



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

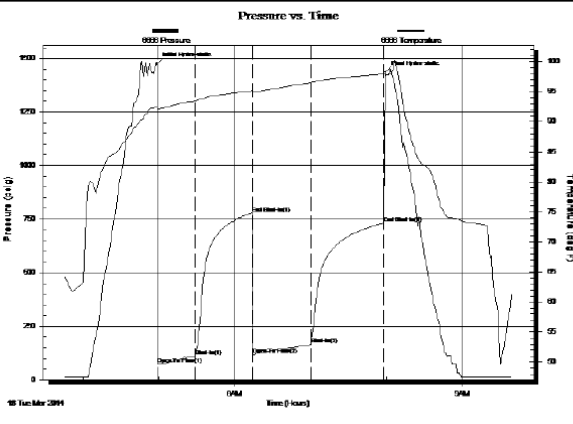
Test Start: 2014.03.18 @ 00:00:00

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

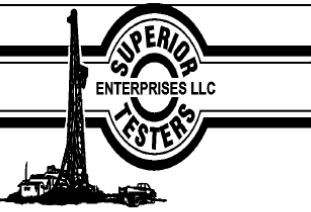
TEST COMMENT: 1st Opening 30 Minutes Fair blow built to the bottom of a 5 gallon bucket in 6 minutes
 1st Shut-In 45 Minutes-Weak surface blow for 3 minutes and died
 2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 minutes
 2nd Shut-In 60 Minutes-weak surface blow



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)

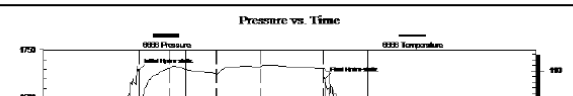


DRILL STEM TEST REPORT
 Kirby Krier Oil Inc. **123**
 1043 North East 80th Road
 Clafin, Kansas 67525-9159
 ATTN: clinto Musgrove
Jay Cat #1
 Job Ticket: 19230 **DST#: 2**
 Test Start: 2014.03.20 @ 08:00:00

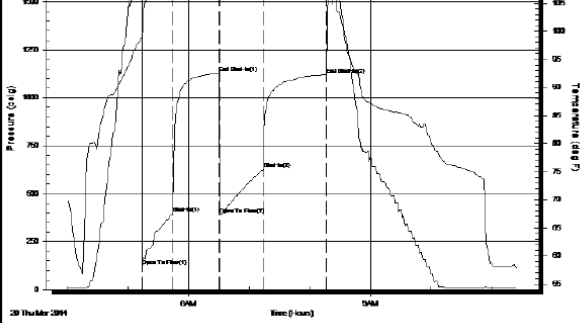
GENERAL INFORMATION:
 Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:13:30
 Time Test Ended: 14:58:30
 Interval: **3180.00 ft (KB) To 3242.00 ft (KB) (TVD)**
 Total Depth: 3242.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Poor
 Test Type: Conventional Bottom 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

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

ACCESSORIES

MINERAL

△ Chert White

FOSSIL

○ Oolite
⊕ Oomoldic

STRINGER

■ Sandstone

TEXTURE

FX Finexln

OTHER SYMBOLS

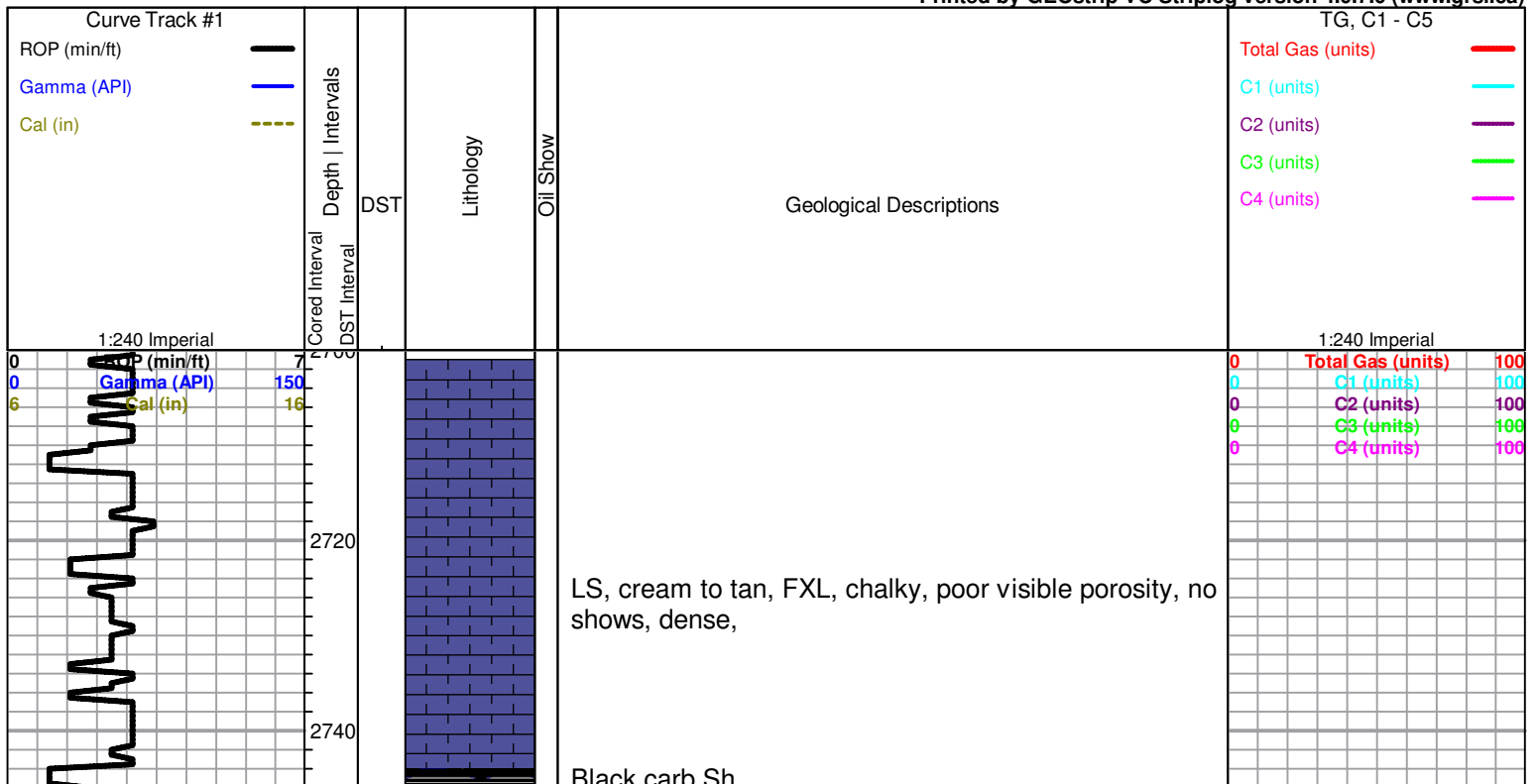
Oil Show

- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- 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

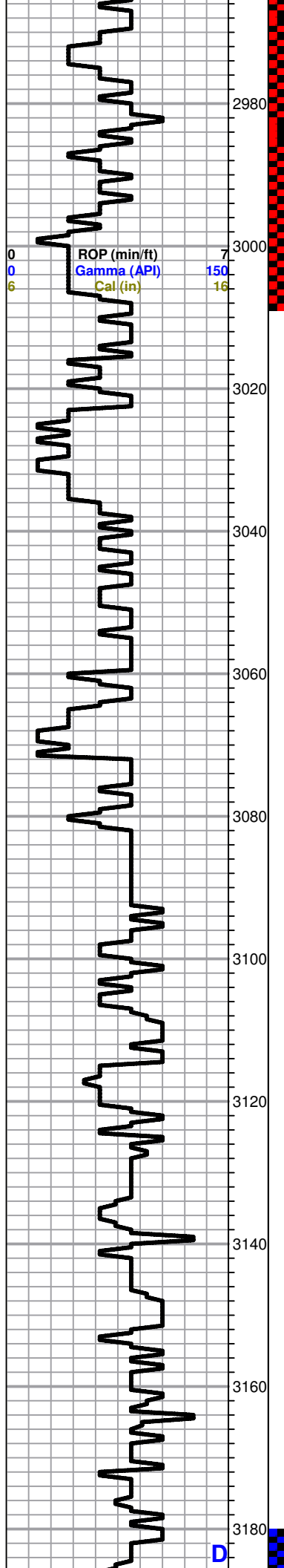
LS, cream to tan, FXL, cherty, chalky, poor visible porosity, no shows

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



ROP (min/ft) 7
 Gamma (API) 150
 Cal (in) 16

0
 0
 6

2980

3000

3020

3040

3060

3080

3100

3120

3140

3160

3180

FX

FX

FX

FX

FX

△

FX

○

○

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

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

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

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

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

LS, tan to brown, FXL, cherty, poor visible porosity, no shows

Sh. black carb

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

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

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

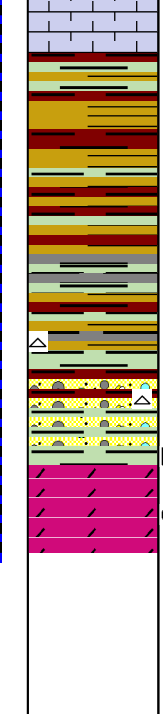
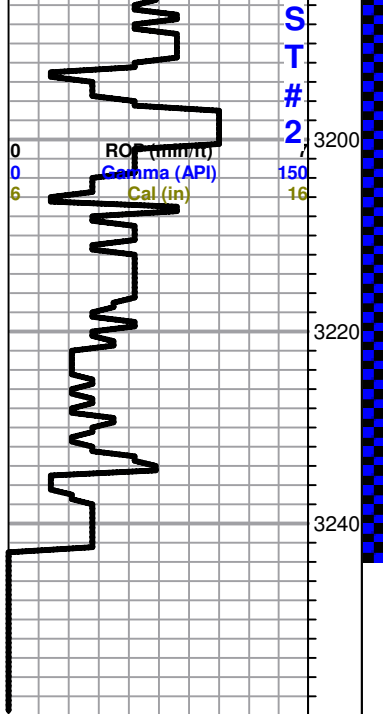
LS, tan, gray, FXL, cherty, dense, poor visible porosity, no shows

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

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