



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1195981
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: _____

1195981

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Krier, Kirby Oil, Inc.
Well Name	JAY CAT 1
Doc ID	1195981

Tops

Name	Top	Datum
HEBNER	2794	-1027
TORONTO	2807	-1040
DOUGLAS	2821	-1054
BROWN LIME	2909	-1142
LANSING	2922	-1155
BASE KANSAS CITY	3192	-1425
ARBUCKLE	3234	-1467
RTD	3242	-1475

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 486

Phone 785-483-2025

Cell 785-324-1041

Date: 3-20-14
 Sec: 5
 Twp: 18
 Range: 10
 County: Rice
 State: KS
 On Location: 8:45 AM
 Finish: 1:00 PM

Location: Cliff E to 3rd to S
 Owner: Winto

Lease: JAY CAT
 Well No.: 1

To Quality Oilwell Cementing, Inc.
 You are hereby requested to rent cementing equipment and furnish
 center and helper to assist owner or contractor to do work as listed.

Type Job: Logging Stings
 Contractor: Royal 2
 Hole Size: 7 7/8
 Csg. Size: 5 1/2
 Depth: 3235.9
 T.D.: 3242

Charge To: Kirby Krier
 City: _____
 State: _____

The above was done to satisfaction and supervision of owner agent or contractor.
 Cement Left in Csg.: 11.58
 Shoe Joint: 11.58
 Displace: -17 BBL
 Cement Amount Ordered: 180
 10% Sealt
 Common: 180
 5% Sealt / 50% Sealt

EQUIPMENT
 Pumptrk No. 17
 Cementer: Matt
 Helper: _____
 Driver: Nick
 Bulktrk No. 14
 Driver: Nick
 Bulktrk No. 13
 Driver: Ryan

JOB SERVICES & REMARKS
 Remarks:
 Rat Hole: 30.5 kts
 Mouse Hole: 20.5 kts
 Centralizers
 Baskets
 DV or Port Collar
 Sand
 Handling: 205
 Mileage: 205
 FLOAT EQUIPMENT
 Guide Shoe
 Centralizer: 9
 Tubos: 9
 Baskets: 2
 AFU Inserts
 Float Shoe
 Latch Down
 Rotating Head
 Pumptrk Charge: 29
 Mileage: 29

Total Charge
 Discount
 Tax
 Signature: [Handwritten Signature]

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7175

Date	3-15-14
Sec.	S 18
Twp.	18
Range	10
County	Rice
State	Ks
On Location	
Finish	S:15 AM

Well No.	1
Location	Clarks, Ks - E to 3rd Rd, 1/2 S

Owner: W/Info
To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish center and helper to assist owner or contractor to do work as listed.

Type Job	Surface
Hole Size	12 1/4"
T.D.	332'
Depth	332'
Csg.	8 5/8"
Tbg. Size	
Depth	
City	
State	

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg.	20'
Shoe Joint	20'
Displace	19 3/4 Bcs

Common 180
Poz. Mix
Gel. 3
Calcium 6

Pumprk	16	No.	Cementer	Billy
Bulktrk	3	No.	Driver	David
Bulktrk		No.	Driver	Back

JOB SERVICES & REMARKS

Remarks: Cement did Circulate.

Rat Hole	Flowseal
Mouse Hole	Koi-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand

Handling	189
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumprk Charge	Surface
Mileage	29

Tax	
Discount	
Total Charge	

Signature: *[Handwritten Signature]*



NOTES

Company: Kirby Oil, Inc.

Lease: Jaycat #1

Field: Bloomer

Location: N2-S2-N2-SE (1800' FSL& 1320' FEL)

Sec: 5 Twsp: 18S Rge: 10W

County: Rice State: Kansas

KB: 1767' GL: 1760'

API # 15-159-22769-00-00

Contractor: Royal Drilling Inc. (Rig #2)

Spud: 3/14/2014 Comp: 3/19/2014

RTD: 3249'

Mud Up: 2600' Type Mud: Chemical

Samples Saved From: 2700' to RTD

Drilling Time Kept From: 2700' to RTD

Samples Examined From: 2700' to RTD

Geological Supervision from: 2700' to RTD

Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8@ 332'

Electronic Surveys: None

**Kirby Oil, Inc.
well comparison sheet**

DRILLING WELL				COMPARISON WELL				COMPARISON WELL				
Kirby Oil- Jaycat #1 N2-S2-N2-SE 5-18S-10W				Sohio Petr. Co.-#5 Roesler A NE-SW-SE 5-18S-10W				Kirby Oil- Roesler #6 NW-SW-SE 5-18S-10W				
1767 KB				1765 KB				1765 KB				
				Structural Relationship				Structural Relationship				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	2794	-1027				2786	-1021	6		2792	-1027	0
Toronto	2807	-1040				2804	-1039	1				
Douglas	2821	-1054				2817	-1052	-2				
Brown Lime	2909	-1142				2904	-1139	-3				
Lansing	2922	-1155				2920	-1155	0		2922	-1157	2
BKC	3192	-1425				3184	-1419	-6		3188	-1423	-2
Arbuckle	3234	-1467				3207	-1442	-25		3206	-1441	-26
RTD	3242	-1475				3215	-1450	-25		3220	-1455	-20



DRILL STEM TEST REPORT

Kirby Krier Oil Inc.

123

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

Jay Cat #1

Job Ticket: 19229

DST#: 1

ATTN: clinto Musgrove

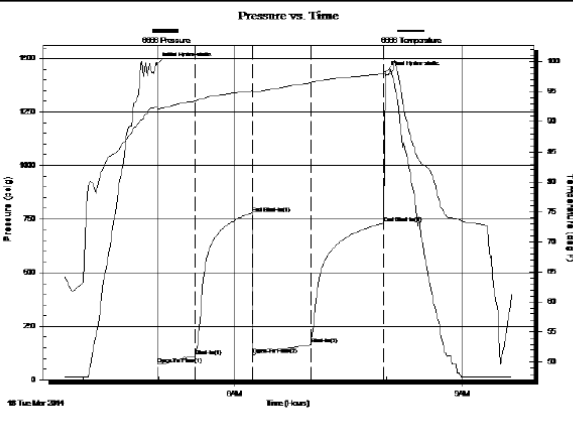
Test Start: 2014.03.18 @ 00:00:00

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 #: 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

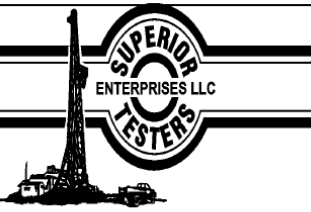
TEST COMMENT: 1st Opening 30 Minutes Fair blow built to the bottom of a 5 gallon bucket in 6 minutes
 1st Shut-In 45 Minutes-Weak surface blow for 3 minutes and died
 2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 minutes
 2nd Shut-In 60 Minutes-weak surface blow



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 water	0.84
0.00	16% Gas 4% Oil 30% Mud 50% Water	0.00
60.00	Muddy water with a slight trace of oil	0.84

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

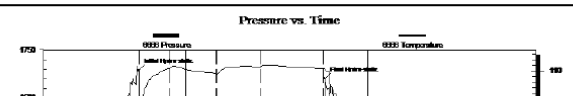


DRILL STEM TEST REPORT
 Kirby Krier Oil Inc. **123**
 1043 North East 80th Road
 Clafin, Kansas 67525-9159
 ATTN: clinto Musgrove
Jay Cat #1
 Job Ticket: 19230 **DST#: 2**
 Test Start: 2014.03.20 @ 08:00:00

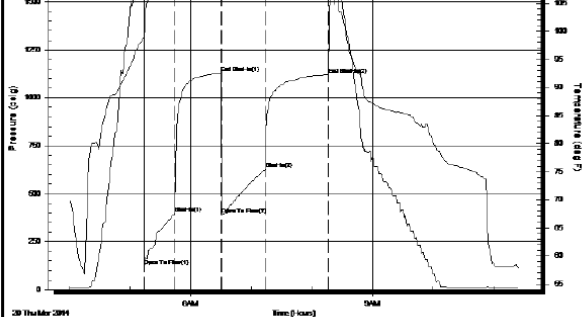
GENERAL INFORMATION:
 Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:13:30
 Time Test Ended: 14:58:30
 Interval: **3180.00 ft (KB) To 3242.00 ft (KB) (TVD)**
 Total Depth: 3242.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Poor
 Test Type: Conventional Bottom 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 #: 6666 Inside
 Press@RunDepth: 1120.30 psig @ 3237.67 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.20 End Date: 2014.03.20 Last Calib.: 2014.03.20
 Start Time: 04:00:00 End Time: 11:24:30 Time On Btm: 2014.03.20 @ 05:13:30
 Time Off Btm: 2014.03.20 @ 08:17:30

TEST COMMENT: 1st Opening 30 Minutes Good blow built to the bottom of a 5 gallon bucket in 2 minutes
 1st Shut-In 45 Minutes-No blow back
 2nd Opening 45 Minutes-Good blow built to the bottom of a 5 Gallon bucket in 3 minutes
 2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.00	98.67	Initial Hydro-static



0	1644.09	98.87	Initial Hydro-static
1	121.16	98.91	Open To Flow (1)
31	399.18	110.47	Shut-In(1)
76	1127.73	109.60	End Shut-In(1)
77	389.44	109.33	Open To Flow (2)
121	628.51	110.76	Shut-In(2)
183	1120.30	110.41	End Shut-In(2)
184	1600.59	110.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	60 Gas in the pipe	0.00
1330.00	Clean Gassy Oil Gravity 42 Corrected	18.66
90.00	Muddy Oil 5%Gas 60%Oil 35%Mud	1.26
60.00	Muddy Gassy Oil	0.84
0.00	20%Gas 60%Oil 20%Mud	0.00
60.00	Gassy Mud Cut Oil	0.84

Gas Rates

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

ROCK TYPES

	Chtcong		Lmst fw7>		Carbon Sh		Ss
	Dolprim		shale, grn		shale, red		
	Lmst fw<7		shale, gry		Shcol		

ACCESSORIES

MINERAL

△ Chert White

FOSSIL

○ Oolite
 Oomoldic

STRINGER

Sandstone

TEXTURE

FX Finexln

OTHER SYMBOLS

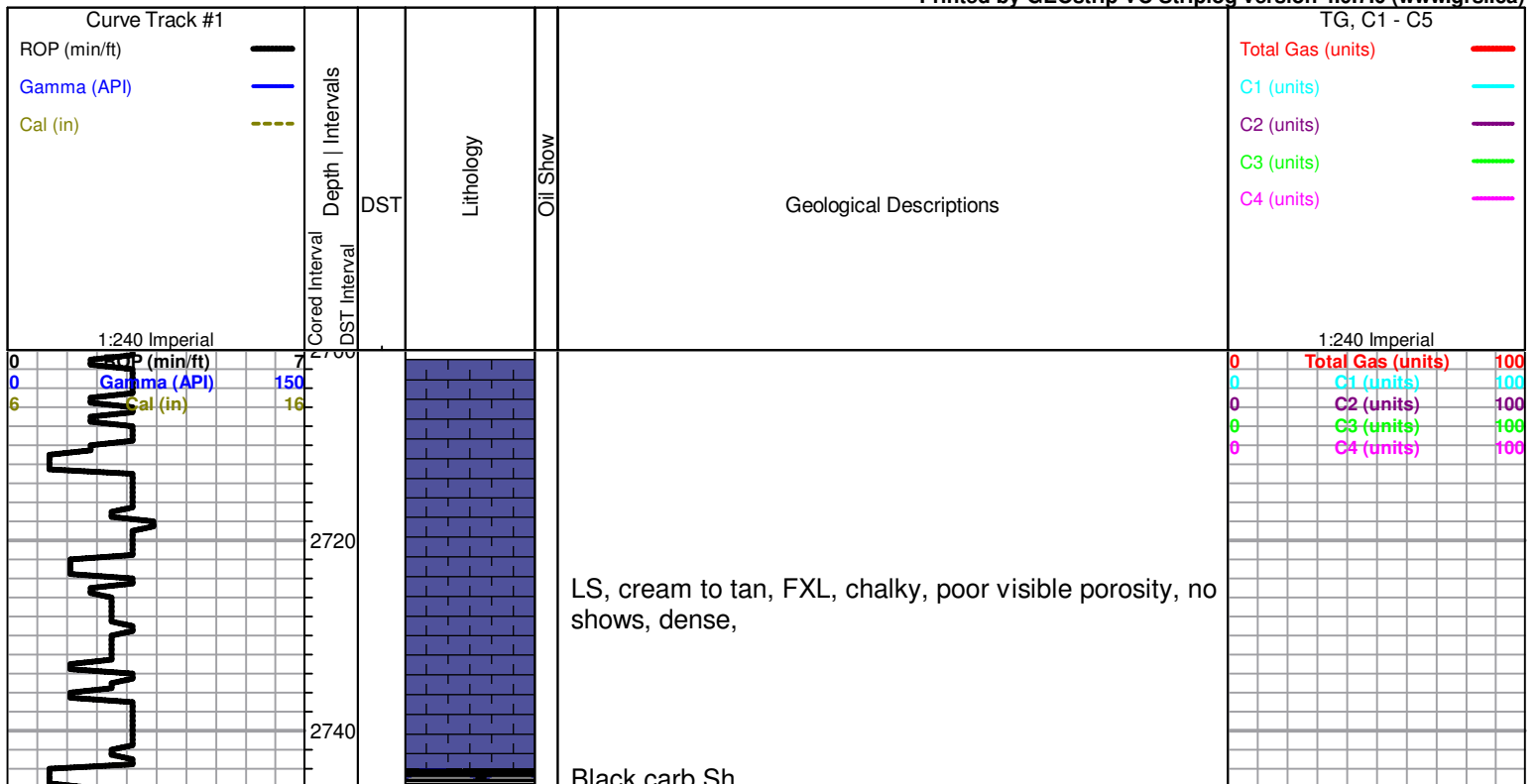
Oil Show

- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Strn
- D Dead Oil Strn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)



Black carb sh.

2760
2780
2800
2820
2840
2860
2880
2900
2920
2940
2960

RO (in/ft) 7
Gamma (API) 150
Cal (in) 16

D
S
T

1

FX

LS, cream to gray, FXL, chalky, trace black stain no shows

Heebner 2794 (-1027)

Black carb shale
Sh. gray, soft, silty

Toronto 2807 (-1040)

LS, cream, FXL, cherty in parts, poor visible porosity, no shows

FX

Douglas 2821 (-1054)

Sh. gray, silty, trc. sd. gray, green, v. fine grained, mica, friable, fair vis porosity

Sh. gray, maroon, silty

Sh. A/A

Brown Lime 2909 (-1142)

LS, brown, FXL, cherty, no visible porosity

Lansing 2922 (-1155)

FX

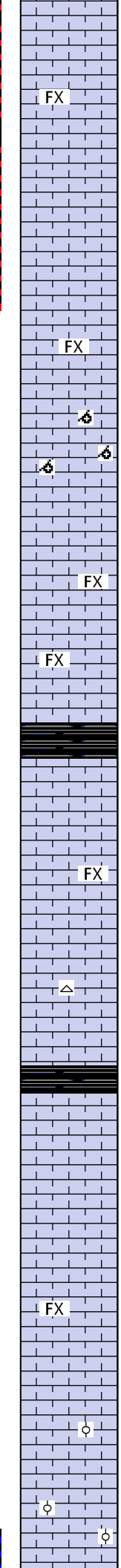
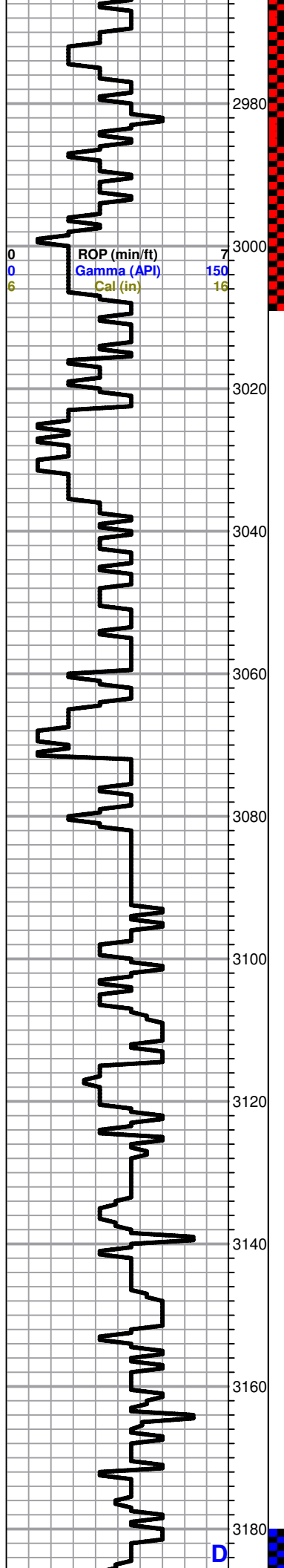
LS, cream to tan, FXL, cherty, chalky, poor visible porosity, no shows

FX

LS, tan, FXL, poor visible porosity, black stain, SFO, faint odor

LS, cream to tan, FXL, poor visible porosity, trc. black stain, very faint odor

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



stain, very faint odor,

2980 FX
LS, cream FXL, foss, cherty, no shows, no odor

3000 FX
LS, tan FXL, poor scattered porosity, foss, trc. black stain, faint odor

3020 FX
LS, cream to tan, ool, FXL, dense, few vuggy porosity, barren

3040 FX
LS, gray to tan, oom, good vuggy porosity, chalky in parts, no shows

3060 FX
LS, cream to tan, FXL, dense, poor visible porosity, few foss, trc. gray shale

3080
Sh. black carb

3100 FX
LS, tan, ool, FXL, no visible porosity, cherty, trace greenish, black sh.

3120 FX
LS, tan FXL, cherty no vis porosity, trace, white chert some opaque

3140 FX
LS, cream to tan, FXL, dense, cherty poor visible porosity, cherty in parts. Trc. greenish, massive, and Black carb Sh.

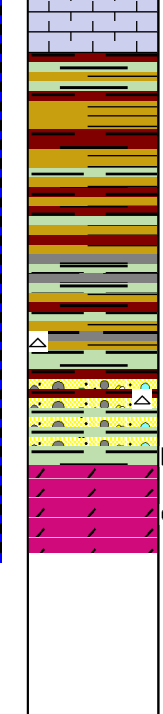
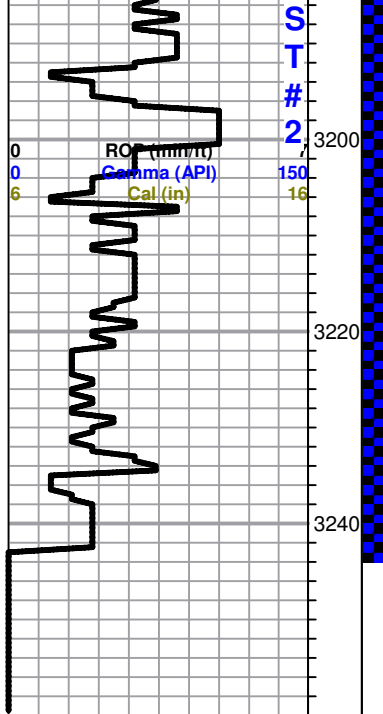
3160 FX
LS, tan, gray, FXL, cherty, dense, poor visible porosity, no shows

3180 FX
LS, tan to cream FXL, dense few ool, poorly developed, poor visible porosity, no shows

3180 FX
LS, tan to cream FXL, dense, few ool, poorly developed, no visible porosity, no shows

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

D



Base Kansas City 3192 (-1425)

Sh. maroon, greenish, gray, waxy

Sh. gray, greenish, trace yellow, opaque, white, boney

Sh. greenish, gray, silty, soft, Trc. white, opaque, ool chert, odor??

Arbuckle 3234 (-1467)

Dol. white, cream, poor to fair scattered porosity, sat., SFO, Lt. golden brown stain,

CFS 20/40/60

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

CFS 20/40/60

CFS 20/40/60

CFS 20/40/60

CFS 20/40/60



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

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

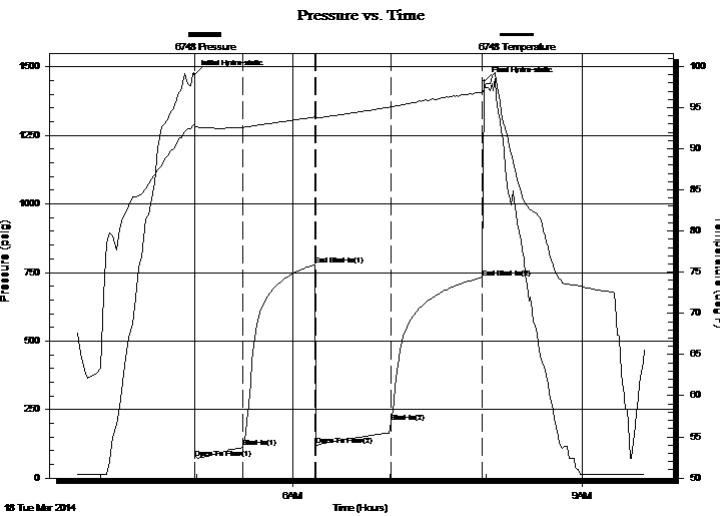
123
Jay Cat #1
 Job Ticket: 19229 **DST#: 1**
 Test Start: 2014.03.18 @ 00:00:00

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)



DRILL STEM TEST REPORT

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

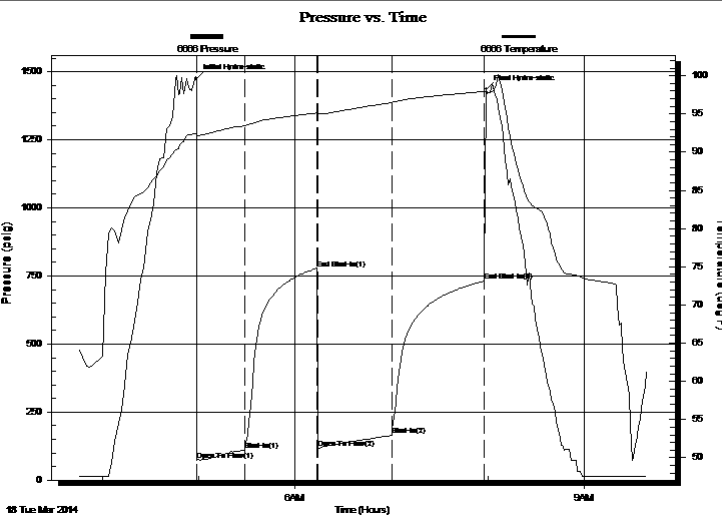
123
Jay Cat #1
 Job Ticket: 19229 **DST#: 1**
 Test Start: 2014.03.18 @ 00:00:00

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)



DRILL STEM TEST REPORT

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



DRILL STEM TEST REPORT

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

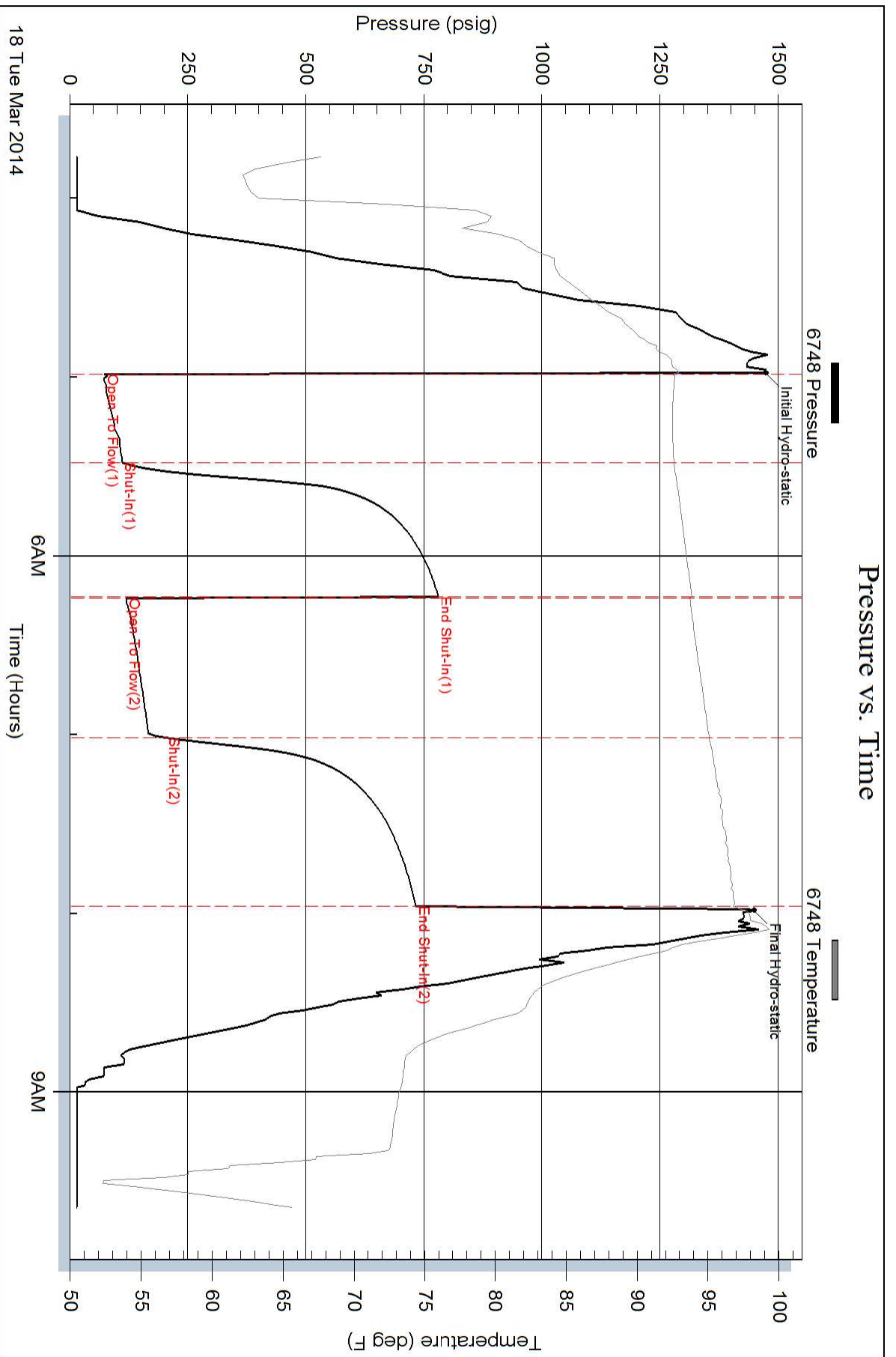
Total Length: 220.00 ft Total Volume: 3.087 bbl

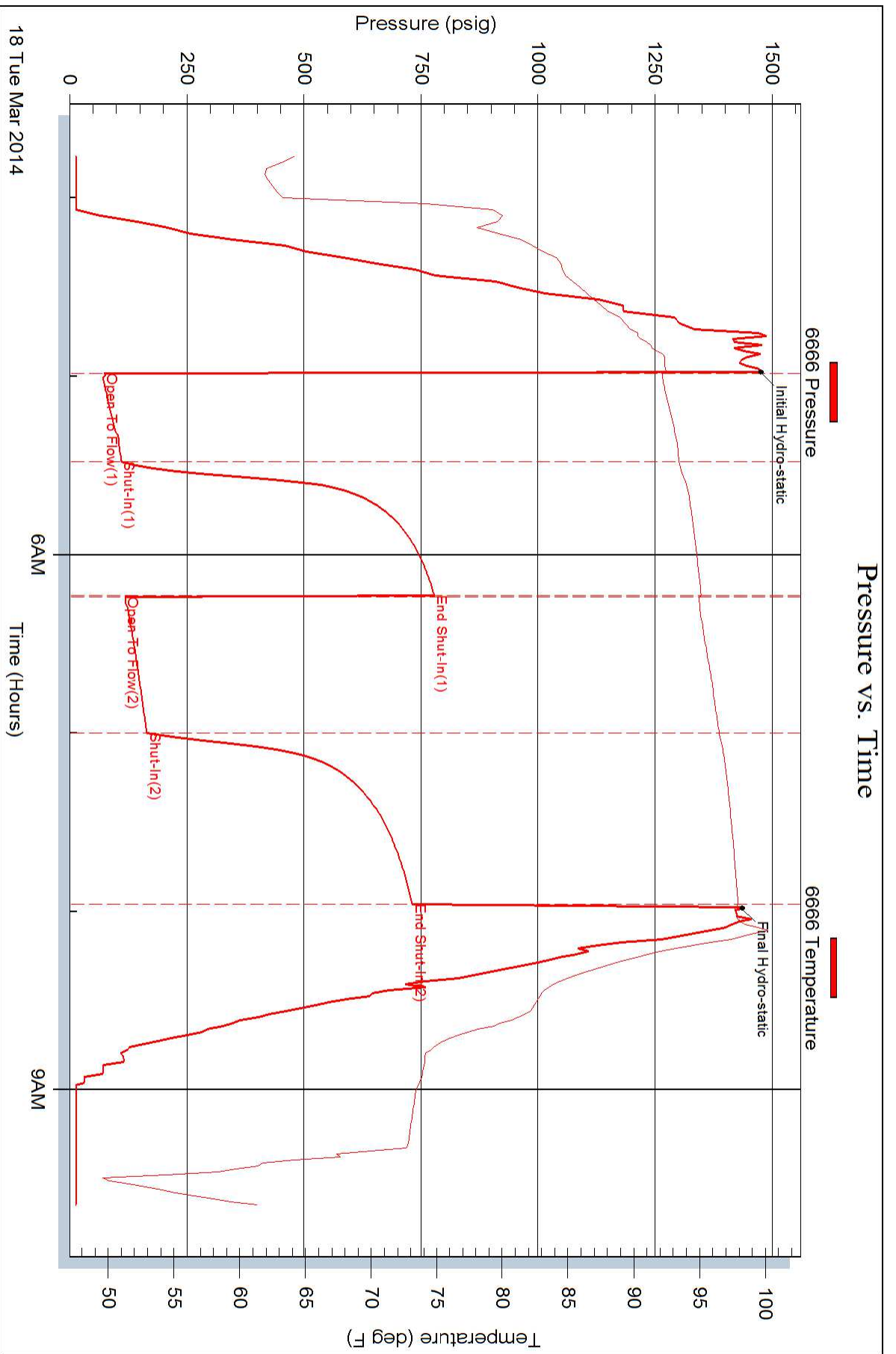
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time







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: 2014.03.20 @ 08:00:00

End Date: 2014.03.20 @ 14:58:30

Job Ticket #: 19230 DST #: 2

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

Printed: 2014.03.20 @ 05:25:10

Kirby Krier Oil Inc. 123 Jay Cat #1 DST # 2 Arbuckle 2014.03.20



DRILL STEM TEST REPORT

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

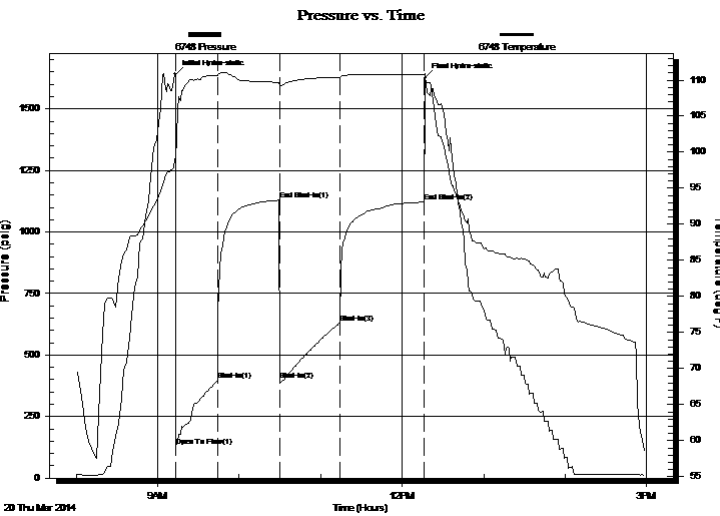
123
Jay Cat #1
 Job Ticket: 19230 **DST#: 2**
 Test Start: 2014.03.20 @ 08:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:13:30
 Time Test Ended: 14:58:30
 Interval: **3180.00 ft (KB) To 3242.00 ft (KB) (TVD)**
 Total Depth: 3242.00 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: 397.48 psig @ 3238.67 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.20 End Date: 2014.03.20 Last Calib.: 2014.03.20
 Start Time: 08:00:00 End Time: 14:58:30 Time On Btm: 2014.03.20 @ 09:13:00
 Time Off Btm: 2014.03.20 @ 12:17:00

TEST COMMENT: 1st Opening 30 Minutes Good blow built to the bottom of a 5 gallon bucket in 2 minutes
 1st Shut-In 45 Minutes-No blow back
 2nd Opening 45 Minutes-Good blow built to the bottom of a 5 Gallon bucket in 3 minutes
 2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.87	99.22	Initial Hydro-static
1	128.01	98.87	Open To Flow (1)
31	397.48	110.63	Shut-In(1)
77	1129.29	109.66	End Shut-In(1)
77	397.43	109.37	Shut-In(2)
121	630.60	110.41	Shut-In(3)
183	1121.59	110.71	End Shut-In(2)
184	1625.29	110.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	60 Gas in the pipe	0.00
1330.00	Clean Gassy Oil Gravity 42 Corrected	18.66
90.00	Muddy Oil 5%Gas 60%Oil 35%Mud	1.26
60.00	Muddy Gassy Oil	0.84
0.00	20%Gas 60%Oil 20%Mud	0.00
60.00	Gassy Mud Cut Oil	0.84

Gas Rates

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



DRILL STEM TEST REPORT

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

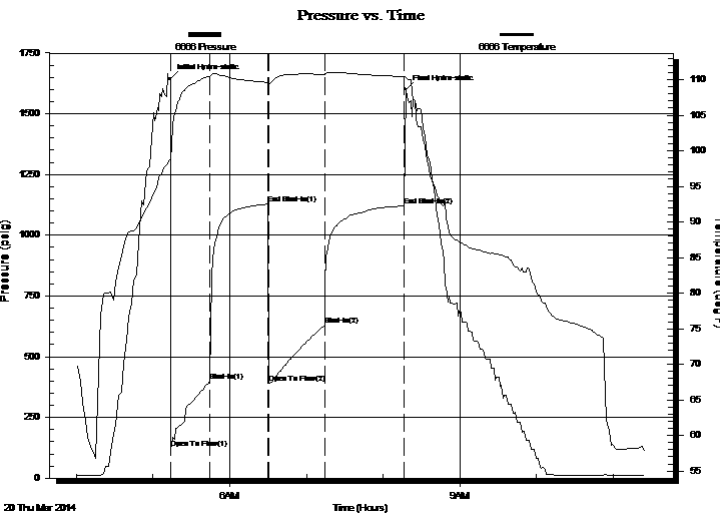
123
Jay Cat #1
 Job Ticket: 19230 **DST#: 2**
 Test Start: 2014.03.20 @ 08:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:13:30
 Time Test Ended: 14:58:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335
 Interval: **3180.00 ft (KB) To 3242.00 ft (KB) (TVD)**
 Reference Elevations: 1767.00 ft (KB)
 Total Depth: 3242.00 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: 1120.30 psig @ 3237.67 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.20 End Date: 2014.03.20 Last Calib.: 2014.03.20
 Start Time: 04:00:00 End Time: 11:24:30 Time On Btm: 2014.03.20 @ 05:13:30
 Time Off Btm: 2014.03.20 @ 08:17:30

TEST COMMENT: 1st Opening 30 Minutes Good blow built to the bottom of a 5 gallon bucket in 2 minutes
 1st Shut-In 45 Minutes-No blow back
 2nd Opening 45 Minutes-Good blow built to the bottom of a 5 Gallon bucket in 3 minutes
 2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.09	98.67	Initial Hydro-static
1	121.16	98.91	Open To Flow (1)
31	399.18	110.47	Shut-In(1)
76	1127.73	109.60	End Shut-In(1)
77	389.44	109.33	Open To Flow (2)
121	628.51	110.76	Shut-In(2)
183	1120.30	110.41	End Shut-In(2)
184	1600.59	110.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	60 Gas in the pipe	0.00
1330.00	Clean Gassy Oil Gravity 42 Corrected	18.66
90.00	Muddy Oil 5%Gas 60%Oil 35%Mud	1.26
60.00	Muddy Gassy Oil	0.84
0.00	20%Gas 60%Oil 20%Mud	0.00
60.00	Gassy Mud Cut Oil	0.84

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

123
Jay Cat #1
 Job Ticket: 19230 **DST#: 2**
 Test Start: 2014.03.20 @ 08:00:00

Tool Information

Drill Pipe:	Length: 3190.00 ft	Diameter: 3.80 inches	Volume: 44.75 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: 62000.00 lb
			<u>Total Volume: 44.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3180.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.67 ft			
Tool Length:	81.67 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3165.00	
Hydraulic Tool	5.00			3170.00	
Top Packer	5.00			3175.00	
Packer	5.00			3180.00	20.00 Bottom Of Top Packer
Anchor	5.00			3185.00	
Change Over Sub	0.75			3185.75	
Drill Pipe	31.17			3216.92	
Change Over Sub	0.75			3217.67	
Anchor	19.00			3236.67	
Recorder	1.00	6666	Inside	3237.67	
Recorder	1.00	6748	Outside	3238.67	
Bull Plug	3.00			3241.67	61.67 Anchor Tool

Total Tool Length: 81.67



DRILL STEM TEST REPORT

FLUID SUMMARY

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

123
Jay Cat #1
 Job Ticket: 19230 **DST#: 2**
 Test Start: 2014.03.20 @ 08:00:00

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

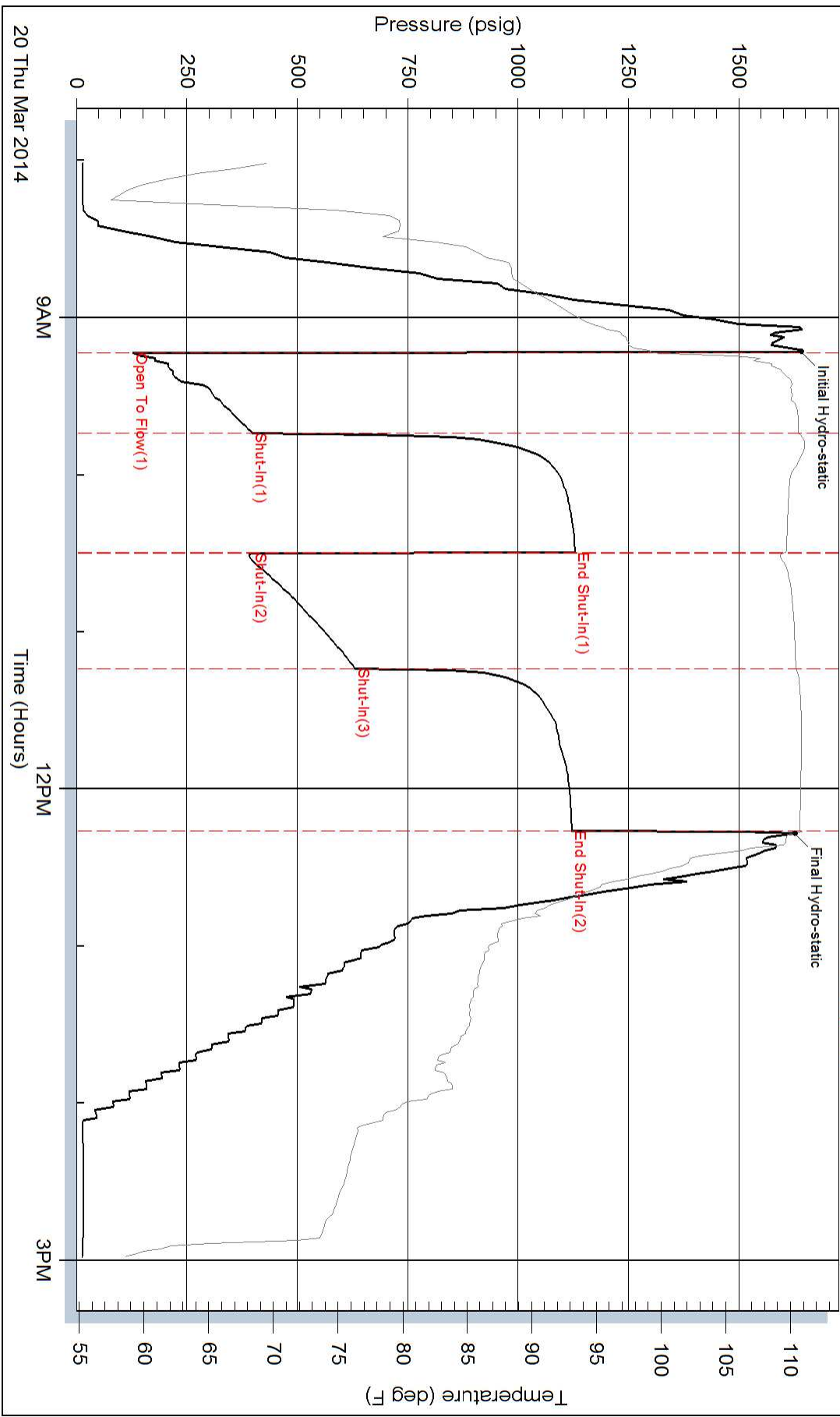
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	60 Gas in the pipe	0.000
1330.00	Clean Gassy Oil Gravity 42 Corrected	18.656
90.00	Muddy Oil 5%Gas 60%Oil 35%Mud	1.262
60.00	Muddy Gassy Oil	0.842
0.00	20%Gas 60%Oil 20%Mud	0.000
60.00	Gassy Mud Cut Oil	0.842
0.00	15%Gas 55%Oil 30%Mud	0.000
60.00	Oil And Gas Cut Mud	0.842
0.00	20%Gas 30%Oil 50%Mud	0.000
60.00	Mud Cut Gassy Oil	0.842
0.00	25%Gas 35%Oil 35%Mud 5%Water	0.000

Total Length: 1660.00 ft Total Volume: 23.286 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Pressure vs. Time

