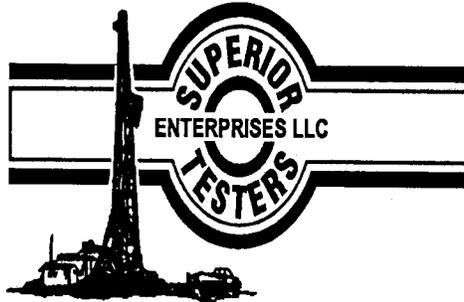


15-009-25615

23-16s-12w

AP# 15-009-25615-00-00



DRILL STEM TEST REPORT

Prepared For: **Krier Kirby Oil INC**

1043 NE 80th Rd Claflin KS 67525+9159

ATTN: Jim Musgrove

23-16-12 Barton

Minnie #9

Start Date: 2011.10.02 @ 08:55:00

End Date: 2011.10.02 @ 15:02:00

Job Ticket #: 18636 DST #: 1

Krier Kirby Oil INC

Minnie #9

23-16-12 Barton

DST # 1

2011.10.02

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

Printed: 2011.10.03 @ 15:32:15



DRILL STEM TEST REPORT

Krier Kirby Oil INC
 1043 NE 80th Rd Claflin KS 67525+9159
 ATTN: Jim Musgrove

Minnie #9
23-16-12 Barton
 Job Ticket: 18636 DST#: 1
 Test Start: 2011.10.02 @ 08:55:00

GENERAL INFORMATION:

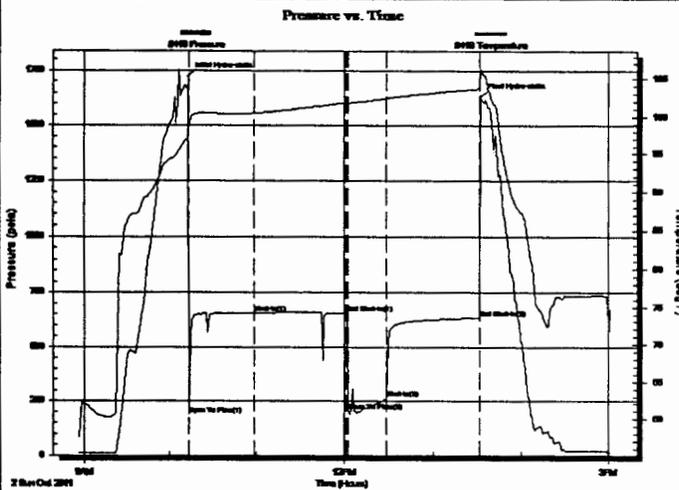
Formation:
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:13:30
 Time Test Ended: 15:02:00
 Interval: 3331.00 ft (KB) To 3357.00 ft (KB) (TVD)
 Total Depth: 3357.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 33220-GB-60
 Reference Elevations: 1918.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8419

Inside

Press@RunDepth: 263.78 psia @ 3353.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.10.02 End Date: 2011.10.02 Last Calib.: 2011.10.02
 Start Time: 08:56:00 End Time: 15:02:00 Time On Btm: 2011.10.02 @ 10:13:00
 Time Off Btm: 2011.10.02 @ 13:32:30

TEST COMMENT: 1st Opening 45 Minutes-Weak blow built 6 inches into water died off
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 1 inch died off flushed tool good surge
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1721.86	97.04	Initial Hydro-static
1	188.06	98.68	Open To Flow (1)
46	655.90	100.45	Shut-In(1)
108	656.55	101.84	End Shut-In(1)
110	203.33	101.80	Open To Flow (2)
136	263.78	102.41	Shut-In(2)
199	633.37	103.75	End Shut-In(2)
200	1633.58	106.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	water cut muddy oil 20%oil 30%mud 50%v	0.84
60.00	clean Gassy oil 5%gas 55%oil 40%mud	0.84
60.00	clean gassy oil 10%gas 50%oil 40%mud	0.84
300.00	muddy oil 20%gas 40%oil 40%mud	4.21
0.00	420 gas in pipe	0.00
0.00	chlorides 48,000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Krier Kirby Oil INC
 1043 NE 80th Rd Claflin KS 67525+9159
 ATTN: Jim Musgrove

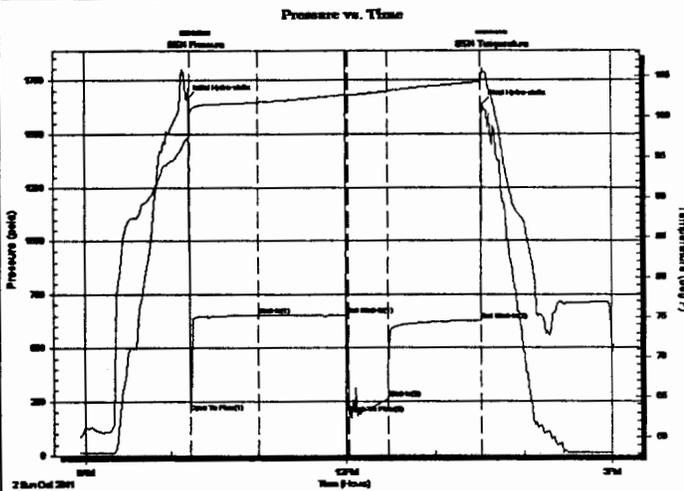
Minnie #9
23-16-12 Barton
 Job Ticket: 18636 DST#: 1
 Test Start: 2011.10.02 @ 08:55:00

GENERAL INFORMATION:

Formation:
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:13:30
 Time Test Ended: 15:02:00
 Interval: 3331.00 ft (KB) To 3357.00 ft (KB) (TVD)
 Total Depth: 3357.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 33220-GB-60
 Reference Elevations: 1918.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8524 **Outside**
 Press@RunDepth: 628.58 psia @ 3354.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.10.02 End Date: 2011.10.02 Last Calib.: 2011.10.02
 Start Time: 08:56:00 End Time: 15:01:30 Time On Btm: 2011.10.02 @ 10:12:00
 Time Off Btm: 2011.10.02 @ 13:32:00

TEST COMMENT: 1st Opening 45 Minutes-Weak blow built 6 inches into water died off
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 1 inch died off flushed tool good surge
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1661.45	97.19	Initial Hydro-static
2	197.74	100.48	Open To Flow (1)
49	651.98	101.80	Shut-In(1)
109	651.99	102.73	End Shut-In(1)
110	190.70	102.69	Open To Flow (2)
136	259.68	103.13	Shut-In(2)
199	628.58	104.27	End Shut-In(2)
200	1635.06	105.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	water cut muddy oil 20%oil 30%mud 50%v0.84	
60.00	clean Gassy oil 5%gas 55%oil 40%mud 0.84	
60.00	clean gassy oil 10%gas 50%oil 40%mud0.84	
300.00	muddy oil 20%gas 40%oil 40%mud	4.21
0.00	420 gas in pipe	0.00
0.00	chlorides 48,000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Krier Kirby Oil INC
 1043 NE 80th Rd Claflin KS 67525+9159
 ATTN: Jim Musgrove

Minnie #9
23-16-12 Barton
 Job Ticket: 18636 **DST#: 1**
 Test Start: 2011.10.02 @ 08:55:00

Tool Information

Drill Pipe:	Length: 3317.00 ft	Diameter: 3.80 inches	Volume: 46.53 bbl	Tool Weight:	1000.00 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:	55000.00 lb
			<u>Total Volume: 46.53 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3331.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	46.00 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-InTool	5.00		Inside	3316.00	
Hydrolic Tool	5.00			3321.00	
Packer	5.00			3326.00	20.00 Bottom Of Top Packer
Packer	5.00			3331.00	
Anchor	21.00			3352.00	
Recorder	1.00	8419	Inside	3353.00	
Recorder	1.00	8524	Outside	3354.00	
Bullnose	3.00			3357.00	26.00 Bottom Packers & Anchor

Total Tool Length: 46.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Krier Kirby Oil INC
 1043 NE 80th Rd Claflin KS 67525+9159
 ATTN: Jim Musgrove

Minnie #9
23-16-12 Barton
 Job Ticket: 18636 DST#: 1
 Test Start: 2011.10.02 @ 08:55:00

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: 0.10 ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	water cut muddy oil 20%oil 30%mud 50%wate	0.842
60.00	clean Gassy oil 5%gas 55%oil 40%mud	0.842
60.00	clean gassy oil 10%gas 50%oil 40%mud	0.842
300.00	muddy oil 20%gas 40%oil 40%mud	4.208
0.00	420 gas in pipe	0.000
0.00	chlorides 48,000	0.000
0.00	resisitvity .1 @86 degrees	0.000

Total Length: 480.00 ft Total Volume: 6.734 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: chlorides 48,000

Serial #: 8419

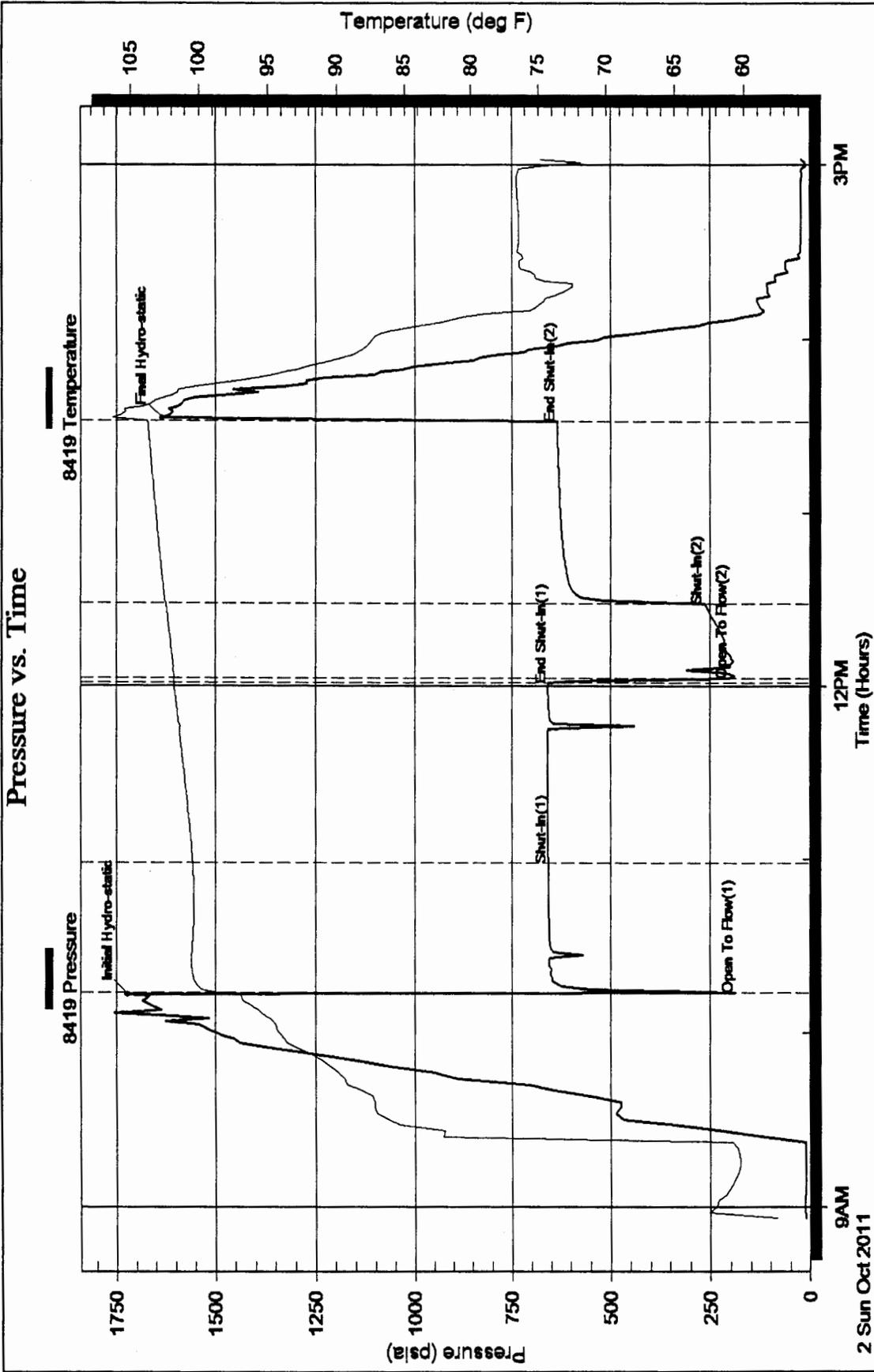
Inside

Krier Kirby Oil INC

23-16-12 Barton

DST Test Number: 1

Pressure vs. Time



Printed: 2011.10.03 @ 15:32:16

Ref. No: 18636

Superior Testers Enterprises LLC

Serial #: 8524

Outside Krier Kirby Oil INC

23-16-12 Barton

DST Test Number: 1

Pressure vs. Time

