

CONFIDENTIAL

DATE

15-075-20785

ORIGINAL



**TRILOBITE
TESTING, INC.**

RECEIVED
JUL 08 2002
KCC WICHITA

DRILL STEM TEST REPORT

Prepared For: **Oxy U.S.A. Inc.**
PO Box 2528
Liberal KS 67905

ATTN: Oxy U.S.A.

22-22s-43w Hamilton

Oxy U.S.A. # A -1

Start Date: 2002.04.02 @ 01:38:25

End Date: 2002.04.02 @ 11:02:54

Job Ticket #: 15084 DST #: 1

KCC
JUL 02 2002
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AUG 11 2003
FROM CONFIDENTIAL

Oxy U.S.A. Inc.

Oxy U.S.A. # A -1

22-22s-43w Hamilton

DST # 1

shawnee

2002.04.02

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



	DRILL STEM TEST REPORT
Oxy U.S.A. Inc. PO Box 2528 Liberal KS 67905 ATTN: Oxy U.S.A.	Oxy U.S.A. # A -1 22-22s-43w Hamilton Job Ticket: 15084 DST#: 1 Test Start: 2002.04.02 @ 01:38:25

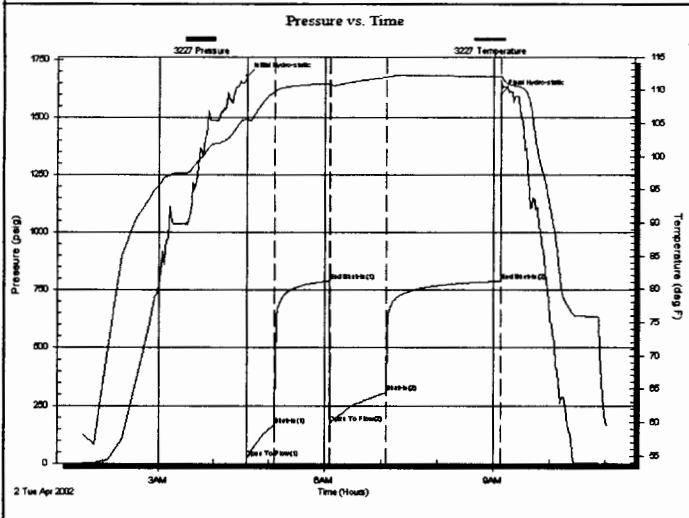
GENERAL INFORMATION:

Formation: shawnee	KCC	Test Type: Conventional Bottom Hole
Deviated: No Whipstock: ft (KB)	JUL 02 2002	Tester: Shane McBride
Time Tool Opened: 04:35:54	CONFIDENTIAL	Unit No: 15
Time Test Ended: 11:02:54		Reference Elevations: 3579.00 ft (KB)
Interval: 3564.00 ft (KB) To 3587.00 ft (KB) (TVD)		3568.00 ft (CF)
Total Depth: 3587.00 ft (KB) (TVD)		KB to GR/CF: 11.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair		

Serial #: 3227

Press@RunDepth: 306.43 psig @ 3565.00 ft (KB)	Capacity: 7000.00 psig
Start Date: 2002.04.02 End Date: 2002.04.02	Last Calib.: 1899.12.30
Start Time: 01:38:25 End Time: 11:02:54	Time On Btm: 2002.04.02 @ 04:35:24
	Time Off Btm: 2002.04.02 @ 09:08:24

TEST COMMENT: 1/4" in. @ open built to 7" in.
 No return
 Surface blow in 4 min. built to 3" in.
 No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.41	105.61	Initial Hydro-static
1	22.44	105.50	Open To Flow (1)
30	166.70	109.74	Shut-In(1)
89	789.23	110.92	End Shut-in(1)
90	171.79	110.86	Open To Flow (2)
150	306.43	111.90	Shut-In(2)
273	788.93	112.02	End Shut-In(2)
273	1601.83	112.10	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
180.00	s m c w 10% m 90% w	0.89
427.00	salt water 100% w	5.65

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Oxy U.S.A. Inc.

PO Box 2528
Liberal KS 67905

ATTN: Oxy U.S.A.

Oxy U.S.A. # A -1

22-22s-43w Hamilton

Job Ticket: 15084

DST#: 1

Test Start: 2002.04.02 @ 01:38:25

Tool Information

Drill Pipe: Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 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: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 75000.00 lb
		<u>Total Volume: 48.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB: 31.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer: 3564.00 ft			Final 62000.00 lb
Depth to Bottom Packer: ft			
Interval between Packers: 23.00 ft			
Tool Length: 53.00 ft			
Number of Packers: 2	Diameter: 6.75 inches		

Tool Comments:

JUL 08 AM
KCC WICHITA

Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			3535.00	
S.I. Tool	5.00			3540.00	
Sampler	3.00			3543.00	
HMV	5.00			3548.00	
Jars	5.00			3553.00	
Safety Joint	2.00			3555.00	
Packer	5.00			3560.00	30.00 Bottom Of Top Packer
Packer	4.00			3564.00	
Stubb	1.00			3565.00	
Recorder	0.00	3227		3565.00	
Perforations	17.00			3582.00	
Recorder	0.00	11057		3582.00	
Bullnose	5.00			3587.00	23.00 Bottom Packers & Anchor

Total Tool Length: 53.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Oxy U.S.A. Inc.

Oxy U.S.A. # A -1

PO Box 2528
Liberal KS 67905

22-22s-43w Hamilton

Job Ticket: 15084 **DST#: 1**

ATTN: Oxy U.S.A.

Test Start: 2002.04.02 @ 01:38:25

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:	27000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.17 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	s m c w 10% m 90% w	0.885
427.00	salt water 100% w	5.653

Total Length: 607.00 ft Total Volume: 6.538 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

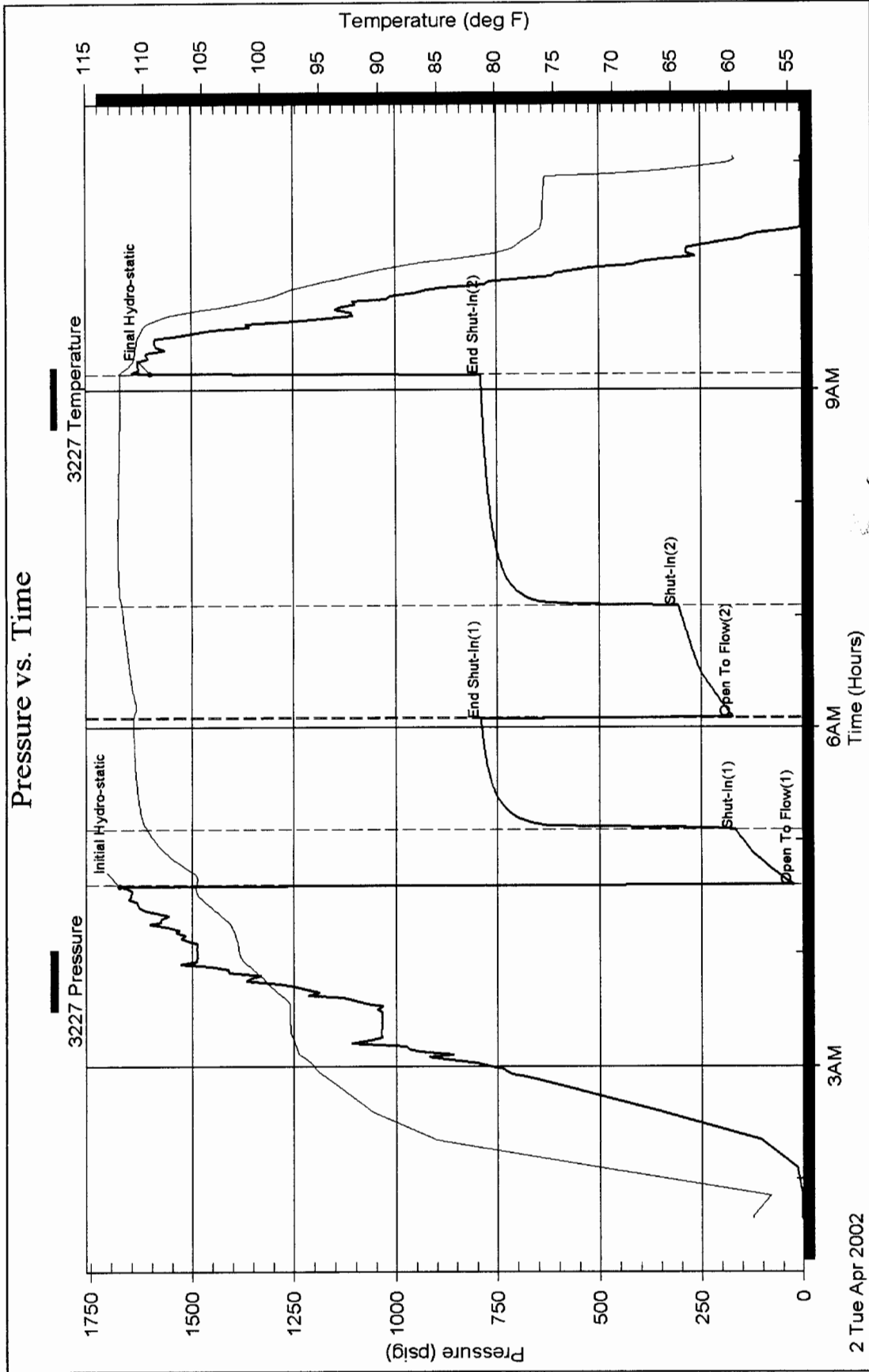
Recovery Comments: sampler 4,000ml water rw .334 @ 52*f 27,000 chlorides

Serial #: 3227

Oxy U.S.A. Inc.

22-22s-43w Hamilton

DST Test Number: 1



JUL 08 AM
WICHITA