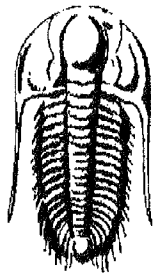


34-8s-29w

15-179-21216-00-00

KGS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Castle Res.**

Box 87
Schoenchen KS 67667

ATTN: Doug Jones

NE SW SW NE
2040 FNL 2140 FEL

34-8s-29w Sheridan

Steinshouser #2

Start Date: 2008.12.31 @ 07:31:05

End Date: 2008.12.31 @ 14:32:59

Job Ticket #: 33576 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 12 2009

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Castle Res.

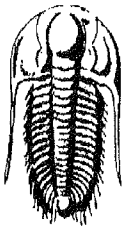
Steinshouser #2

34-8s-29w Sheridan

DST # 1

Howard

2008.12.31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Castle Res.
Box 87
Schoenchen KS 67667
ATTN: Doug Jones

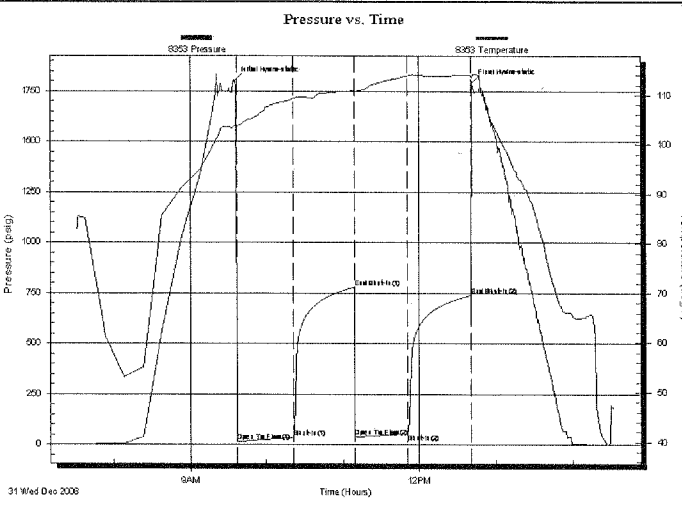
Steinshouser #2
34-8s-29w Sheridan
Job Ticket: 33576 **DST#: 1**
Test Start: 2008.12.31 @ 07:31:05

GENERAL INFORMATION:

Formation: **Howard**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:36:30
Time Test Ended: 14:32:59
Test Type: Conventional Bottom Hole
Tester: Brandon Domsch
Unit No: 25
Interval: **3652.00 ft (KB) To 3680.00 ft (KB) (TVD)**
Reference Elevations: 2829.00 ft (KB)
Total Depth: 3680.00 ft (KB) (TVD) 2824.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8353 Inside
Press@RunDepth: 56.61 psig @ 3653.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.12.31 End Date: 2008.12.31 Last Calib.: 2008.12.31
Start Time: 07:31:05 End Time: 14:32:59 Time On Btm: 2008.12.31 @ 09:35:00
Time Off Btm: 2008.12.31 @ 12:41:29

TEST COMMENT: IF: Built to 5 1/2 inches.
IS: No return.
FF: Built to 3 1/4 inches.
FS: Surface blow for 12 mins.



PRESSURE SUMMARY

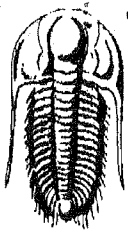
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1800.71	103.76	Initial Hydro-static
2	14.56	103.12	Open To Flow (1)
47	35.99	109.30	Shut-In (1)
94	778.98	110.88	End Shut-In (1)
95	39.00	110.55	Open To Flow (2)
136	56.61	113.91	Shut-In (2)
186	739.34	114.11	End Shut-In (2)
187	1792.74	113.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	WCMw/ O spots 15%w 85%m	1.33
0.00	GIP 0	0.00
0.00	RW = N/A	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Res.

Steinshouser #2

Box 87
Schoenchen KS 67667

34-8s-29w Sheridan

Job Ticket: 33576

DST#: 1

ATTN: Doug Jones

Test Start: 2008.12.31 @ 07:31:05

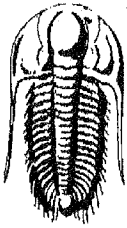
Tool Information

Drill Pipe:	Length: 3652.00 ft	Diameter: 3.80 inches	Volume: 51.23 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 51.23 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3652.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3633.00	
Shut In Tool	5.00			3638.00	
Hydraulic tool	5.00			3643.00	
Packer	5.00			3648.00	20.00 Bottom Of Top Packer
Packer	4.00			3652.00	
Stubb	1.00			3653.00	
Recorder	0.00	8353	Inside	3653.00	
Recorder	0.00	6741	Inside	3653.00	
Perforations	22.00			3675.00	
Bullnose	5.00			3680.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Res.
Box 87
Schoenchen KS 67667
ATTN: Doug Jones

Steinshouser #2
34-8s-29w Sheridan
Job Ticket: 33576 **DST#: 1**
Test Start: 2008.12.31 @ 07:31:05

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 2.00 inches			

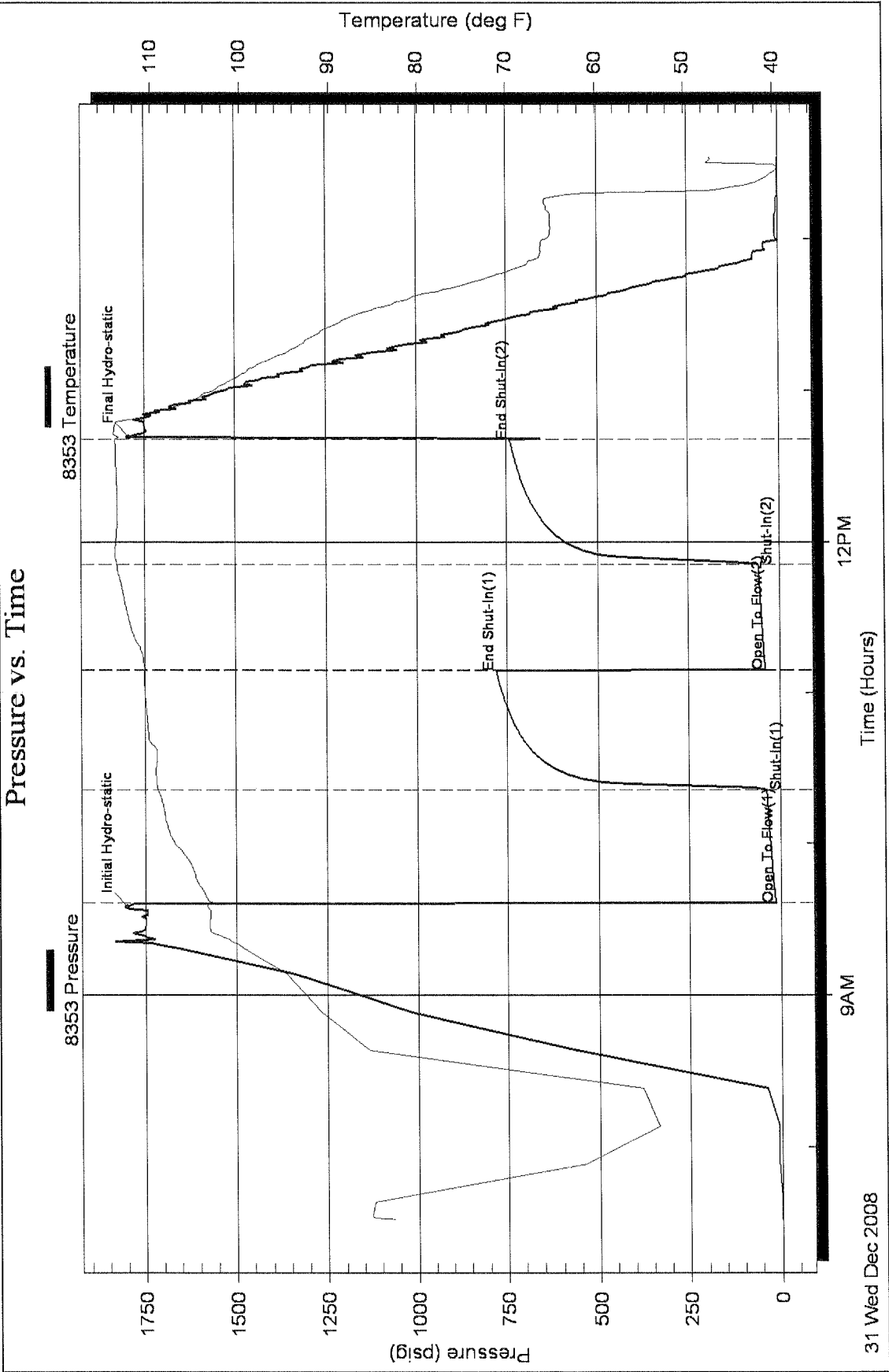
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	WCM w / O spots 15%w 85%m	1.333
0.00	GIP 0	0.000
0.00	RW = N/A	0.000

Total Length: 95.00 ft Total Volume: 1.333 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



31 Wed Dec 2008

9AM

12PM