

DRILL STEM TEST REPORT

Bird Dog Oil, LLC

23/19s/11w/Barton

1801 Broadway STE #450 Denver Co, 80202

Lakin-Sieker #1-23

Job Ticket: 19196

DST#: 1

ATTN: Adam Highswinger

Test Start: 2014.01.29 @ 17:55:00

GENERAL INFORMATION:

Formation: LKC "A-B"

Deviated: No Whipstock ft (KB)

Time Tool Opened: 20:36:00

Time Test Ended: 01:50:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/30/Great Bend

Interval: 3036.00 ft (KB) To 3085.00 ft (KB) (TVD)

Reference Elevations: 1789.00 ft (KB)

Total Depth: 3085.00 ft (KB) (TVD)

1779.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8159

Outside

Press@RunDepth: 948.75 psia @ 3082.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2014.01.29

End Date:

2014.01.30

Last Calib.: 2014.01.28

Start Time: 17:55:00

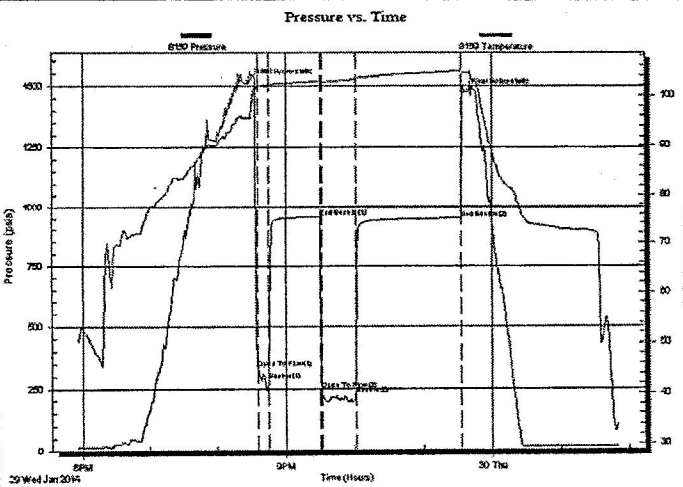
End Time:

01:51:00

Time On Btm: 2014.01.29 @ 20:27:30

Time Off Btm: 2014.01.29 @ 23:36:00

TEST COMMENT: 1st Open/ 10 Minutes. Strong blow built to bottom of 5 gallon bucket of deisel in 15 seconds. Gas to surface in 7 Minutes.
1st Shut In/ 45 Minutes. Weak surface blow back.
2nd Open/ 30 Minutes. Strong blow built to bottom of 5 gallon bucket of deisel in 10 seconds.



PRESSURE SUMMARY

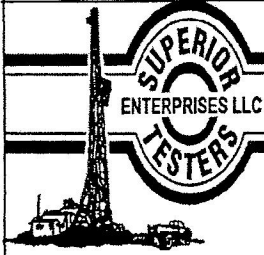
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1518.31	95.68	Initial Hydro-static
9	334.79	101.85	Open To Flow (1)
18	285.76	102.13	Shut-In(1)
63	956.24	102.94	End Shut-In(1)
65	247.11	102.75	Open To Flow (2)
94	261.89	103.25	Shut-In(2)
185	948.75	104.95	End Shut-In(2)
189	1473.43	104.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	5% Gas, 95% Mud	1.68
60.00	5% Gas, 2.5% Oil, 92.5% Mud.	0.84

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	22.80	655.47
Last Gas Rate	1.00	22.80	655.47
Max. Gas Rate	1.00	22.80	655.47



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1801 Broadway STE #450 Denver Co, 80202

Lakin-Sieker #1-23

ATTN: Adam Highswinger

Job Ticket: 19197

DST#: 2

Test Start: 2014.01.30 @ 12:20:00

GENERAL INFORMATION:

Formation: LKC "G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:06:00

Time Test Ended: 19:17:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/30/Great Bend

Interval: 3135.00 ft (KB) To 3150.00 ft (KB) (TVD)

Reference Elevations: 1789.00 ft (KB)

Total Depth: 3150.00 ft (KB) (TVD)

1779.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8159

Press@RunDepth: 727.48 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2014.01.30

End Date: 2014.01.30

Last Calib.: 2014.01.28

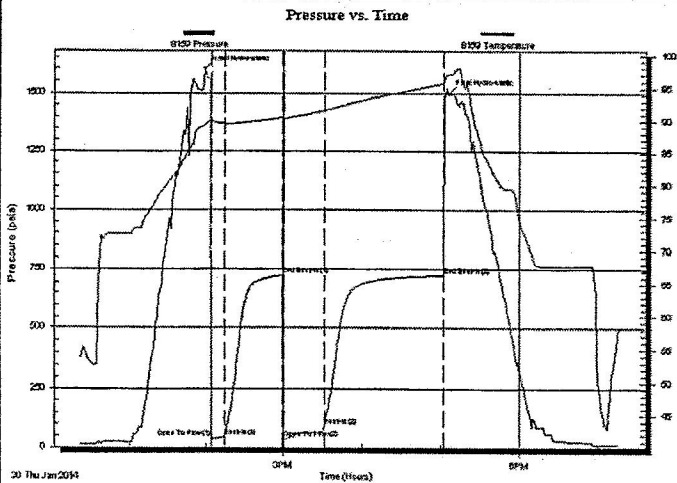
Start Time: 12:20:00

End Time: 19:17:00

Time On Btm: 2014.01.30 @ 13:59:30

Time Off Btm: 2014.01.30 @ 17:05:30

TEST COMMENT: 1st Open/ 10 Minutes. Good blow built to bottom of 5 gallon bucket of deisel in 4 minutes and 30 seconds.
 1st SHut In/ 45 Minutes. No blow back.
 2nd Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket of deisel in 5 minutes and 30 seconds.
 2nd SHut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

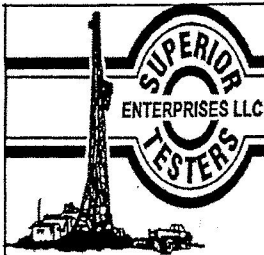
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1598.86	89.44	Initial Hydro-static
5	41.39	89.92	Open To Flow (1)
15	45.27	89.61	Shut-In(1)
60	726.35	90.54	End Shut-In(1)
62	38.16	90.42	Open To Flow (2)
92	89.66	91.62	Shut-In(2)
183	727.48	95.72	End Shut-In(2)
186	1497.80	97.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	100% mud with trace of oil	0.20
60.00	40% gas, 40% oil, 20% mud	0.30

Gas Rates

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



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Bird Dog Oil, LLC
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 ATTN: Adam Highswinger

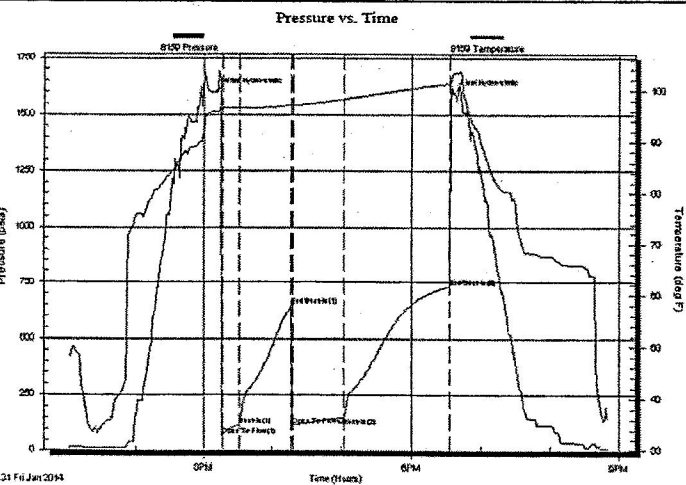
23/19s/11w/Barton
Lakin-Sieker #1-23
 Job Ticket: 19198 **DST#: 3**
 Test Start: 2014.01.31 @ 13:00:00

GENERAL INFORMATION:

Formation: **LKC "J-L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:17:30
 Time Test Ended: 20:52:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzern
 Unit No: 3330/30/Great Bend
 Interval: **3230.00 ft (KB) To 3305.00 ft (KB) (TVD)**
 Total Depth: 3305.00 ft (KB) (TVD)
 Reference Elevations: 1789.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 KB to GR/CF: 10.00 ft

Serial #: 8159 Outside
 Press@RunDepth: 731.48 psia @ 3302.34 ft (KB) Capacity: 5000.00 psia
 Start Date: 2014.01.31 End Date: 2014.01.31 Last Calib.: 2014.01.29
 Start Time: 13:00:00 End Time: 20:51:00 Time On Btm: 2014.01.31 @ 15:12:00
 Time Off Btm: 2014.01.31 @ 18:36:00

TEST COMMENT: 1st Open/ 15 Minutes. Fair blow built to bottom of 5 gallon bucket of deisel in 14 minutes and 15 seconds.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 45 Minutes. Fair blow built to bottom of 5 gallon bucket of deisel in 10 minutes and 30 seconds.
 2nd Shut In/ 90 Minutes. Slight surface blow back.



PRESSURE SUMMARY

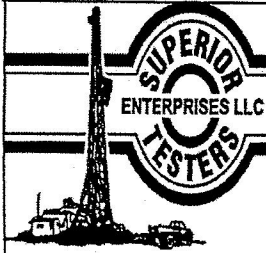
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1602.86	95.92	Initial Hydro-static
5	69.12	96.47	Open To Flow (1)
20	116.36	96.55	Shut-In(1)
65	649.10	97.20	End Shut-In(1)
67	116.14	97.08	Open To Flow (2)
111	151.57	98.32	Shut-In(2)
201	731.48	101.37	End Shut-In(2)
204	1596.12	103.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	315 foot 100% gas	0.00
63.00	10% Oil, 90% Mud	0.31
63.00	40% Gas, 20% Oil, 40% Mud	0.34
126.00	60% Gas, 20% Oil, 20% Mud	1.77

Gas Rates

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



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1801 Broadway STE #450 Denver Co, 80202

Lakin-Sieker #1-23

Job Ticket: 19199

DST#: 4

ATTN: Adam Highswinger

Test Start: 2014.02.01 @ 08:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:56:00

Time Test Ended: 13:41:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/30/Great Bend

Interval: 3302.00 ft (KB) To 3360.00 ft (KB) (TVD)

Total Depth: 3360.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1789.00 ft (KB)

1779.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6806

Press@RunDepth: 95.39 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2014.02.01

End Date: 2014.02.01

Last Calib.: 2014.01.30

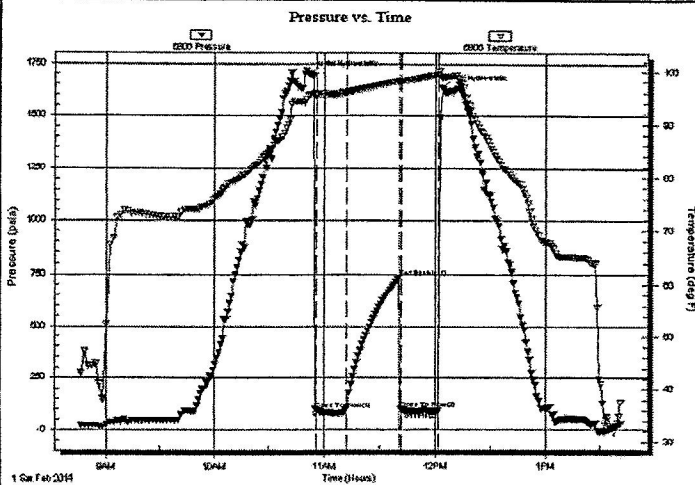
Start Time: 08:45:00

End Time: 13:41:30

Time On Btm: 2014.02.01 @ 10:52:30

Time Off Btm: 2014.02.01 @ 12:04:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 1 and a half inches into deisel.
 1st Shut In/ 30 Minutes. No blow back.
 2nd Open/ 15 Minutes. Weak blow built to 1 inch in 15 Minutes. Pulled test per Geo.
 2nd Shut In/ N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1700.11	95.57	Initial Hydro-static
4	96.47	95.43	Open To Flow (1)
20	95.39	95.97	Shut-In(1)
48	734.81	98.14	End Shut-In(1)
50	97.81	98.11	Open To Flow (2)
69	88.35	99.51	Shut-In(2)
72	1629.64	98.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud.	0.05

Gas Rates

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