

**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Anchor Bay Petroleum

2713 Ash Street
Hays, KS. 67601

ATTN: Roger Moses

11-14s-20w-Ellis

Shelton #1

Job Ticket: 50528

DST#: 1

Test Start: 2013.02.05 @ 13:56:54

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: **No** Whipstock: **0.00 ft (KB)**

Time Tool Opened: 15:46:24

Time Test Ended: 20:29:09

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Jason McLemore**

Unit No: **54**

Interval: 3210.00 ft (KB) To 3269.00 ft (KB) (TVD)

Total Depth: 3269.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: **Good**

Reference Elevations: **2215.00 ft (KB)**

2207.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: **102.50 psig @ 3246.00 ft (KB)**

Start Date: **2013.02.05**

End Date:

2013.02.05

Capacity: **8000.00 psig**

Last Calib.: **2013.02.05**

Start Time: **13:56:54**

End Time:

20:29:09

Time On Btm: **2013.02.05 @ 15:46:09**

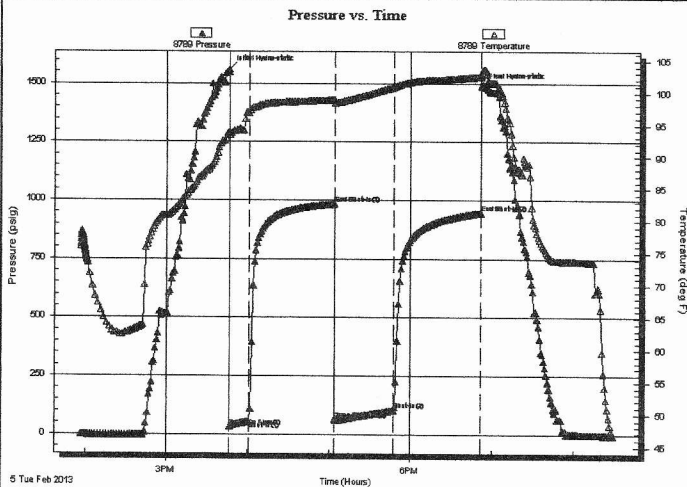
Time Off Btm: **2013.02.05 @ 18:51:39**

TEST COMMENT: IFP-Weak Blow, Built to 2"

ISI-Dead

FFP-Weak Bow, Built to 1-3/4"

FSI-Dead



PRESSURE SUMMARY

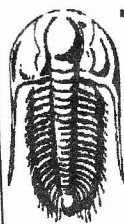
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1559.52	93.90	Initial Hydro-static
1	33.20	93.41	Open To Flow (1)
15	56.62	96.88	Shut-In(1)
78	982.41	98.90	End Shut-In(1)
78	64.62	98.35	Open To Flow (2)
122	102.50	100.87	Shut-In(2)
186	945.36	102.53	End Shut-In(2)
186	1485.21	102.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	Muddy Water-90%W-10%M	1.97

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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2713 Ash Street
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ATTN: Roger Moses

11-14s-20w-Ellis

Shelton #1

Job Ticket: 50529

DST#: 2

Test Start: 2013.02.06 @ 15:35:18

GENERAL INFORMATION:

Formation: **A-F**
Deviated: **No** Whipstock: **0.00 ft (KB)**
Time Tool Opened: 17:39:18
Time Test Ended: 23:10:48

Interval: **3478.00 ft (KB) To 3561.00 ft (KB) (TVD)**
Total Depth: **3561.00 ft (KB) (TVD)**
Hole Diameter: **7.80 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Jason McLemore**
Unit No: **54**

Reference Elevations: **2215.00 ft (KB)**
2207.00 ft (CF)
KB to GR/CF: **8.00 ft**

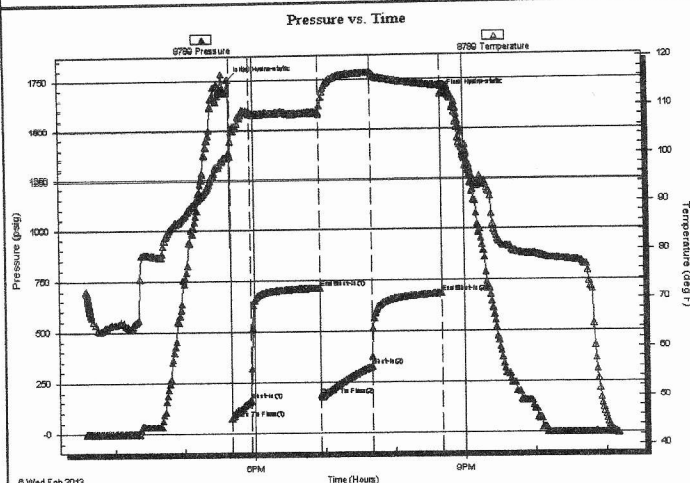
Serial #: 8789

Inside

Press@RunDepth: **326.10 psig @ 3547.00 ft (KB)**
Start Date: **2013.02.06** End Date: **2013.02.06**
Start Time: **15:35:18** End Time: **23:10:48**

Capacity: **8000.00 psig**
Last Calib.: **2013.02.06**
Time On Btm: **2013.02.06 @ 17:38:48**
Time Off Btm: **2013.02.06 @ 20:40:48**

TEST COMMENT: IFP-Fair Blow, Built to 4"
ISI-Dead
FFP-Good Blow, BOB in 10 Min.
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1750.70	100.64	Initial Hydro-static
1	74.43	99.80	Open To Flow (1)
18	161.53	108.77	Shut-In(1)
77	713.16	108.83	End Shut-In(1)
78	184.47	108.54	Open To Flow (2)
121	326.10	116.97	Shut-In(2)
182	684.09	114.22	End Shut-In(2)
182	1674.39	114.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Muddy Water-90%W-10%M	1.41
400.00	GVSOCCMM-15%G-3%O-47%W-35%M	5.61
60.00	GSOCMM-15%G-7%O-10%W-68%M	0.84
0.00	60' Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

Anchor Bay Petroleum

2713 Ash Street
Hays, KS. 67601

ATTN: Roger Moses

11-14s-20w-Ellis

Shelton #1

Job Ticket: 50530

DST#: 3

Test Start: 2013.02.07 @ 13:58:51

GENERAL INFORMATION:

Formation: **H-L**

Deviated: **No** Whipstock: **0.00 ft (KB)**

Time Tool Opened: 15:15:21

Time Test Ended: 20:05:06

Interval: **3638.00 ft (KB) To 3735.00 ft (KB) (TVD)**

Total Depth: **3735.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Jason McLemore**

Unit No: **54**

Reference Elevations: **2215.00 ft (KB)**

2207.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: **67.40 psig @ 3707.00 ft (KB)**

Start Date: **2013.02.07**

End Date:

2013.02.07

Capacity: **8000.00 psig**

Last Calib.: **2013.02.07**

Start Time: **13:58:51**

End Time:

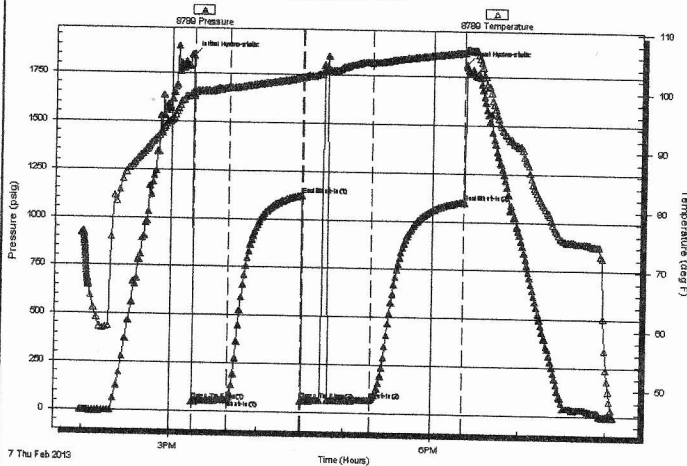
20:05:06

Time On Btm: **2013.02.07 @ 15:15:06**

Time Off Btm: **2013.02.07 @ 18:22:21**

TEST COMMENT: IFP-Weak Intermittant Blow, Built to 1/2"
ISI-Dead
FFP-Dead, Flush Tool, Good Surge, Dead in 10 Min.
FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.98	99.47	Initial Hydro-static
1	51.79	98.81	Open To Flow (1)
25	58.87	100.44	Shut-In(1)
75	1124.24	102.10	End Shut-In(1)
76	61.44	102.28	Open To Flow (2)
123	67.40	104.85	Shut-In(2)
187	1103.44	106.73	End Shut-In(2)
188	1813.24	107.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling Mud	0.29

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc

Ref. No: 50530

Printed: 2013.02.07 @ 20:16:43



Anchor Bay Petroleum

ATTN: Roger Moses

11-14s-20w-Ellis

Shelton #1

Job Ticket: 50531

DST#: 4

Test Start: 2013.02.08 @ 13:28:45

Formation: **Marmaton**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 14:45:45

Time Test Ended: 19:55:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3780.00 ft (KB) To 3842.00 ft (KB) (TVD)

Total Depth: 3842.00 ft (KB) (TVD)

Hole Diameter: 7.80 inchesHole Condition: Good

Reference Elevations: 2215.00 ft (KB)

2207.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: 235.08 psig @ 3814.00 ft (KB)

Start Date: 2013.02.08

End Date:

2013.02.08

Start Time: 13:28:45

End Time:

19:55:45

Capacity: 8000.00 psia

Last Calib.: 2013.02.08

Time On Btm: 2013.02.08 @ 14:45:15

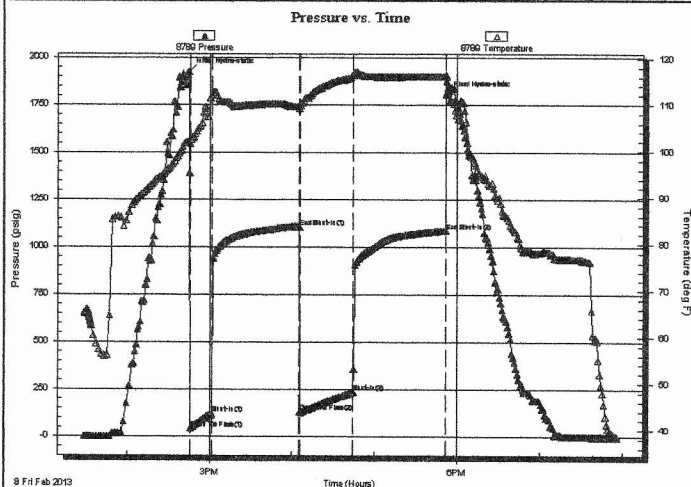
Time Off Btm: 2013.02.08 @ 17:52:00

TEST COMMENT: JFP-Good Blow. BOB in 9 Min.

ISL-Dead

FFP-Fair Blow, BOB in 18 Min.

FSI-Dead



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1926.16	102.10	Initial Hydro-static
1	39.09	101.70	Open To Flow (1)
17	117.88	112.22	Shut-In(1)
80	1104.15	109.58	End Shut-In(1)
81	127.87	109.16	Open To Flow (2)
119	235.08	116.45	Shut-In(2)
187	1087.06	116.11	End Shut-In(2)
187	1805.45	116.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
790.00	Muddy Water	10.81

* Recovery from multiple tests

Gas Rates

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