

DRILL STEM TEST REPORT

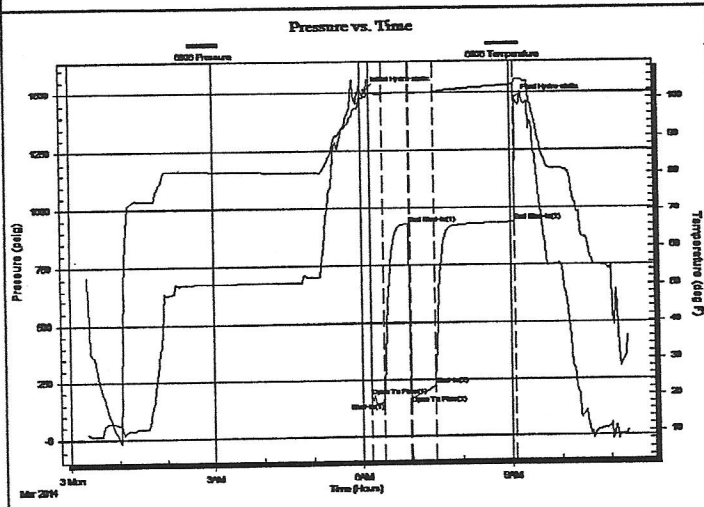
Bird Dog Oil, LLC 13/19s/11w/Barton
 1801 Broadway Ste 450, Denver Co 80202 Lakin-Engelhardt1-13
 ATTN: Adam Nighswinger Job Ticket: 19207 DST#: 1
Test Start: 2014.03.03 @ 00:20:00

GENERAL INFORMATION:

Formation: **LKC "A-B"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:12:00 Tester: Shane Konzem
 Time Test Ended: 11:20:00 Unit No: 3330/30/Great Bend
 Interval: **3036.00 ft (KB) To 3088.00 ft (KB) (TVD)** Reference Elevations: 1788.00 ft (KB)
 Total Depth: 3088.00 ft (KB) (TVD) 1778.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: **6806** Outside
 Press@RunDepth: 936.46 psig @ 3085.60 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.03 End Date: 2014.03.03 Last Calib.: 2014.03.03
 Start Time: 00:20:00 End Time: 11:21:00 Time On Btm: 2014.03.03 @ 06:05:30
 Time Off Btm: 2014.03.03 @ 09:06:00

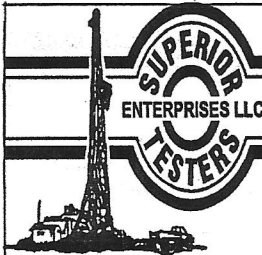
TEST COMMENT: 1st Open/ 15 Minutes. Strong blow built to bottom of 5 gallon bucket od deisel in 30 seconds.
 1st Shut In/ 30 Minutes. Blow back built to bottom of 5 gallon bucket then died back to 9 inches.
 2nd Open/ 30 Minutes. Strong blow built to bottom of 5 gallon bucket in 45 seconds. Gas to surface in 7Min.
 2nd Shut In/ 90 Minutes. Blow back built to bottom of 5 gallon bucket then died back to 6 inches.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1508.73	100.28	Initial Hydro-static
6	176.21	101.10	Open To Flow (1)
20	148.77	101.09	Shut-In(1)
52	930.36	101.51	End Shut-In(1)
53	177.65	101.32	Open To Flow (2)
82	224.74	101.66	Shut-In(2)
179	936.46	103.45	End Shut-In(2)
181	1472.65	104.28	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
209.00	20% Gas, 80% Mud	2.93

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	10.80	92.31
Last Gas Rate	0.38	13.50	102.20
Max. Gas Rate	0.38	17.00	115.03



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 1801 Broadway Ste 450, Denver Co 80202
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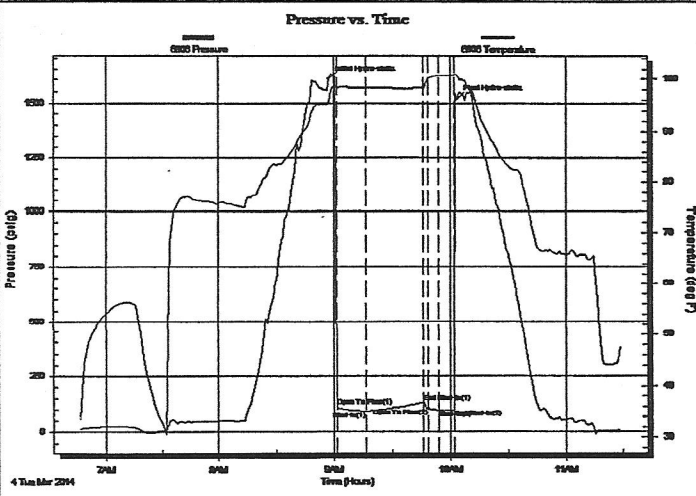
13/19s/11w/Barton
 Lakin-Engelhardt1-13
 Job Ticket: 19208 DST#: 2
 Test Start: 2014.03.04 @ 06:45:00

GENERAL INFORMATION:

Formation: **LKC "H-J"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 09:01:30
 Time Test Ended: 11:28:30
 Interval: **3174.00 ft (KB) To 3240.00 ft (KB) (TVD)**
 Total Depth: **3240.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Shane Konzem**
 Unit No: **3330/30/Great Bend**
 Reference Elevations: **1788.00 ft (KB)**
1778.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 6806 **Outside**
 Press@RunDepth: **101.26 psig @ 3237.75 ft (KB)** Capacity: **5000.00 psig**
 Start Date: **2014.03.04** End Date: **2014.03.04** Last Calib.: **2014.03.04**
 Start Time: **06:45:00** End Time: **11:28:30** Time On Btm: **2014.03.04 @ 08:57:30**
 Time Off Btm: **2014.03.04 @ 10:03:30**

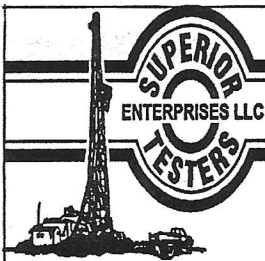
TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 1 inch into deisel.
 1st Shut In/ 30 Minutes. No blow back.
 2nd Open/ 5 Minutes. Weak blow built to 1/2 inch into deisel. Pulled test per Geo.
 2nd Shut In/ N/A



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.67	95.88	Initial Hydro-static
4	114.18	98.48	Open To Flow (1)
19	94.35	98.40	Shut-In(1)
49	132.50	98.33	End Shut-In(1)
51	104.65	100.09	Open To Flow (2)
57	97.16	100.76	Shut-In(2)
65	101.26	100.84	End Shut-In(2)
66	1513.80	100.87	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	100% Mud	0.21

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



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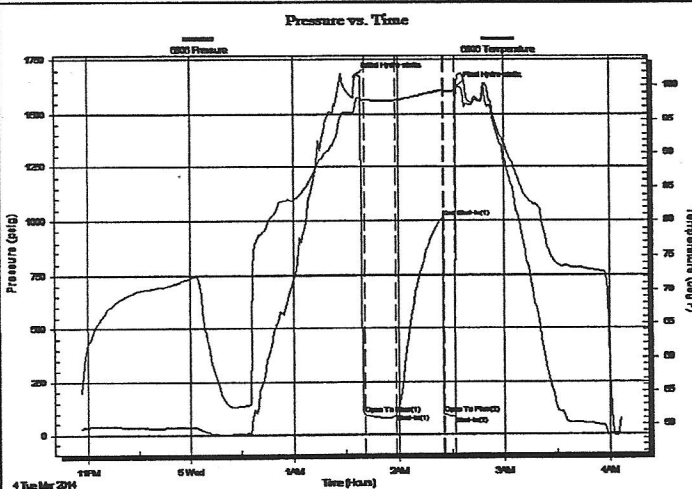
13/19s/11w/Barton
 Lakin-Engelhardt1-13
 Job Ticket: 19209 DST#: 3
 Test Start: 2014.03.04 @ 22:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:40:30
 Time Test Ended: 04:08:30
 Interval: **3294.00 ft (KB) To 3333.00 ft (KB) (TVD)**
 Total Depth: **3333.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Shane Konzern**
 Unit No: **3330/30/Great Bend**
 Reference Elevations: **1788.00 ft (KB)**
1778.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: **6806** Outside
 Press@RunDepth: **1015.51 psig @ 3330.00 ft (KB)** Capacity: **5000.00 psig**
 Start Date: **2014.03.04** End Date: **2014.03.05** Last Calib.: **2014.03.05**
 Start Time: **22:55:00** End Time: **04:07:00** Time On Btm: **2014.03.05 @ 01:35:30**
 Time Off Btm: **2014.03.05 @ 02:33:30**

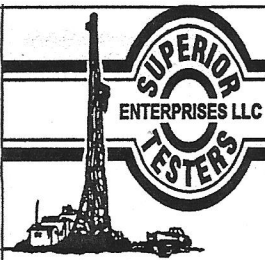
TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 1 inch into bucket of deisel.
 1st Shut In/ 30 Minutes. No blow back.
 2nd Open/ 10 Minutes. Weak surface blow, flushed tool, had good flush bubbles and maintained weak surface blow. Pulled tool per Geo.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1671.42	96.44	Initial Hydro-static
5	96.47	98.03	Open To Flow (1)
23	97.22	98.00	Shut-In(1)
50	1015.51	99.30	End Shut-In(1)
51	97.10	99.11	Open To Flow (2)
57	82.86	99.29	Shut-In(2)
58	1628.55	101.33	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.50	100% clean oil	0.01
4.50	Spotted Oil cut 100% Mud	0.06

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



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 1801 Broadway Ste 450, Denver Co 80202
 ATTN: Adam Nighswinger

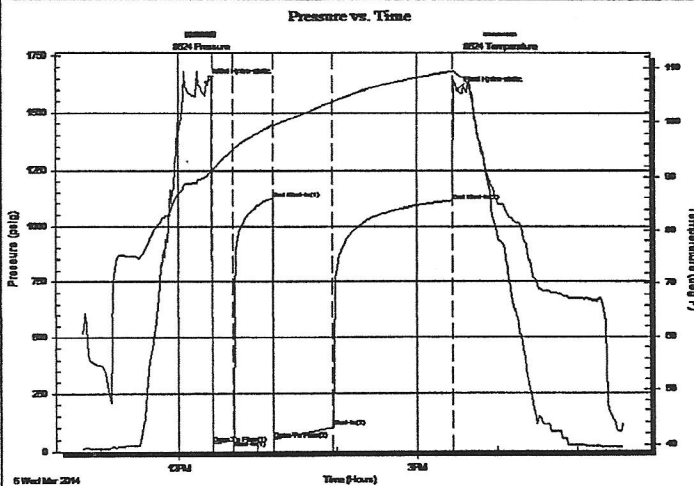
13/19s/11w/Barton
 Lakin-Engelhardt1-13
 Job Ticket: 19210 DST#: 4
 Test Start: 2014.03.05 @ 10:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:27:30
 Time Test Ended: 17:36:00
 Interval: **3333.00 ft (KB) To 3341.00 ft (KB) (TVD)**
 Total Depth: 3341.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzern
 Unit No: 3330/30/Great Bend
 Reference Elevations: 1788.00 ft (KB)
 1778.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: **8524** Outside
 Press@RunDepth: 1110.72 psig @ 3338.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.05 End Date: 2014.03.05 Last Calib.: 2014.03.05
 Start Time: 10:45:00 End Time: 17:34:30 Time On Btm: 2014.03.05 @ 12:21:30
 Time Off Btm: 2014.03.05 @ 15:30:30

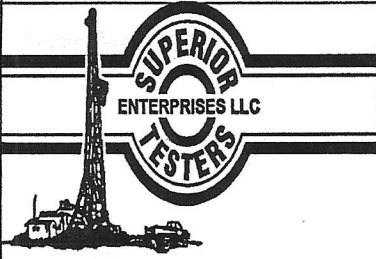
TEST COMMENT: 1st Open/ 15 Minutes. Fair blow built to 9 inches into bucket of diesel.
 1st Shut In/ 30 Minutes. Weak surface blow back.
 2nd Open/ 45 Minutes. Fair blow built to bottom of 5 gallon bucket in 23 minutes.
 2nd Shut In/ 90 Minutes. Weak surface blow back that died out 60 minutes into shut in.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1633.09	90.19	Initial Hydro-static
5	33.92	91.20	Open To Flow (1)
21	48.45	94.83	Shut-In(1)
51	1120.89	99.39	End Shut-In(1)
51	50.75	99.16	Open To Flow (2)
96	97.84	103.70	Shut-In(2)
186	1110.72	109.27	End Shut-In(2)
189	1597.79	108.64	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	252 Feet 100% Gas	0.00
137.00	25% Gas, 75% Clean Oil.	1.92
63.00	40% Mud, 15% Water, 45% Oil	0.88
0.00	Chloride recov, 26000 ppm	0.00
0.00	resist recov, .21 @ 40 degrees	0.00
0.00	Oil gravity was 42 corrected.	0.00

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



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 1801 Broadway Ste 450, Denver Co 80202
 ATTN: Adam Nighswinger

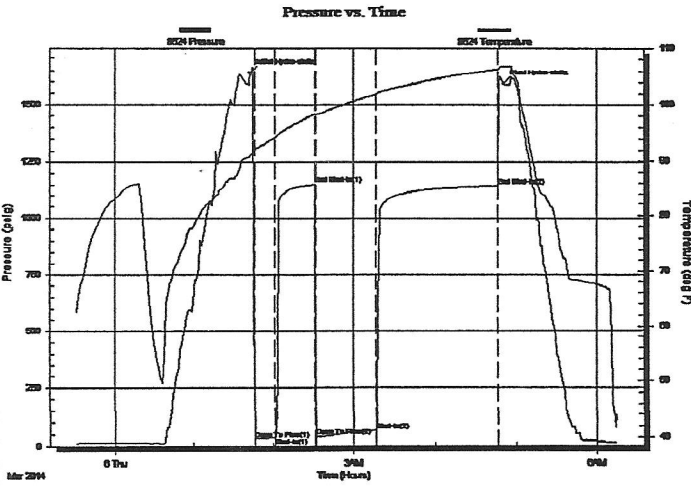
13/19s/11w/Barton
 Lakin-Engelhardt1-13
 Job Ticket: 19211 DST#:5
 Test Start: 2014.03.05 @ 23:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:47:30
 Time Test Ended: 06:16:30
 Interval: **3341.00 ft (KB) To 3347.00 ft (KB) (TVD)**
 Total Depth: **3347.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Shane Konzern**
 Unit No: **3330/30/Great Bend**
 Reference Elevations: **1788.00 ft (KB)**
1778.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: **8524** Outside
 Press@RunDepth: **1147.30 psig @ 3344.00 ft (KB)** Capacity: psig
 Start Date: **2014.03.05** End Date: **2014.03.06** Last Calib.: **1899.12.30**
 Start Time: **23:30:00** End Time: **06:16:00** Time On Btm: **2014.03.06 @ 01:43:00**
 Time Off Btm: **2014.03.06 @ 04:51:00**

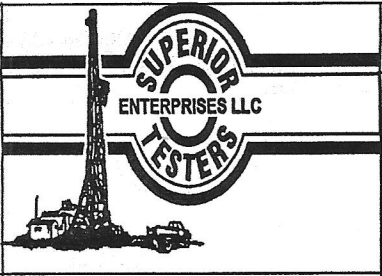
TEST COMMENT: 1st Open/ 15 Minutes. Fair blow built to 4 inches into deisel.
 1st Shut In/ 30 Minutes. Weak surface blow back.
 2nd Open/ 45 Minutes. Fair blow built to bottom of 5 gallon bucket in 35 minutes.
 2nd Shut In/ 90 Minutes. Weak surface blow back that died after 45 minutes.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.52	90.75	Initial Hydro-static
4	30.04	91.67	Open To Flow (1)
19	37.33	94.24	Shut-In(1)
49	1154.23	98.37	End Shut-In(1)
50	38.61	98.24	Open To Flow (2)
94	66.90	101.83	Shut-In(2)
184	1147.30	106.39	End Shut-In(2)
188	1591.43	106.81	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	189 foot 100% gas	0.00
126.00	100% Clean gassy oil	1.77
0.00	Oil gravity was 42 corrected	0.00

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



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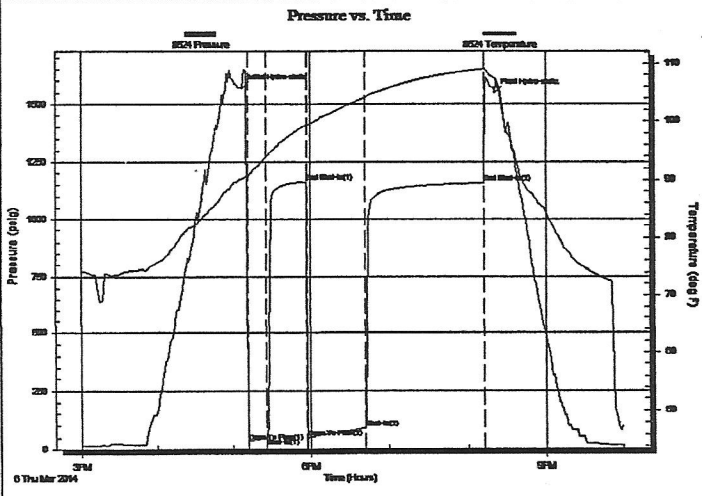
Bird Dog Oil, LLC 13/19s/11w/Barton
 1801 Broadway Ste 450, Denver Co 80202 Lakin-Engelhardt1-13
 ATTN: Adam Nighswinger Job Ticket: 19212 DST#: 6
Test Start: 2014.03.06 @ 15:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 17:11:30
 Time Test Ended: 22:00:00
 Interval: **3347.00 ft (KB) To 3357.00 ft (KB) (TVD)**
 Total Depth: 3357.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/30/Great Bend
 Reference Elevations: 1788.00 ft (KB)
 1778.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: **8524** Outside
 Press@RunDepth: 1159.81 psig @ 3354.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.06 End Date: 2014.03.06 Last Callb.: 2014.03.06
 Start Time: 15:00:00 End Time: 21:59:30 Time On Btm: 2014.03.06 @ 17:07:30
 Time Off Btm: 2014.03.06 @ 20:21:00

TEST COMMENT: 1st Open/ 15 Minutes. Fair blow built to 6 inches into deisel.
 1st Shut In/ 30 Minutes. No blow back.
 2nd Open/ 45 Minutes. Fair blow built to bottom of 5 gallon bucket of deisel in 30 minutes.
 2nd Shut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1570.62	90.27	Initial Hydro-static
5	33.88	90.56	Open To Flow (1)
19	46.99	93.95	Shut-In(1)
50	1165.97	99.45	End Shut-In(1)
50	48.69	99.34	Open To Flow (2)
95	89.15	104.07	Shut-In(2)
185	1159.81	109.08	End Shut-In(2)
194	1549.56	107.43	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	189 foot 100% gas	0.00
87.00	100% Clean Oil	1.22
63.00	70% Mud, 25% water, 5% oil	0.88
0.00	Chloride recov 26000 ppm	0.00
0.00	resist recov, .21 ohms at 40 degrees	0.00
0.00	Oil gravity was 41 corrected.	0.00

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