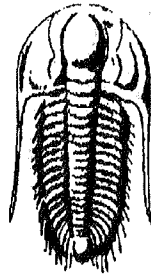


15-051-25404

16-14s-17w

16-14s-17w
S2 S2 SE

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Company**

704 E 12th
Hays KS 67601

ATTN: Mike Hertel

16 14s 17w Ellis KS

Sanders #1

Start Date: 2005.04.17 @ 17:18:33

End Date: 2005.04.17 @ 23:15:47

Job Ticket #: 22776

DST #: 1

API # 15-051-25404-00-00
330 FSL 1290 FEL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Hertel Oil Company

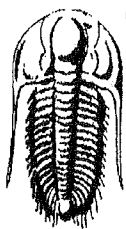
Sanders #1

16 14s 17w Ellis KS

DST # 1

Arbuckle

2005.04.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hertel Oil Company

704 E 12th
Hays KS 67601

ATTN: Mike Hertel

Sanders #1

16 14s 17w Ellis KS

Job Ticket: 22776

DST#: 1

Test Start: 2005.04.17 @ 17:18:33

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:32:32

Time Test Ended: 23:15:47

Test Type: Conventional Bottom Hole

Tester: Paul Simpson

Unit No: 15

Interval: **3476.00 ft (KB) To 3556.00 ft (KB) (TVD)**

Total Depth: 3610.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1986.00 ft (KB)

1981.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8166

Inside

Press@RunDepth: 29.87 psig @ 3478.00 ft (KB)

Start Date: 2005.04.17

End Date:

2005.04.17

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 17:18:33

End Time:

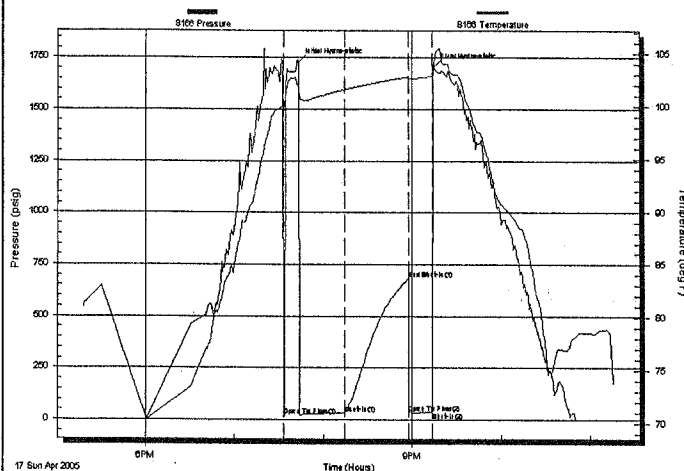
23:15:47

Time On Btm: 2005.04.17 @ 19:42:32

Time Off Btm: 2005.04.17 @ 21:14:47

TEST COMMENT: IF Weak 1/2" blow building to 3/4"
FF- very weak surface blow

Pressure vs. Time



PRESSURE SUMMARY

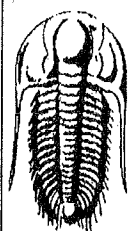
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	17.78	99.41	Open To Flow (1)
10	1730.26	101.73	Initial Hydro-static
42	29.87	101.60	Shut-In(1)
85	680.81	102.80	End Shut-In(1)
85	34.79	102.63	Open To Flow (2)
102	35.90	102.85	Shut-In(2)
103	1706.62	104.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 15% O 85% M	0.07
30.00	OCM 10% O 90% M	0.15

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hertel Oil Company

704 E 12th
Hays KS 67601

ATTN: Mike Hertel

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Sanders #1

16 14s 17w Ellis KS

Job Ticket: 22776

DST#: 1

Test Start: 2005.04.17 @ 17:18:33

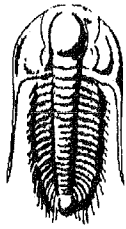
Tool Information

Drill Pipe:	Length: 3160.00 ft	Diameter: 3.80 inches	Volume: 44.33 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 2000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: - bbl		Tool Chased ft
Drill Pipe Above KB:	74.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3476.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	138.00 ft			
Tool Length:	158.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3461.00	
Hydraulic tool	5.00			3466.00	
Packer	5.00			3471.00	20.00 Bottom Of Top Packer
Packer	5.00			3476.00	
Change Over Sub	1.00			3477.00	
Stubb	1.00			3478.00	
Recorder	0.00	8166	Inside	3478.00	
Perforations	4.00			3482.00	
Change Over Sub	1.00			3483.00	
Blank Spacing	63.00			3546.00	
Change Over Sub	1.00			3547.00	
Perforations	5.00			3552.00	
Blank Off Sub	1.00			3553.00	138.00 Tool Interval
Packer	5.00			3558.00	
Stubb	1.00			3559.00	
Anchor	19.00			3578.00	
Change Over Sub	1.00			3579.00	
Blank Spacing	31.00			3610.00	
Change Over Sub	1.00			3611.00	
Bullnose	3.00			3614.00	1000157.00 Bottom Packers & Anchor

Total Tool Length: 158.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hertel Oil Company

Sanders #1

704 E 12th
Hays KS 67601

16 14s 17w Ellis KS

Job Ticket: 22776

DST#: 1

ATTN: Mike Hertel

Test Start: 2005.04.17 @ 17:18:33

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 15% O 85% M	0.074
30.00	OCM 10% O 90% M	0.148

Total Length: 45.00 ft Total Volume: 0.222 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

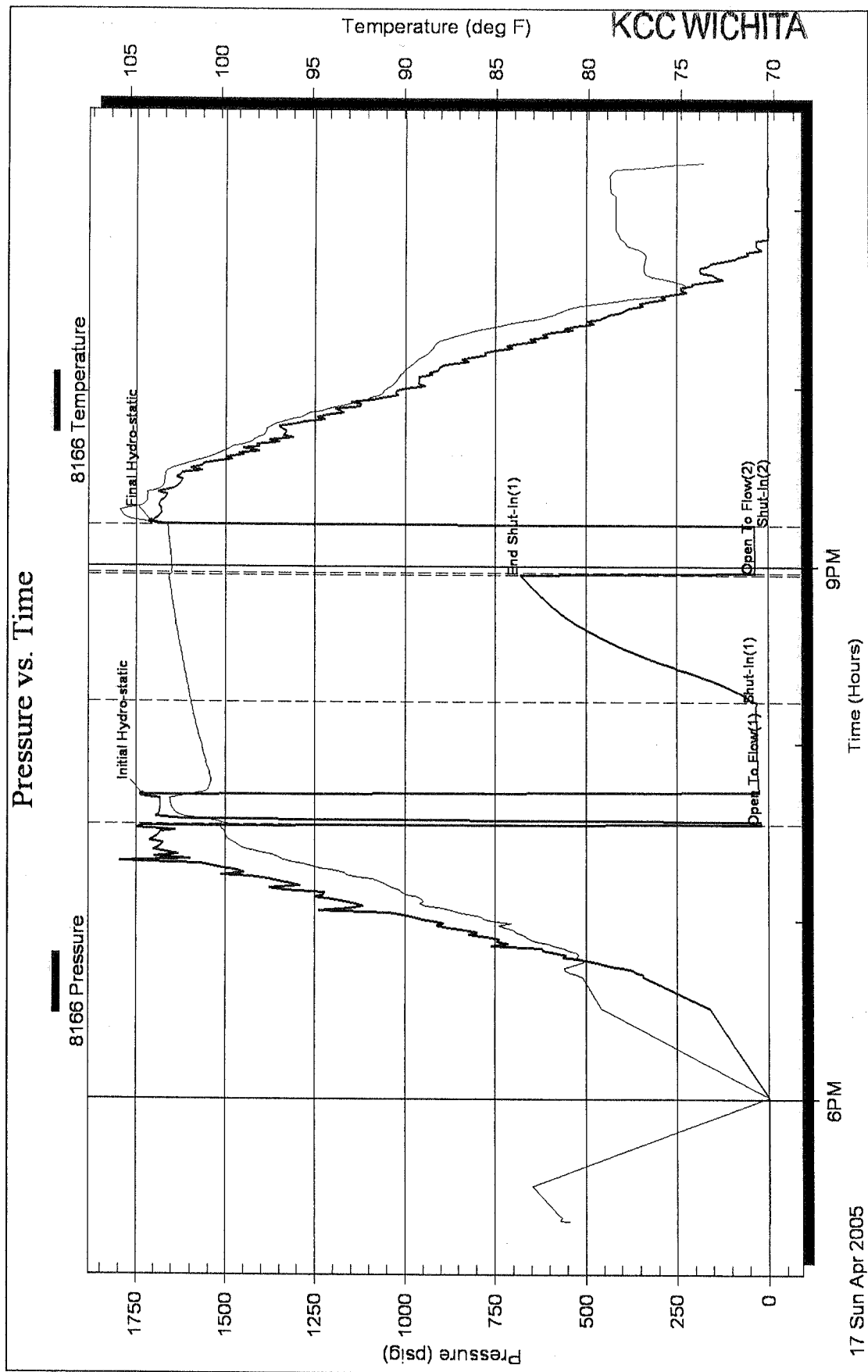
16 14s 17w Ellis KS

Hertel Oil Company

Inside

Serial #: 8166

Pressure vs. Time



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