DRILL STEM TEST REPORT

Bird Dog Oil LLC

1801 Broadway
Suite 450
Denver, Colorado 80202
ATTN: Derek Patterson

22/16S/12W/Barton

Beaver S-Reif #1-22

Job Ticket: 17496 **DST#:1**

Test Start: 2013.05.27 @ 17:42:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:30:30
Time Test Ended: 22:29:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/50

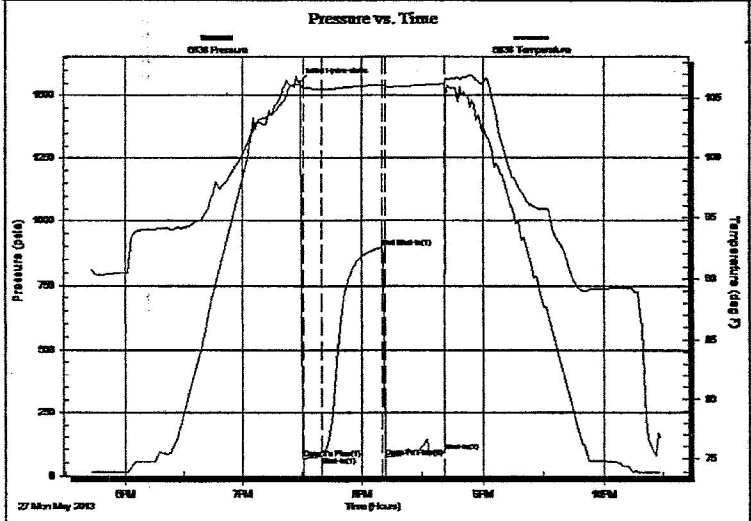
Interval: 3091.00 ft (KB) To 3168.00 ft (KB) (TVD)
Total Depth: 3168.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1933.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6838 **Inside**

Press@RunDepth:	897.40 psia @	3158.43 ft (KB)		Capacity:	5000.00 psia
Start Date:	2013.05.27	End Date:	2013.05.27	Last Calib.:	2013.05.27
Start Time:	17:42:00	End Time:	22:28:30	Time On Btm:	2013.05.27 @ 19:29:00
				Time Off Btm:	

TEST COMMENT:
1ST Open 10 Minutes/Weak blow /Blow built to 2 inches in bucket of water
1ST Shut In 30 Minutes/No blow back
2ND Open 30 Minutes/Weak blow /Blow built to 4 1/2 inches in bucket of water
No second shut in/Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1552.32	106.19	Initial Hydro-static
2	64.88	105.88	Open To Flow (1)
11	72.47	105.75	Shut-In(1)
41	897.40	106.10	End Shut-In(1)
43	69.64	105.97	Open To Flow (2)
72	94.15	106.23	Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100%	0.70

Gas Rates

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

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Beaver S-Reif #1-22

Job Ticket: 17497 **DST#:2**

Test Start: 2013.05.28 @ 11:48:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:16:30
Time Test Ended: 15:50:00

Interval: 3234.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/50

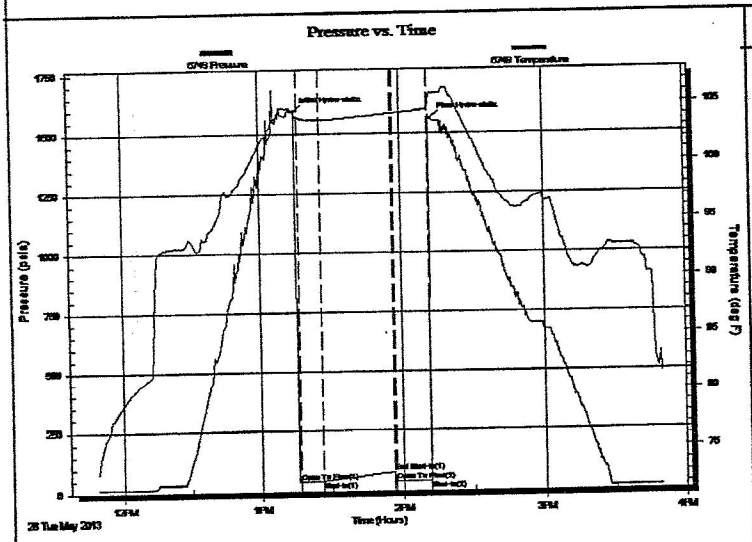
Reference Elevations: 1933.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6749 **Inside**

Press@RunDepth: 40.59 psia @ 3256.00 ft (KB)
Start Date: 2013.05.28 End Date: 2013.05.28
Start Time: 11:48:00 End Time: 15:50:00

Capacity: 5000.00 psia
Last Calib.: 2013.05.28
Time On Btm: 2013.05.28 @ 13:15:30
Time Off Btm: 2013.05.28 @ 14:13:00

TEST COMMENT:
1ST Open 10 Minutes/Surge at open then dead/Weak surface blow after 4 minutes that died in 3 minutes
1ST Shut In 30 Minutes/No blow back
2ND Open 20 Minutes/Dead no blow after 10 minutes/ Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1590.73	104.31	Initial Hydro-static
1	38.94	103.88	Open To Flow (1)
11	40.59	103.61	Shut-In(1)
41	77.73	104.16	End Shut-In(1)
42	40.09	104.17	Open To Flow (2)
56	42.10	104.51	Shut-In(2)
58	1559.80	105.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.04

Gas Rates

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

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Beaver S-Reif #1-22

Job Ticket: 17498 **DST#:3**

Test Start: 2013.05.29 @ 09:03:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:32:30
Time Test Ended: 13:28:30

Interval: 3336.00 ft (KB) To 3386.00 ft (KB) (TVD)
Total Depth: 3386.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

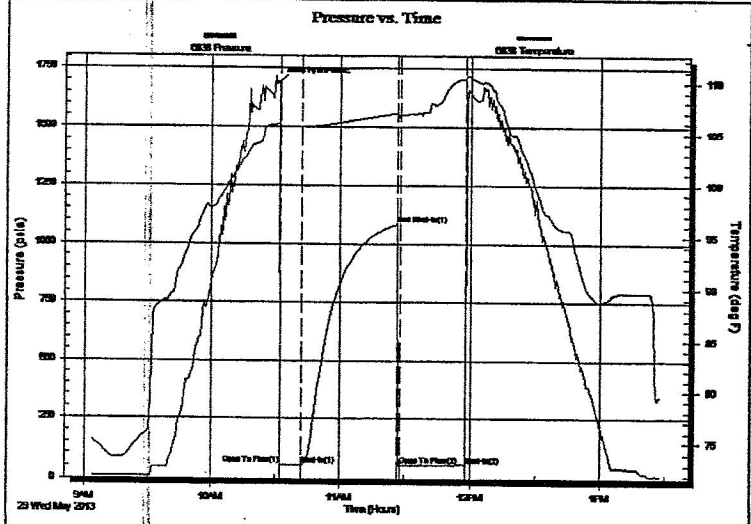
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/50

Reference Elevations: 1933.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6838 **Outside**
Press@RunDepth: 1083.90 psia @ 3383.00 ft (KB)
Start Date: 2013.05.29 End Date: 2013.05.29
Start Time: 09:03:00 End Time: 13:28:00

Capacity: 5000.00 psia
Last Calib.: 2013.05.29
Time On Btm: 2013.05.29 @ 10:32:00
Time Off Btm:

TEST COMMENT:
1ST Open 10 Minutes/Weak blow /Blow built to 1/4 inch in bucket of water
1ST Shut In 45 Minutes/No blow back
2ND Open 30 Mintues/Dead no blow /Flush tool/Very weak surface blow that did not build/ Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1689.77	105.99	Initial Hydro-static
1	53.49	105.73	Open To Flow (1)
11	52.55	105.61	Shut-In(1)
55	1083.90	106.94	End Shut-In(1)
56	52.75	106.78	Open To Flow (2)
86	56.05	110.31	Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Clean Oil 100%	0.03
15.00	Slightly oil cut mud	0.21
0.00	Oil 3% Mud 97%	0.00

Gas Rates

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

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Beaver S-Reif #1-22

Job Ticket: 17499 **DST#: 4**

Test Start: 2013.05.29 @ 19:44:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:11:00
Time Test Ended: 23:58:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/50

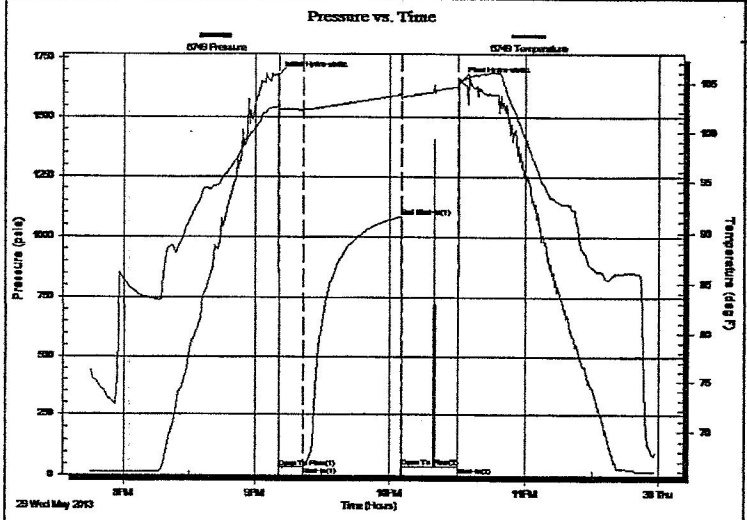
Interval: 3382.00 ft (KB) To 3392.00 ft (KB) (TVD)
Total Depth: 3392.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1933.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6749 **Inside**
Press@RunDepth: 35.34 psia @ 3388.00 ft (KB)
Start Date: 2013.05.29 End Date: 2013.05.29
Start Time: 19:44:00 End Time: 23:58:30

Capacity: 5000.00 psia
Last Calib.: 2013.05.30
Time On Btm: 2013.05.29 @ 21:10:30
Time Off Btm: 2013.05.29 @ 22:31:30

TEST COMMENT:
1ST Open 10 Minutes/Weak blow/Blow built to 1/4 inch then died in 8 minutes
1ST Shut In 45 Minutes/No blow back
2ND Open 25 Minutes/Dead no blow/Flush tool/Very weak intermitent surface blow/Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1675.77	102.57	Initial Hydro-static
1	34.38	102.29	Open To Flow (1)
11	35.34	102.25	Shut-In(1)
55	1083.18	103.80	End Shut-In(1)
55	35.95	103.36	Open To Flow (2)
80	37.38	104.63	Shut-In(2)
81	1653.29	105.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Oily Mud/Oil 20% Mud 80%	0.14

Gas Rates

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

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Bird Dog Oil LLC

1801 Broadw ay
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22/16S/12W/Barton

Beaver S-Reif #1-22

Job Ticket: 17500 **DST#:5**

Test Start: 2013.05.30 @ 06:36:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:17:30
Time Test Ended: 13:37:00

Interval: 3392.00 ft (KB) To 3399.00 ft (KB) (TVD)
Total Depth: 3399.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

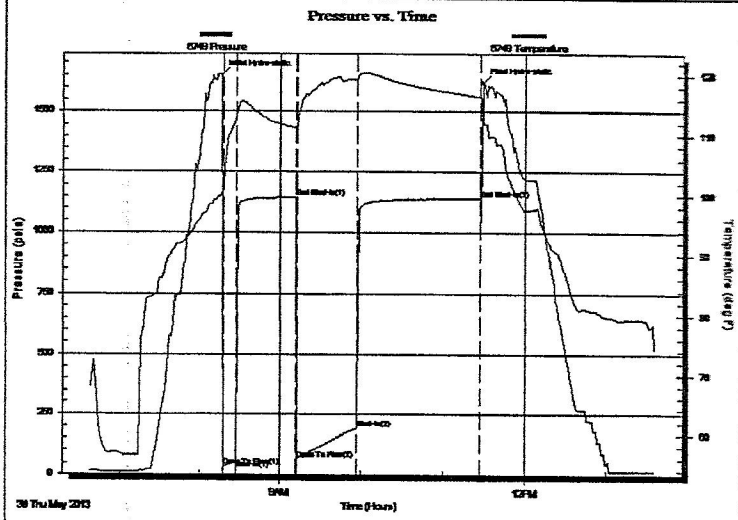
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Sw inney
Unit No: 3325 Great Bend/50

Reference Elevations: 1933.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6749 **Inside**

Press@RunDepth:	193.27 psia @	3395.00 ft (KB)		Capacity:	5000.00 psia
Start Date:	2013.05.30	End Date:	2013.05.30	Last Calib.:	2013.05.30
Start Time:	06:36:00	End Time:	13:37:00	Time On Btm:	2013.05.30 @ 08:16:30
				Time Off Btm:	2013.05.30 @ 11:28:30

TEST COMMENT:
1ST Open 10 Minutes/Good blow /Blow built to bottom of bucket in 9 minutes 30 seconds
1ST Shut In 45 Minutes/Blow back built to 1/2 inch
2ND Open 45 Mintues/Good blow /Blow built to bottom of bucket in 9 minutes
2ND Shut In 90 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1647.60	100.09	Initial Hydro-static
1	34.48	101.30	Open To Flow (1)
11	59.59	112.99	Shut-In(1)
55	1144.22	111.34	End Shut-In(1)
56	65.29	111.39	Open To Flow (2)
101	193.27	119.25	Shut-In(2)
191	1141.72	116.47	End Shut-In(2)
192	1620.31	112.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
387.00	Clean Gassy Oil	5.43
0.00	Gas 10% Oil 90%	0.00
62.00	Slightly w ater cut Muddy Oil	0.87
0.00	Water 2% Mud 38% Oil 60%	0.00
0.00	Corrected Spec. Grav. Oil 37	0.00

Gas Rates

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

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Beaver S-Reif #1-22

Job Ticket: 18126 **DST#: 6**

Test Start: 2013.05.30 @ 16:32:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:03:30
Time Test Ended: 23:21:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/50

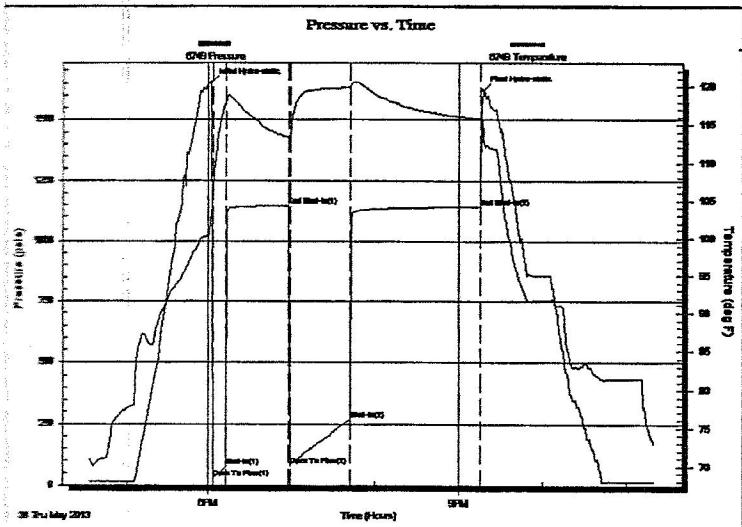
Interval: **3399.00 ft (KB) To 3404.00 ft (KB) (TVD)**
Total Depth: 3404.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1933.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6749 **Inside**

Press@RunDepth:	267.93 psia @	3400.00 ft (KB)		Capacity:	5000.00 psia
Start Date:	2013.05.30	End Date:	2013.05.30	Last Calib.:	2013.05.31
Start Time:	16:32:00	End Time:	23:21:00	Time On Btm:	2013.05.30 @ 18:02:30
				Time Off Btm:	2013.05.30 @ 21:17:00

TEST COMMENT:
1ST Open 10 Minutes/Good blow /Blow built to bottom of bucket in 5 minutes 45 seconds
1ST Shut In 45 Mintues/Blow back built to 1 1/2 inch
2ND Open 45 Mintues/Good blow /Blow built to bottom of bucket in 7 minutes 30 seconds
2ND Shut In 90 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1649.81	103.02	Initial Hydro-static
1	33.64	106.32	Open To Flow (1)
11	76.24	117.85	Shut-In(1)
56	1145.47	113.34	End Shut-In(1)
57	82.22	113.56	Open To Flow (2)
101	267.93	119.90	Shut-In(2)
193	1142.07	115.81	End Shut-In(2)
195	1621.47	114.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
598.00	Clean Gassy Oil	8.39
0.00	Gas 15% Oil 85%	0.00
62.00	Water and Mud cut Gassy Oil	0.87
0.00	Water 10% Mud 10% Gas 15% Oil 65%	0.00
0.00	Corrected Spec. Grav. Oil 37	0.00
0.00	Recovery Chlorides 25000 ppm	0.00

Gas Rates

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

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22/16S/12W/Barton

Beaver S-Reif #1-22

Job Ticket: 18127 **DST#:7**

Test Start: 2013.05.31 @ 12:11:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:24:30
Time Test Ended: 19:20:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Sw inney
Unit No: 3325 Great Bend/50

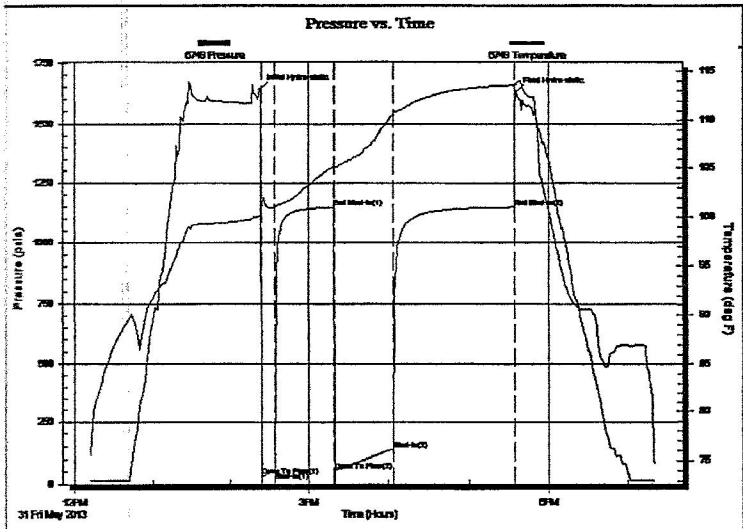
Interval: 3404.00 ft (KB) To 3413.00 ft (KB) (TVD)
Total Depth: 3413.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1933.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6749 **Inside**

Press@RunDepth:	137.88 psia @	3405.00 ft (KB)		Capacity:	5000.00 psia
Start Date:	2013.05.31	End Date:	2013.05.31	Last Calib.:	2013.05.31
Start Time:	12:11:00	End Time:	19:20:30	Time On Btm:	2013.05.31 @ 14:23:30
				Time Off Btm:	2013.05.31 @ 17:35:30

TEST COMMENT:
1ST Open 10 Minutes/Fair blow/Blow built to 4 1/2 inches in bucket of w ater
1ST Shut In 45 Mintues/No blow back
2ND Open 45 Mintues/Fair blow/Blow built to 9 1/2 inches in bucket of w ater
2ND Shut In 90 Mintues/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1642.59	100.24	Initial Hydro-static
1	31.22	100.71	Open To Flow (1)
11	50.15	100.91	Shut-In(1)
56	1147.04	105.16	End Shut-In(1)
56	52.77	105.04	Open To Flow (2)
100	137.88	110.69	Shut-In(2)
191	1148.20	113.57	End Shut-In(2)
192	1631.78	113.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	Muddy Water w ith skim of oil	3.48
0.00	Mud 15% Water 85%	0.00
0.00	Recovery Chlorides 18000 ppm	0.00
0.00	Recov Resist .32 @ 80 deg	0.00

Gas Rates

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