



DRILL STEM TEST REPORT

Prepared For: **OXY USA, Inc.**

PO Box 2528
Liberal KS 67905

ATTN: Marvin Harvey

17/34S/33

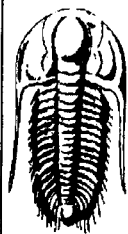
Brown C-6

Start Date: 2005.12.27 @ 10:19:56

End Date: 2005.12.28 @ 00:55:05

Job Ticket #: 22277 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 2528
Liberal KS 67905

ATTN: Marvin Harvey

Brown C-6

17/34S/33

Job Ticket: 22277

DST#: 1

Test Start: 2005.12.27 @ 10:19:56

GENERAL INFORMATION:

Formation: **Morrow Snd.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:27:36

Time Test Ended: 00:55:05

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Interval: **6027.00 ft (KB) To 6070.00 ft (KB) (TVD)**

Total Depth: 6070.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 2894.00 ft (KB)

2884.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press@RunDepth: 21.17 psig @ 6029.00 ft (KB)

Start Date: 2005.12.27

End Date:

2005.12.28

Start Time: 10:19:56

End Time:

00:55:06

Capacity: 7000.00 psig

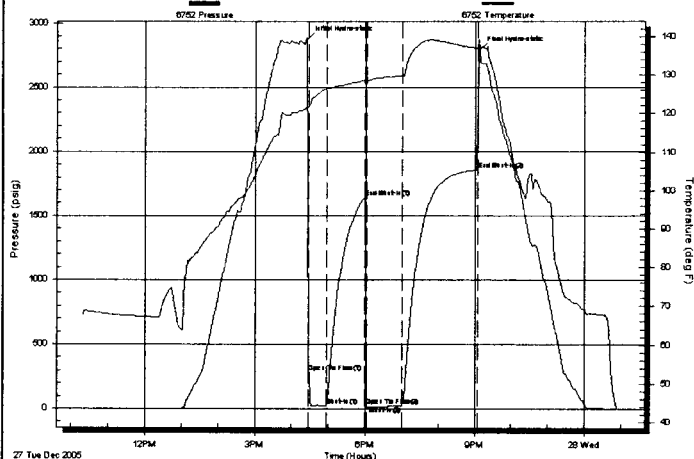
Last Calib.: 1899.12.30

Time On Btm: 2005.12.27 @ 16:24:56

Time Off Btm: 2005.12.27 @ 21:07:35

TEST COMMENT: IF: BOB 5 min., strong steady blow
IS: No blow back
FF: BOB ASAO, GTS 25 min., strong steady blow
FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

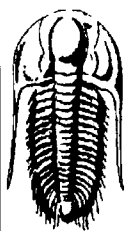
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2871.26	121.41	Initial Hydro-static
3	281.30	121.74	Open To Flow (1)
32	26.86	126.53	Shut-In(1)
94	1637.62	128.66	End Shut-In(1)
96	25.43	128.25	Open To Flow (2)
156	21.17	129.84	Shut-In(2)
280	1855.88	136.97	End Shut-In(2)
283	2785.95	139.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100%M	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.76
Last Gas Rate			
Max. Gas Rate	0.13	2.00	6.14



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DRILL STEM TEST REPORT

TOOL DIAGRAM

OXY USA, Inc.

Brown C-6

PO Box 2528
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17/34S/33

Job Ticket: 22277

DST#: 1

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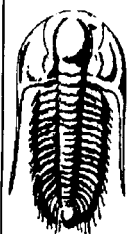
Test Start: 2005.12.27 @ 10:19:56

Tool Information

Drill Pipe:	Length: 5461.00 ft	Diameter: 3.80 inches	Volume: 76.60 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 557.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose: 104000.0 lb
			Total Volume: 79.34 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 102000.0 lb
Depth to Top Packer:	6027.00 ft			Final 102000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	74.00 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			5997.00	
Shut In Tool	5.00			6002.00	
Sampler	3.00			6005.00	
Hydraulic tool	5.00			6010.00	
Jars	5.00			6015.00	
Safety Joint	3.00			6018.00	
Packer	5.00			6023.00	31.00 Bottom Of Top Packer
Packer	4.00			6027.00	
Stubb	1.00			6028.00	
Perforations	1.00			6029.00	
Recorder	0.00	6752	Inside	6029.00	
Perforations	5.00			6034.00	
Change Over Sub	1.00			6035.00	
Drill Pipe	31.00			6066.00	
Change Over Sub	1.00			6067.00	
Recorder	0.00	13630	Inside	6067.00	
Bullnose	3.00			6070.00	43.00 Bottom Packers & Anchor
Total Tool Length:		74.00			



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DRILL STEM TEST REPORT

FLUID SUMMARY

OXY USA, Inc.

Brown C-6

PO Box 2528
Liberal KS 67905

17/34S/33

Job Ticket: 22277

DST#: 1

ATTN: Marvin Harvey

Test Start: 2005.12.27 @ 10:19:56

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:

3700 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	100%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

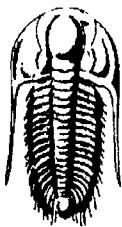
Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: RW=1.835@60F=3700ppm

Sampler=16CF Gas @ 1450psi



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DRILL STEM TEST REPORT

GAS RATES

OXY USA, Inc.

Brown C-6

PO Box 2528
Liberal KS 67905

17/34S/33

Job Ticket: 22277

DST#: 1

ATTN: Marvin Harvey

Test Start: 2005.12.27 @ 10:19:56

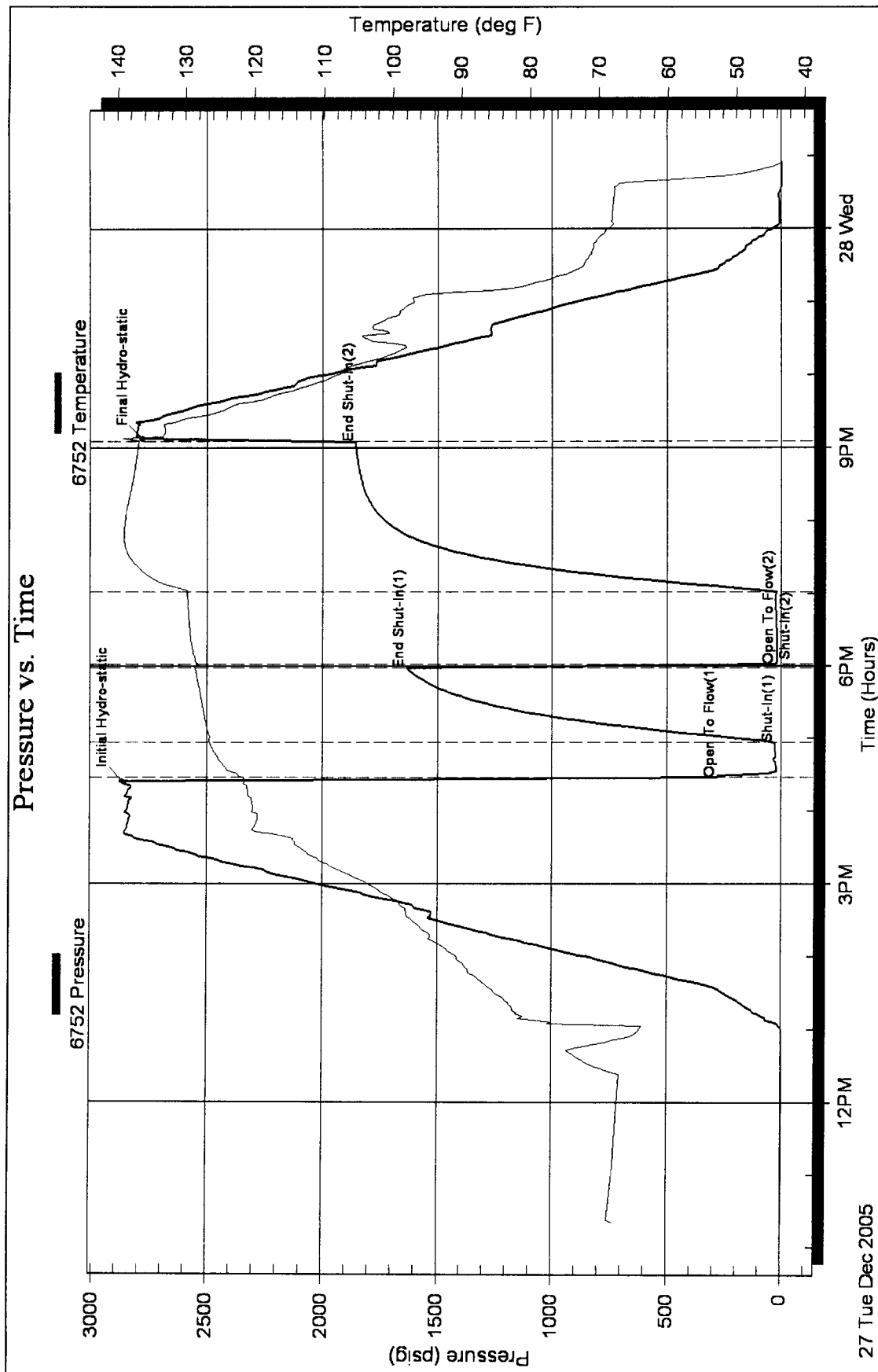
Gas Rates Information

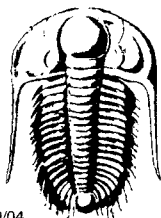
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
2	40	0.13	1.00	5.76
2	40	0.13	1.00	5.76
2	50	0.13	2.00	6.14
0	-	-999999.00	-999999.00	-999999.00

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9/04

8254
No 22277

Test Ticket

Well Name & No. <u>Brown C.6</u>	Test No. <u>1</u>	Date <u>12-27-05</u>
Company <u>Oxy USA</u>	Zone Tested <u>Morrow Sand</u>	
Address <u>P.O. Box 2528 Liberal, KS 67905</u>	Elevation <u>2894</u> KB <u>2884</u>	GL
Co. Rep / Geo. <u>Marvin Harvey</u>	Cont. <u>Marlin #20</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>17</u> Twp. <u>34S</u> Rge. <u>33</u> Co. <u>Seward</u> State <u>KS</u>		
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>6027-6070</u>	Initial Str Wt./Lbs. <u>102 K</u>	Unseated Str Wt./Lbs. <u>102 K</u>
Anchor Length <u>43'</u>	Wt. Set Lbs. <u>20K</u>	Wt. Pulled Loose/Lbs. <u>104K</u>
Top Packer Depth <u>6022</u>	Tool Weight <u>2K</u>	
Bottom Packer Depth <u>6027</u>	Hole Size <u>7 7/8" V</u>	Rubber Size <u>6 3/4" V</u>
Total Depth <u>6070</u>	Wt. Pipe Run <u>N.A.</u>	Drill Collar Run <u>557</u> ^{Drill} Request
Mud Wt. <u>9.1</u> LCM <u>2#</u> Vis. <u>55</u> WL <u>2.2</u>	Drill Pipe Size <u>4.5 xH</u>	Ft. Run <u>5461</u>
Blow Description <u>RF: BOB 5 min., Strong steady blow</u>		
<u>IST: No blow back</u>		
<u>FF: BOB 25 min., strong steady blow</u>		
<u>FST: No blow back</u>		

Recovery - Total Feet <u>15'</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>15</u> Feet of <u>mud</u>	%gas _____	%oil _____	%water <u>100</u> %mud
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____ %mud
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____ %mud
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____ %mud
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____ %mud
BHT <u>137</u> °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API			
RW <u>1.835</u> @ <u>60</u> °F Chlorides <u>3700</u> ppm Recovery _____ Chlorides <u>1100</u> ppm System			

(A) Initial Hydrostatic Mud	AK-1 <u>2871</u> PSI	Alpine	Recorder No. <u>6752 (1020)</u>	Test <u>✓ conv.</u> <u>1300</u>
(B) First Initial Flow Pressure	<u>281</u> PSI		(depth) <u>6029</u>	Jars <u>✓</u> <u>200</u>
(C) First Final Flow Pressure	<u>27</u> PSI		Recorder No. <u>13630</u>	Safety Jt. <u>✓</u> <u>50</u>
(D) Initial Shut-In Pressure	<u>1638</u> PSI		(depth) <u>6067</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>25</u> PSI		Recorder No. _____	Sampler <u>✓</u> <u>200</u>
(F) Second Final Flow Pressure	<u>21</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1856</u> PSI	Initial Opening	<u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2786</u> PSI	Initial Shut-In	<u>60</u>	Shale Packer <u>✓ x20</u> <u>300</u>
		Final Flow	<u>60</u>	Ruined Packer _____
		Final Shut-In	<u>120</u>	Mileage <u>✓ x60</u> <u>60</u>
		T-On Location	<u>0900</u>	Sub Total: <u>2110</u> <u>2110</u>
		T-Started	<u>1230</u>	Std. By <u>x4.0</u> <u>200</u>
		T-Open	<u>1630</u>	Other _____
		T-Pulled	<u>2100</u>	Total: <u>2310</u> <u>\$2310</u>
		T-Out	<u>0030</u>	

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Approved By Marvin Harvey

Our Representative [Signature]



GAS VOLUME REPORT

1
DST NO.

FBI:

Remarks: Flammable



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 22277 Date 12-29-05
Company Name Oxy USA
Lease Brown C-6 Test No. 1
County Seward, KS Sec. 17 Twp. 34S Rng. 33

SAMPLER RECOVERY

Gas 16.0 CF ML Chlorides 1100 ppm.
Oil _____ ML Resistivity _____ ohms @ _____ F
Mud _____ ML Viscosity 55
Water _____ ML Mud Weight 9.1
Other _____ ML Filtrate 7.2
Pressure 1450 psi ML Other 2" LCM
Total _____ ML

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @60F

PIPE RECOVERY

TOP
Resistivity 1.835 ohms @ 60 F
Chlorides 3700 ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

