

DRILL STEM TEST REPORT

Prepared For: **A & A Production**

PO Box 100
Hill City, KS 67642

ATTN: Mark Torr

35 9 26 Sheridan KS

Breeden #1-35

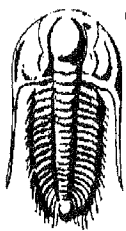
Start Date: 2009.03.13 @ 07:51:00

End Date: 2009.03.13 @ 14:02:00

Job Ticket #: 34489 DST #: 1

Trilobite Testing, Inc
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

A & A Production

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Breeden #1-35

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Job Ticket: 34489

DST#: 1

Test Start: 2009.03.13 @ 07:51:00

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:08:00

Time Test Ended: 14:02:00

Interval: **3956.00 ft (KB) To 4005.00 ft (KB) (TVD)**

Total Depth: 4140.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 36

Reference Elevations: 2571.00 ft (KB)

2566.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 27.09 psig @ 3957.00 ft (KB)

Start Date: 2009.03.13

End Date:

2009.03.13

Start Time: 07:51:05

End Time:

14:01:59

Capacity: 7000.00 psig

Last Calib.: 2009.03.13

Time On Btm: 2009.03.13 @ 10:07:00

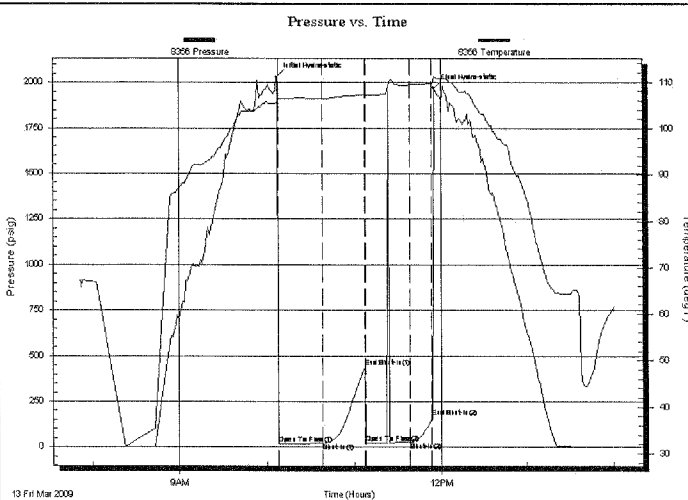
Time Off Btm: 2009.03.13 @ 11:55:30

TEST COMMENT: IF: 1" Blow @ open, built to 1 1/2" in 11 min., died back to 1 1/4" by close

ISI: Bled off, No blow back

FF: No blow, Flushed tool @ 15 min., 1/8" blow, dead in 13 min.

FSI: No blow back



PRESSURE SUMMARY

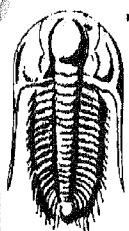
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.79	105.69	Initial Hydro-static
1	18.99	106.34	Open To Flow (1)
31	20.75	106.44	Shut-In(1)
61	441.21	107.33	End Shut-In(1)
61	21.37	107.15	Open To Flow (2)
92	27.09	109.41	Shut-In(2)
107	166.37	109.73	End Shut-In(2)
109	1970.34	111.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

Gas Rates

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

A & A Production

Breeden #1-35

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35 9 26 Sheridan KS

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DST#: 1

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Test Start: 2009.03.13 @ 07:51:00

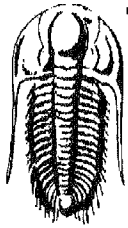
Tool Information

Drill Pipe:	Length: 3952.00 ft	Diameter: 3.80 inches	Volume: 55.44 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 55.44 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3956.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	4005.00 ft			
Interval between Packers:	49.00 ft			
Tool Length:	204.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3941.00	
HYD S.I. Tool	5.00			3946.00	
Packer	5.00			3951.00	20.00 Bottom Of Top Packer
Packer	5.00			3956.00	
Stubb	1.00			3957.00	
Recorder	0.00	8366	Inside	3957.00	
Perforations	5.00			3962.00	
Blank Spacing	33.00			3995.00	
Perforations	5.00			4000.00	
Recorder	0.00	7457	Inside	4000.00	
Blank Off Sub	1.00			4001.00	
Blank Spacing	4.00			4005.00	49.00 Tool Interval
Packer	0.00			4005.00	
Stubb	1.00			4006.00	
Recorder	0.00	8320	Inside	4006.00	
Perforations	5.00			4011.00	
Blank Spacing	126.00			4137.00	
Bullnose	3.00			4140.00	135.00 Bottom Packers & Anchor

Total Tool Length: 204.00



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FLUID SUMMARY

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DST#: 1

ATTN: Mark Torr

Test Start: 2009.03.13 @ 07:51:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

