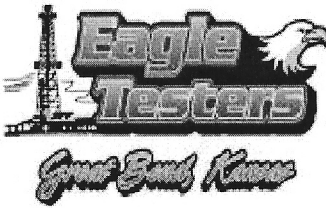


Arbuckle	3294	-1545	3290	-1541	3266	-1515	-30	-26
Total Depth	3360	-1611	3356	-1607	3373	-1622	11	15

### Drill Stem Test #1

	<b>DRILL STEM TEST REPORT</b>	
	Bird Dog Oil LLC	14-19s-10w Rice
	1801 Broadway Suite 200 Denver, Colorado 80202	Pioneer-Carter #2-14
ATTN: Keth Peavis	Job Ticket: 01037	DST#:1
	Test Start: 2018.07.01 @ 10:00:00	

**GENERAL INFORMATION:**

Formation: Douglas Sand  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:11:00  
Time Test Ended: 00:00:00

Interval: 2831.00 ft (KB) To 2856.00 ft (KB) (TVD)  
Total Depth: ft (KB) (TVD)  
Hole Diameter: 7.88 inches Job Condition: Fair

Test Type: Conventional Bottom Hole (Initial)  
Tester: Gene Budig  
Unit No: 1

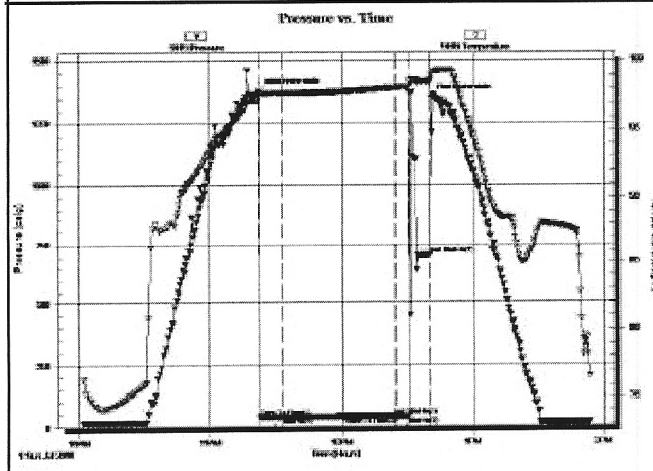
Reference Elevations: 1749.00 ft (KB)  
1741.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 9119 Inside**

Press@RunDepth: 706.35 psig @ 2851.00 ft (KB)  
Start Date: 2018.07.01 End Date: 2018.07.01  
Start Time: 10:00:00 End Time: 13:53:30

Capacity: 5000.00 psig  
Last Calib.: 2018.07.01  
Time On Btm: 2018.07.01 @ 11:22:30  
Time Off Btm: 2018.07.01 @ 12:41:00

**TEST COMMENT:** 1st Opening 10 Minutes very weak blow for 2 minutes and died  
1st Shut-in 45 Minutes no blow back  
2nd Opening 10 Minutes no blow flushed tool no help  
2nd shut-in 10 Minutes no blow back




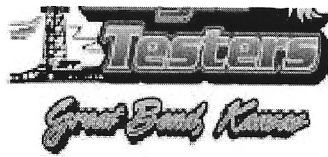
PRESSURE SUMMARY			
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1379.19	97.67	Initial Hydro-static
1	38.58	97.54	Open To Flow (1)
11	39.25	97.68	Shut-In(1)
62	42.80	98.07	End Shut-In(1)
63	38.90	98.08	Open To Flow (2)
68	38.54	98.15	Shut-In(2)
78	706.35	98.57	End Shut-In(2)
79	1352.86	98.88	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1.00	Drilling Mud	0.01

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

### Drill Stem Test #2

	<b>DRILL STEM TEST REPORT</b>	



Bird Dog Oil LLC

1801 Broadway Suite 200  
Denver, Colorado 80202

ATTN: Keith Peavis

14-19-10w Rice

Pioneer-Carter #2-14

Job Ticket: 01088

DST#: 2

Test Start: 2018.07.01 @ 08:47:00

**GENERAL INFORMATION:**

Formation: Douglas Sand

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:58:00

Time Test Ended: 12:20:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 2830.00 ft (KB) To 2886.00 ft (KB) (TVD)

Total Depth: 2886.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches - to b Condition: Fair

Reference Elevations: 1749.00 ft (KB)

1741.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 9139 Outside

Press@RunDepth: 60.40 psig @ 2878.46 ft (KB)

Start Date: 2018.07.01

End Date:

2018.07.02

Start Time: 20:47:00

End Time:

00:18:59

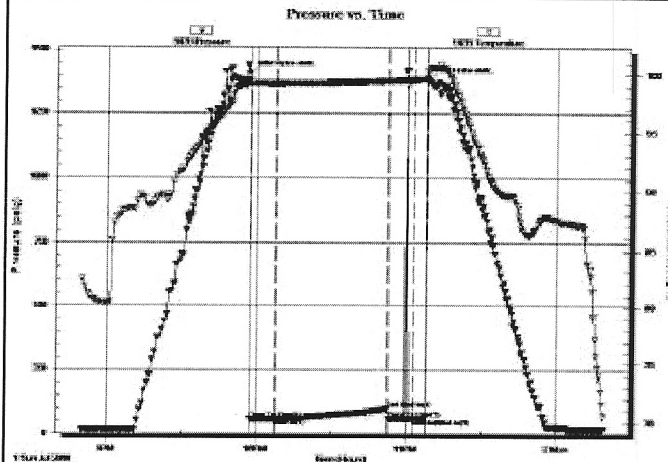
Capacity: 5000.00 psig

Last Callb.: 1899.12.30

Time On Btm: 2018.07.01 @ 21:57:00

Time Off Btm: 2018.07.01 @ 23:08:30

TEST COMMENT: 1st Opening 10 Minutes very weak surface blow for 5 minutes and died  
 2nd opening 45 minutes no blow back  
 2nd Opening 10 Minutes no blow flushed tool no help  
 2nd Shut-in 5 Minutes



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1405.38	99.51	Initial Hydro-static
1	57.93	99.21	Open To Flow (1)
11	58.48	99.19	Shut-in(1)
56	97.58	99.45	End Shut-in(1)
56	58.60	99.45	Open To Flow(2)
66	59.33	99.57	Shut-in(2)
71	60.40	99.63	End Shut-in(2)
72	1320.80	100.45	Final Hydro-static

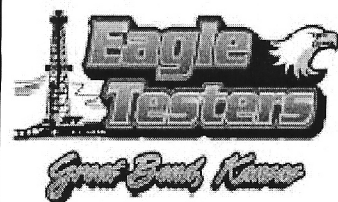
**Recovery**

Length (ft)	Description	Volume (bbl)
2.00	Drilling Mud	0.03

**Gas Rates**

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

**Drill Stem Test #3**



**DRILL STEM TEST REPORT**

Bird Dog Oil LLC

1801 Broadway Suite 200  
Denver, Colorado 80202

ATTN: Keith Peavis

14-19-10w Rice

Pioneer-Carter #2-14

Job Ticket: 01088

DST#: 3

Test Start: 2018.07.02 @ 11:36:00

**GENERAL INFORMATION:**

Formation: Lansing "D&E"

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 12:47:00  
 Time Test Ended: 17:43:00

Tester: Gene Budig  
 Unit No: 1

Interval: 2983.00 ft (KB) To 2911.00 ft (KB) (TVD)  
 Total Depth: ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Job Condition: Fair

Reference Elevations: 1749.00 ft (KB)  
 1741.00 ft (CF)  
 KB to GR/CF: 8.00 ft

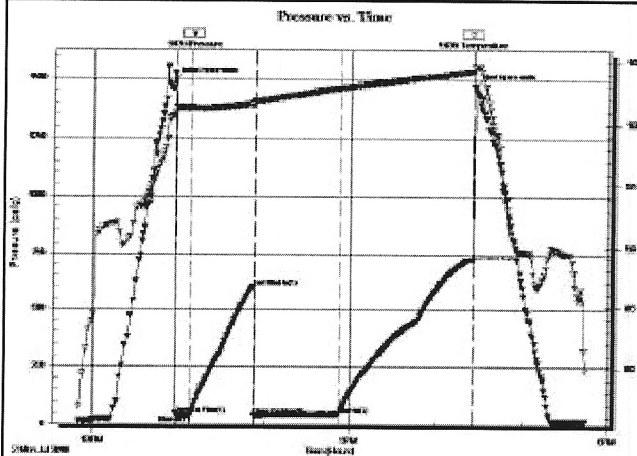
Serial #: 9139

Outside

Press@RunDepth: 714.04 psig @ 3006.00 ft (KB)  
 Start Date: 2018.07.02 End Date: 2018.07.02  
 Start Time: 11:47:00 End Time: 17:44:29

Capacity: 5000.00 psig  
 Last Calb.: 2018.07.02  
 Time On Btm: 2018.07.02 @ 12:57:30  
 Time Off Btm: 2018.07.02 @ 16:26:00

TEST COMMENT: 1st Opening 10 Minutes fair blow built to 11 inches into the water  
 1st Shut-in 45 Minutes fair blow back  
 2nd Opening 60 Minutes Strong blow decreased to fair blow  
 2nd Shut-in 90 Minutes fair blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1492.33	100.91	Initial Hydro-static
1	43.27	101.30	Open To Flow (1)
11	38.97	101.25	Shut-In(1)
55	599.81	101.54	End Shut-In(1)
56	38.75	101.78	Open To Flow(2)
115	42.26	102.79	Shut-In(2)
208	714.04	104.10	End Shut-In(2)
209	1468.56	104.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	oL CUT mud 20% Oil 80% Mud	0.35

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (M/d)

Drill Stem Test #4



DRILL STEM TEST REPORT

Bird Dog Oil LLC  
 1801 Broadway Suite 200  
 Denver, Colorado 80202  
 A TTN: Keith Peavis

14-19s-10w Rice  
 Pioneer-Carrier #2-14  
 Job Ticket: 01090 DST#:4  
 Test Start: 2018.07.03 @ 17:45:00

GENERAL INFORMATION:

Formation: Arbuckle  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:07:00  
 Time Test Ended: 01:00:00

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 1

Interval: 3219.00 ft (KB) To 3299.00 ft (KB) (TVD)  
 Total Depth: 3299.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Job Condition: Fair

Reference Elevations: 1749.00 ft (KB)  
 1741.00 ft (CF)  
 KB to GR/CF: 8.00 ft

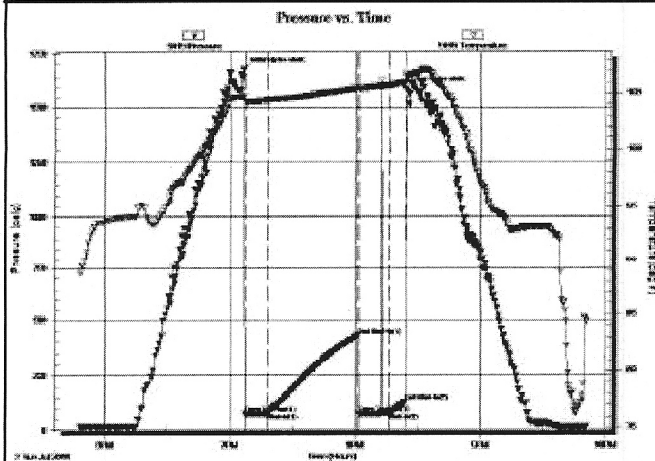
Serial #: 9119

Inside

Press@RunDepth: 126.56 psig @ 3293.35 ft (KB)  
 Start Date: 2018.07.03 End Date: 2018.07.03  
 Start Time: 17:45:00 End Time: 21:50:30

Capacity: 5000.00 psig  
 Last Calb.: 2018.07.03  
 Time On Btm: 2018.07.03 @ 19:06:30

TEST COMMENT: 1st Opening 10 Minutes very weak surface blow through out  
 1st Shut-in 45 Minutes  
 2nd Opening 16 Minutes no blow flushed tool no help  
 2ND SHUT-IN 5 Minutes



Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.64	104.72	Initial Hydro-static
1	73.22	104.21	Open To Flow (1)
12	78.12	104.34	Shut-In(1)
55	433.07	105.45	End Shut-In(1)
55	75.02	105.38	Open To Flow(2)
69	79.72	105.73	Shut-In(2)
77	126.56	105.95	End Shut-In(2)
78	1586.78	106.66	Final Hydro-static

Length (ft)	Description	Volume (bbl)
25.00	Drilling Mud	0.35

Choke (inches)	Pressure (psig)	Gas Rate (M cfd)

**ROCK TYPES**

- Dolprim
- Lmst fw<7
- shale, gry
- shale, red
- Siltst
- Lmst fw>7
- shale, grn
- Carbon Sh
- Ss

**ACCESSORIES**

**MINERAL**

- ▲ Chert, dark
- △ Chert White

**FOSSIL**

- ∩ Bioclastic or Fragmental
- F Fossils < 20%
- ◇ Oolite
- ⊕ Pellets
- ⊕ Oomoldic

**STRINGER**

- Limestone
- Sandstone
- ××× Siltstone

**TEXTURE**

- C Chalky
- L Lithogr

**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

Curve Track #1	Depth   Intervals	DST	Lithology	Oil Show	Geological Descriptions	TG, C1 - C5
ROP (min/ft)	—					Total Gas (units) —
Gamma (API)	—					C1 (units) —
Cal (in)	—					C2 (units) —
						C3 (units) —
						C4 (units) —
						C5 (units) —