

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050
Edmond OK 73083

ATTN: Kitt Noah

Dirks "A" #27-1

27-15s-35w Logan,KS

Start Date: 2013.11.01 @ 00:00:00

End Date:

Job Ticket #: 55807

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.07 @ 10:45:59

Russell Oil Inc.

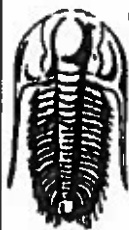
27-15s-35w Logan,KS

Dirks "A" #27-1

DST # 1

Mamm. Alt "A-B"

2013.11.01



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Job Ticket: 55807 DST#: 1
Test Start: 2013.11.01 @ 00:00:00

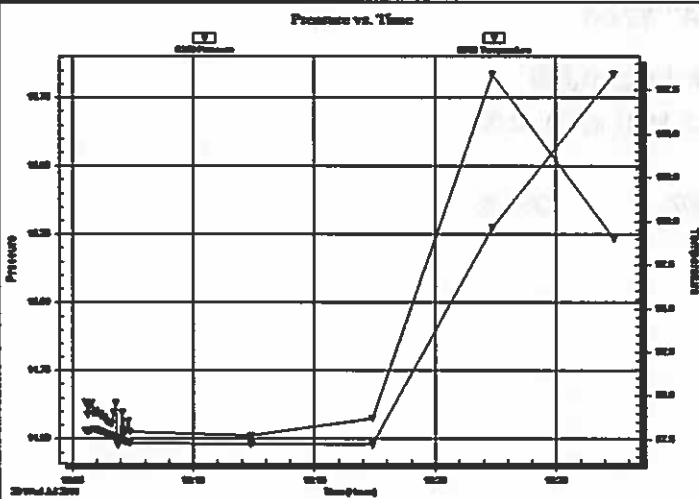
GENERAL INFORMATION:

Formation: Marm. Alt "A-B"		Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock:	ft (KB)	Tester: Royal Fisher
Time Tool Opened:		Unit No: 44
Time Test Ended:		
Interval: 4336.00 ft (KB) To 4369.00 ft (KB) (TVD)		Reference Elevations: 3131.00 ft (KB)
Total Depth: 4369.00 ft (KB) (TVD)		3123.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft

Serial #: 8319

Press@RunDepth:	psig @	ft (KB)	Capacity:	8000.00 psig
Start Date:	2011.07.20	End Date:	2011.07.20	Last Calib.: 1899.12.30
Start Time:	16:05:33	End Time:	16:27:23	Time On Btm:
				Time Off Btm:

TEST COMMENT: packer failure Recorders w ere not dow nloaded



PRESSURE SUMMARY

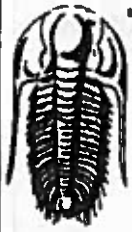
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



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TOOL DIAGRAM

Russell Oil Inc.
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Job Ticket: 55807
DST#: 1
Test Start: 2013.11.01 @ 00:00:00

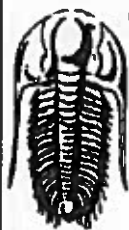
Tool Information

Drill Pipe:	Length: 4100.00 ft	Diameter: 3.80 inches	Volume: 57.51 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 58.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4336.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.00 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			4314.00	
Hydraulic tool	5.00			4319.00	
jars	5.00			4324.00	
safety Joint	3.00			4327.00	
Packer	5.00			4332.00	27.00 Bottom Of Top Packer
Packer	4.00			4336.00	
Stubb	1.00			4337.00	
Recorder	0.00	8360	Inside	4337.00	
Recorder	0.00	8353	Outside	4337.00	
Perforations	29.00			4366.00	
Bullnose	3.00			4369.00	33.00 Bottom Packers & Anchor

Total Tool Length: 60.00



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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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.35 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

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