



Company: Bird Dog Oil, LLC
Lease: Hibbert-Gates #1-7

SEC: 7 TWN: 22S RNG: 13W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1917 GL
 Field Name: Curtis Ext
 Pool: Infield
 Job Number: 331

Operation:
 Test Complete

DATE
 April
16
 2019

DST #4 Formation: Arbuckle Test Interval: 3773 - 3836' Total Depth: 3836'

Time On: 19:09 04/16 Time Off: 03:55 04/17
 Time On Bottom: 21:22 04/16 Time Off Bottom: 00:52 04/17

Electronic Volume Estimate:
 196'

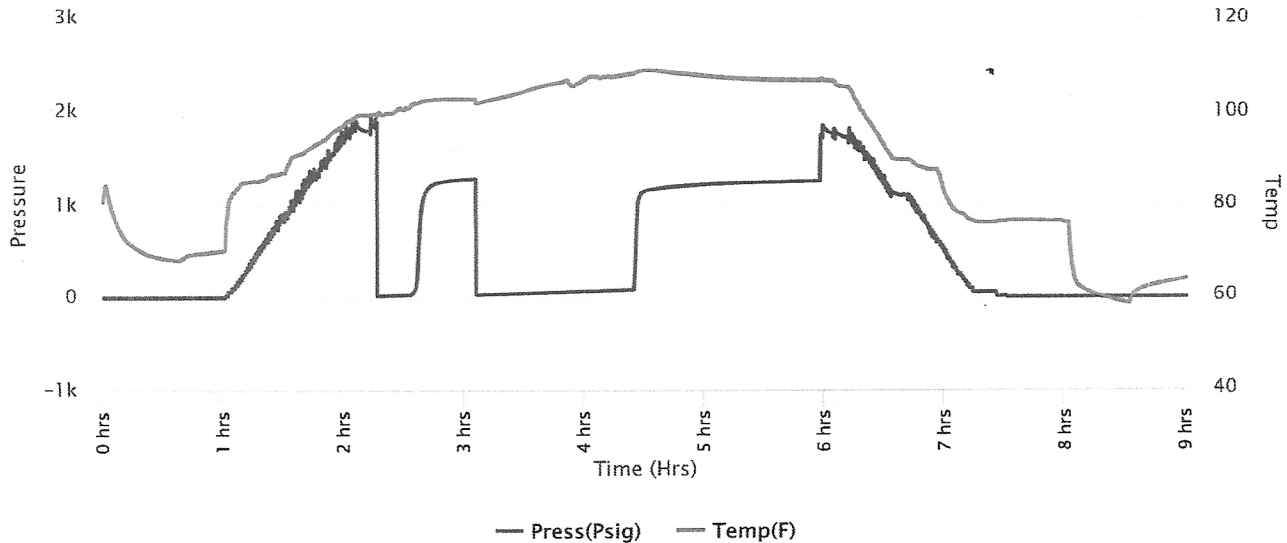
1st Open
 Minutes: 15
 Current Reading:
 3" at 15 min
 Max Reading: 3"

1st Close
 Minutes: 30
 Current Reading:
 0" at 30 min
 Max Reading: 0"

2nd Open
 Minutes: 75
 Current Reading:
 16.4" at 75 min
 Max Reading: 16.4"

2nd Close
 Minutes: 90
 Current Reading:
 5" at 90 min
 Max Reading: .5"

Inside Recorder





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Recovered

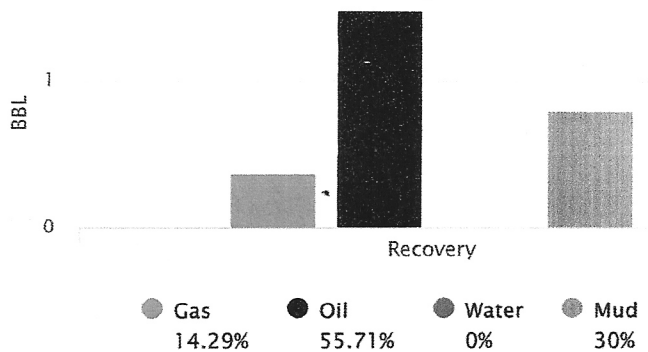
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
27	0.38421	G	100	0	0	0
99	1.40877	O	0	100	0	0
63	0.89649	SLOCM	0	10	0	90

Total Recovered: 189 ft
 Total Barrels Recovered: 2.68947

Reversed Out
 NO

Initial Hydrostatic Pressure	1767	PSI
Initial Flow	14 to 25	PSI
Initial Closed in Pressure	1278	PSI
Final Flow Pressure	29 to 85	PSI
Final Closed in Pressure	1256	PSI
Final Hydrostatic Pressure	1768	PSI
Temperature	109	°F
Pressure Change Initial Close / Final Close	1.8	%

Recovery at a glance



GIP cubic foot volume: 2.15715



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3836'
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BUCKET MEASUREMENT:

1st Open: 1/4 in. blow building to 3 ins. in 15 mins.
1st Close: No blow back.
2nd Open: 1/4 in. blow building. BOB in 58 mins.
2nd Close: No blow back.

REMARKS:

Gravity of oil was too thick to measure.
Below 19 gravity.

Tool Sample: 0% Gas 15% Oil 0% Water 85% Mud

Gravity: 19 @ 60 °F



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Down Hole Makeup

Heads Up: 25.28 FT	Packer 1: 3768.12 FT
Drill Pipe: 3765.83 FT <i>ID-3 1/2</i>	Packer 2: 3773.12 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3757.54 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3810 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 62.88	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 30.88 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 27 FT <i>4 1/2-FH</i>	



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DST #4 Formation: Arbuckle Test Interval: 3773 - Total Depth: 3836'
3836'

Time On: 19:09 04/16

Time Off: 03:55 04/17

Time On Bottom: 21:22 04/16

Time Off Bottom: 00:52 04/17

Mud Properties

Mud Type: Chemical

Weight: 9.3

Viscosity: 57

Filtrate: 9.2

Chlorides: 7,500 ppm



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DST #5 **Formation: Arbuckle** **Test Interval: 3836 - 3840'** **Total Depth: 3840'**
 Time On: 08:47 04/17 Time Off: 16:06 04/17
 Time On Bottom: 10:38 04/17 Time Off Bottom: 13:53 04/17

Electronic Volume Estimate:
 288'

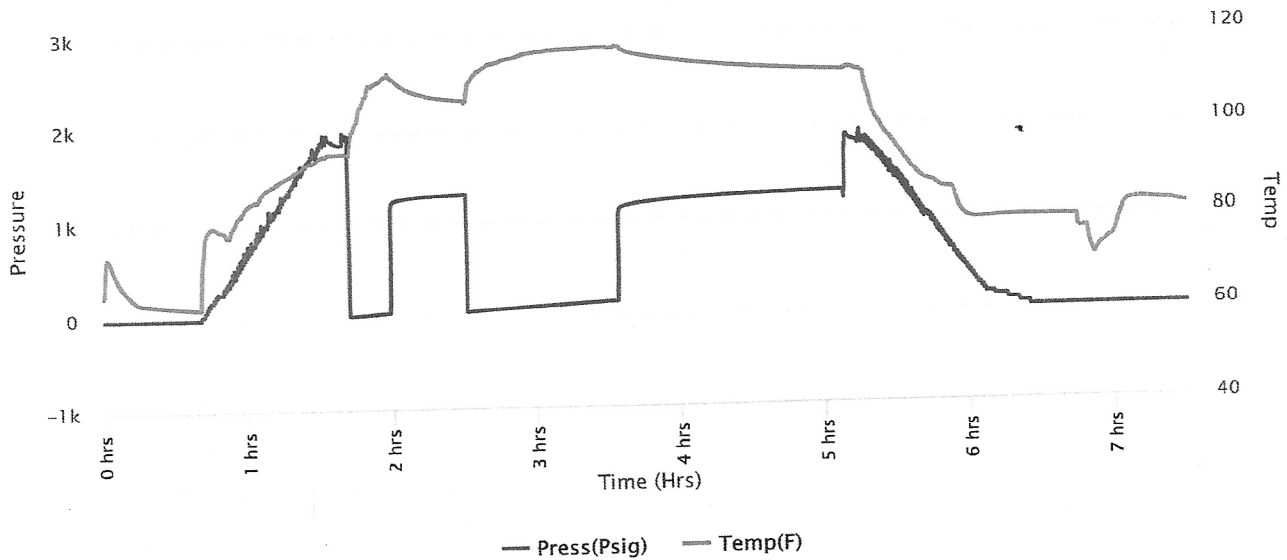
1st Open
 Minutes: 15
 Current Reading:
 7.8" at 15 min
 Max Reading: 7.8"

1st Close
 Minutes: 30
 Current Reading:
 .1" at 30 min
 Max Reading: .1"

2nd Open
 Minutes: 60
 Current Reading:
 20.8" at 60 min
 Max Reading: 20.8"

2nd Close
 Minutes: 90
 Current Reading:
 .25" at 90 min
 Max Reading: .25"

Inside Recorder





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Recovered

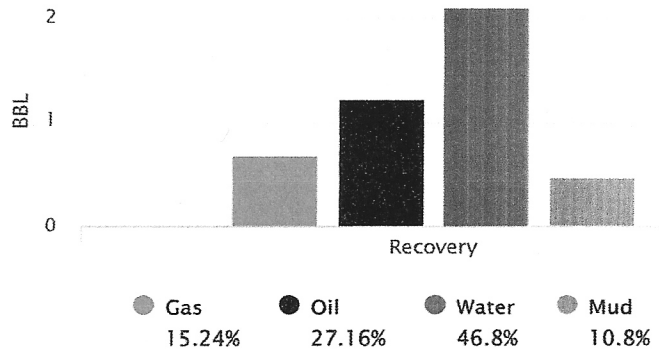
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
48	0.68304	G	100	0	0	0
78	1.10994	O	0	100	0	0
189	2.68947	SLOCSLMCW	0	4	78	18

Total Recovered: 315 ft
 Total Barrels Recovered: 4.48245

Reversed Out
 NO

Initial Hydrostatic Pressure	1836	PSI
Initial Flow	16 to 42	PSI
Initial Closed in Pressure	1281	PSI
Final Flow Pressure	44 to 131	PSI
Final Closed in Pressure	1259	PSI
Final Hydrostatic Pressure	1836	PSI
Temperature	118	°F
Pressure Change Initial Close / Final Close	1.7	%

Recovery at a glance



GIP cubic foot volume: 3.83493



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BUCKET MEASUREMENT:

1st Open: 1/2 in. blow building to 7 3/4 ins. in 15 mins.
1st Close: Weak blow back.
2nd Open: 1/4 in. blow building. BOB in 34 mins.
2nd Close: 1/4 in. blow back.

REMARKS:

Tool Sample: 0% Gas 1% Oil 95% Water 4% Mud
Gravity: 15 @ 60 °F
Ph: 7
Measured RW: .42 @ 75 degrees °F
RW at Formation Temp: 0.275 @ 118 °F
Chlorides: 25,000 ppm



Company: **Diamond Testing LLC**
 Lease: **Hibbert-Gates #1-7**

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 County: STAFFORD
 State: Kansas
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 Elevation: 1917 GL
 Field Name: Curtis Ext
 Pool: Infield
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 Time On: 08:47 04/17 Time Off: 16:06 04/17
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Down Hole Makeup

Heads Up: 26.57 FT	Packer 1: 3831 FT
Drill Pipe: 3830 FT <i>ID-3 1/2</i>	Packer 2: 3836 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3820.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3838 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 4	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 3 FT <i>4 1/2-FH</i>	



Company: **DRILLING**
 Lease: **Hibbert-Gates #1-7**

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 Time On: 08:47 04/17 Time Off: 16:06 04/17
 Time On Bottom: 10:38 04/17 Time Off Bottom: 13:53 04/17

Mud Properties

Mud Type: Chemical Weight: 9.2 Viscosity: 70 Filtrate: 10.4 Chlorides: 9,500 ppm