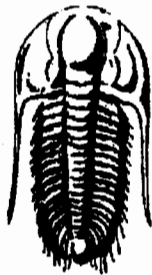


15-163-23690



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Castelli Exploration**

6908 W 112th St
Oklahoma City OK 73162

ATTN: Jim Musgrove

18 10S 19W Rooks KS

Heiland #1-18

Start Date: 2008.02.21 @ 01:10:03

End Date: 2008.02.21 @ 10:18:33

Job Ticket #: 31516 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 11 2008

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Castelli Exploration
6908 W 112th St
Oklahoma City OK 73162
ATTN: Jim Musgrove

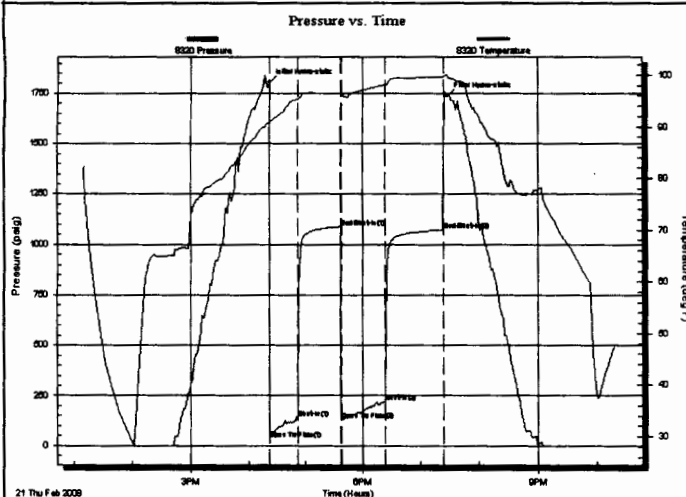
Heiland #1-18
18 10S 19W Rooks KS
Job Ticket: 31516 **DST#: 1**
Test Start: 2008.02.21 @ 01:10:03

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 04:22:03
Time Test Ended: 10:18:33
Interval: **3672.00 ft (KB) To 3792.00 ft (KB) (TVD)**
Total Depth: **3792.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Tyson Flax**
Unit No: **44**
Reference Elevations: **2228.00 ft (KB)**
2223.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8320 **Inside**
Press@RunDepth: **219.49 psig @ 3679.00 ft (KB)**
Start Date: **2008.02.21** End Date: **2008.02.21**
Start Time: **13:10:04** End Time: **22:18:33**
Capacity: **7000.00 psig**
Last Calib.: **2008.02.21**
Time On Btm: **2008.02.21 @ 16:21:33**
Time Off Btm: **2008.02.21 @ 19:27:33**

TEST COMMENT: IFF BOB in 22 min
ISI Weak surface blow back throughout
FFP BOB in 21 min
FSI Weak surface blow backdied in 25 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.25	90.90	Initial Hydro-static
1	32.65	90.80	Open To Flow (1)
31	138.57	95.33	Shut-In (1)
75	1087.13	96.47	End Shut-In (1)
76	130.10	96.28	Open To Flow (2)
122	219.49	98.10	Shut-In (2)
182	1072.72	99.63	End Shut-In (2)
186	1737.47	100.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCO 60%O 40%M	1.43
120.00	MCO 75%O 25%M	1.70
160.00	CO	2.27
0.00	120' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Exploration

Heiland #1-18

6908 W 112th St
Oklahoma City OK 73162

18 10S 19W Rooks KS

Job Ticket: 31516

DST#: 1

ATTN: Jim Musgrove

Test Start: 2008.02.21 @ 01:10:03

Tool Information

Drill Pipe:	Length: 3558.00 ft	Diameter: 3.82 inches	Volume: 50.44 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	75000.00 lb
		Total Volume:	51.04 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	3672.00 ft			Final	67000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	120.00 ft				
Tool Length:	141.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3652.00	
Shut In Tool	5.00			3657.00	
Hydraulic tool	5.00			3662.00	
Packer	5.00			3667.00	21.00 Bottom Of Top Packer
Packer	5.00			3672.00	
Stubb	1.00			3673.00	
Perforations	5.00			3678.00	
Change Over Sub	1.00			3679.00	
Recorder	0.00	8320	Inside	3679.00	
Recorder	0.00	8367	Inside	3679.00	
Blank Spacing	94.00			3773.00	
Change Over Sub	1.00			3774.00	
Perforations	15.00			3789.00	
Bullnose	3.00			3792.00	120.00 Bottom Packers & Anchor

Total Tool Length: 141.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Castelli Exploration

Helland #1-18

6908 W 112th St
Oklahoma City OK 73162

18 10S 19W Rooks KS

Job Ticket: 31516

DST#: 1

ATTN: Jim Musgrove

Test Start: 2008.02.21 @ 01:10:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

22 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MCO 60%O 40%M	1.431
120.00	MCO 75%O 25%M	1.701
160.00	CO	2.268
0.00	120' GIP	0.000

Total Length: 460.00 ft

Total Volume: 5.400 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

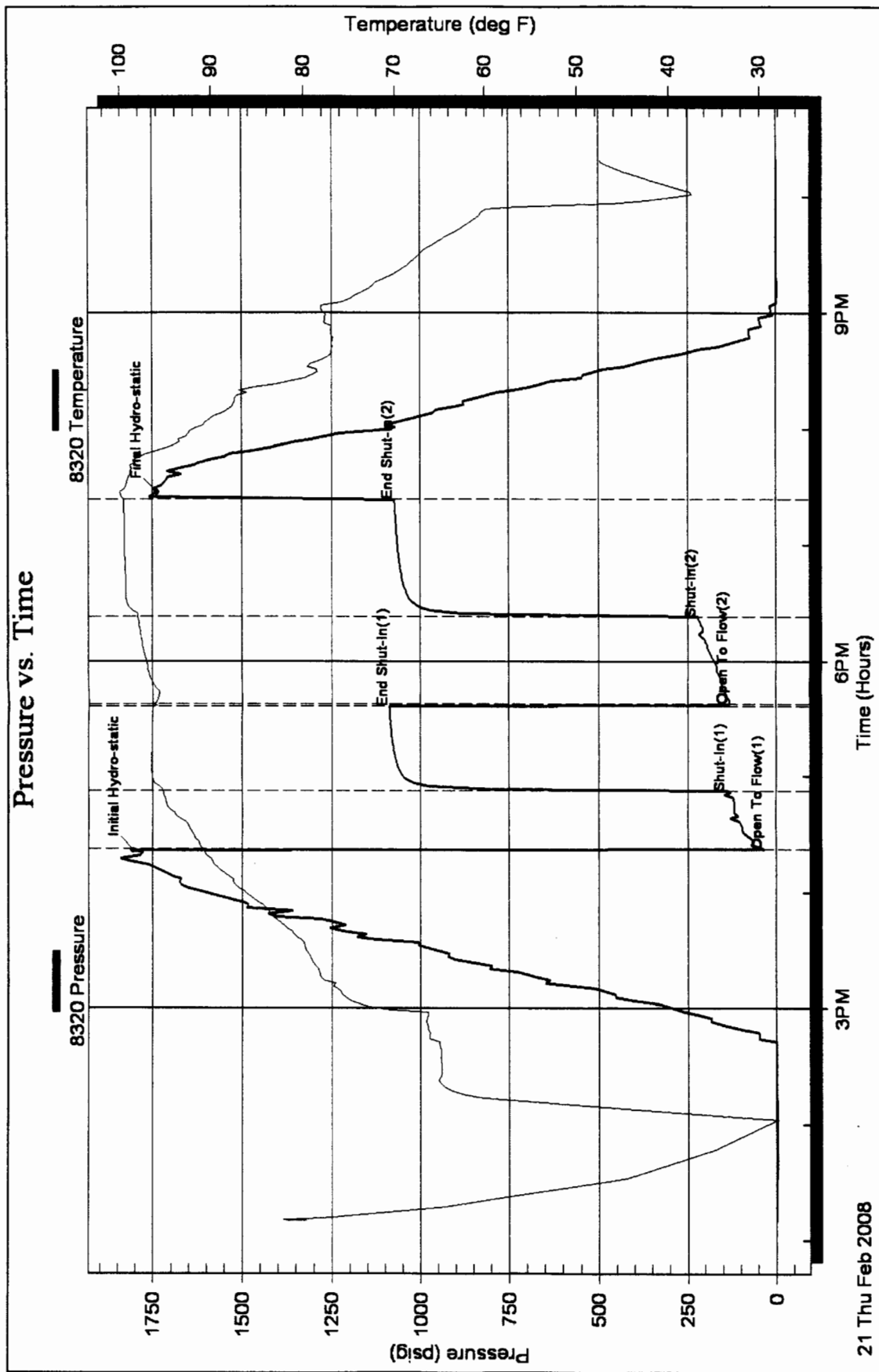
18 10S 19W Rocks KS

Castelli Exploration

Inside

Serial #: 8320

Pressure vs. Time



21 Thu Feb 2008

Ref. No: 31516

Trilobite Testing, Inc

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