



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Russell Oil, Inc
 Po Box 8050
 Edmond, Ok 73083
 ATTN: Kitt Noah

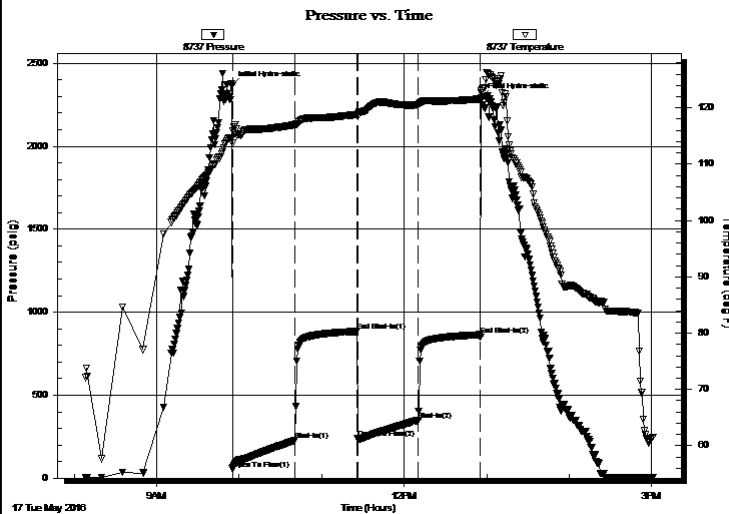
16 11s 32w Logan, Ks
HR Unit #1
 Job Ticket: 64573 **DST#: 5**
 Test Start: 2016.05.17 @ 08:08:15

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:55:00
 Time Test Ended: 15:01:00
 Interval: **4557.00 ft (KB) To 4604.00 ft (KB) (TVD)**
 Total Depth: 4604.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 75
 Reference Elevations: 3025.00 ft (KB)
 3020.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8737 Outside
 Press@RunDepth: 349.93 psig @ 4560.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.17 End Date: 2016.05.17 Last Calib.: 2016.05.17
 Start Time: 08:08:15 End Time: 15:01:00 Time On Btm: 2016.05.17 @ 09:54:45
 Time Off Btm: 2016.05.17 @ 12:56:00

TEST COMMENT: IF:BOB in 11 min.
 IS:Return blow built to 5"
 FF:BOB in 10 min.
 FS:Return blow built to 9"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2364.46	114.69	Initial Hydro-static
1	55.99	113.70	Open To Flow (1)
46	227.63	116.99	Shut-In(1)
91	884.70	118.82	End Shut-In(1)
92	241.71	118.43	Open To Flow (2)
136	349.93	120.53	Shut-In(2)
181	864.40	121.60	End Shut-In(2)
182	2295.16	122.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
59.00	gcom 5%g 5%o 90%m	0.29
59.00	gcmo 10%g 40%m 50%o	0.29
558.00	mcgo 10%m 30%g 60%o	7.83
154.00	gco 30%g 70%o	2.16
0.00	GIP= 744 ft	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcfd)



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 22 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3300.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
59.00	gcom 5%g 5%o 90%m	0.290
59.00	gcmo 10%g 40%m 50%o	0.290
558.00	mcgo 10%m 30%g 60%o	7.827
154.00	gco 30%g 70%o	2.160
0.00	GIP= 744 ft	0.000

Total Length: 830.00 ft Total Volume: 10.567 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: API= 21@ 70 corrected to 22@ 60

