

15-167-23669

10-15-14w

KCC


**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

JAN 27 2011

Mai Oil Operations, Inc.

Flegler #2

CONFIDENTIAL

8411 Preston Rd. Ste 800
Dallas, TX 75225

10-15-14 Russell KS

Job Ticket: 40928

DST#: 1

ATTN: Kitt Noah

Test Start: 2010.11.05 @ 12:30:36

GENERAL INFORMATION:

Formation: LKC "A-B"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:52:31

Time Test Ended: 18:21:30

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit, No: 41

Interval: 2956.00 ft (KB) To 2980.00 ft (KB) (TVD)

Reference Elevations: 1760.00 ft (KB)

Total Depth: 2980.00 ft (KB) (TVD)

1752.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GRVCF: 8.00 ft

Serial #: 8647

Inside

Press@RunDepth: 98.51 psig @ 2957.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.05

End Date:

2010.11.05

Last Calib.: 2010.11.05

Start Time: 12:30:36

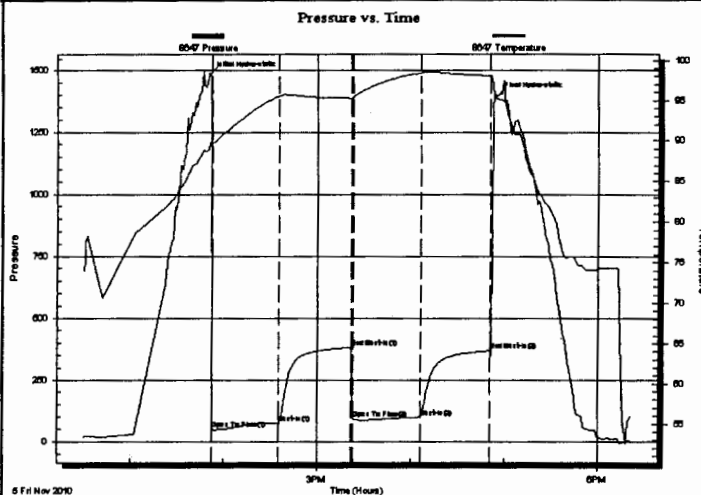
End Time:

18:21:30

Time On Btm: 2010.11.05 @ 13:50:31

Time Off Btm: 2010.11.05 @ 16:55:00

TEST COMMENT: FFP - BOB 12 min
 ISI - sur blow back - died 13 min
 FFP - BOB 17 min
 FSI - sur blow back - died 11 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1484.24	89.74	Initial Hydro-static
2	49.64	89.66	Open To Flow (1)
45	73.48	95.51	Shut-In(1)
91	380.12	95.25	End Shut-In(1)
92	93.54	95.35	Open To Flow (2)
136	98.51	98.45	Shut-In(2)
181	368.33	98.06	End Shut-In(2)
185	1394.91	95.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 90%W, 10%M	0.59
60.00	GW & OCM 20%G, 25%O, 15%W, 40%M	0.81
0.00	280' GIP	0.00

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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JAN 27 2011

KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

8411 Preston Rd. Ste 800
Dallas, TX 75225

ATTN: Kitt Noah

Flegler #2

10-15-14 Russell KS

Job Ticket: 40929

DST#: 2

Test Start: 2010.11.06 @ 06:18:01

GENERAL INFORMATION:

Formation: LKC "E-G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:51:26

Time Test Ended: 11:32:25

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3018.00 ft (KB) To 3052.00 ft (KB) (TVD)

Total Depth: 3052.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1760.00 ft (KB)

1752.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8647 Inside

Press@RunDepth: 66.79 psig @ 3024.00 ft (KB)

Start Date: 2010.11.06

End Date:

2010.11.06

Start Time: 06:18:01

End Time:

11:32:25

Capacity: 8000.00 psig

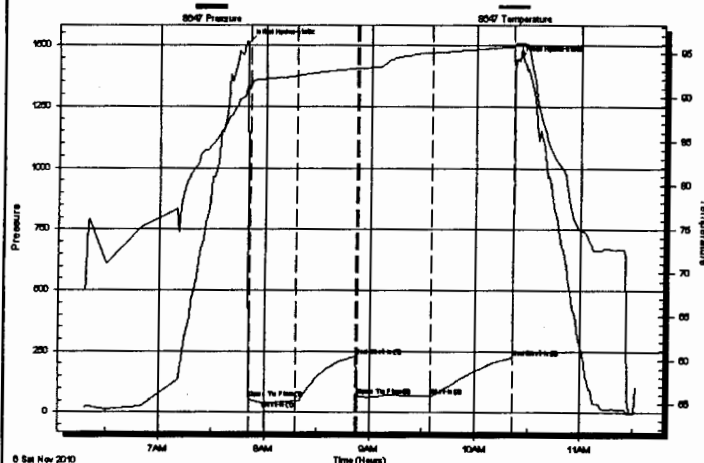
Last Calib.: 2010.11.06

Time On Btm: 2010.11.06 @ 07:49:26

Time Off Btm: 2010.11.06 @ 10:23:26

TEST COMMENT: FP - BOB 4 min
ISI - sur blow back - died 5 min
FFP - BOB 2 1/2 min
FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1508.96	91.32	Initial Hydro-static
2	58.07	91.33	Open To Flow (1)
29	48.24	92.44	Shut-In(1)
63	229.40	93.27	End Shut-In(1)
64	67.30	93.26	Open To Flow (2)
105	66.79	95.08	Shut-In(2)
152	224.51	95.75	End Shut-In(2)
154	1440.46	96.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	O scum mud 100%	0.63
0.00	580 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

8411 Preston Rd. Ste 800
Dallas, TX 75225

ATTN: Kitt Noah

Flegler #2

10-15-14 Russell KS

Job Ticket: 40930

DST#: 3

Test Start: 2010.11.07 @ 00:55:51

GENERAL INFORMATION:

Formation: LKC "H-K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:23:16

Time Test Ended: 07:11:45

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3090.00 ft (KB) To 3150.00 ft (KB) (TVD)

Total Depth: 3150.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1760.00 ft (KB)

1752.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8647 Inside

Press@RunDepth: 126.97 psig @ 3094.00 ft (KB)

Start Date: 2010.11.07

End Date:

2010.11.07

Start Time: 00:55:51

End Time:

07:11:45

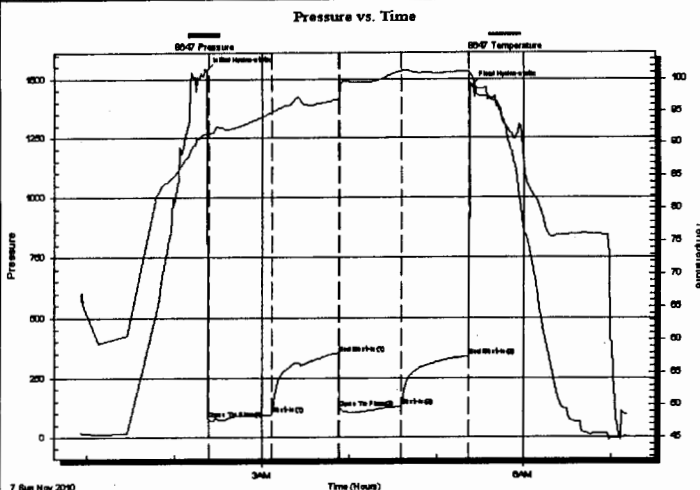
Capacity: 8000.00 psig

Last Calib.: 2010.11.07

Time On Btm: 2010.11.07 @ 02:21:16

Time Off Btm: 2010.11.07 @ 05:23:45

TEST COMMENT: IFP - BOB 8 min
ISI - 3" blow back
FFP - BOB 6 min
FSI - 6" blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1535.91	91.36	Initial Hydro-static
2	74.63	91.36	Open To Flow (1)
45	95.40	94.72	Shut-In(1)
91	351.34	96.83	End Shut-In(1)
92	121.39	96.95	Open To Flow (2)
134	126.97	101.16	Shut-In(2)
181	338.40	101.16	End Shut-In(2)
183	1470.62	100.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MMV 60%W, 40%M	0.30
90.00	GM & WCO 55%G, 35%O, 5%W, 5%M	0.69
60.00	GOOM 15%G, 15%O, 60%M	0.84
0.00	805' GIP	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

8411 Preston Rd. Ste 800
Dallas, TX 75225

ATTN: Kitt Noah

Flegler #2

10-15-14 Russell KS

Job Ticket: 40931

DST#: 4

Test Start: 2010.11.07 @ 16:00:03

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 17:27:58

Time Test Ended: 21:54:27

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3178.00 ft (KB) To 3213.00 ft (KB) (TVD)**

Reference Elevations: **1760.00 ft (KB)**

Total Depth: **3213.00 ft (KB) (TVD)**

1752.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8647

Inside

Press@RunDepth: **70.52 psig @ 3185.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.11.07**

End Date:

2010.11.07

Last Calib.: **2010.11.07**

Start Time: **16:00:03**

End Time:

21:54:27

Time On Btm: **2010.11.07 @ 17:25:58**

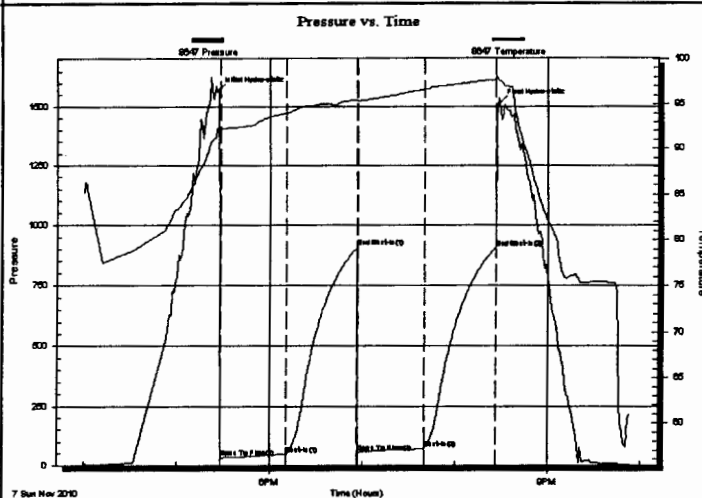
Time Off Btm: **2010.11.07 @ 20:28:57**

TEST COMMENT: FFP - weak blow throughout 1/2" - 3"

ISI - no blow back

FFP - weak to fair blow sur - 4"

FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1567.60	92.23	Initial Hydro-static
2	33.77	92.25	Open To Flow (1)
45	47.61	93.97	Shut-In(1)
91	908.14	95.48	End Shut-In(1)
91	56.90	95.27	Open To Flow (2)
134	70.52	96.64	Shut-In(2)
180	906.16	97.70	End Shut-In(2)
183	1515.86	97.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM 10%O, 90%M	0.27
80.00	FREE OIL 95%O, 5%M	0.50

Gas Rates

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