

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources

410 17th St.
STE 900
Denver Co. 80202
ATTN: Josh Austin

Smith 13c-16-1931

Sec 16 Twp 19sRge31w

Job Ticket: 37970

DST#: 1

Test Start: 2010.08.05 @ 04:25:00

GENERAL INFORMATION:

Formation: **LKC-I**

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

Time Tool Opened: 06:21:30

Time Test Ended: 11:01:30

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Kreutzer Jr.**

Unit No: **36**

Interval: 4186.00 ft (KB) To 4210.00 ft (KB) (TVD)

Total Depth: **4210.00 ft (KB) (TVD)**

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

Reference Elevations: **2974.00 ft (KB)**

2962.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6741 Inside

Press@RunDepth: **299.31 psig @ 4187.00 ft (KB)**

Start Date: **2010.08.05**

End Date:

2010.08.05

Start Time: **04:25:01**

End Time:

11:01:30

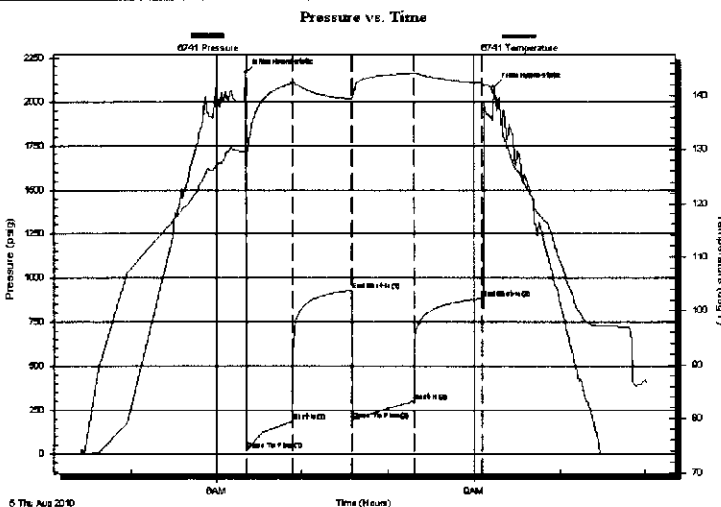
Capacity: **8000.00 psig**

Last Calib.: **2010.08.05**

Time On Btm: **2010.08.05 @ 06:20:30**

Time Off Btm: **2010.08.05 @ 09:14:00**

TEST COMMENT: IF: Strong blow, Built to B.O.B in 10 mins.
IS: Bled off, No blow back over 45 mins.
FF: Strong blow, Built to B.O.B in 10 mins.
FS: Bled off, No blow back over 50 mins.



PRESSURE SUMMARY

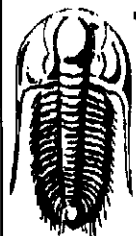
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2164.30	129.89	Initial Hydro-static
1	23.40	129.07	Open To Flow (1)
33	184.60	142.34	Shut-In (1)
74	929.64	139.37	End Shut-In (1)
75	191.74	140.05	Open To Flow (2)
118	299.31	144.11	Shut-In (2)
166	884.54	142.25	End Shut-In (2)
174	2087.35	140.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
642.00	water-100%w	6.82

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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410 17th St.

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Denver Co.80202

ATTN: Josh Austin

Sec 16 Twp 19sRge31w

Job Ticket: 37970

DST#: 1

Test Start: 2010.08.05 @ 04:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

40000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
642.00	water-100%w	6.819

Total Length: 642.00 ft

Total Volume: 6.819 bbl

Num Fluid Samples: 0

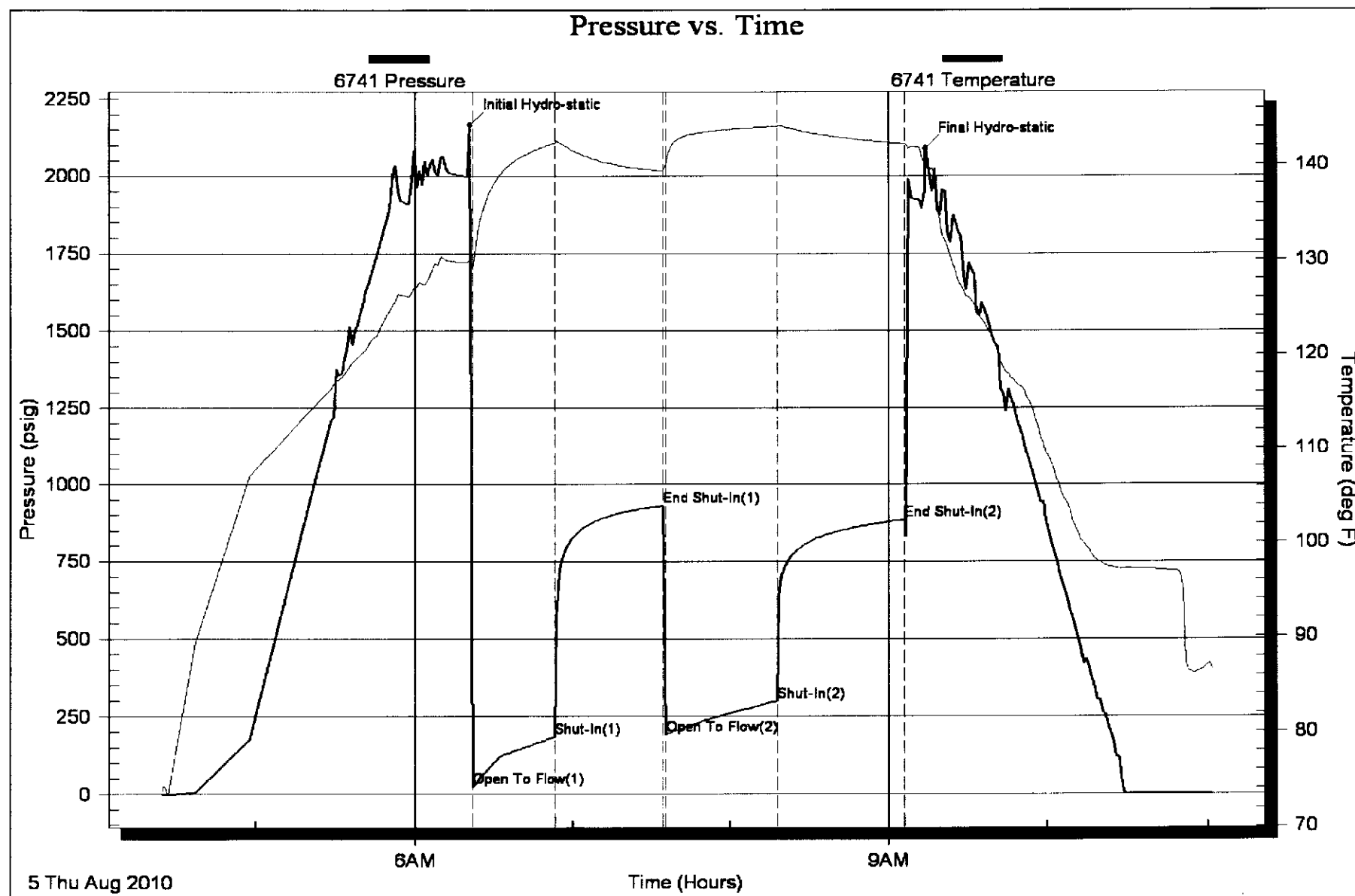
Num Gas Bombs: 0

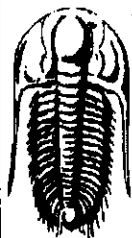
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .14@90*=40000





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DRILL STEM TEST REPORT

FML Natural Resources

410 17th St.
STE 900
Denver Co. 80202
ATTN: Josh Austin

Smith 13c-16-1931

Sec 16 Twp 19sRge31w

Job Ticket: 37971 **DST#: 2**

Test Start: 2010.08.06 @ 04:00:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:06:00

Time Test Ended: 10:30:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: **4320.00 ft (KB) To 4416.00 ft (KB) (TVD)**

Total Depth: 4416.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2974.00 ft (KB)

2962.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6741

Inside

Press@RunDepth: 141.79 psig @ 4325.00 ft (KB)

Start Date: 2010.08.06

End Date:

2010.08.06

Start Time: 04:00:01

End Time:

10:30:00

Capacity: 8000.00 psig

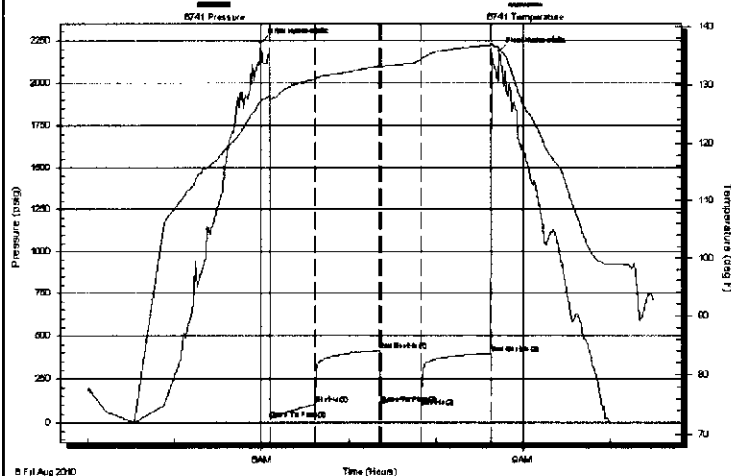
Last Calib.: 2010.08.06

Time On Btm: 2010.08.06 @ 05:59:30

Time Off Btm: 2010.08.06 @ 08:43:30

TEST COMMENT: IF: Weak blow, built to 3 in. over 30 mins.
IS: No blow back over 45 mins.
FF: Weak blow back after 15 mins. built to 1/4 in. over 30 mins.
FS: No blow back over 45 mins.

Pressure vs. Time



PRESSURE SUMMARY

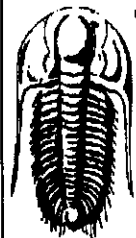
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.82	127.03	Initial Hydro-static
7	21.75	127.44	Open To Flow (1)
37	103.87	130.97	Shut-In(1)
82	413.11	133.22	End Shut-In(1)
83	108.47	133.16	Open To Flow (2)
110	141.79	134.23	Shut-In(2)
158	398.57	136.79	End Shut-In(2)
164	2187.10	136.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud with oil specs	0.15
240.00	vsocm-1%o99%m	1.45

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Sec 16 Twp 19sRge31w

Job Ticket: 37971

DST#: 2

Test Start: 2010.08.06 @ 04:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud with oil specs	0.148
240.00	vsocm-1%o99%m	1.454

Total Length: 270.00 ft

Total Volume: 1.602 bbl

Num Fluid Samples: 0

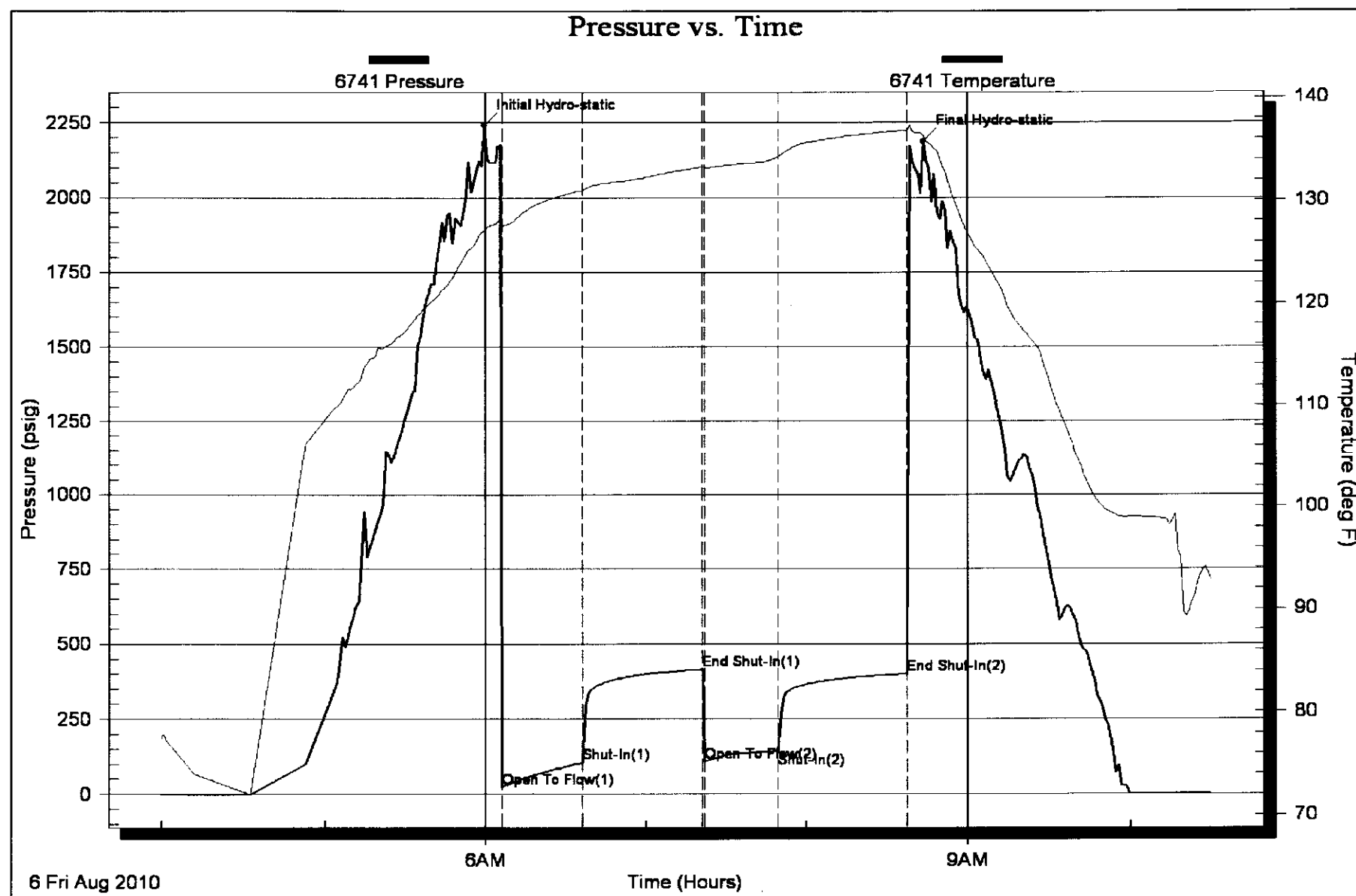
Num Gas Bombs: 0

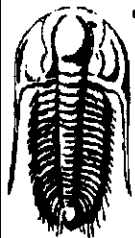
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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Smith 13c-16-1931

Sec 16 Twp 19sRge31w

Job Ticket: 37972 **DST#: 3**

Test Start: 2010.08.07 @ 07:50:00

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:57:30

Time Test Ended: 14:17:30

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: 4594.00 ft (KB) To 4633.00 ft (KB) (TVD)

Total Depth: 4633.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2974.00 ft (KB)

2962.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6741 Inside

Press@RunDepth: 81.94 psig @ 4595.00 ft (KB)

Start Date: 2010.08.07 End Date: 2010.08.07

Start Time: 07:50:01 End Time: 14:17:30

Capacity: 8000.00 psig

Last Calib.: 2010.08.07

Time On Btm: 2010.08.07 @ 09:49:30

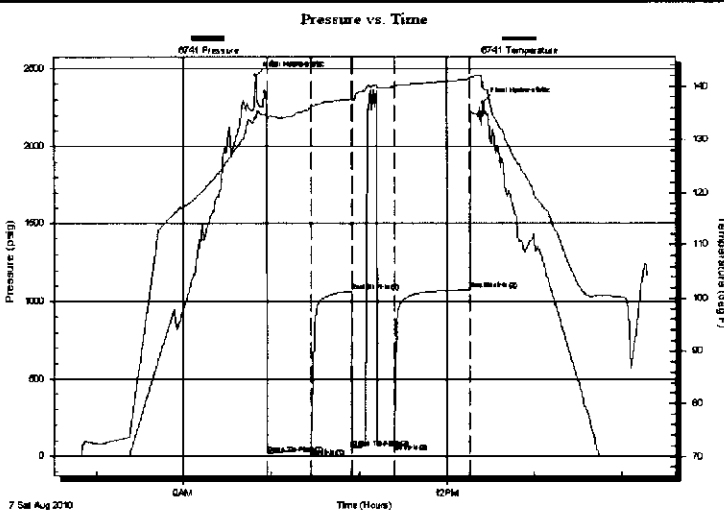
Time Off Btm: 2010.08.07 @ 12:25:00

TEST COMMENT: IF: Weak blow, Started at 1/2 in. Died to surface over 30 mins.

IS: No blow back over 30 mins.

FF: No blow, Flushed tool, Weak surface blow.

FSI: No blow back over 45 mins.



PRESSURE SUMMARY

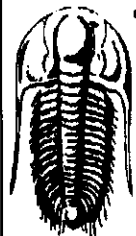
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2453.72	134.20	Initial Hydro-static
8	17.70	134.04	Open To Flow (1)
38	51.69	136.19	Shut-In(1)
66	1067.78	137.69	End Shut-In(1)
66	55.61	137.37	Open To Flow (2)
95	81.94	139.93	Shut-In(2)
146	1076.41	141.41	End Shut-In(2)
156	2284.30	139.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud	0.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Job Ticket: 37972 **DST#: 3**

Test Start: 2010.08.07 @ 07:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

