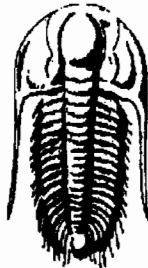


CONFIDENTIAL

15-081-21442

CONFIDENTIAL



**TRILOBITE
TESTING, INC.**

KCC

JUL 18 2003

CONFIDENTIAL

ORIGINAL

DRILL STEM TEST REPORT

Prepared For: **Oxy USA Inc**

PO Box 2538
Liberal Ks 67905

RELEASED

AUG 11 2003

ATTN: TOM

FROM CONFIDENTIAL

31 27s 33w

Lyman A-1

Start Date: 2002.04.17 @ 03:45:00

End Date: 2002.04.17 @ 13:56:45

Job Ticket #: 14189

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Oxy USA Inc
PO Box 2538
Liberal Ks 67905

ATTN: TOM

Lyman A-1

31 27s 33w

Job Ticket: 14189

DST#: 1

Test Start: 2002.04.17 @ 03:45:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock:

ft (KB)

Time Tool Opened: 06:23:00

Time Test Ended: 13:56:45

Interval: **4765.00 ft (KB) To 4782.00 ft (KB) (TVD)**

Total Depth: **4782.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: Fair

RELEASED

AUG 11 2003

FROM CONFIDENTIAL

Test Type: Conventional Bottom Hole

Tester: Jakki Krekiau

Unit No: 17

Reference Elevations: 3024.00 ft (KB)

3014.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **2341**

Inside

Press@RunDepth: 247.17 psig @ 4766.00 ft (KB)

Start Date: 2002.04.17

End Date:

2002.04.17

Start Time: 03:45:01

End Time:

13:56:45

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2002.04.17 @ 06:22:15

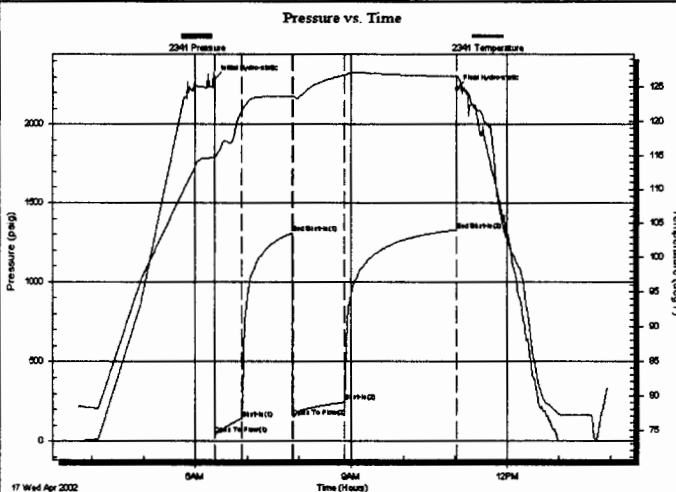
Time Off Btm: 2002.04.17 @ 11:02:00

TEST COMMENT: IF- Fair blow BOB 8min. decreased 1/8 "in" in bucket " GOT PACKER SEAT"

IS- Blow back built to 1/8 "in" in bucket

FF- Fair blow BOB 40 min. thru opening

FSI Blow back built to 1/8 in" in bucket at e



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2283.72	114.71	Initial Hydro-static
1	41.87	114.75	Open To Flow (1)
32	142.26	121.37	Shut-In (1)
90	1306.31	123.62	End Shut-In (1)
91	150.42	123.60	Open To Flow (2)
150	247.17	126.67	Shut-In (2)
280	1327.58	126.46	End Shut-In (2)
280	2224.80	126.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	slgcm w/ traces of oil spots 70%M 30%G 0.29	
58.00	slgcm w/ salt water 40%M 40%W 20%G 0.29	
348.00	salt water 90%W 10%M	2.29

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Oxy USA Inc

Lyman A-1

PO Box 2538
Liberal Ks 67905

31 27s 33w

Job Ticket: 14189

DST#: 1

ATTN: TOM

Test Start: 2002.04.17 @ 03:45:00

Tool Information

Drill Pipe:	Length: 4348.00 ft	Diameter: 3.80 inches	Volume: 60.99 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 400.00 ft	Diameter: 2.25 inches	Volume: 1.97 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume:	62.96 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4765.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Sampler Data 400psi 3600 ml water 0.05 55 140000

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4736.00	
S.I. Tool	5.00			4741.00	
Sampler	3.00			4744.00	
HMV	5.00			4749.00	
Jars	5.00			4754.00	
Safety Joint	2.00			4756.00	
Packer	5.00			4761.00	30.00 Bottom Of Top Packer
Packer	4.00			4765.00	
Stubb	1.00			4766.00	
Recorder	0.00	2341	Inside	4766.00	
Perforations	13.00			4779.00	
Recorder	0.00	5495	Inside	4779.00	
Bullnose	3.00			4782.00	17.00 Bottom Packers & Anchor

Total Tool Length: 47.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Oxy USA Inc

Lyman A-1

PO Box 2538
Liberal Ks 67905

31 27s 33w

Job Ticket: 14189

DST#: 1

ATTN: TOM

Test Start: 2002.04.17 @ 03:45:00

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:

260000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	slgcm w / traces of oil spots 70%M 30%G	0.285
58.00	slgcm w / salt water 40%M 40%W 20%G	0.285
348.00	salt water 90%W 10%M	2.294

Total Length: 464.00 ft

Total Volume: 2.864 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

