



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

SGA

1515 Wynkoop STE 700
Denevr Co 80202

ATTN: Chris Mitchell

35-16S-16W Rush

Maier Family 1-35

Job Ticket: 56187

DST#: 2

Test Start: 2014.02.18 @ 10:40:00

GENERAL INFORMATION:

Formation: **LKC H,I,J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:45:28

Time Test Ended: 18:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Tim Phillips

Unit No: 70

Interval: 3430.00 ft (KB) To 3487.00 ft (KB) (TVD)

Reference Elevations: 2011.00 ft (KB)

Total Depth: 3487.00 ft (KB) (TVD)

2006.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8700

Press@RunDepth: 53.84 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.18

End Date:

2014.02.18

Last Calib.:

2014.02.18

Start Time: 10:40:05

End Time:

18:19:58

Time On Btm:

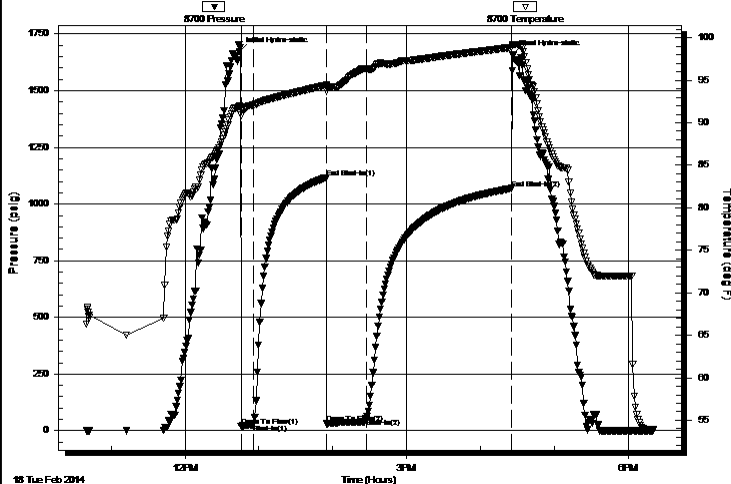
2014.02.18 @ 12:44:13

Time Off Btm:

2014.02.18 @ 16:26:13

TEST COMMENT: IFP-10- Blow built to 1.25 in.
ISI-60- Dead no blow back
FF-30- Blow built to 3/4 in died back to nothing
FSI-120- Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1673.11	91.95	Initial Hydro-static
2	19.75	90.90	Open To Flow (1)
12	28.19	92.09	Shut-In(1)
71	1116.71	94.43	End Shut-In(1)
71	32.98	93.72	Open To Flow (2)
103	53.84	96.33	Shut-In(2)
221	1068.97	98.86	End Shut-In(2)
222	1660.55	99.15	Final Hydro-static

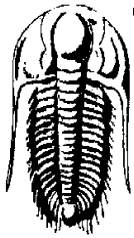
Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100%	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2011.00 ft (KB)

2006.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8374

Press@RunDepth: psig @ ft (KB)

Start Date: 2014.02.18

End Date:

2014.02.18

Start Time: 10:40:05

End Time:

18:22:44

Capacity: 8000.00 psig

Last Calib.:

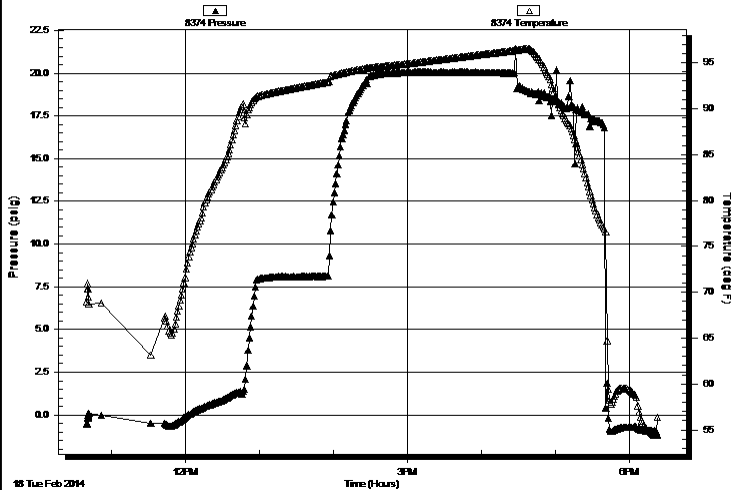
2014.02.18

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-10- Blow built to 1.25 in.
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Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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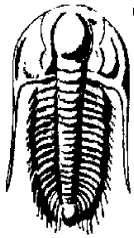
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Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2011.00 ft (KB)

2006.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8369

Press@RunDepth: psig @ ft (KB)

Start Date: 2014.02.18

End Date:

2014.02.18

Start Time: 10:40:05

End Time:

18:22:29

Capacity: 8000.00 psig

Last Calib.:

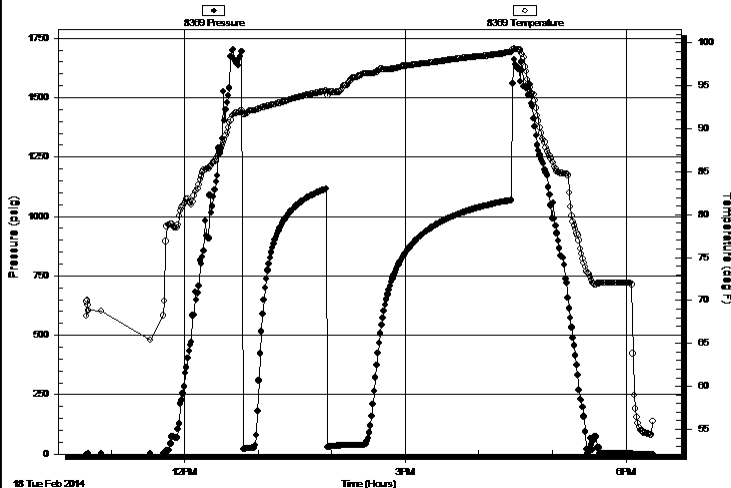
2014.02.18

Time On Btm:

Time Off Btm:

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Pressure vs. Time



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Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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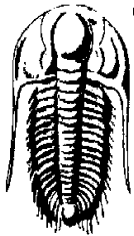
Recovery

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35.00	Mud 100%	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.93 in³

Resistivity: ohm.m

Salinity: 8300.00 ppm

Filter Cake: 1.00 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
35.00	Mud 100%	0.209

Total Length: 35.00 ft Total Volume: 0.209 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 500 ml Mud 100% at 100 psi

