 01141 DST #: 1

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

Printed: 2017.01.09 @ 20:20:32

ROYAL ENERGY INC. 7-26S-13W PRATT YOUNG 31 DST # 1 LANSING 'A-B' 2017.01.09



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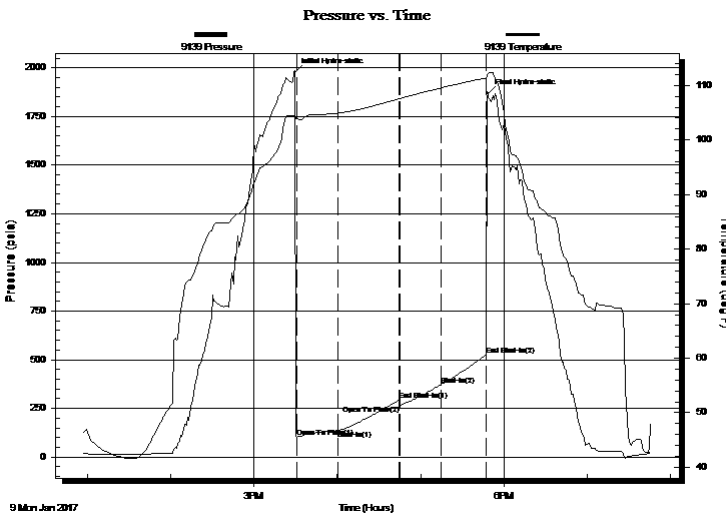
7-26S-13W PRATT
YOUNG 31
 Job Ticket: 01141 **DST#: 1**
 Test Start: 2017.01.09 @ 12:56:00

GENERAL INFORMATION:

Formation: **LANSING 'A-B'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:31:00
 Time Test Ended: 19:46:00
 Interval: **3878.00 ft (KB) To 3835.00 ft (KB) (TVD)**
 Total Depth: 3835.00 ft (KB) (TVD)
 Hole Diameter: 7.86 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG-90
 Unit No: 1
 Reference Elevations: 1970.00 ft (KB)
 1960.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 522.63 psia @ 3830.07 ft (KB) Capacity: psia
 Start Date: 2017.01.09 End Date: 2017.01.09 Last Calib.: 2017.01.09
 Start Time: 12:56:00 End Time: 19:46:30 Time On Btm: 2017.01.09 @ 15:29:30
 Time Off Btm: 2017.01.09 @ 17:48:30

TEST COMMENT: 1ST OPOENING 30 MINUTES FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLION BUCKET IN 6 MINUTES
 1ST SHUT-IN 45 MINUTES NO BLOW BACK
 2ND OPPENING 30 MINUTES-WEAK BLOW BUILT TO 1 1/2 INCH DECRTEASED DIED IN 27 MINUTES2ND 2ND SHUT-IN
 45 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1976.38	104.45	Initial Hydro-static
1	102.27	103.91	Open To Flow (1)
31	136.28	104.91	Shut-In(1)
75	292.67	107.56	End Shut-In(1)
76	265.43	107.58	Open To Flow (2)
105	370.79	109.55	Shut-In(2)
138	522.63	111.35	End Shut-In(2)
139	1869.29	112.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	200 feet of gas in the pipe	0.00
20.00	mud	0.28
60.00	very slightly oil cut mud	0.84
0.00	5 gas 5 oil 80 mud 10 w ater	0.00
60.00	very slightly oil cut mud	0.84
0.00	7 gas 8 oil 70 mud 15 w ater	0.00

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3771.00 ft	Diameter: 3.80 inches	Volume: 52.90 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:	58000.00 lb
			<u>Total Volume: 52.90 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3778.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	57.07 ft				
Tool Length:	86.07 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			3754.00	
Hydraulic tool	5.00			3759.00	
Jars	7.00			3766.00	
Safety Joint	2.00		Fluid	3768.00	
Top Packer	5.00			3773.00	
Packer	5.00			3778.00	29.00 Bottom Of Top Packer
Anchor	5.00			3783.00	
Change Over Sub	0.75			3783.75	
Drill Pipe	31.57			3815.32	
Change Over Sub	0.75			3816.07	
Anchor	14.00			3830.07	
Recorder	0.00	9119	Inside	3830.07	
Recorder	0.00	9139	Outside	3830.07	
Bullnose	5.00			3835.07	57.07 Anchor Tool

Total Tool Length: 86.07



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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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	200 feet of gas in the pipe	0.000
20.00	mud	0.281
60.00	very slightly oil cut mud	0.842
0.00	5 gas 5 oil 80 mud 10 w ater	0.000
60.00	very slightly oil cut mud	0.842
0.00	7 gas 8 oil 70 mud 15 w ater	0.000

Total Length: 140.00 ft Total Volume: 1.965 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

