DRILL STEM TEST REPORT

Bird Dog Oil

1801 Brodway STE 450
Denver Colorado 80202

ATTN: Adam Nighswonger

27-19s-10W-Rice

Pioneer-Adams 2-27

Job Ticket: 18553 **DST#: 1**

Test Start: 2013.09.14 @ 02:03:00

GENERAL INFORMATION:

Formation: **Lansing B-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:41:00
Time Test Ended: 08:24:00

Interval: 2950.00 ft (KB) To 3020.00 ft (KB) (TVD)
Total Depth: 3020.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

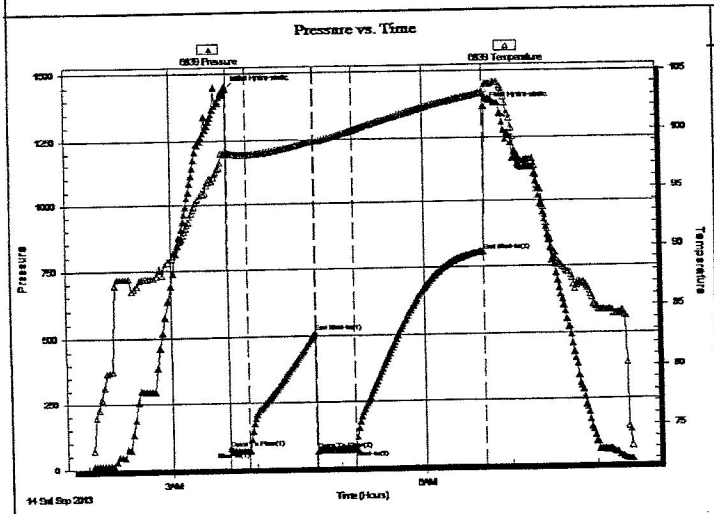
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-50

Reference Elevations: 1756.00 ft (KB)
1750.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6839

Press@RunDepth:	806.08 psia @	ft (KB)		Capacity:	5000.00 psia
Start Date:	2013.09.14	End Date:	2013.09.14	Last Calib.:	2013.09.14
Start Time:	02:04:00	End Time:	08:24:30	Time On Btm:	2013.09.14 @ 03:41:00
				Time Off Btm:	2013.09.14 @ 06:42:30

TEST COMMENT: 1st Open 15 minutes Strong blow built to the bottom of a 5 gallon bucket of water in 2 minutes.
1st Shut in 45 minutes No blow back.
2nd Open 30 minutes Strong blow built to the bottom of a 5 gallon bucket of water instantly.
2nd Shut in 90 minutes No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1443.06	98.53	Initial Hydro-static
1	75.78	98.27	Open To Flow (1)
15	65.45	98.11	Shut-In(1)
62	512.92	99.26	End Shut-In(1)
63	62.51	99.18	Open To Flow (2)
89	65.56	100.09	Shut-In(2)
181	806.08	103.17	End Shut-In(2)
182	1368.55	103.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

Gas Rates

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

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ATTN: Adam Nighswonger

27-19s-10W-Rice

Pioneer-Adams 2-27

Job Ticket: 18554 **DST#: 2**

Test Start: 2013.09.15 @ 02:49:00

GENERAL INFORMATION:

Formation: **Lansing**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:14:00
Time Test Ended: 08:53:00

Interval: 3018.00 ft (KB) To 3033.00 ft (KB) (TVD)
Total Depth: 3033.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

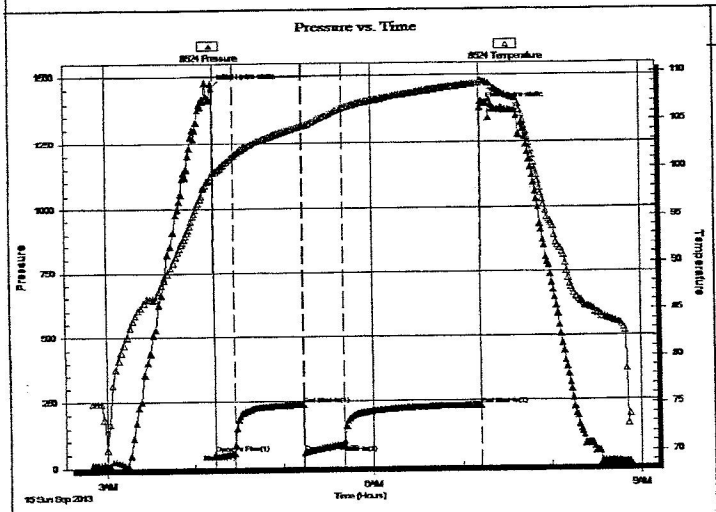
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-50

Reference Elevations: 1756.00 ft (KB)
1750.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8524 **Inside**

Press@RunDepth:	231.09 psia @	3029.00 ft (KB)		Capacity:	5000.00 psia
Start Date:	2013.09.15	End Date:	2013.09.15	Last Calib.:	2013.09.15
Start Time:	02:50:00	End Time:	08:52:30	Time On Btm:	2013.09.15 @ 04:13:00
				Time Off Btm:	2013.09.15 @ 07:13:00

TEST COMMENT: 1st Open 15 minutes Strong blow blew off bottom of a 5 gallon bucket of water in less than 1 minutes.
1st Shut in 45 minutes No blow back
2nd Open 30 minutes Strong blow blew off bottom of a 5 gallon bucket of water instantly.
2nd Shut in 90 minutes No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1457.64	99.72	Initial Hydro-static
1	53.75	99.61	Open To Flow (1)
14	53.76	101.43	Shut-In(1)
61	237.16	104.48	End Shut-In(1)
61	54.51	104.52	Open To Flow (2)
88	84.69	106.39	Shut-In(2)
180	231.09	108.81	End Shut-In(2)
180	1382.40	109.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
76.00	Slighty oil spotted gassy muddy water.	1.07
0.00	Gas 10% Mud 30% Water 60%	0.00
64.00	Slightly oil spotted muddy water.	0.90
0.00	Mud 40% Water 50% Gas 10	0.00
0.00	Gas to Surface in 15 minutes into pipe.	0.00
0.00	Chlorides 65,000 .4ohms@56 degrees	0.00

Gas Rates

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

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ATTN: Adam Nighswonger

27-19s-10W-Rice

Pioneer-Adams 2-27

Job Ticket: 18555 **DST#: 3**

Test Start: 2013.09.16 @ 04:57:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:29:00
Time Test Ended: 09:14:00

Interval: 3198.00 ft (KB) To 3253.00 ft (KB) (TVD)
Total Depth: 3253.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

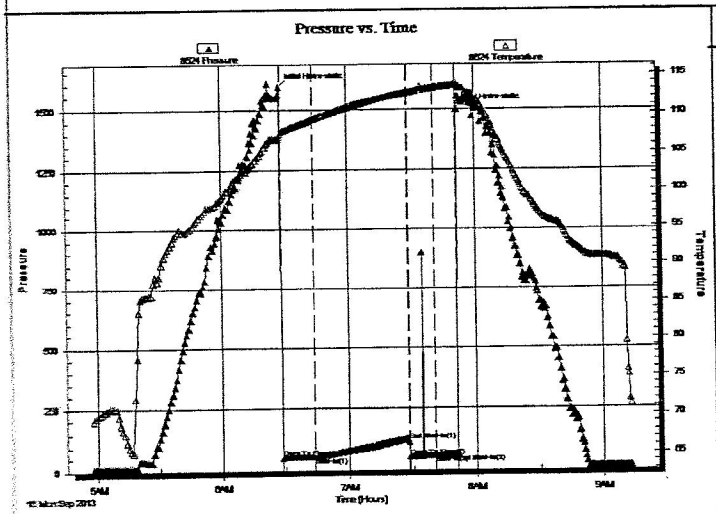
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-50

Reference Elevations: 1756.00 ft (KB)
1750.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8524 **Inside**

Press@RunDepth:	63.21 psia @	3249.19 ft (KB)		Capacity:	5000.00 psia
Start Date:	2013.09.16	End Date:	2013.09.16	Last Calib.:	2013.09.16
Start Time:	04:58:00	End Time:	09:13:00	Time On Btm:	2013.09.16 @ 06:28:00
				Time Off Btm:	2013.09.16 @ 07:51:30

TEST COMMENT: 1st Open 15 minutes Very weak surface blow.
1st Shut in 45 minutes No blow back
2nd Open 13 minutes Dead flushed tool no help.
2nd Shut in 10 minutes no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1590.40	107.03	Initial Hydro-static
1	53.09	107.31	Open To Flow (1)
16	55.20	109.26	Shut-In(1)
60	116.50	112.61	End Shut-In(1)
61	54.10	112.65	Open To Flow (2)
73	58.18	113.20	Shut-In(2)
83	63.21	113.62	End Shut-In(2)
84	1499.36	113.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
12.00	Very lighty oil spotted mud .Mud 100%	0.17

Gas Rates

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

DRILL STEM TEST REPORT

Bird Dog Oil

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ATTN: Adam Nighswonger

27-19s-10W-Rice

Pioneer-Adams 2-27

Job Ticket: 18556 **DST#: 4**

Test Start: 2013.09.22 @ 09:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:06:00
Time Test Ended: 13:55:00

Interval: 3253.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

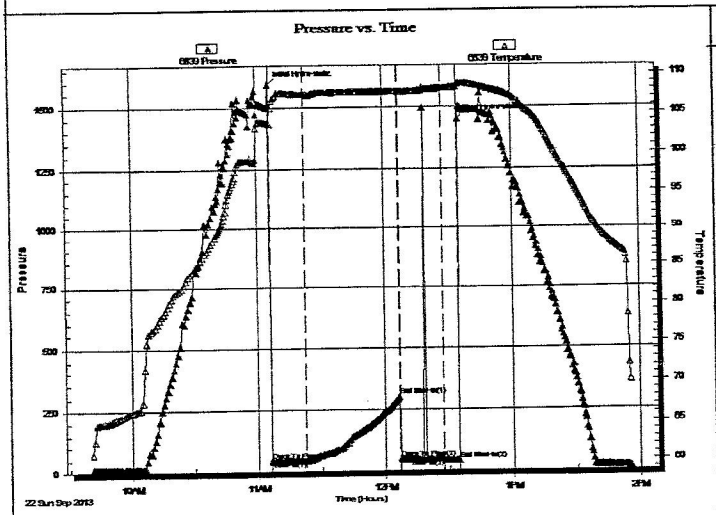
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-50

Reference Elevations: 1756.00 ft (KB)
1750.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6839 **Outside**

Press@RunDepth:	43.04 psia @	3257.00 ft (KB)		Capacity:	5000.00 psia
Start Date:	2013.09.22	End Date:	2013.09.22	Last Calib.:	2013.09.22
Start Time:	09:41:00	End Time:	13:55:30	Time On Btm:	2013.09.22 @ 11:06:00
				Time Off Btm:	2013.09.22 @ 12:35:00

TEST COMMENT: 1st Open 15 minutes Very weak surface blow.
1st Shut in 45 minutes No blow back
2nd Open 20 minutes Very weak surface blow Flushed stayed the same.
2nd Shut in 15 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1592.73	103.65	Initial Hydro-static
1	45.08	103.63	Open To Flow (1)
17	41.06	107.38	Shut-In(1)
61	302.41	107.80	End Shut-In(1)
61	49.12	107.65	Open To Flow (2)
82	45.84	108.15	Shut-In(2)
89	43.04	108.25	End Shut-In(2)
89	1451.22	108.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
11.00	Mud 100%	0.15

Gas Rates

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

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ATTN: Adam Nighswonger

27-19s-10W-Rice

Pioneer-Adams 2-27

Job Ticket: 18557 **DST#: 5**

Test Start: 2013.09.22 @ 10:04:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:38:30
Time Test Ended: 16:21:30

Interval: 3264.00 ft (KB) To 3271.00 ft (KB) (TVD)
Total Depth: 3271.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

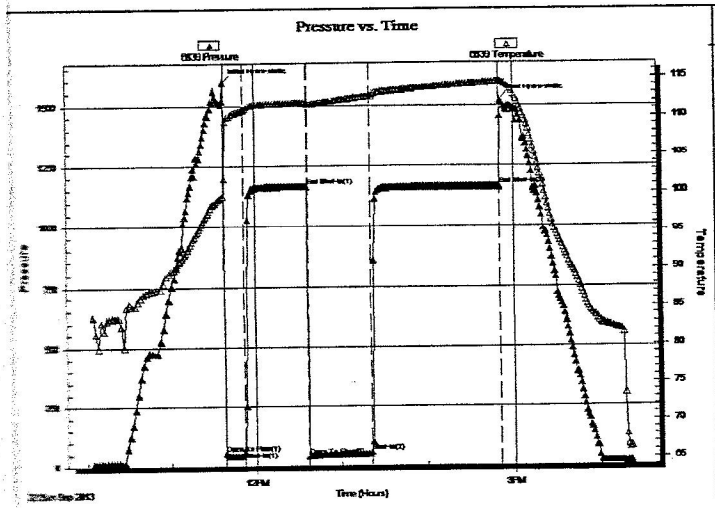
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-50

Reference Elevations: 1756.00 ft (KB)
1750.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6839 **Outside**

Press@RunDepth:	1162.05 psia @	3268.00 ft (KB)		Capacity:	5000.00 psia
Start Date:	2013.09.22	End Date:	2013.09.22	Last Calib.:	2013.09.23
Start Time:	10:05:00	End Time:	16:22:00	Time On Btm:	2013.09.22 @ 11:38:00
				Time Off Btm:	2013.09.22 @ 14:51:00

TEST COMMENT: 1st Open 15 minutes Fair building blow built to 6 inches into a 5 gallon bucket of water.
1st Shutin 45 minutes No blow back
2nd Open 45 minutes Good 2 inch. blow threw out .
2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1595.05	99.53	Initial Hydro-static
1	55.92	101.75	Open To Flow (1)
14	62.36	110.84	Shut-In(1)
59	1163.06	111.91	End Shut-In(1)
59	42.73	111.60	Open To Flow (2)
103	59.79	112.66	Shut-In(2)
192	1162.05	114.43	End Shut-In(2)
193	1520.80	114.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gassy oil cut mud	0.84
0.00	Gas 30% Oil 15% Mud 55%	0.00
0.00	366 gas in pipe.	0.00

Gas Rates

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