



DRILL STEM TEST REPORT

Prepared For: **Kirby Krier Oil Inc.**

1043 North East 80th Road
Clafin ,Kansas 67525-9159

ATTN: clinto Musgrove

Jay Cat #1

123

Start Date: 2014.03.18 @ 00:00:00

End Date: 2014.03.18 @ 00:00:00

Job Ticket #: 19229 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2014.03.18 @ 23:00:24



DRILL STEM TEST REPORT

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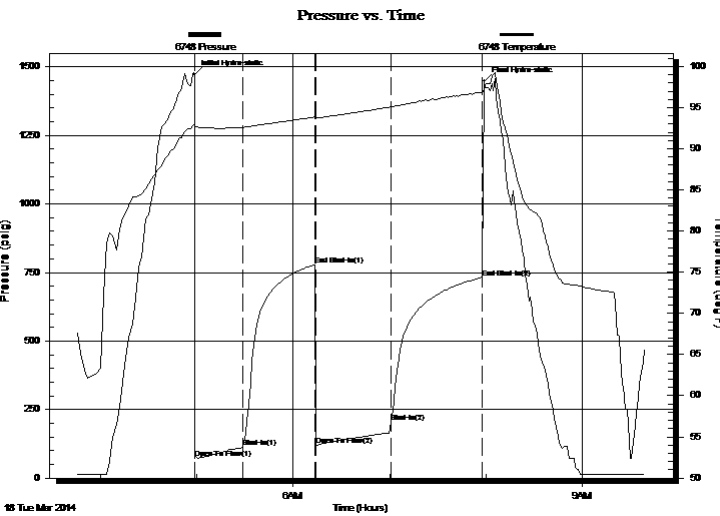
123
Jay Cat #1
 Job Ticket: 19229 **DST#: 1**
 Test Start: 2014.03.18 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "A to E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **2928.00 ft (KB) To 3006.00 ft (KB) (TVD)**
 Total Depth: 3006.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335
 Reference Elevations: 1767.00 ft (KB)
 1760.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6748 Outside
 Press@RunDepth: 732.12 psig @ 3003.08 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.18 End Date: 2014.03.18 Last Calib.: 2014.03.18
 Start Time: 03:45:00 End Time: 09:38:30 Time On Btm: 2014.03.18 @ 04:58:30
 Time Off Btm: 2014.03.18 @ 07:59:00

TEST COMMENT: 1st Opening 30 Minutes Fair blow built to the bottom of a 5 gallon bucket in 6 minutes
 1st Shut-In 45 Minutes-Weak surface blow for 3 minutes and died
 2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 minutes
 2nd Shut-In 60 Minutes-w eak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1472.37	92.93	Initial Hydro-static
1	74.01	92.50	Open To Flow (1)
30	111.08	92.60	Shut-In(1)
76	779.09	93.86	End Shut-In(1)
76	119.98	93.67	Open To Flow (2)
123	203.27	95.08	Shut-In(2)
179	732.12	96.75	End Shut-In(2)
181	1448.09	97.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	960 of gas in the pipe	0.00
100.00	Slightly oil cut mud	1.40
0.00	10% Oil 80%Mud 10%Water	0.00
60.00	Slightly oil and gas cut muddy w ater	0.84
0.00	16%Gas 4%Oil 30% Mud 50%Water	0.00
60.00	Muddy w ater w ith a slight trace of oil	0.84

Gas Rates

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



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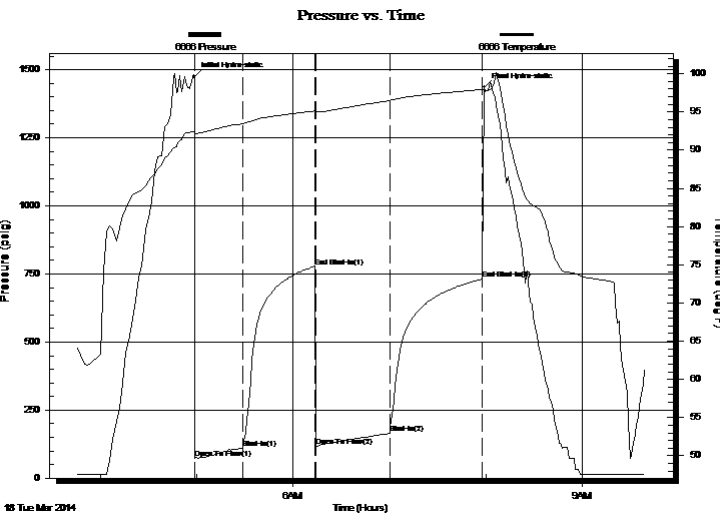
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Jay Cat #1
 Job Ticket: 19229 **DST#: 1**
 Test Start: 2014.03.18 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "A to E"**
 Deviated: No Whipstock: (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335
Interval: 2928.00 ft (KB) To 3006.00 ft (KB) (TVD) Reference Elevations: 1767.00 ft (KB)
 Total Depth: 3006.00 ft (KB) (TVD) 1760.00 ft (CF)
 Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 7.00 ft

Serial #: 6666 Inside
 Press@RunDepth: 730.74 psig @ 3002.08 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.18 End Date: 2014.03.18 Last Calib.: 2014.03.18
 Start Time: 03:45:00 End Time: 09:38:30 Time On Btm: 2014.03.18 @ 04:58:30
 Time Off Btm: 2014.03.18 @ 07:59:00

TEST COMMENT: 1st Opening 30 Minutes Fair blow built to the bottom of a 5 gallon bucket in 6 minutes
 1st Shut-In 45 Minutes-Weak surface blow for 3 minutes and died
 2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 minutes
 2nd Shut-In 60 Minutes-w eak surface blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1474.81	92.45	Initial Hydro-static
1	73.02	92.10	Open To Flow (1)
30	110.09	93.45	Shut-In(1)
76	777.59	95.12	End Shut-In(1)
76	118.22	94.96	Open To Flow (2)
122	164.66	96.49	Shut-In(2)
179	730.74	97.93	End Shut-In(2)
181	1435.13	97.67	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	960 of gas in the pipe	0.00
100.00	Slightly oil cut mud	1.40
0.00	10% Oil 80%Mud 10%Water	0.00
60.00	Slightly oil and gas cut muddy w ater	0.84
0.00	16%Gas 4%Oil 30% Mud 50%Water	0.00
60.00	Muddy w ater w ith a slight trace of oil	0.84

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



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TOOL DIAGRAM

Kirby Krier Oil Inc.
 1043 North East 80th Road
 Claflin , Kansas 67525-9159
 ATTN: clinto Musgrove

123
Jay Cat #1
 Job Ticket: 19229 **DST#: 1**
 Test Start: 2014.03.18 @ 00:00:00

Tool Information

Drill Pipe:	Length: 2938.00 ft	Diameter: 3.80 inches	Volume: 41.21 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: 41.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2928.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.08 ft			
Tool Length:	98.08 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut-In Tool	5.00			2913.00	
Hydraulic Tool	5.00			2918.00	
Top Packer	5.00			2923.00	
Packer	5.00			2928.00	20.00 Bottom Of Top Packer
Anchor	5.00			2933.00	
Change Over Sub	0.75			2933.75	
Drill Pipe	31.58			2965.33	
Change Over Sub	0.75			2966.08	
Anchor	35.00			3001.08	
Recorder	1.00	6666	Inside	3002.08	
Recorder	1.00	6748	Outside	3003.08	
Bull Plug	3.00			3006.08	78.08 Anchor Tool

Total Tool Length: 98.08



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FLUID SUMMARY

Kirby Krier Oil Inc.

123

1043 North East 80th Road
Clafin ,Kansas 67525-9159

Jay Cat #1

Job Ticket: 19229

DST#: 1

ATTN: clinto Musgrove

Test Start: 2014.03.18 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 3000.00 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
0.00	960 of gas in the pipe	0.000
100.00	Slightly oil cut mud	1.403
0.00	10% Oil 80%Mud 10%Water	0.000
60.00	Slightly oil and gas cut muddy w ater	0.842
0.00	16%Gas 4%Oil 30% Mud 50%Water	0.000
60.00	Muddy w ater w ith a slight trace of oil	0.842
0.00	20&Mud 80%Water trace of oil	0.000
0.00	Chlorides 56000	0.000

Total Length: 220.00 ft Total Volume: 3.087 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

