



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
14
 2019

DST #1 **Formation: L/KC "I&J"** **Test Interval: 3570 - 3614'** **Total Depth: 3614'**
 Time On: 15:38 04/14 Time Off: 23:50 04/14
 Time On Bottom: 18:09 04/14 Time Off Bottom: 21:24 04/14

Electronic Volume Estimate:
 67'

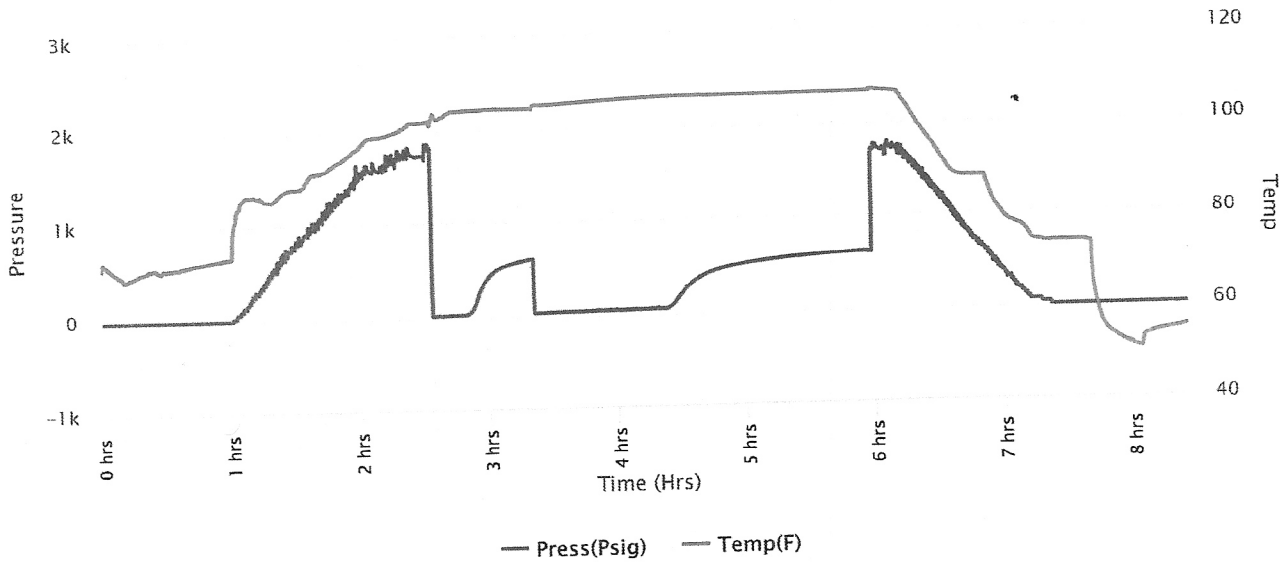
1st Open
 Minutes: 15
 Current Reading:
 4.5" at 15 min
 Max Reading: 4.5"

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

2nd Open
 Minutes: 60
 Current Reading:
 2.5" at 60 min
 Max Reading: 2.7"

2nd Close
 Minutes: 90
 Current Reading:
 0" at 90 min
 Max Reading: 0"

Inside Recorder





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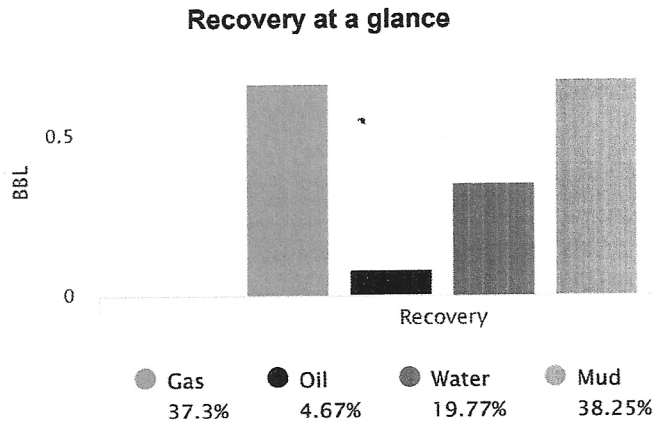
DST #1 **Formation: L/KC "I&J"** **Test Interval: 3570 - 3614'** **Total Depth: 3614'**
 Time On: 15:38 04/14 Time Off: 23:50 04/14
 Time On Bottom: 18:09 04/14 Time Off Bottom: 21:24 04/14

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
47	0.66881	G	100	0	0	0
16	0.22768	SLWCOCM	0	25	10	65
63	0.89649	SLOCHWCM	0	3	37	60

Total Recovered: 126 ft
 Total Barrels Recovered: 1.79298

Reversed Out
 NO

Initial Hydrostatic Pressure	1721	PSI
Initial Flow	14 to 25	PSI
Initial Closed in Pressure	599	PSI
Final Flow Pressure	25 to 51	PSI
Final Closed in Pressure	614	PSI
Final Hydrostatic Pressure	1729	PSI
Temperature	107	°F
Pressure Change Initial Close / Final Close	0.0	%



GIP cubic foot volume: 3.75503



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 Inc - Rig 3
 Elevation: 1917 GL
 Field Name: Curtis Ext
 Pool: Infield
 Job Number: 331

Operation:
 Test Complete

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14
 2019

DST #1	Formation: L/KC	Test Interval: 3570 -	Total Depth: 3614'
	"I&J"	3614'	
	Time On: 15:38 04/14	Time Off: 23:50 04/14	
	Time On Bottom: 18:09 04/14	Time Off Bottom: 21:24 04/14	

BUCKET MEASUREMENT:

1st Open: 1/2 in. blow building to 4 1/2 ins. in 15 mins.
 1st Close: No blow back.
 2nd Open: 1/4 in. blow building to 2 3/4 ins. in 60 mins.
 2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 0% Oil 97% Water 3% Mud
 Ph: 7
 Measured RW: .34 @ 50 degrees °F
 RW at Formation Temp: 0.17 @ 107 °F
 Chlorides: 42,000 ppm



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 Inc - Rig 3
 Elevation: 1917 GL
 Field Name: Curtis Ext
 Pool: Infield
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Operation:
 Test Complete

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 14
 2019

DST #1 Formation: L/KC Test Interval: 3570 - Total Depth: 3614'
 "I&J" 3614'
 Time On: 15:38 04/14 Time Off: 23:50 04/14
 Time On Bottom: 18:09 04/14 Time Off Bottom: 21:24 04/14

Down Hole Makeup

Heads Up: 8.92000000000002 FT	Packer 1: 3564.73 FT
Drill Pipe: 3546.08 FT	Packer 2: 3569.73 FT
ID-3 1/2	Top Recorder: 3554.15 FT
Weight Pipe: FT	Bottom Recorder: 3607 FT
ID-2 7/8	Well Bore Size: 7 7/8
Collars: 0 FT	Surface Choke: 1"
ID-2 1/4	Bottom Choke: 5/8"
Test Tool: 33.57 FT	
ID-3 1/2-FH	
Jars	
Safety Joint	
Total Anchor: 44.27	
Anchor Makeup	
Packer Sub: 1 FT	
Perforations: (top): 2 FT	
4 1/2-FH	
Change Over: .5 FT	
Drill Pipe: (In anchor): 31.77 FT	
ID-3 1/2	
Change Over: 1 FT	
Perforations: (below): 8 FT	
4 1/2-FH	



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

Well: 1101-25-RIG-109
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwest Drilling, Inc. - Rig 3
 Elevation: 1917 GL
 Field Name: Curtis Ext
 Pool: Infield
 Job Number: 331

Operation:
 Test Complete

DATE
 April
14
 2019

DST #1	Formation: L/KC	Test Interval: 3570 -	Total Depth: 3614'
	"I&J"	3614'	
	Time On: 15:38 04/14	Time Off: 23:50 04/14	
	Time On Bottom: 18:09 04/14	Time Off Bottom: 21:24 04/14	

Mud Properties

Mud Type: Chemical **Weight:** 9.5 **Viscosity:** 52 **Filtrate:** 11.2 **Chlorides:** 8,500 ppm



Company: Bird Dog Oil, LLC
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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
15
 2019

DST #2 Formation: L/KC "K" Test Interval: 3615 - 3650' Total Depth: 3650'

Time On: 06:56 04/15 Time Off: 13:58 04/15
 Time On Bottom: 09:20 04/15 Time Off Bottom: 11:35 04/15

Electronic Volume Estimate:
 31'

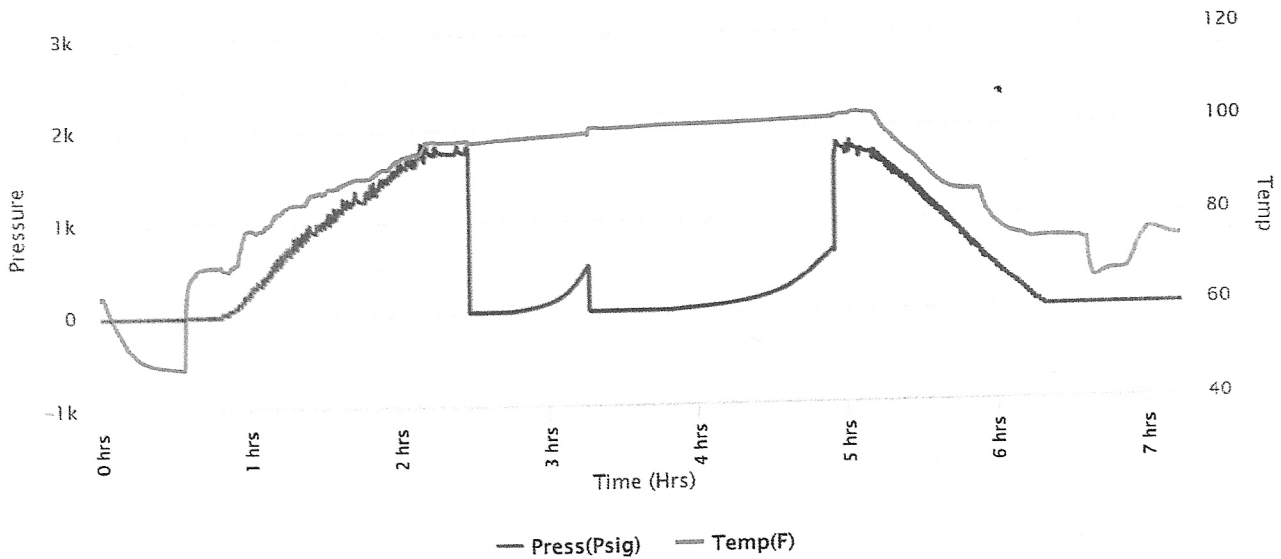
1st Open
 Minutes: 15
 Current Reading:
 1" at 15 min
 Max Reading: 1"

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

2nd Open
 Minutes: 30
 Current Reading:
 2.3" at 30 min
 Max Reading: 2.3"

2nd Close
 Minutes: 60
 Current Reading:
 0" at 60 min
 Max Reading: 0"

Inside Recorder





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
15
 2019

DST #2 Formation: L/KC "K" Test Interval: 3615 - 3650' Total Depth: 3650'
 Time On: 06:56 04/15 Time Off: 13:58 04/15
 Time On Bottom: 09:20 04/15 Time Off Bottom: 11:35 04/15

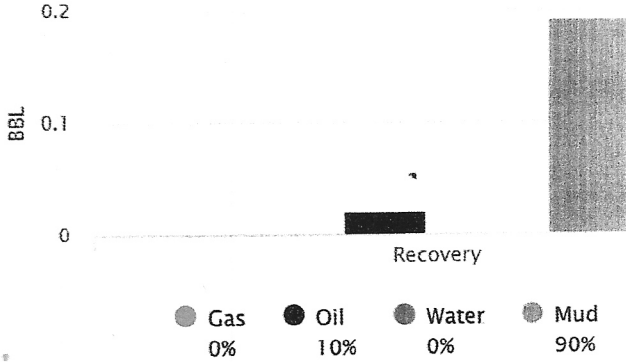
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLS					
15	0.21345	SLOCM	0	10	0	90

Total Recovered: 15 ft
 Total Barrels Recovered: 0.21345

Reversed Out
 NO

Initial Hydrostatic Pressure	1742	PSI
Initial Flow	12 to 14	PSI
Initial Closed in Pressure	514	PSI
Final Flow Pressure	14 to 17	PSI
Final Closed in Pressure	644	PSI
Final Hydrostatic Pressure	1743	PSI
Temperature	102	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 0

COMPANY: Bird Dog Oil, LLC
 LEASE AND WELL NO.: Hibbert-Gates No. 1-7 SEC. 7 TWP. 22S RGE. 13W TEST NO. 2 DATE 4-15-



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
15
2019

DST #2 Formation: L/KC "K" Test Interval: 3615 - Total Depth: 3650'
3650'
Time On: 06:56 04/15 Time Off: 13:58 04/15
Time On Bottom: 09:20 04/15 Time Off Bottom: 11:35 04/15

BUCKET MEASUREMENT:

1st Open: Weak, surface blow building to 1 in. in 15 mins.
1st Close: No blow back.
2nd Open: 1 in. blow building to 2 1/4 ins. in 30 mins.
2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 40% Oil 0% Water 60% Mud



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

SEC: 7 TWP: 22S RING: 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
15
 2019

DST #2 Formation: L/KC "K" Test Interval: 3615 - 3650' Total Depth: 3650'
 Time On: 06:56 04/15 Time Off: 13:58 04/15
 Time On Bottom: 09:20 04/15 Time Off Bottom: 11:35 04/15

Down Hole Makeup

Heads Up: 27.17 FT	Packer 1: 3610 FT
Drill Pipe: 3609.6 FT <i>ID-3 1/2</i>	Packer 2: 3615 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3599.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3619 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: 35	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: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 32 FT <i>4 1/2-FH</i>	

COMPANY: BIRD DOG OIL, LLC
 LEASE AND WELL NO. HIBBERT-GATES No. 1-7 SEC. 7 TWP. 22S RING. 13W TEST NO. 2 DATE 4-15-19



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

SEC 7 T1N 23S R1G 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
15
2019

DST #2 Formation: L/KC "K" Test Interval: 3615 - 3650' Total Depth: 3650'
Time On: 06:56 04/15 Time Off: 13:58 04/15
Time On Bottom: 09:20 04/15 Time Off Bottom: 11:35 04/15

Mud Properties

Mud Type: Chemical Weight: 9.3 Viscosity: 57 Filtrate: 9.2 Chlorides: 7,500 ppm



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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 #3 Formation: Viola Test Interval: 3712 - 3777' Total Depth: 3777'
 Time On: 02:53 04/16 Time Off: 08:52 04/16
 Time On Bottom: 04:58 04/16 Time Off Bottom: 06:03 04/16

Electronic Volume Estimate:
 8'

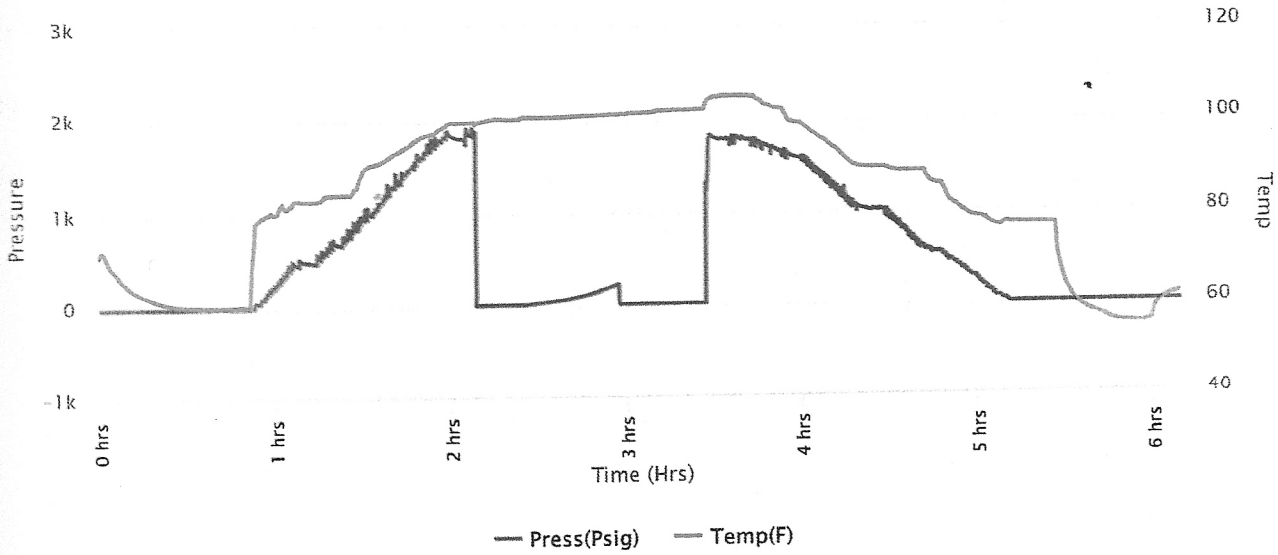
1st Open
 Minutes: 15
 Current Reading:
 .8" at 15 min
 Max Reading: .8"

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

2nd Open
 Minutes: 20
 Current Reading:
 0" at 20 min
 Max Reading: 0"

2nd Close
 Minutes: 0
 Current Reading:
 0" at 0 min
 Max Reading: 0"

Inside Recorder



COMPANY Bird Dog Oil, LLC
 LEASE AND WELL NO. Hibbert-Gates No. 1-7 SEC. 7 TWP. 22S RGE. 13W TEST NO. 3 DATE 4-16



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
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16
 2019

DST #3 Formation: Viola Test Interval: 3712 - 3777' Total Depth: 3777'
 Time On: 02:53 04/16 Time Off: 08:52 04/16
 Time On Bottom: 04:58 04/16 Time Off Bottom: 06:03 04/16

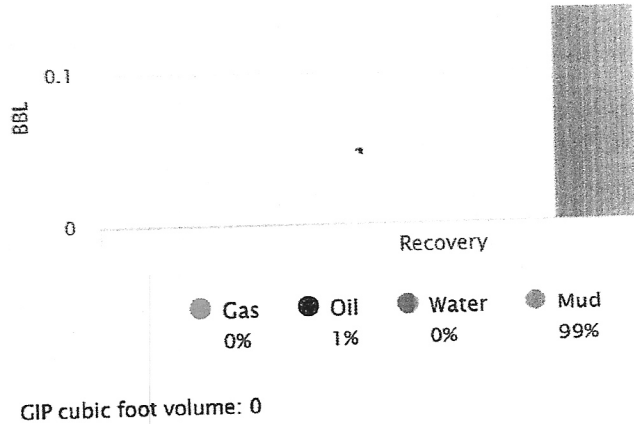
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.1423	SLOCM	0	1	0	99

Total Recovered: 10 ft
 Total Barrels Recovered: 0.1423

Reversed Out
 NO

Initial Hydrostatic Pressure	1791	PSI
Initial Flow	13 to 16	PSI
Initial Closed in Pressure	236	PSI
Final Flow Pressure	17 to 18	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1793	PSI
Temperature	102	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





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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 #3 Formation: Viola Test Interval: 3712 - 3777' Total Depth: 3777'
Time On: 02:53 04/16 Time Off: 08:52 04/16
Time On Bottom: 04:58 04/16 Time Off Bottom: 06:03 04/16

BUCKET MEASUREMENT:

1st Open: Weak, surface building to 3/4 in. in 30 mins.
1st Close: No blow back.
2nd Open: No blow.
2nd Close: No blow back.

REMARKS:

Pulled tool 10 mins. into 2nd Open due to lack of blow.

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



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

SEC: 7 TWN: 22S R1NG: 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
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DST #3 **Formation: Viola** **Test Interval: 3712 - 3777'** **Total Depth: 3777'**
 Time On: 02:53 04/16 Time Off: 08:52 04/16
 Time On Bottom: 04:58 04/16 Time Off Bottom: 06:03 04/16

Down Hole Makeup

Heads Up: 25.67 FT	Packer 1: 3706.88 FT
Drill Pipe: 3704.98 FT <i>ID-3 1/2</i>	Packer 2: 3711.88 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3696.3 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3749 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: 65.12	Surface Choke: 1"
Anchor Makeup	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): 31.12 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 29 FT <i>4 1/2-FH</i>	



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DST #3 Formation: Viola Test Interval: 3712 - 3777' Total Depth: 3777'

Time On: 02:53 04/16 Time Off: 08:52 04/16
Time On Bottom: 04:58 04/16 Time Off Bottom: 06:03 04/16

Mud Properties

Mud Type: Chemical Weight: 9.3 Viscosity: 57 Filtrate: 9.2 Chlorides: 7,500 ppm