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KCC

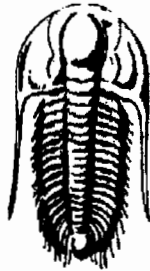
DEC 15 2003

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JAN 21 2004

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15-129-21703 KCC WICHITA



**TRILOBITE
TESTING, INC.**

RELEASED
FROM
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DRILL STEM TEST REPORT

Prepared For: **Oxy U.S.A.**

PO Box 2528
Liberal, KS 67905

ATTN: Oxy U.S.A.

3-33-43 Morton, Ks

Denney B-1

Start Date: 2003.10.20 @ 00:30:23

End Date: 2003.10.20 @ 10:30:21

Job Ticket #: 17714 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Oxy U.S.A.

Denney B-1

3-33-43 Morton, Ks

DST # 1

morrow

2003.10.20

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Oxy U.S.A.

 PO Box 2528
 Liberal, KS 67905

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KCC

DEC 15 2003

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Denney B-1

3-33-43 Morton, Ks

Job Ticket: 17714

DST#: 1

Test Start: 2003.10.20 @ 00:30:23

GENERAL INFORMATION:

Formation: **morrow**Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 03:29:06

Time Test Ended: 10:30:21

Interval: **4506.00 ft (KB) To 4626.00 ft (KB) (TVD)**Total Depth: **4626.00 ft (KB) (TVD)**Hole Diameter: **7.88 inches** Hole Condition: **Fair**Test Type: **Conventional Bottom Hole**Tester: **Shane McBride**Unit No: **25**Reference Elevations: **3618.00 ft (KB)****3608.00 ft (CF)**KB to GR/CF: **10.00 ft**
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Serial #: **6753**

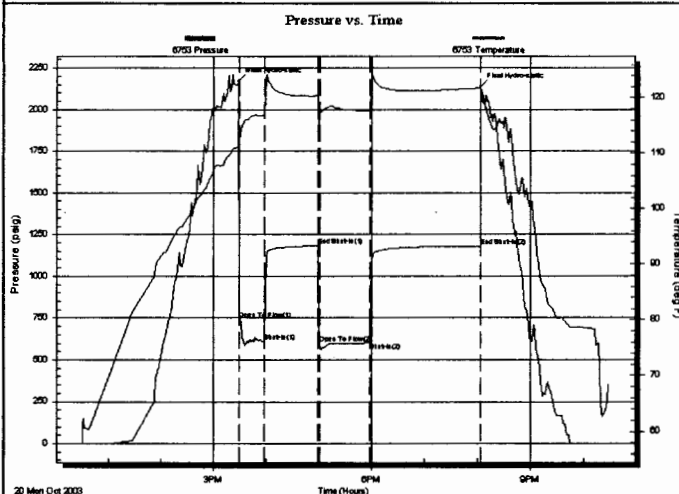
Inside

Press@RunDepth: **602.34 psig @ 4507.00 ft (KB)**Start Date: **2003.10.20**

End Date:

Start Time: **12:30:23**

End Time:

Capacity: **7000.00 psig**Last Calib.: **1899.12.30**Time On Btm: **2003.10.20 @ 15:28:51**Time Off Btm: **2003.10.20 @ 20:04:06**TEST COMMENT: **B.O.B. in 1/2 min. G.T.S. in 3 min.****No return****Gauging gas @ open****No return**

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.93	111.18	Initial Hydro-static
1	742.54	110.80	Open To Flow (1)
30	608.11	116.81	Shut-In(1)
90	1181.80	120.35	End Shut-In(1)
93	597.75	117.35	Open To Flow (2)
150	602.34	117.61	Shut-In(2)
275	1179.05	121.75	End Shut-In(2)
276	2137.32	120.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	s g c m 10%g 90% m	2.09

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	65.00	1153.09
Last Gas Rate	0.75	160.00	2532.72
Max. Gas Rate	0.75	160.00	2532.72

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 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		TOOL DIAGRAM
	Oxy U.S.A. PO Box 2528 Liberal, KS 67905 ATTN: Oxy U.S.A.	KCC DEC 15 2003 <i>2003</i>	Denney B-1 3-33-43 Morton, Ks Job Ticket: 17714 Test Start: 2003.10.20 @ 00:30:23

Tool Information

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Drill Pipe:	Length: 4225.00 ft	Diameter: 3.80 inches	Volume: 59.27 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: 30000.00 lb
Drill Collar:	Length: 279.00 ft	Diameter: 2.25 inches	Volume: 1.37 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume:	60.64 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4506.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	120.00 ft			
Tool Length:	150.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4477.00	
Shut In Tool	5.00			4482.00	
Sampler	3.00			4485.00	
Hydraulic tool	5.00			4490.00	
Jars	5.00			4495.00	
Safety Joint	2.00			4497.00	
Packer	5.00			4502.00	30.00 Bottom Of Top Packer
Packer	4.00			4506.00	
Stubb	1.00			4507.00	
Recorder	0.00	6753	Inside	4507.00	
Perforations	19.00			4526.00	
Change Over Sub	1.00			4527.00	
drillpipe	93.00			4620.00	
Change Over Sub	1.00			4621.00	
Recorder	0.00	11058	Outside	4621.00	
Bullnose	5.00			4626.00	120.00 Bottom Packers & Anchor
Total Tool Length:		150.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Oxy U.S.A.

Denney B-1

PO Box 2528
Liberal, KS 67905

3-33-43 Morton, Ks

Job Ticket: 17714

DST#: 1

ATTN: Oxy U.S.A.

Test Start: 2003.10.20 @ 00:30:23

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:

700 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	s g c m 10%g 90%m	2.087

Total Length: 330.00 ft Total Volume: 2.087 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 1,100 psi.

1000 ml. mud 2.6 cubic ft of gas

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TRILOBITE
TESTING, INC.
DRILL STEM TEST REPORT
GAS RATES

Oxy U.S.A.

Denney B-1

 PO Box 2528
 Liberal, KS 67905

KCC
DEC 15 2003

3-33-43 Morton, Ks

Job Ticket: 17714

DST#: 1

ATTN: Oxy U.S.A.

Test Start: 2003.10.20 @ 00:30:23

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Gas Rates Information

 Temperature: 82 deg C
 Relative Density: 0.64
 Z Factor: 0.9

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
1	5	0.75	65.00	1153.09
1	10	0.75	125.00	2024.43
1	20	0.75	140.00	2242.27
1	30	0.75	150.00	2387.50
2	5	0.75	110.00	1806.60
2	10	0.75	147.00	2343.93
2	20	0.75	160.00	2532.72
2	30	0.75	160.00	2532.72
2	40	0.75	160.00	2532.72
2	50	0.75	160.00	2532.72
2	60	0.75	160.00	2532.72

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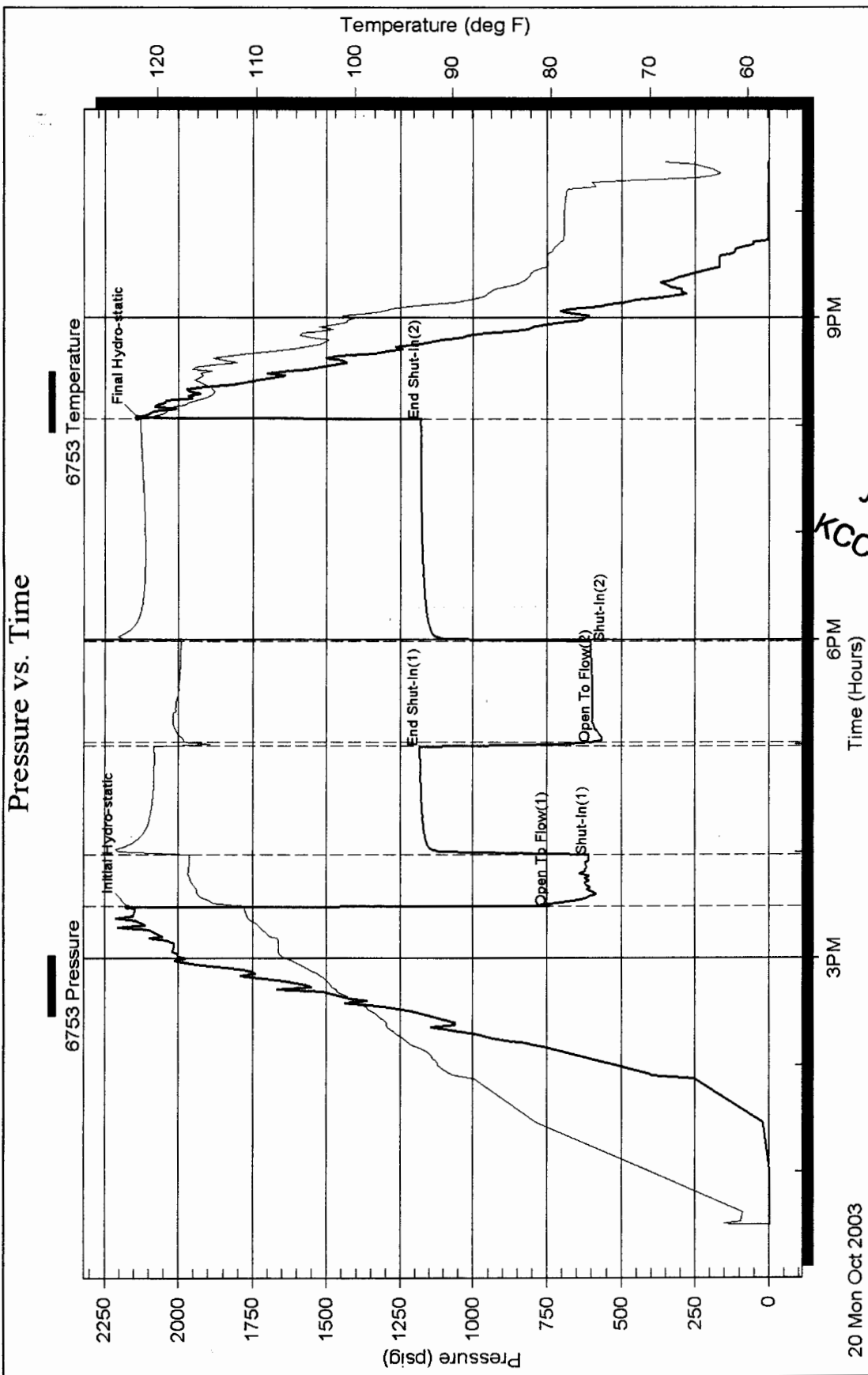
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Oxy U.S.A.

Inside

Serial #: 6753

Pressure vs. Time



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Ref. No: 17714

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