



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1169562  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1169562

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Krier, Kirby Oil, Inc.
Well Name	B. KRIER 1
Doc ID	1169562

All Electric Logs Run

BOREHOLE COMPENSATED SONIC LOG
DUAL INDUCTION
DUAL COMPENSATED POROSITY
MICRORESISITIVITY

Form	ACO1 - Well Completion
Operator	Krier, Kirby Oil, Inc.
Well Name	B. KRIER 1
Doc ID	1169562

Tops

Name	Top	Datum
ANHYDRITE	813	+1086
BASE ANHYDRITE	841	+1058
HEEBNER	2976	-1077
TORONTO	2994	-1095
DOUGLAS	3008	-1109
BROWN LIME	3063	-1164
LANSING	3074	-1175
BASE KANSAS CITY	3324	-1425
ARBUCKLE	3358	-1459
REAGAN SAND	3393	-1494
QUARTZITE	3433	-1534



# QUALITY OILWELL CEMENTING, INC.

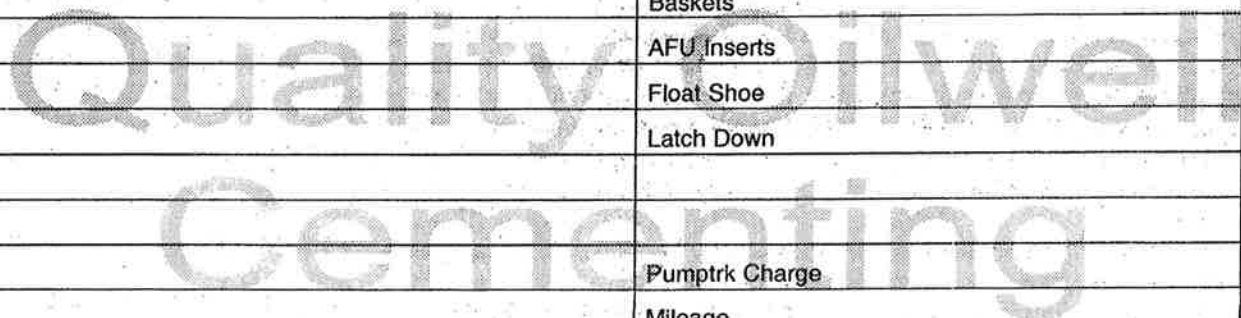
Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7605

Date	11-12-13	Sec.	4	Twp.	16	Range	12	County	Barton	State	KS	On Location		Finish	12:30 AM										
Lease	B. Krier							Well No.	1	Location Kriker 3 N to 220 W E															
Contractor	Royal @ 2							Owner Minto																	
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.																	
Hole Size	12 1/4			T.D.	433			Charge To Krier oil																	
Csg.	8 5/8			Depth																					
Tbg. Size				Depth																					
Tool				Depth	The above was done to satisfaction and supervision of owner agent or contractor.																				
Cement Left in Csg.	20ft			Shoe Joint	20ft			Cement Amount Ordered 200com 390cc																	
Meas Line				Displace	26.29 BBL			280 gal																	
<b>EQUIPMENT</b>													Common												
Pumptrk	5	No.		Cementer/Helper	Matt			Poz. Mix																	
Bulktrk	8	No.		Driver	Lannie			Gel.																	
Bulktrk	DU	No.		Driver	Chad			Calcium																	
<b>JOB SERVICES &amp; REMARKS</b>													Hulls												
Remarks:												Salt													
Rat Hole												Flowseal													
Mouse Hole												Kol-Seal													
Centralizers												Mud CLR 48													
Baskets												CFL-117 or CD110 CAF 38													
D/V or Port Collar												Sand													
Cement did Circulate													Handling												
													Mileage												
													<b>FLOAT EQUIPMENT</b>												
													Guide Shoe												
Centralizer																									
Baskets																									
AFU Inserts																									
Float Shoe																									
Latch Down																									
Pumptrk Charge																									
Mileage																									
											Tax														
											Discount														
											Total Charge														
Signature <i>Wong Budy</i>																									



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7565

Date	11-19-13	Sec.	4	Twp.	16	Range	12	County	Barton	State	Ks	On Location		Finish	3:00 PM
Lease								Well No.		Location					
B Krier								#1		Beaver, Ks - 3N to 220th Rd, 1/4E					
Contractor								Owner		To Quality Oilwell Cementing, Inc.					
Roual 2								M. Kato		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job								Charge To		Kirby Krier Oil					
Longstanding															
Hole Size								T.D.		Csg.					
7 7/8"								3490'		5 1/2" Now 15.5'					
Csg.								Depth		Tbg. Size					
5 1/2" Now 15.5'								3424.79'		Depth					
Tbg. Size								Depth		City					
										State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
42.20'								42.20'		180 sx Common 10% Salt 5%					
Meas Line								Displace		Gilsonite - 500 gal Mud Clear 48					
								80 1/2 Bcs							
<b>EQUIPMENT</b>												Common			
Pumptrk		No.	Cementer		Helper		Lionie W.		Poz. Mix						
Bulktrk		No.	Driver		Driver		Douy		Gel.						
Bulktrk		No.	Driver		Driver		Rick		Calcium						
<b>JOB SERVICES &amp; REMARKS</b>												Hulls			
Remarks: Circulate 10 min before												Salt			
Rat Hole dropping ball												Flowseal			
Mouse Hole												Kol-Seal			
Centralizers 1-9												Mud CLR 48			
Baskets 2, 5 pipe on bottom												CFL-117 or CD110 CAF 38			
D/V or Port Collar break Circulation pump												Sand			
500 gal mud Clear 48 plug Bathole												Handling			
w/ 30 sx plug manhole w/ 15 sx												Mileage			
Hook to Casag 7 mix 135 sx Cement												<b>FLOAT EQUIPMENT</b>			
shut down. wash pump + lines Release												Guide Shoe			
plug + Displaced with 80 1/2 Bcs of												Centralizer 9 turbo's			
cbrator Release + held												Baskets 2			
Lift Pressure 1000 #												AFU Inserts			
Land plug to 1600 #												Float Shoe			
												Latch Down 1			
												1-Triplex shoe			
												Pumptrk Charge			
												Mileage			
Signature												Tax			
[Signature]												Discount			
												Total Charge			



## DRILL STEM TEST REPORT

Prepared For: **Kirby Krier Oil Inc**

1043 NE 80th Rd  
Clafin, KS 67525

ATTN: Kurt Talbott

### **B. Krier #1**

#### **4-16s-12w Barton,KS**

Start Date: 2013.11.16 @ 13:33:00

End Date: 2013.11.16 @ 19:28:45

Job Ticket #: 55353                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.21 @ 10:27:08





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55353

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2013.11.16 @ 13:33:00

## GENERAL INFORMATION:

Formation: **LKC A & B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:41:30

Time Test Ended: 19:28:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Tim Phillips

Unit No: 53

**Interval: 3069.00 ft (KB) To 3120.00 ft (KB) (TVD)**

Reference Elevations: 1899.00 ft (KB)

Total Depth: 3120.00 ft (KB) (TVD)

1892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 6799 Inside**

Press@RunDepth: 15.58 psig @ 3070.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.16

End Date:

2013.11.16

Last Calib.: 2013.11.15

Start Time: 13:33:05

End Time:

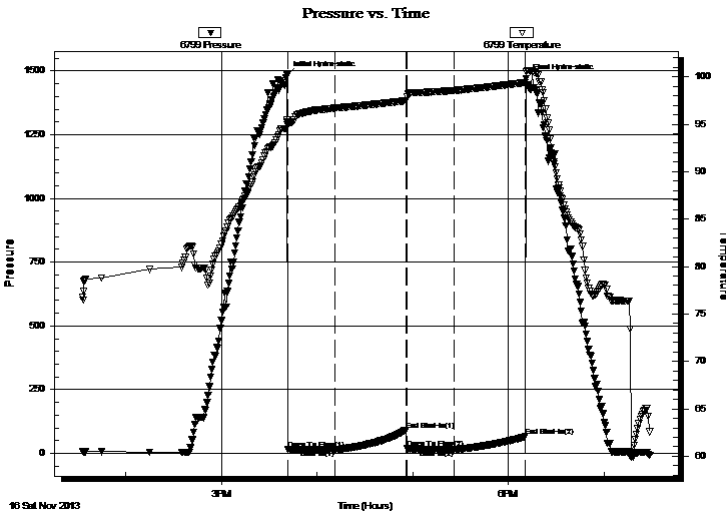
19:28:44

Time On Btm: 2013.11.16 @ 15:41:00

Time Off Btm: 2013.11.16 @ 18:11:15

**TEST COMMENT:** IFP-30-Weak blow built to 3 1/2"  
ISI-45-Dead no blow back  
FF-30-Weak blow , built to 2"  
FSI-45-Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1483.45	95.21	Initial Hydro-static
1	15.04	94.89	Open To Flow (1)
30	14.79	96.69	Shut-In(1)
75	91.90	97.48	End Shut-In(1)
76	19.53	97.91	Open To Flow (2)
105	15.58	98.55	Shut-In(2)
150	66.30	99.39	End Shut-In(2)
151	1469.86	100.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
12.00	Mud	0.17
0.00	GIP 57 ft	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Kirby Krier Oil Inc  
 1043 NE 80th Rd  
 Claflin, KS 67525  
 ATTN: Kurt Talbott

**4-16s-12w Barton, KS**

**B. Krier #1**

Job Ticket: 55353

**DST#: 1**

Test Start: 2013.11.16 @ 13:33:00

### GENERAL INFORMATION:

Formation: **LKC A & B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:41:30

Time Test Ended: 19:28:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Tim Phillips

Unit No: 53

**Interval: 3069.00 ft (KB) To 3120.00 ft (KB) (TVD)**

Total Depth: 3120.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1899.00 ft (KB)

1892.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 8655 Outside**

Press@RunDepth: psig @ 3070.00 ft (KB)

Start Date: 2013.11.16

End Date: 2013.11.16

Start Time: 13:33:43

End Time: 19:28:07

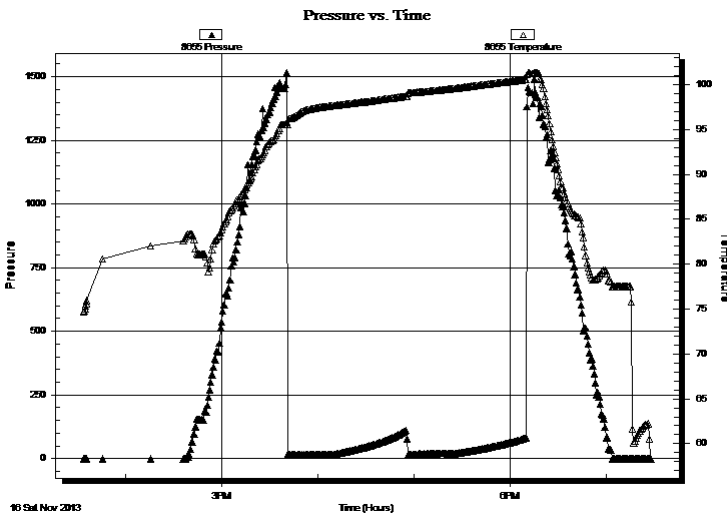
Capacity: 8000.00 psig

Last Calib.: 2013.11.15

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IFP-30-Weak blow built to 3 1/2"  
 ISI-45-Dead no blow back  
 FF-30-Weak blow , built to 2"  
 FSI-45-Dead no blow back



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
12.00	Mud	0.17
0.00	GIP 57 ft	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55353

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2013.11.16 @ 13:33:00

## Tool Information

Drill Pipe:	Length: 3068.00 ft	Diameter: 3.80 inches	Volume: 43.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 47000.00 lb
			<u>Total Volume: 43.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3069.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3049.00	
Shut In Tool	5.00			3054.00	
Hydraulic tool	5.00			3059.00	
Packer	5.00			3064.00	21.00 Bottom Of Top Packer
Packer	5.00			3069.00	
Stubb	1.00			3070.00	
Recorder	0.00	6799	Inside	3070.00	
Recorder	0.00	8655	Outside	3070.00	
Perforations	14.00			3084.00	
Change Over Sub	1.00			3085.00	
Drill Pipe	31.00			3116.00	
Bullnose	3.00			3119.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55353

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2013.11.16 @ 13:33:00

### 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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
12.00	Mud	0.168
0.00	GIP 57 ft	0.000

Total Length: 12.00 ft      Total Volume: 0.168 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

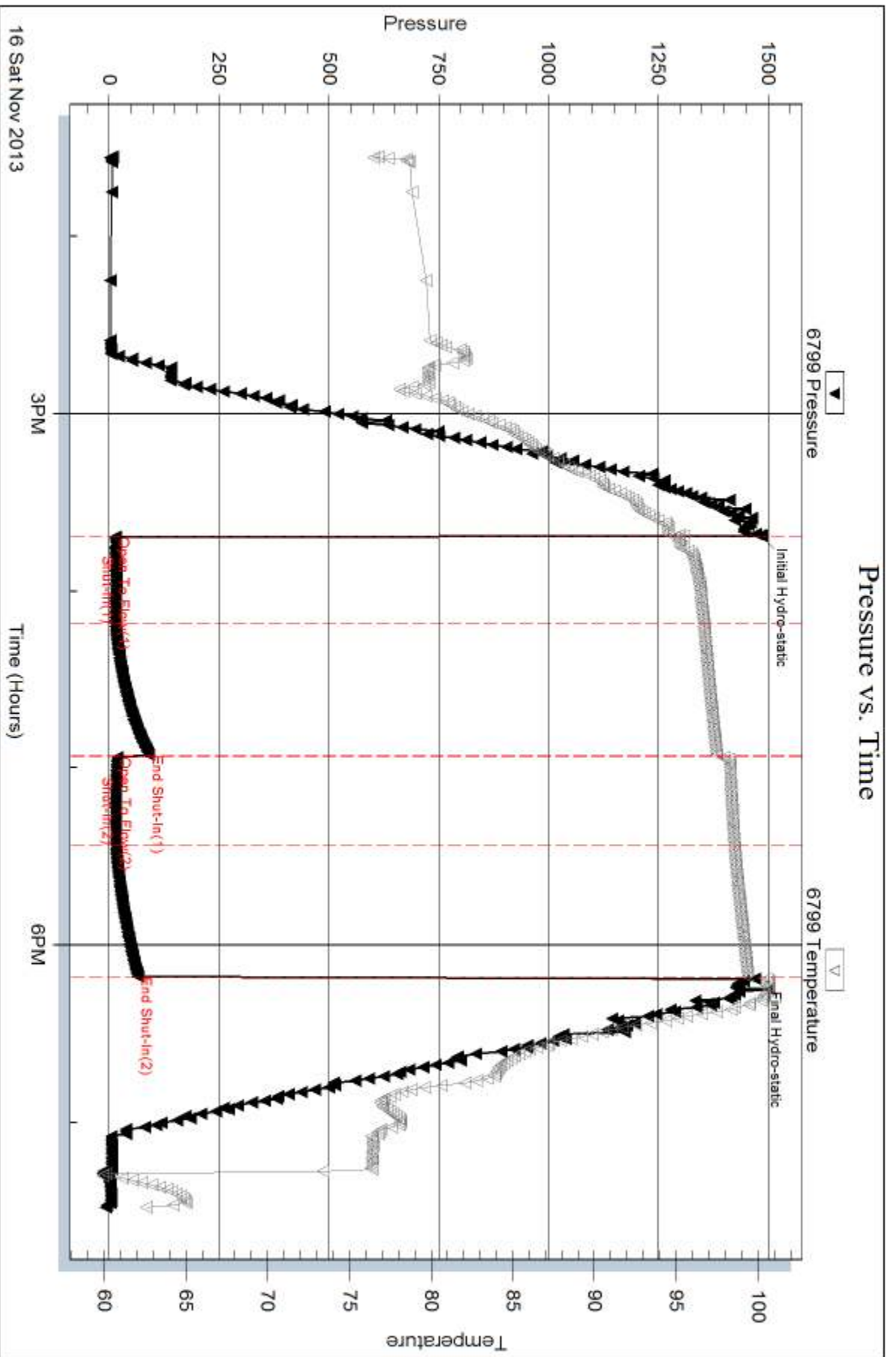
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

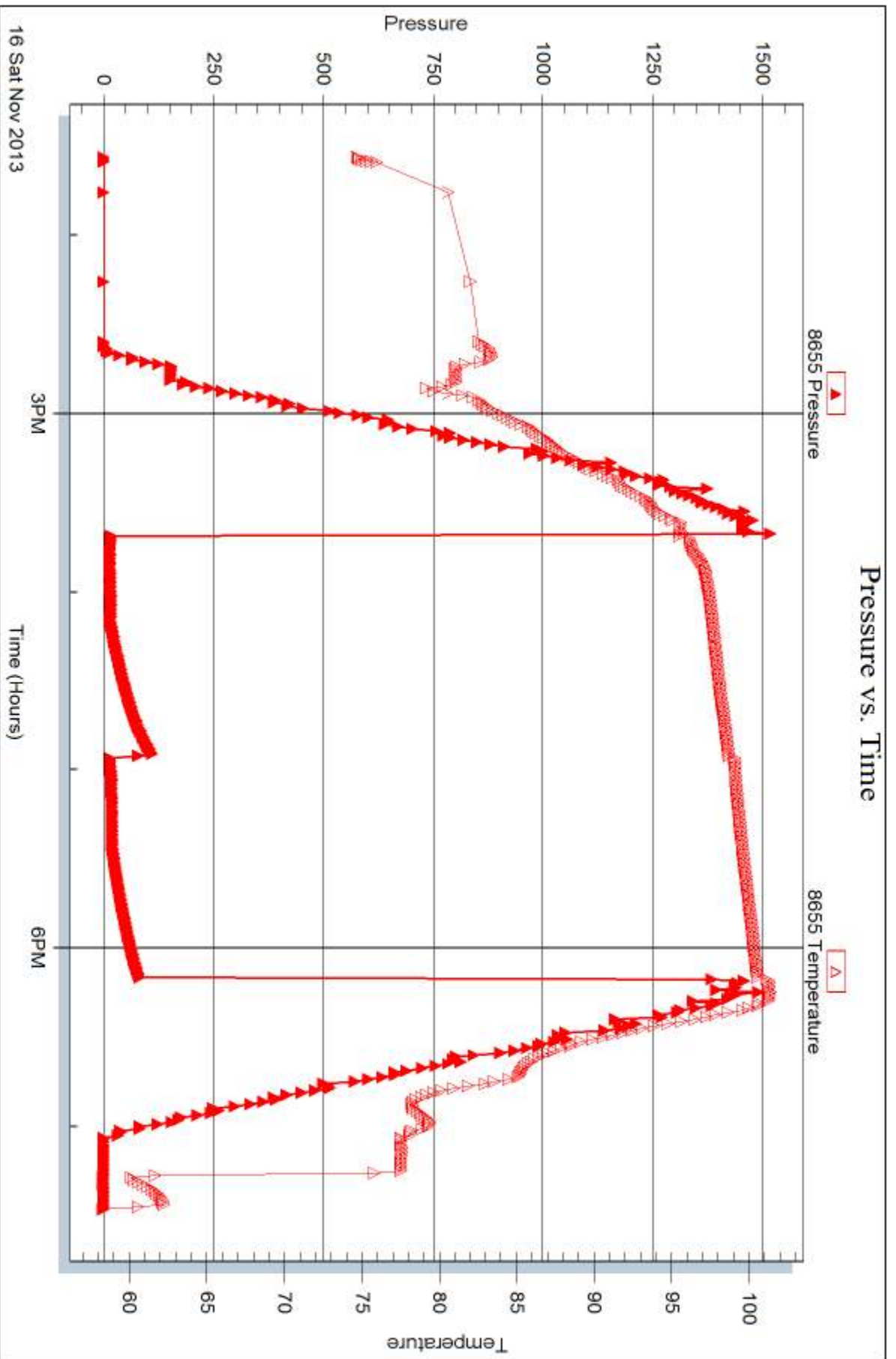


Serial #: 8655

Outside Kirby Krier Oil Inc

B. Krier #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55353

Printed: 2013.11.21 @ 10:27:10



## DRILL STEM TEST REPORT

Prepared For: **Kirby Krier Oil Inc**

1043 NE 80th Rd  
Claffin, KS 67525

ATTN: Kurt Talbott

### **B. Krier #1**

#### **4-16s-12w Barton,KS**

Start Date: 2013.11.17 @ 12:49:41

End Date: 2013.11.17 @ 18:04:26

Job Ticket #: 55354                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.21 @ 10:25:51



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55354

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2013.11.17 @ 12:49:41

## GENERAL INFORMATION:

Formation: **LKC H-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:41:41

Time Test Ended: 18:04:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Tim Phillips

Unit No: 53

**Interval: 3202.00 ft (KB) To 3270.00 ft (KB) (TVD)**

Reference Elevations: 1899.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

1892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 6799**

**Inside**

Press@RunDepth: 17.58 psig @ 3203.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.17

End Date:

2013.11.17

Last Calib.:

2013.11.16

Start Time: 12:49:46

End Time:

18:04:25

Time On Btm:

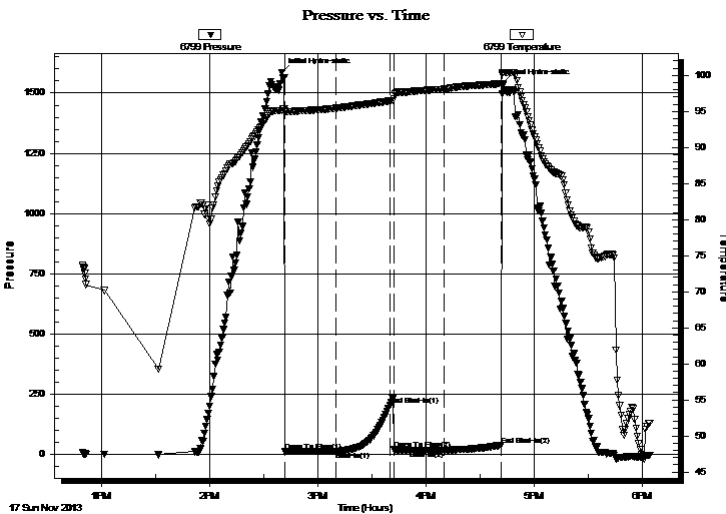
2013.11.17 @ 14:39:56

Time Off Btm:

2013.11.17 @ 16:42:26

**TEST COMMENT:** IFP-30-Weak surface blow , Built to 1/2" Died back to nothing  
ISI-30-Dead no blow back  
FF-30-Dead no blow  
FSI-30-dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1585.82	95.12	Initial Hydro-static
2	13.92	95.02	Open To Flow (1)
31	14.61	95.44	Shut-In(1)
60	206.38	96.45	End Shut-In(1)
63	22.19	96.80	Open To Flow (2)
90	17.58	98.07	Shut-In(2)
122	39.92	98.85	End Shut-In(2)
123	1538.77	100.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55354

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2013.11.17 @ 12:49:41

## Tool Information

Drill Pipe:	Length: 3261.00 ft	Diameter: 3.80 inches	Volume: 45.74 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 45.74 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	80.00 ft			String Weight: Initial	43000.00 lb
Depth to Top Packer:	3202.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	67.00 ft				
Tool Length:	88.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3182.00	
Shut In Tool	5.00			3187.00	
Hydraulic tool	5.00			3192.00	
Packer	5.00			3197.00	21.00 Bottom Of Top Packer
Packer	5.00			3202.00	
Stubb	1.00			3203.00	
Recorder	0.00	6799	Inside	3203.00	
Recorder	0.00	8648	Outside	3203.00	
Perforations	31.00			3234.00	
Change Over Sub	1.00			3235.00	
Drill Pipe	31.00			3266.00	
Bullnose	3.00			3269.00	67.00 Bottom Packers & Anchor

**Total Tool Length: 88.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55354

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2013.11.17 @ 12:49:41

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

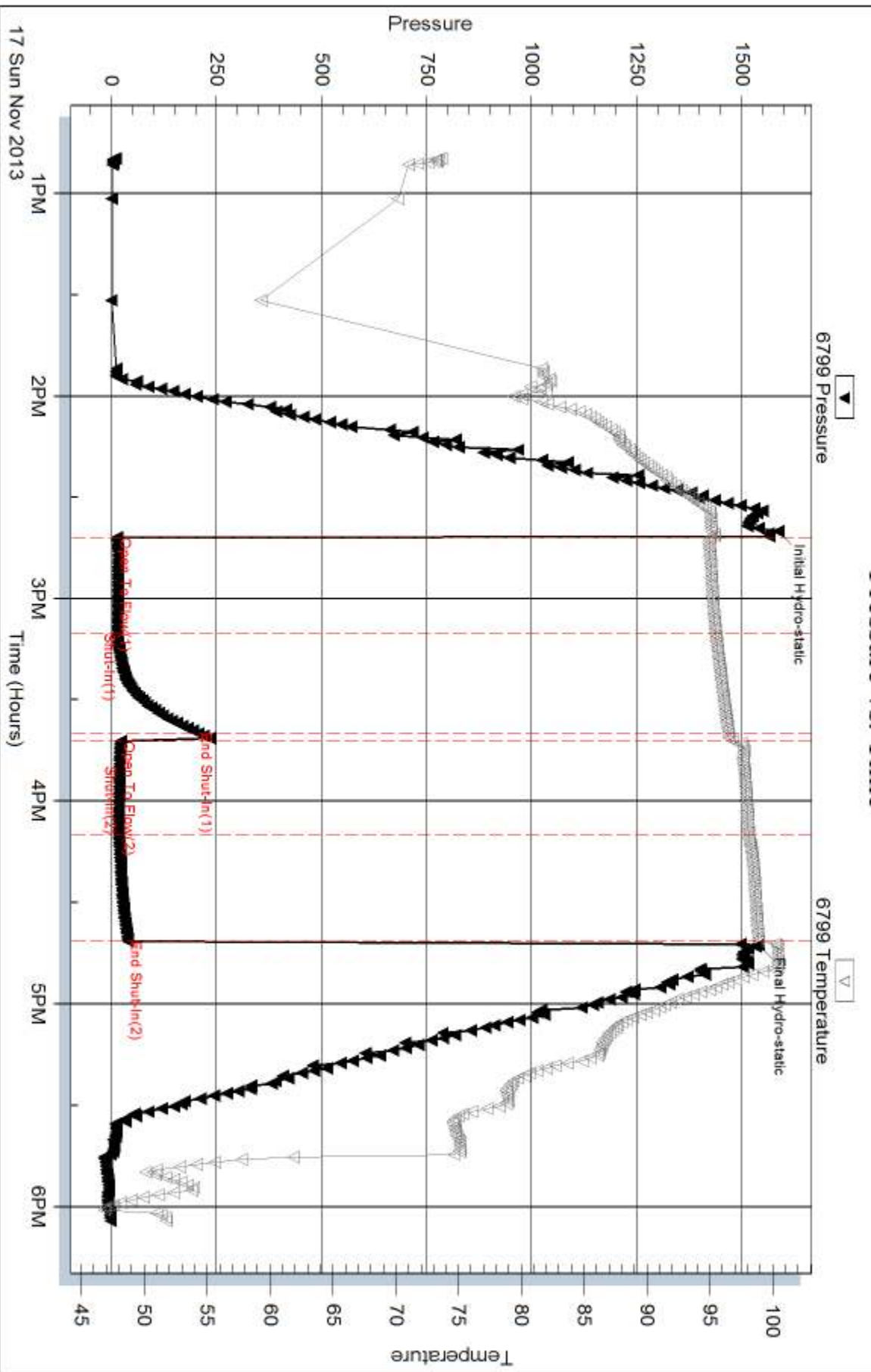
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

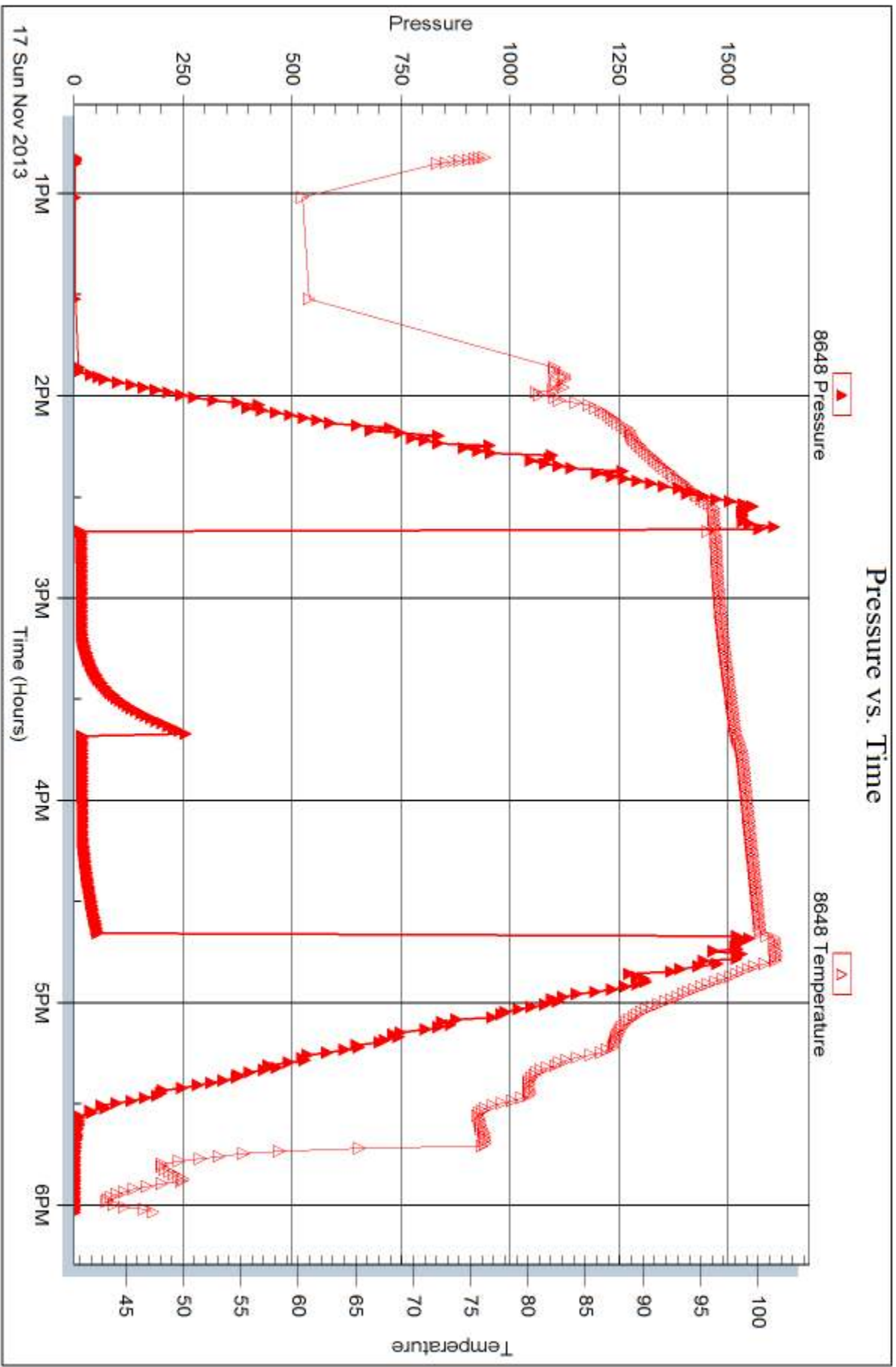


Serial #: 8648

Outside Kirby Krier Oil Inc

B. Krier #1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Kirby Krier Oil Inc**

1043 NE 80th Rd  
Claffin, KS 67525

ATTN: Kurt Talbott

### **B. Krier #1**

#### **4-16s-12w Barton,KS**

Start Date: 2013.11.18 @ 07:49:45

End Date: 2013.11.18 @ 14:55:15

Job Ticket #: 55355                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.21 @ 10:24:06



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55355

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2013.11.18 @ 07:49:45

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:18:15

Time Test Ended: 14:55:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Tim Phillips

Unit No: 53

**Interval: 3316.00 ft (KB) To 3375.00 ft (KB) (TVD)**

Reference Elevations: 1899.00 ft (KB)

Total Depth: 3375.00 ft (KB) (TVD)

1892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 6799 Inside**

Press@RunDepth: 714.28 psig @ 3317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.18

End Date:

2013.11.18

Last Calib.:

2013.11.17

Start Time: 07:49:50

End Time:

14:55:14

Time On Btm:

2013.11.18 @ 09:17:00

Time Off Btm:

2013.11.18 @ 11:53:30

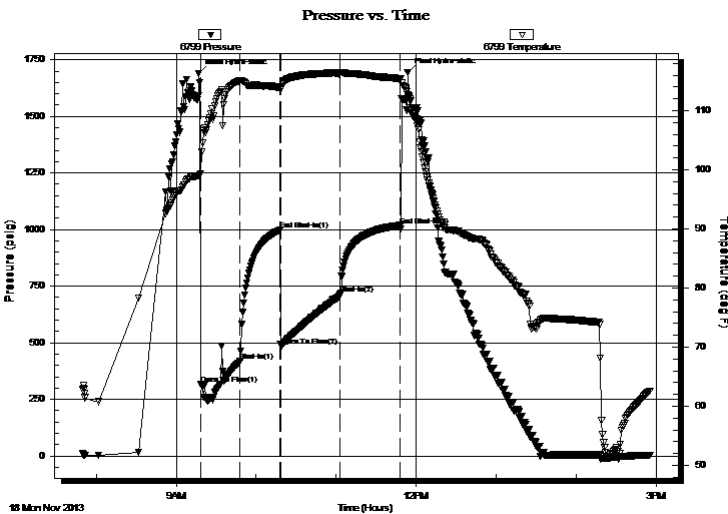
**TEST COMMENT:** IFP-30-Weak blow built to 2" died back, flushed tool built to 1/4" died back

ISI-30-Dead no blow back

FF-45- BOB in 45 sec.

FSI-45-Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.47	99.04	Initial Hydro-static
2	316.45	99.30	Open To Flow (1)
31	417.82	115.04	Shut-In(1)
61	996.88	113.92	End Shut-In(1)
62	486.68	113.71	Open To Flow (2)
106	714.28	116.42	Shut-In(2)
151	1018.71	115.39	End Shut-In(2)
157	1694.15	112.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1045.00	GOWCM 20% Gas, 40% Oil, 30% W, 5% M	14.66
630.00	WCM 5%O, 90% W, 5%M	8.84
0.00	GIP 57 ft	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55355

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2013.11.18 @ 07:49:45

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:18:15

Time Test Ended: 14:55:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Tim Phillips

Unit No: 53

**Interval: 3316.00 ft (KB) To 3375.00 ft (KB) (TVD)**

Total Depth: 3375.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1899.00 ft (KB)

1892.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 8655 Outside**

Press@RunDepth: psig @ 3317.00 ft (KB)

Start Date: 2013.11.18

End Date: 2013.11.18

Start Time: 07:49:14

End Time: 14:52:53

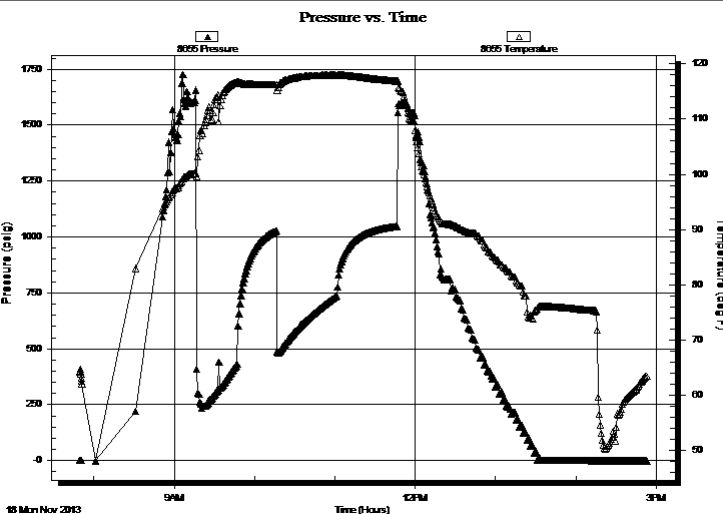
Capacity: 8000.00 psig

Last Calib.: 2013.11.17

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IFP-30-Weak blow built to 2" died back, flushed tool built to 1/4" died back  
ISI-30-Dead no blow back  
FF-45- BOB in 45 sec.  
FSI-45-Dead no blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
1045.00	GOWCM 20% Gas, 40% Oil, 30% W, 5% M	14.66
630.00	WCM 5%O, 90% W, 5%M	8.84
0.00	GIP 57 ft	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55355

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2013.11.18 @ 07:49:45

## Tool Information

Drill Pipe:	Length: 3317.00 ft	Diameter: 3.80 inches	Volume: 46.53 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 46.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3316.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3296.00	
Shut In Tool	5.00			3301.00	
Hydraulic tool	5.00			3306.00	
Packer	5.00			3311.00	21.00 Bottom Of Top Packer
Packer	5.00			3316.00	
Stubb	1.00			3317.00	
Recorder	0.00	6799	Inside	3317.00	
Recorder	0.00	8655	Outside	3317.00	
Perforations	24.00			3341.00	
Change Over Sub	1.00			3342.00	
Drill Pipe	31.00			3373.00	
Bullnose	3.00			3376.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55355

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2013.11.18 @ 07:49:45

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1045.00	GOWCM 20% Gas, 40% Oil, 30% W, 5% M	14.659
630.00	WCM 5%O, 90% W, 5%M	8.837
0.00	GIP 57 ft	0.000

Total Length: 1675.00 ft      Total Volume: 23.496 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6799

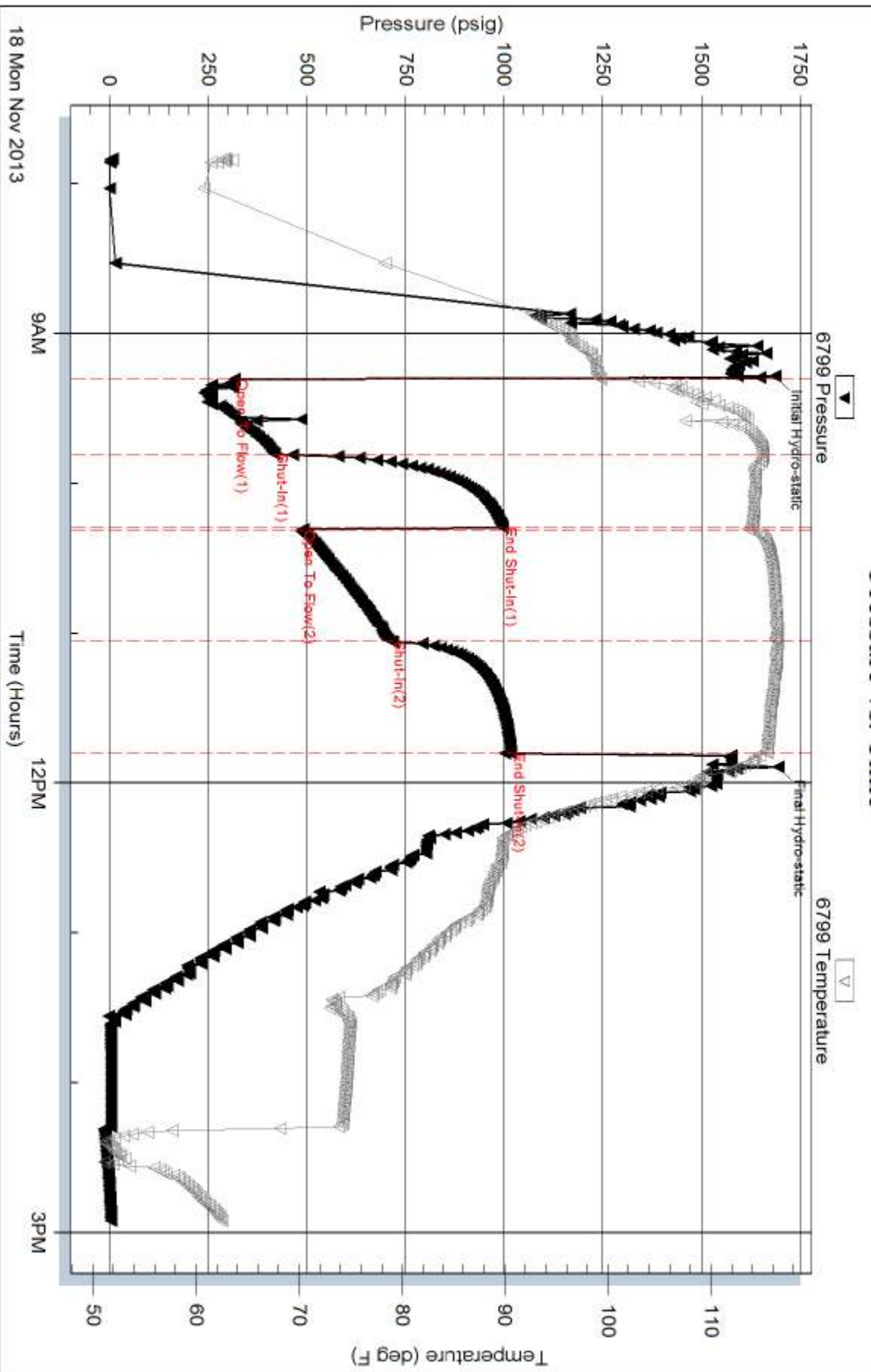
Inside

Kirby Krier Oil Inc

B. Krier #1

DST Test Number: 3

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 55355

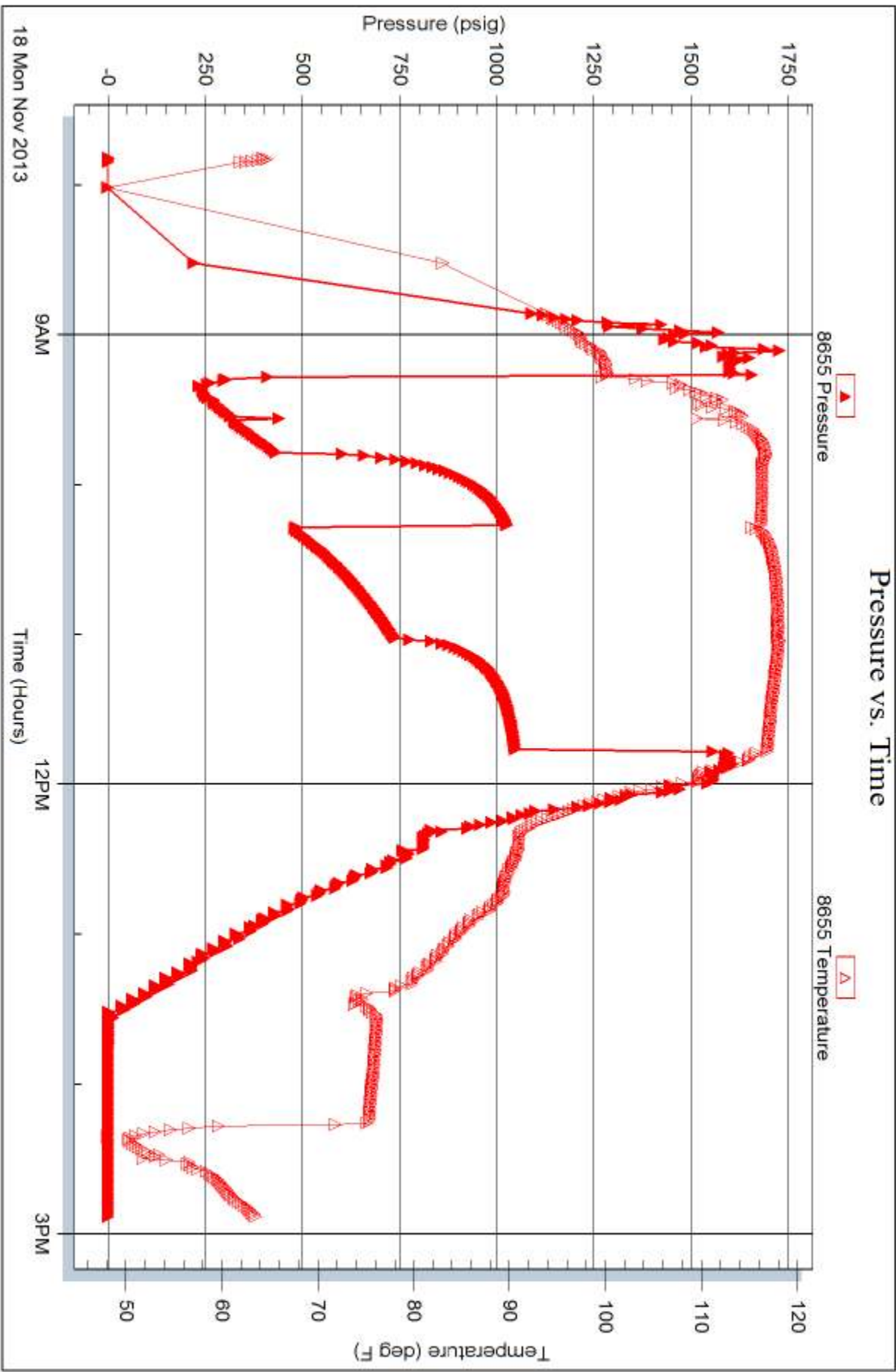
Printed: 2013.11.21 @ 10:24:08

Serial #: 8655

Outside Kirby Krier Oil Inc

B. Krier #1

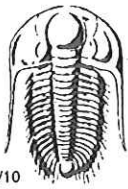
DST Test Number: 3



Tribble Testing, Inc

Ref. No: 55355

Printed: 2013.11.21 @ 10:24:08



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55353

4/10

Well Name & No. B. Keizer #1 Test No. 1 Date 11/16/2013  
 Company Kieby Keizer Oil Inc. Elevation 1899 KB 1892 GL  
 Address 1043 NE 80th Rd Claflin, KS. 67525  
 Co. Rep / Geo. Kurt Talbot Rig Royal Rig #1  
 Location: Sec. 4 Twp. 16S Rge. 12W Co. BARTON State KS

Interval Tested 3069-3120 Zone Tested LANSING A & B  
 Anchor Length 51 Drill Pipe Run 3119 3068 Mud Wt. 8.8  
 Top Packer Depth 3116 3065 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 3120 3069 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3120 Chlorides 5000 ppm System LCM 2#

Blow Description IFP-30-Weak blow built to 3.5 in  
ISI-45-DEAD NO blow back  
FF-30-Weak blow built to 2 in.  
FSI-45-DEAD NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>12</u>	<u>Mud</u>			<u>100</u>	
<u>Q</u>	<u>57<sup>ft</sup> GIP</u>				

Rec Total 12 BHT 100 Gravity      API RW      @      F Chlorides      ppm

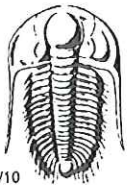
(A) Initial Hydrostatic 1483  Test 1150 T-On Location 1213  
 (B) First Initial Flow 15  Jars      T-Started 1333  
 (C) First Final Flow 14  Safety Joint      T-Open 1541  
 (D) Initial Shut-In 91  Circ Sub      T-Pulled 1811  
 (E) Second Initial Flow 19  Hourly Standby      T-Out 1929  
 (F) Second Final Flow 15  Mileage 108 R/T 167.40  
 (G) Final Shut-In 66  Sampler       
 (H) Final Hydrostatic 1469  Straddle       
 Shale Packer       Ruined Shale Packer       
 Extra Packer       Ruined Packer       
 Extra Recorder       Extra Copies       
 Initial Open 30  Day Standby      Sub Total 0  
 Initial Shut-In 45  Accessibility      Total 1317.40  
 Final Flow 30  Sub Total 1317.40 MP/DST Disc't       
 Final Shut-In 45

Approved By \_\_\_\_\_

Our Representative Sam Phillips

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55354

4/10

Well Name & No. B. KRIER #1 Test No. 2 Date 11/17/2013  
 Company Kirby Krier Oil Inc Elevation 1899 KB 1892 GL  
 Address 1043 NE 80th Rd CLAFIN KS. 67525  
 Co. Rep / Geo. Kurt Talbot Rig Royal Rig #2  
 Location: Sec. 4 Twp. 16 S Rge. 12 W Co. BARTON State KS

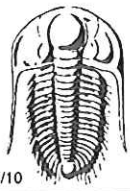
Interval Tested 3202 - 3270 Zone Tested LANSING H-I-J  
 Anchor Length 68' Drill Pipe Run 3261 Mud Wt. 9.1  
 Top Packer Depth 3198 Drill Collars Run 0 Vis 51  
 Bottom Packer Depth 3202 Wt. Pipe Run 0 WL 8.2  
 Total Depth 3270 Chlorides 5000 ppm System LCM 1.5#  
 Blow Description IBP-30-weak surface blow, built to 1/2 in, died back to nothing  
ISI-30-Dead no blow back  
FF-30-Dead no blow  
FSI-30-Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 100 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1585  Test 1150 T-On Location 1244  
 (B) First Initial Flow 13  Jars \_\_\_\_\_ T-Started 1249  
 (C) First Final Flow 14  Safety Joint \_\_\_\_\_ T-Open 1440  
 (D) Initial Shut-In 206  Circ Sub \_\_\_\_\_ T-Pulled 1640  
 (E) Second Initial Flow 22  Hourly Standby \_\_\_\_\_ T-Out 1803  
 (F) Second Final Flow 17  Mileage 108 R/T 167.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 39  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1538  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1317.40  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 1317.40

Approved By \_\_\_\_\_ Our Representative Jim Phillips  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55355**

4/10

Well Name & No. B. Kreier Test No. 3 Date 11/18/2013  
 Company Kieby Kreier Oil Inc. Elevation 1899 KB 1892 GL  
 Address 1043 NE 80<sup>th</sup> Rd Claflin, KS. 67525  
 Co. Rep / Geo. Kurt Talbot Rig Royal Rig #2  
 Location: Sec. 4 Twp. 16S Rge. 12W Co. Barton State KS

Interval Tested 3316 - 3375 Zone Tested \_\_\_\_\_  
 Anchor Length 59' Drill Pipe Run 3317 Mud Wt. 9.1  
 Top Packer Depth 3312 Drill Collars Run 0 Vis 51  
 Bottom Packer Depth 3316 Wt. Pipe Run 0 WL 8.2  
 Total Depth 3375 Chlorides 5000 ppm System LCM 1.5<sup>#</sup>

Blow Description IFP-30-Weak blow built to 2in died back, flushed tool, built 1/4 in died back  
ISI-30-Dead no blow back  
FF-45-Died no blow back BOB in 45 sec  
FSI-45-Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1045</u>	<u>GOWCM</u>	<u>20</u>	<u>40</u>	<u>30</u>	<u>10</u>
<u>630</u>	<u>WCM</u>		<u>5</u>	<u>90</u>	<u>5</u>
<u>0</u>	<u>GIP 57 ft</u>				
<u>0</u>					
<u>0</u>					
<u>1675</u>	<u>BHT 115</u>	<u>Gravity -</u>	<u>API RW .40</u>	<u>@ 64.9 °F</u>	<u>Chlorides 6800 24,000 ppm</u>

(A) Initial Hydrostatic 1687  Test 1150 T-On Location 0722  
 (B) First Initial Flow 316  Jars \_\_\_\_\_ T-Started 0749  
 (C) First Final Flow 417  Safety Joint \_\_\_\_\_ T-Open 0918  
 (D) Initial Shut-In 996  Circ Sub \_\_\_\_\_ T-Pulled 1148  
 (E) Second Initial Flow 486  Hourly Standby \_\_\_\_\_ T-Out 1455  
 (F) Second Final Flow 714  Mileage 108 R/T 167.40 Comments Loaded tool  
 (G) Final Shut-In 1018  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1694  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 1317.40  
 Final Shut-In 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1317.40

Approved By \_\_\_\_\_ Our Representative Jim Phillips

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



## DRILL STEM TEST REPORT

Prepared For: **Kirby Krier Oil Inc**

1043 NE 80th Rd  
Clafin, KS 67525

ATTN: Kurt Talbott

### **B. Krier #1**

#### **4-16s-12w Barton,KS**

Start Date: 2013.11.16 @ 13:33:00

End Date: 2013.11.16 @ 19:28:45

Job Ticket #: 55353                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.21 @ 10:27:08





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55353

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2013.11.16 @ 13:33:00

## GENERAL INFORMATION:

Formation: **LKC A & B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:41:30

Time Test Ended: 19:28:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Tim Phillips

Unit No: 53

**Interval: 3069.00 ft (KB) To 3120.00 ft (KB) (TVD)**

Reference Elevations: 1899.00 ft (KB)

Total Depth: 3120.00 ft (KB) (TVD)

1892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 6799**

**Inside**

Press@RunDepth: 15.58 psig @ 3070.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.16

End Date:

2013.11.16

Last Calib.: 2013.11.15

Start Time: 13:33:05

End Time:

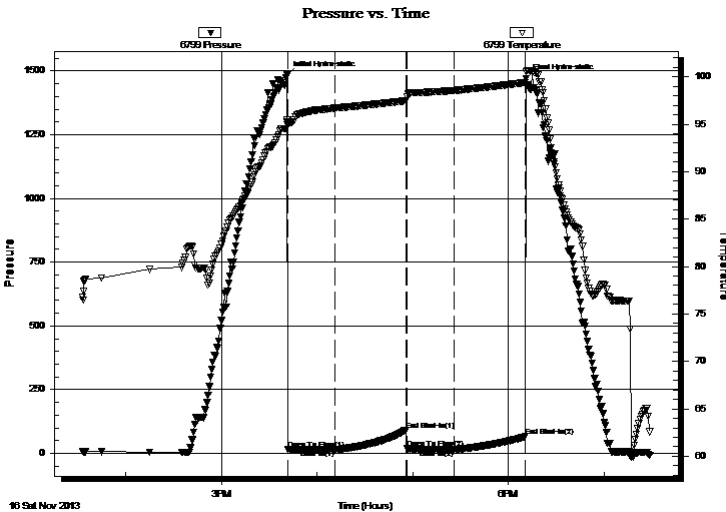
19:28:44

Time On Btm: 2013.11.16 @ 15:41:00

Time Off Btm: 2013.11.16 @ 18:11:15

**TEST COMMENT:** IFP-30-Weak blow built to 3 1/2"  
ISI-45-Dead no blow back  
FF-30-Weak blow , built to 2"  
FSI-45-Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1483.45	95.21	Initial Hydro-static
1	15.04	94.89	Open To Flow (1)
30	14.79	96.69	Shut-In(1)
75	91.90	97.48	End Shut-In(1)
76	19.53	97.91	Open To Flow (2)
105	15.58	98.55	Shut-In(2)
150	66.30	99.39	End Shut-In(2)
151	1469.86	100.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
12.00	Mud	0.17
0.00	GIP 57 ft	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55353

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2013.11.16 @ 13:33:00

## Tool Information

Drill Pipe:	Length: 3068.00 ft	Diameter: 3.80 inches	Volume: 43.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 47000.00 lb
			<u>Total Volume: 43.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3069.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3049.00	
Shut In Tool	5.00			3054.00	
Hydraulic tool	5.00			3059.00	
Packer	5.00			3064.00	21.00 Bottom Of Top Packer
Packer	5.00			3069.00	
Stubb	1.00			3070.00	
Recorder	0.00	6799	Inside	3070.00	
Recorder	0.00	8655	Outside	3070.00	
Perforations	14.00			3084.00	
Change Over Sub	1.00			3085.00	
Drill Pipe	31.00			3116.00	
Bullnose	3.00			3119.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55353

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2013.11.16 @ 13:33:00

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
12.00	Mud	0.168
0.00	GIP 57 ft	0.000

Total Length: 12.00 ft      Total Volume: 0.168 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

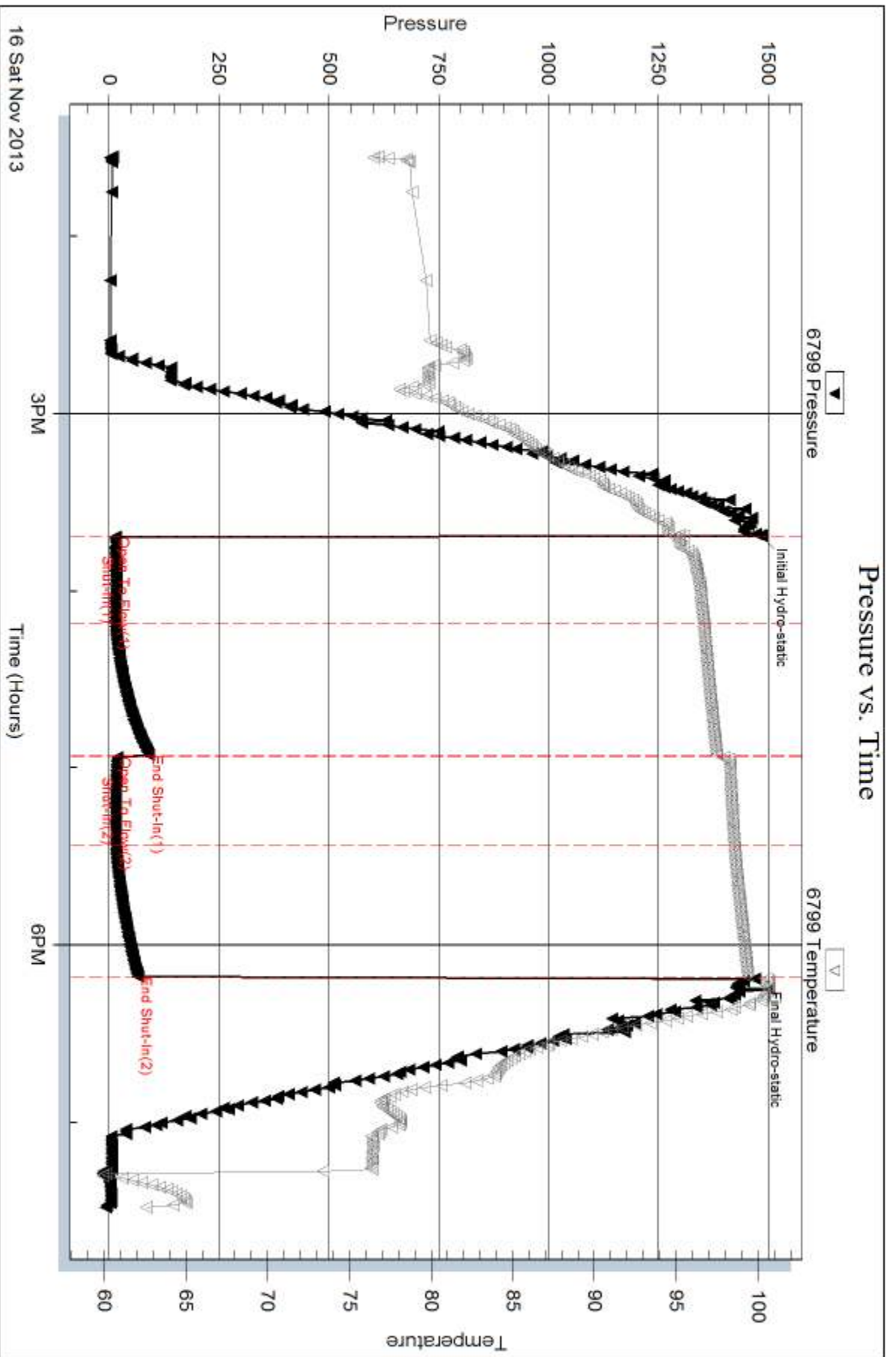
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

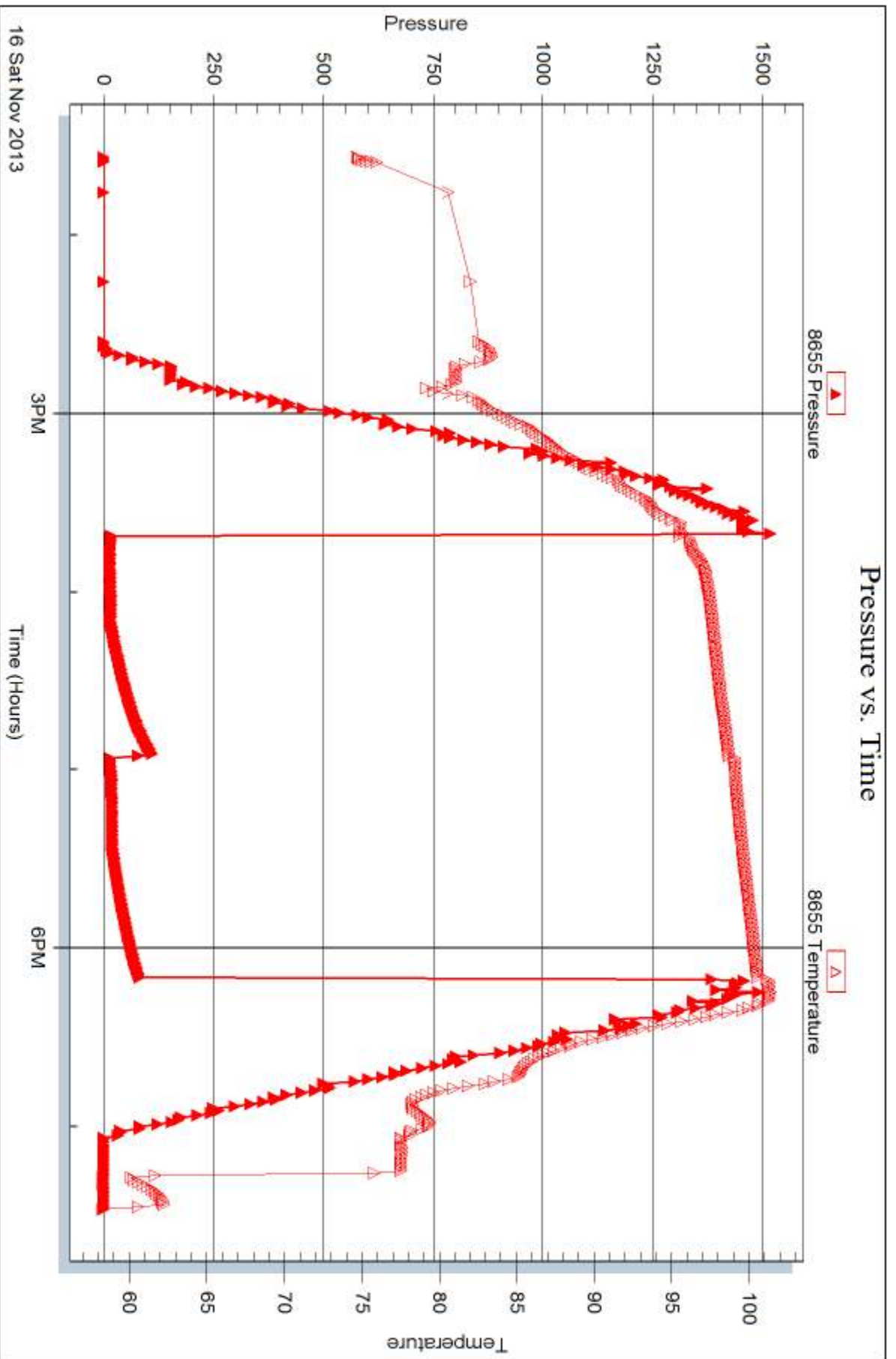


Serial #: 8655

Outside Kirby Krier Oil Inc

B. Krier #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 55353

Printed: 2013.11.21 @ 10:27:10



## DRILL STEM TEST REPORT

Prepared For: **Kirby Krier Oil Inc**

1043 NE 80th Rd  
Claffin, KS 67525

ATTN: Kurt Talbott

### **B. Krier #1**

#### **4-16s-12w Barton,KS**

Start Date: 2013.11.17 @ 12:49:41

End Date: 2013.11.17 @ 18:04:26

Job Ticket #: 55354                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.21 @ 10:25:51



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55354

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2013.11.17 @ 12:49:41

## GENERAL INFORMATION:

Formation: **LKC H-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:41:41

Time Test Ended: 18:04:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Tim Phillips

Unit No: 53

**Interval: 3202.00 ft (KB) To 3270.00 ft (KB) (TVD)**

Reference Elevations: 1899.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

1892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 6799**

**Inside**

Press@RunDepth: 17.58 psig @ 3203.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.17

End Date:

2013.11.17

Last Calib.: 2013.11.16

Start Time: 12:49:46

End Time:

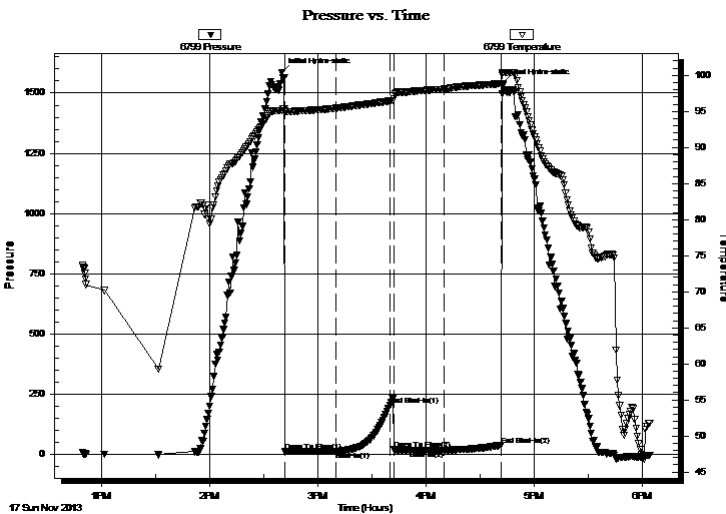
18:04:25

Time On Btm: 2013.11.17 @ 14:39:56

Time Off Btm: 2013.11.17 @ 16:42:26

**TEST COMMENT:** IFP-30-Weak surface blow , Built to 1/2" Died back to nothing  
ISI-30-Dead no blow back  
FF-30-Dead no blow  
FSI-30-dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1585.82	95.12	Initial Hydro-static
2	13.92	95.02	Open To Flow (1)
31	14.61	95.44	Shut-In(1)
60	206.38	96.45	End Shut-In(1)
63	22.19	96.80	Open To Flow (2)
90	17.58	98.07	Shut-In(2)
122	39.92	98.85	End Shut-In(2)
123	1538.77	100.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55354

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2013.11.17 @ 12:49:41

## Tool Information

Drill Pipe:	Length: 3261.00 ft	Diameter: 3.80 inches	Volume: 45.74 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 45.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	80.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3202.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3182.00	
Shut In Tool	5.00			3187.00	
Hydraulic tool	5.00			3192.00	
Packer	5.00			3197.00	21.00 Bottom Of Top Packer
Packer	5.00			3202.00	
Stubb	1.00			3203.00	
Recorder	0.00	6799	Inside	3203.00	
Recorder	0.00	8648	Outside	3203.00	
Perforations	31.00			3234.00	
Change Over Sub	1.00			3235.00	
Drill Pipe	31.00			3266.00	
Bullnose	3.00			3269.00	67.00 Bottom Packers & Anchor

**Total Tool Length: 88.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55354

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2013.11.17 @ 12:49:41

### 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

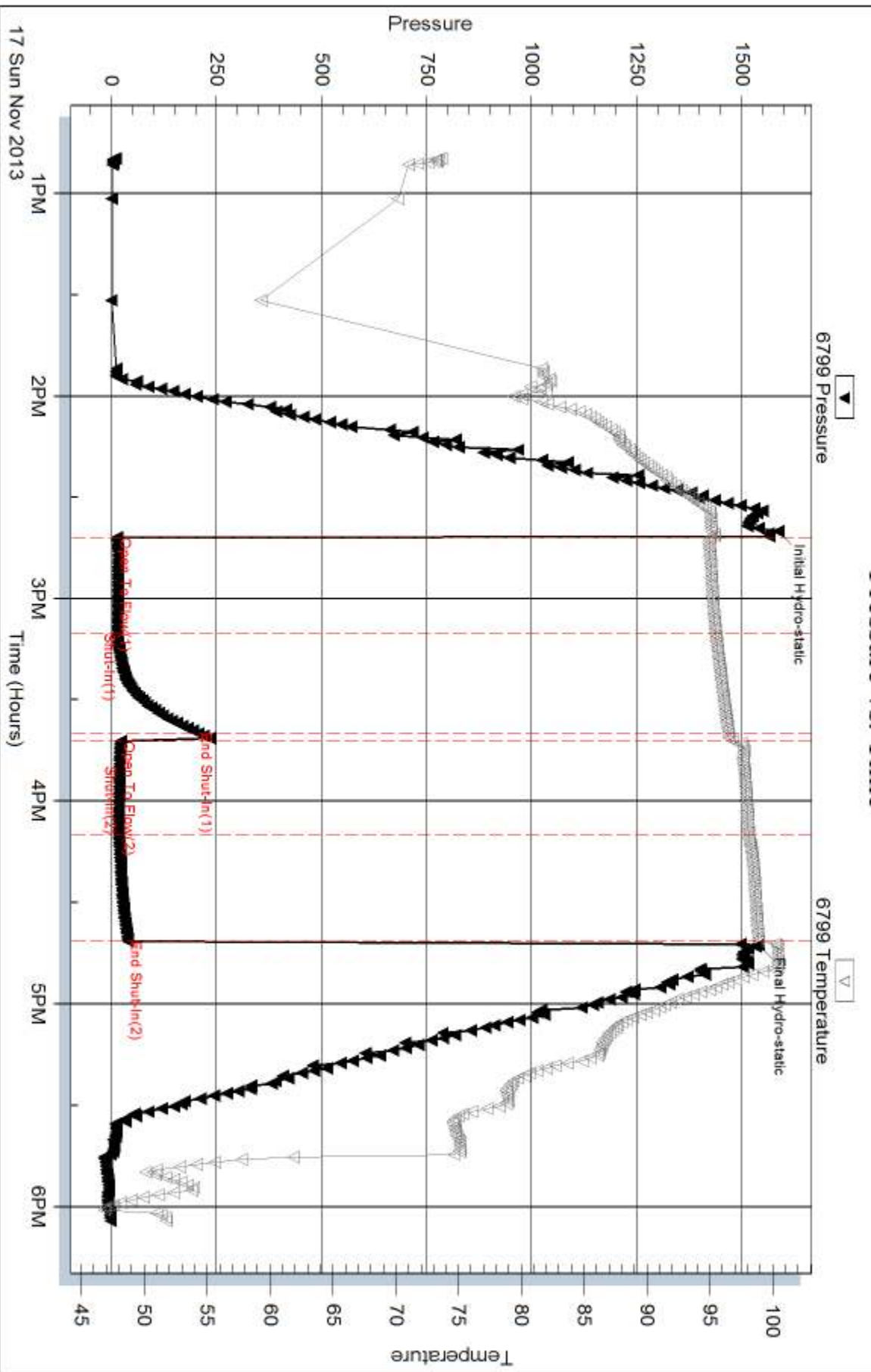
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

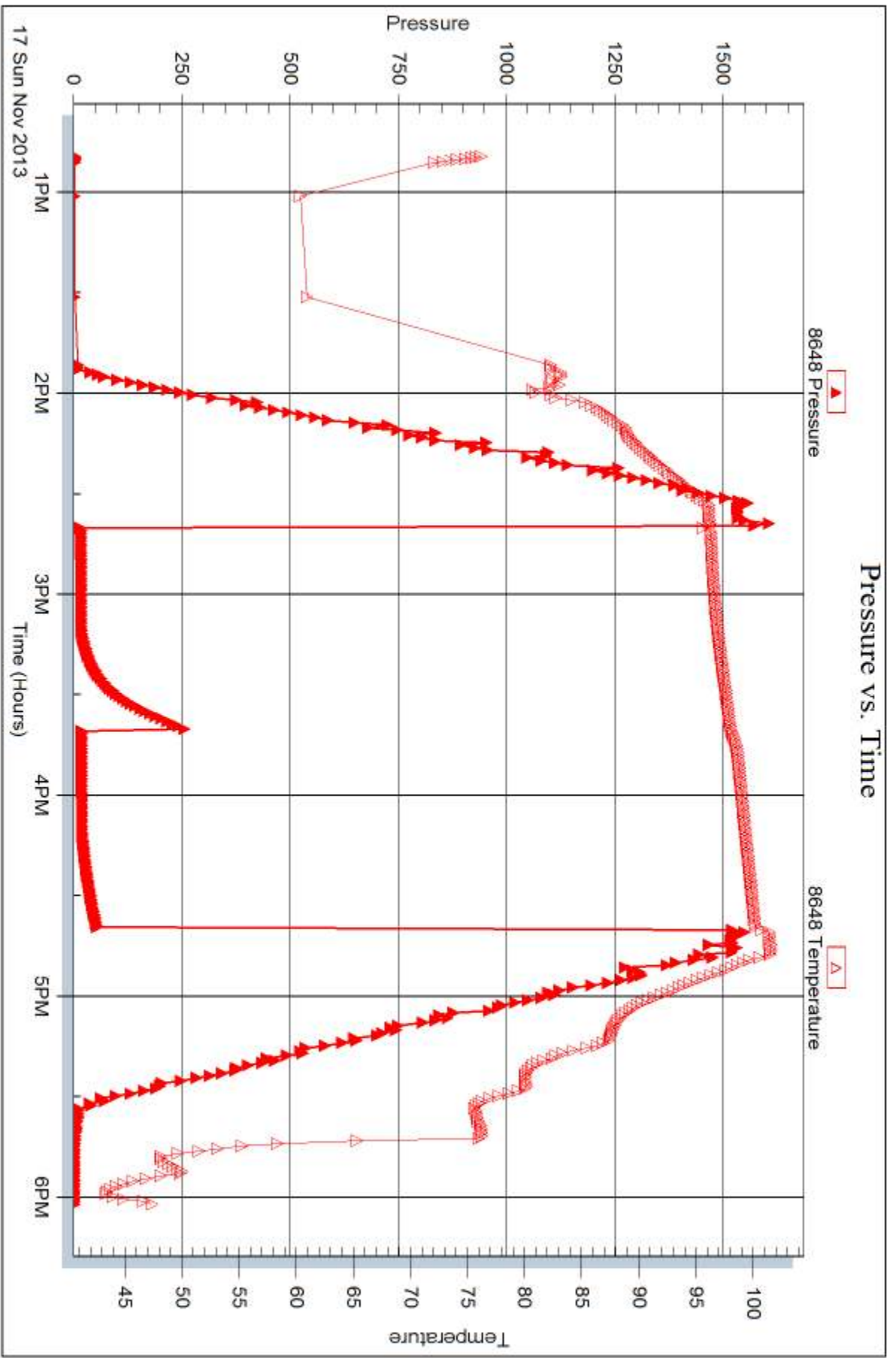


Serial #: 8648

Outside Kirby Krier Oil Inc

B. Krier #1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Kirby Krier Oil Inc**

1043 NE 80th Rd  
Claffin, KS 67525

ATTN: Kurt Talbott

### **B. Krier #1**

#### **4-16s-12w Barton,KS**

Start Date: 2013.11.18 @ 07:49:45

End Date: 2013.11.18 @ 14:55:15

Job Ticket #: 55355                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.21 @ 10:24:06



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55355

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2013.11.18 @ 07:49:45

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:18:15

Time Test Ended: 14:55:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Tim Phillips

Unit No: 53

**Interval: 3316.00 ft (KB) To 3375.00 ft (KB) (TVD)**

Reference Elevations: 1899.00 ft (KB)

Total Depth: 3375.00 ft (KB) (TVD)

1892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 6799 Inside**

Press@RunDepth: 714.28 psig @ 3317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.18

End Date:

2013.11.18

Last Calib.:

2013.11.17

Start Time:

07:49:50

End Time:

14:55:14

Time On Btm:

2013.11.18 @ 09:17:00

Time Off Btm:

2013.11.18 @ 11:53:30

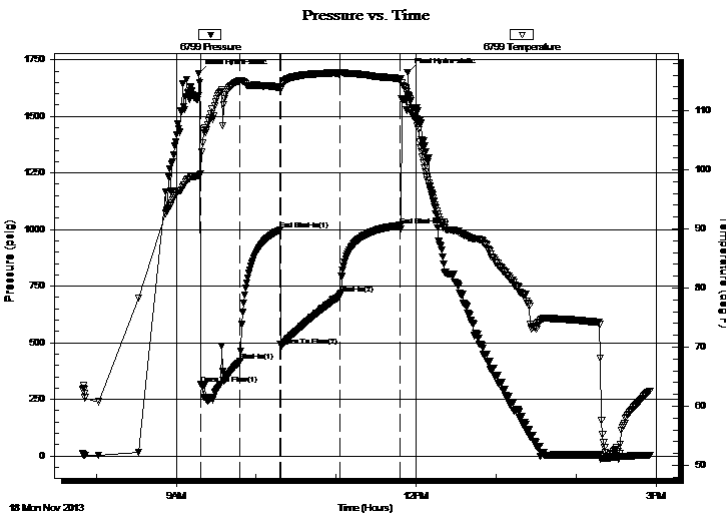
**TEST COMMENT:** IFP-30-Weak blow built to 2" died back, flushed tool built to 1/4" died back

ISI-30-Dead no blow back

FF-45- BOB in 45 sec.

FSI-45-Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.47	99.04	Initial Hydro-static
2	316.45	99.30	Open To Flow (1)
31	417.82	115.04	Shut-In(1)
61	996.88	113.92	End Shut-In(1)
62	486.68	113.71	Open To Flow (2)
106	714.28	116.42	Shut-In(2)
151	1018.71	115.39	End Shut-In(2)
157	1694.15	112.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1045.00	GOWCM 20% Gas, 40% Oil, 30% W, 5% M	14.66
630.00	WCM 5%O, 90% W, 5%M	8.84
0.00	GIP 57 ft	0.00

## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55355

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2013.11.18 @ 07:49:45

## Tool Information

Drill Pipe:	Length: 3317.00 ft	Diameter: 3.80 inches	Volume: 46.53 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 46.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3316.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3296.00	
Shut In Tool	5.00			3301.00	
Hydraulic tool	5.00			3306.00	
Packer	5.00			3311.00	21.00 Bottom Of Top Packer
Packer	5.00			3316.00	
Stubb	1.00			3317.00	
Recorder	0.00	6799	Inside	3317.00	
Recorder	0.00	8655	Outside	3317.00	
Perforations	24.00			3341.00	
Change Over Sub	1.00			3342.00	
Drill Pipe	31.00			3373.00	
Bullnose	3.00			3376.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Kirby Krier Oil Inc

**4-16s-12w Barton,KS**

1043 NE 80th Rd  
Clafin, KS 67525

**B. Krier #1**

Job Ticket: 55355

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2013.11.18 @ 07:49:45

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1045.00	GOWCM 20% Gas, 40% Oil, 30% W, 5% M	14.659
630.00	WCM 5%O, 90% W, 5%M	8.837
0.00	GIP 57 ft	0.000

Total Length: 1675.00 ft      Total Volume: 23.496 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6799

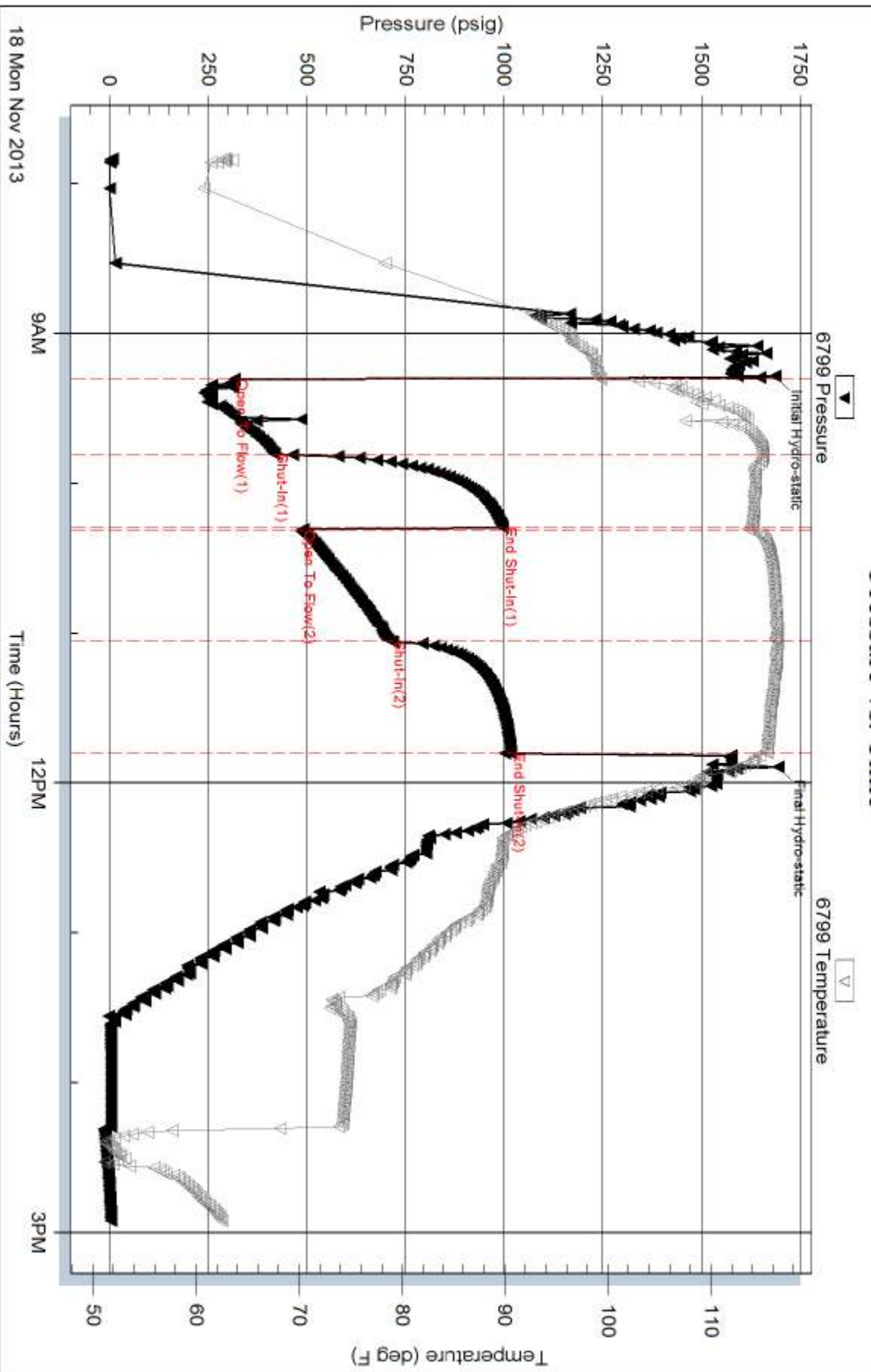
Inside

Kirby Krier Oil Inc

B. Krier #1

DST Test Number: 3

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 55355

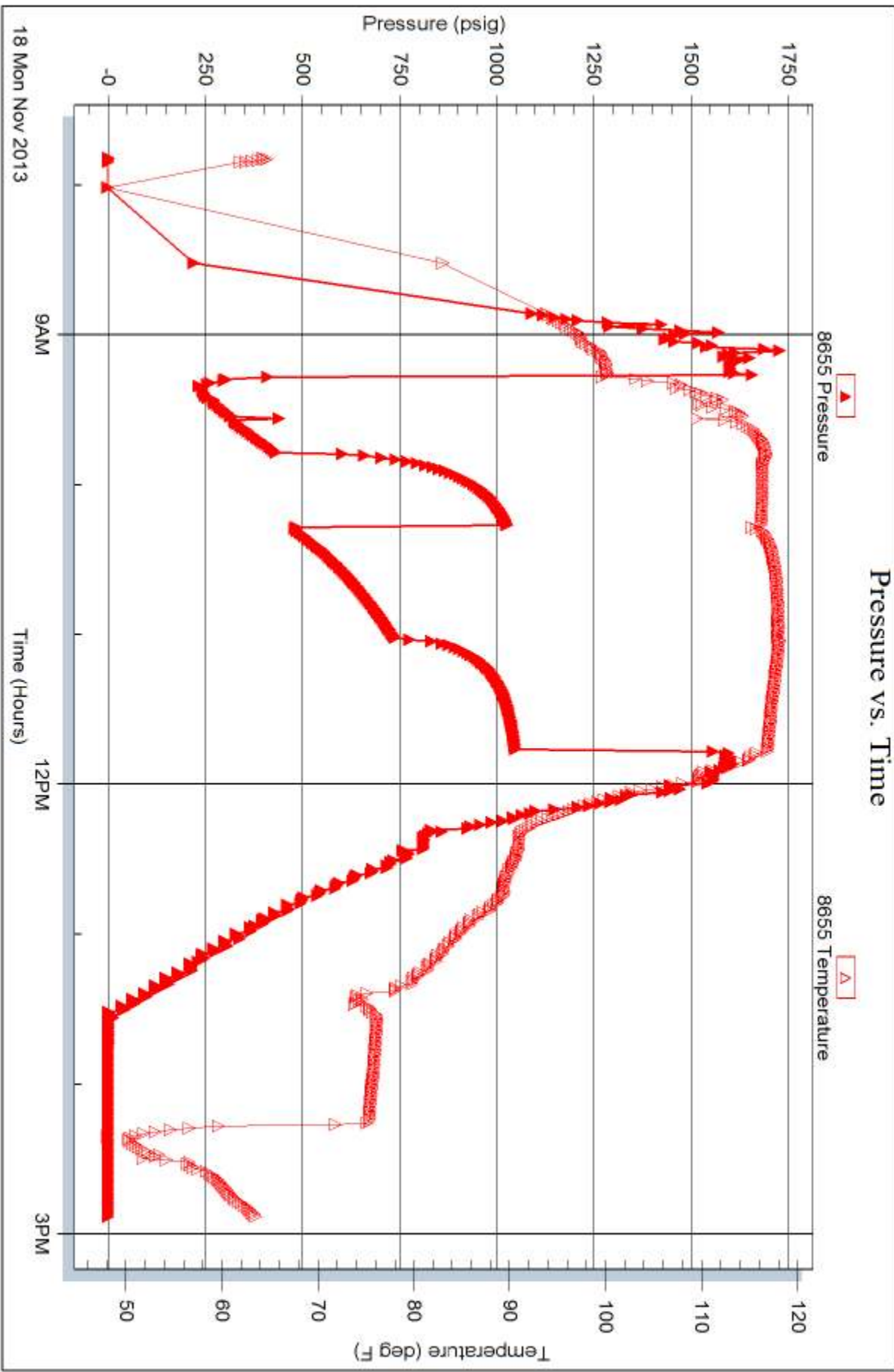
Printed: 2013.11.21 @ 10:24:08

Serial #: 8655

Outside Kirby Krier Oil Inc

B. Krier #1

DST Test Number: 3



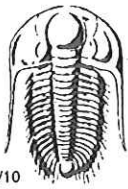
18 Mon Nov 2013

9AM

Time (Hours)

12PM

3PM



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55353

4/10

Well Name & No. B. Keizer #1 Test No. 1 Date 11/16/2013  
 Company Kieby Keizer Oil Inc. Elevation 1899 KB 1892 GL  
 Address 1043 NE 80th Rd Claflin, KS. 67525  
 Co. Rep / Geo. Kurt Talbot Rig Royal Rig #1  
 Location: Sec. 4 Twp. 16S Rge. 12W Co. BARTON State KS

Interval Tested 3069-3120 Zone Tested LANSING A & B  
 Anchor Length 51 Drill Pipe Run 3119 3068 Mud Wt. 8.8  
 Top Packer Depth 3116 3065 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 3120 3069 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3120 Chlorides 5000 ppm System LCM 2#

Blow Description IFP-30-Weak blow built to 3.5 in  
ISI-45-DEAD NO blow back  
FF-30-Weak blow built to 2 in.  
FSI-45-DEAD NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>12</u>	<u>Mud</u>			<u>100</u>	
<u>Q</u>	<u>57<sup>th</sup> GIP</u>				

Rec Total 12 BHT 100 Gravity      API RW      @      F Chlorides      ppm

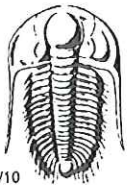
(A) Initial Hydrostatic 1483  Test 1150 T-On Location 1213  
 (B) First Initial Flow 15  Jars      T-Started 1333  
 (C) First Final Flow 14  Safety Joint      T-Open 1541  
 (D) Initial Shut-In 91  Circ Sub      T-Pulled 1811  
 (E) Second Initial Flow 19  Hourly Standby      T-Out 1929  
 (F) Second Final Flow 15  Mileage 108 R/T 167.40 Comments       
 (G) Final Shut-In 66  Sampler       
 (H) Final Hydrostatic 1469  Straddle       Ruined Shale Packer       
 Shale Packer       Ruined Packer       
 Extra Packer       Extra Copies       
 Initial Open 30  Extra Recorder      Sub Total 0  
 Initial Shut-In 45  Day Standby      Total 1317.40  
 Final Flow 30  Accessibility      MP/DST Disc't       
 Final Shut-In 45 Sub Total 1317.40

Approved By \_\_\_\_\_

Our Representative Sam Phillips

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55354

4/10

Well Name & No. B. KRIER #1 Test No. 2 Date 11/17/2013  
 Company Kirby Krier Oil Inc Elevation 1899 KB 1892 GL  
 Address 1043 NE 80th Rd CLAFIN KS. 67525  
 Co. Rep / Geo. Kurt Talbot Rig Royal Rig #2  
 Location: Sec. 4 Twp. 16 S Rge. 12 W Co. BARTON State KS

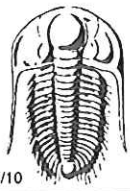
Interval Tested 3202 - 3270 Zone Tested LANSING H-I-J  
 Anchor Length 68' Drill Pipe Run 3261 Mud Wt. 9.1  
 Top Packer Depth 3198 Drill Collars Run 0 Vis 51  
 Bottom Packer Depth 3202 Wt. Pipe Run 0 WL 8.2  
 Total Depth 3270 Chlorides 5000 ppm System LCM 1.5#  
 Blow Description IBP-30-weak surface blow, built to 1/2 in, died back to nothing  
ISI-30-Dead no blow back  
FF-30-Dead no blow  
FSI-30-Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 100 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1585  Test 1150 T-On Location 1244  
 (B) First Initial Flow 13  Jars \_\_\_\_\_ T-Started 1249  
 (C) First Final Flow 14  Safety Joint \_\_\_\_\_ T-Open 1440  
 (D) Initial Shut-In 206  Circ Sub \_\_\_\_\_ T-Pulled 1640  
 (E) Second Initial Flow 22  Hourly Standby \_\_\_\_\_ T-Out 1803  
 (F) Second Final Flow 17  Mileage 108 R/T 167.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 39  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1538  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1317.40  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 1317.40

Approved By \_\_\_\_\_ Our Representative Jim Phillips  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55355**

4/10

Well Name & No. B. Kreier Test No. 3 Date 11/18/2013  
 Company Kieby Kreier Oil Inc. Elevation 1899 KB 1892 GL  
 Address 1043 NE 80<sup>th</sup> Rd Claflin, KS. 67525  
 Co. Rep / Geo. Kurt Talbot Rig Royal Rig #2  
 Location: Sec. 4 Twp. 16S Rge. 12W Co. Barton State KS

Interval Tested 3316 - 3375 Zone Tested \_\_\_\_\_  
 Anchor Length 59' Drill Pipe Run 3317 Mud Wt. 9.1  
 Top Packer Depth 3312 Drill Collars Run 0 Vis 51  
 Bottom Packer Depth 3316 Wt. Pipe Run 0 WL 8.2  
 Total Depth 3375 Chlorides 5000 ppm System LCM 1.5<sup>#</sup>

Blow Description IFP-30-Weak blow built to 2in died back, flushed tool, built 1/4 in died back  
ISI-30-DEAD NO blow back  
FF-45-~~Died no blow back~~ BOB IN 45 sec  
FSI-45-Dead No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1045</u>	<u>GOWCM</u>	<u>20</u>	<u>40</u>	<u>30</u>	<u>10</u>
<u>630</u>	<u>WCM</u>		<u>5</u>	<u>90</u>	<u>5</u>
<u>0</u>	<u>GIP 57 ft</u>				
<u>0</u>					
<u>0</u>					
<u>1675</u>	<u>BHT 115</u>	<u>Gravity -</u>	<u>API RW .40</u>	<u>@ 64.9 °F</u>	<u>Chlorides 6800 24,000 ppm</u>

(A) Initial Hydrostatic 1687  Test 1150 T-On Location 0722  
 (B) First Initial Flow 316  Jars \_\_\_\_\_ T-Started 0749  
 (C) First Final Flow 417  Safety Joint \_\_\_\_\_ T-Open 0918  
 (D) Initial Shut-In 996  Circ Sub \_\_\_\_\_ T-Pulled 1148  
 (E) Second Initial Flow 486  Hourly Standby \_\_\_\_\_ T-Out 1455  
 (F) Second Final Flow 714  Mileage 108 R/T 167.40 Comments Loaded tool  
 (G) Final Shut-In 1018  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1694  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 1317.40  
 Final Shut-In 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1317.40

Approved By \_\_\_\_\_

Our Representative

*Jim Phillips*

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