15-077-21491

2-31s-8w



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **McCoy Petl.Corp.**

8080 E.Central Ste.300
Wichita Ks.67206

ATTN: Chris Peters

2-31s-8w Kingman Ks

Yowell A#2-2

Start Date: 2004.08.10 @ 19:05:32
End Date: 2004.08.11 @ 03:17:47
Job Ticket #: 19752 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

McCoy Petl.Corp.

8080 E Central Ste.300
Wichita Ks.67206

ATTN: Chris Peters

Yowell A#2-2

2-31s-8w Kingman Ks

Job Ticket: 19752 **DST#: 1**

Test Start: 2004.08.10 @ 19:05:32

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:07:17
Time Test Ended: 03:17:47

Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 23

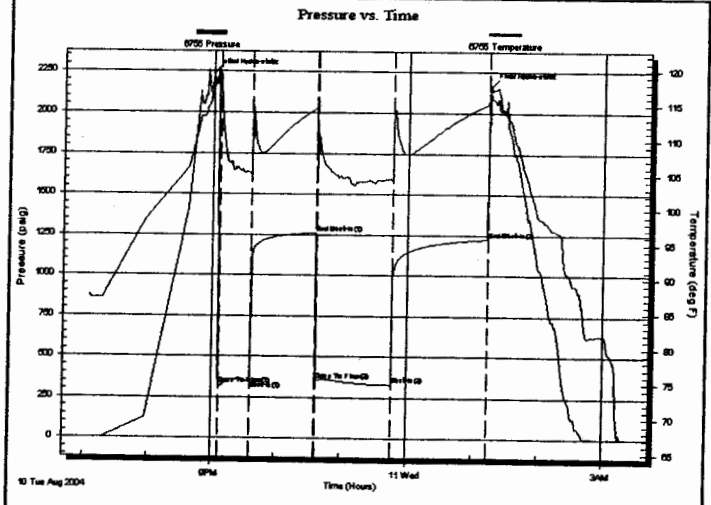
Interval: 4405.00 ft (KB) To 4420.00 ft (KB) (TVD)
Total Depth: 4420.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1668.00 ft (KB)
1659.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6755 **Inside**
Press@RunDepth: 329.80 psig @ 4406.00 ft (KB)
Start Date: 2004.08.10 End Date: 2004.08.11
Start Time: 19:05:37 End Time: 03:17:46

Capacity: 7000.00 psig
Last Calib.: 2004.08.11
Time On Btm: 2004.08.10 @ 21:00:17
Time Off Btm: 2004.08.11 @ 01:15:02

TEST COMMENT: IF:Strong blow . GTS in 2 mins. (see gas volume report)
ISI:No blow .
FF:Strong blow . (see gas volume report)
FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2238.87	117.00	Initial Hydro-static
7	328.19	118.51	Open To Flow (1)
37	350.14	105.11	Shut-In(1)
97	1262.73	114.63	End Shut-In(1)
97	357.73	104.98	Open To Flow (2)
166	329.80	104.14	Shut-In(2)
254	1223.97	115.25	End Shut-In(2)
255	2164.23	115.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MW with a few oil specs 9%m 91%w	0.44
0.00	Rw .08 ohms @ 75 deg.	0.00
45.00	WM 28%w 72%m	0.22

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petl.Corp.

8080 E.Central Ste.300
Wichita Ks.67206

ATTN: Chris Peters

Yowell A#2-2

2-31s-8w Kingman Ks

Job Ticket: 19752 **DST#: 1**

Test Start: 2004.08.10 @ 19:05:32

Tool Information

Drill Pipe:	Length:	4157.00 ft	Diameter:	3.80 inches	Volume:	58.31 bbl	Tool Weight:		2100.00 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:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:		90000.00 lb
					Total Volume:	59.49 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		12.00 ft					String Weight:	Initial	64000.00 lb
Depth to Top Packer:		4405.00 ft						Final	65000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		15.00 ft							
Tool Length:		35.00 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			4386.00		
Shut In Tool	5.00			4391.00		
Hydraulic tool	5.00			4396.00		
Packer	4.00			4400.00	20.00	Bottom Of Top Packer
Packer	5.00			4405.00		
Stubb	1.00			4406.00		
Recorder	0.00	6755	Inside	4406.00		
Perforations	9.00			4415.00		
Recorder	0.00	13222	Outside	4415.00		
Bullnose	5.00			4420.00	15.00	Bottom Packers & Anchor
Total Tool Length:	**35.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petl.Corp.

8080 E.Central Ste.300
Wichita Ks.67206

ATTN: Chris Peters

Yowell A#2-2

2-31s-8w Kingman Ks

Job Ticket: 19752 **DST#: 1**

Test Start: 2004.08.10 @ 19:05:32

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:	92000 ppm
Viscosity:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.99 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

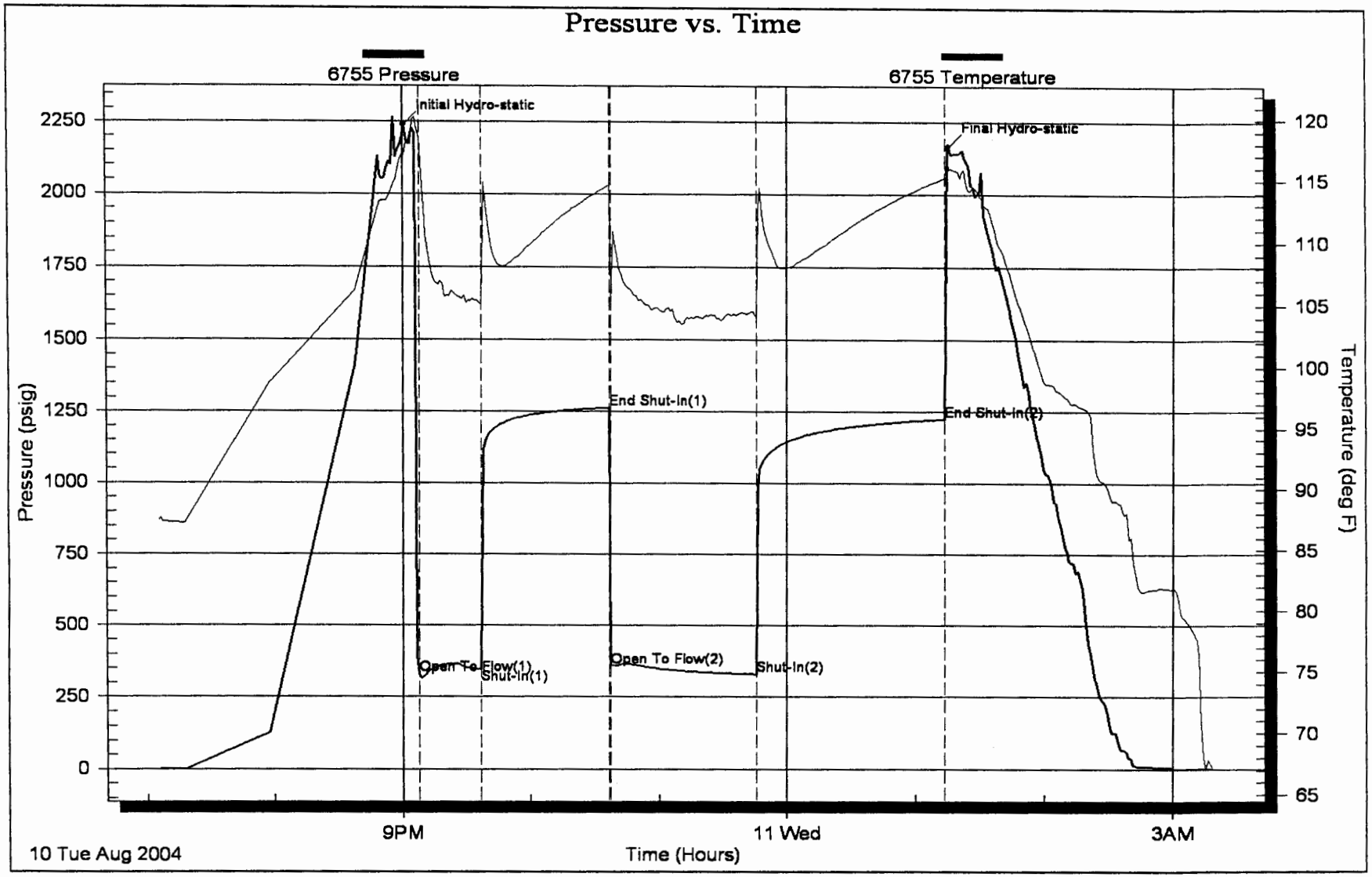
Length ft	Description	Volume bbl
90.00	MW with a few oil specs 9%m 91%w	0.443
0.00	Rw .08 ohms @ 75 deg.	0.000
45.00	WM 28%w 72%m	0.221

Total Length: 135.00 ft Total Volume: 0.664 bbl

Num Fluid Samples: 0 Num Gas Bombs: 1 Serial #: GP-1

Laboratory Name: Caraway Laboratory Location: Liberal, KS

Recovery Comments:


Pressure vs. Time
6755 Pressure
6755 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
75
70
65
9PM
11 Wed
3AM
10 Tue Aug 2004
Time (Hours)

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV 6679

№ 19752

05/03

Test Ticket

Well Name & No. Yowell A #2-2 Test No. 1 Date 8-10-04

Company McCoy Petr. Corp. Zone Tested Miss.

Address 8080 E. Central, Ste. 300, Wichita Ks. 67206 Elevation 1668 KB 1659 GL

Co. Rep / Geo. Chris Peters Cont. Sterling Drlg. #4 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 2 Twp. 31S Rge. 8W Co. Kingman State Ks.

No. of Copies 5 Disbtribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4405 - 4420' Initial Str Wt./Lbs. 64,000 Unseated Str Wt/Lbs. 65,000

Anchor Length 15' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 90,000

Top Packer Depth 4400' Tool Weight 2100 II

Bottom Packer Depth 4405' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 4420' Wt. Pipe Run Non Drill Collar Run 240

Mud Wt. 9.4 LCM — Vis. 45 WL 12.0cc Drill Pipe Size 4 1/2" Ft. Run 4157

Blow Description IF: Strong blow. GTS in 2 mins. (see gas volume report) ISI: No blow.
FF: Strong blow. (see gas volume report) FSI: No blow.

Recovery - Total Feet 135 GIP yes Ft. in DC 135 Ft. in DP 0

Rec. 45	Feet of WM	%gas	%oil	28	%water	72	%mud	
Rec. 90	Feet of MW @ oil specs.	%gas	%oil	91	%water	9	%mud	
Rec.	Feet of	%gas	%oil		%water		%mud	
Rec.	Feet of	%gas	%oil		%water		%mud	
Rec.	Feet of	%gas	%oil		%water		%mud	

BHT 115 °F Gravity N/A °API D @ — °F Corrected Gravity N/A °API

RW .08 @ 75 °F Chlorides 93,000 ppm Recovery _____ Chlorides 4,000 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		2239 PSI	Recorder No.	6755	Test	✓ 1,000
(B) First Initial Flow Pressure		328 PSI	(depth)	4406'	Elec. Rec.	✓
(C) First Final Flow Pressure		350 PSI	Recorder No.	13222	Jars	
(D) Initial Shut-In Pressure		1263 PSI	(depth)	4415'	Safety Jt.	
(E) Second Initial Flow Pressure		358 PSI	Recorder No.	—	Circ Sub	
(F) Second Final Flow Pressure		330 PSI	(depth)	—	Sampler	
(G) Final Shut-In Pressure		1224 PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud		2164 PSI	Initial Shut-In	60	Ext. Packer	
			Final Flow	60	Shale Packer	
			Final Shut-In	90	Mileage 90 ✓	83.30
			T-On Location	1820	Sub Total:	1083.30
			T-Started	1905	Std. By	
			T-Open	2107	Other	
			T-Pulled	0113	Total:	1083.30
			T-Out	0317		

OFF LOCATION 0600

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____

Our Representative Chris Peters

TRILOBITE TESTING INC.
P.O. Box 362 • Hays, Kansas 67601 • (785) 625-4778

GAS VOLUME REPORT

McCoy Petr. Corp. (OPERATOR) | Yowell A # 2-2 (WELL NAME AND NO.) | 1 (DST NO.)

Initial Open

Min.	Ins. of Water PSIG	Orifice Size	MCF/D
2	—	3/4"	GTS
10	100 PSI	3/4"	1336
20	62 PSI	1"	1689
30	60 PSI	1"	1596

Final Open

Min.	Ins. of Water PSIG	Orifice Size	MCF/D
10	65 PSI	1"	1705
20	67 PSI	1"	1748
30	65 PSI	1"	1705
40	63 PSI	1"	1661
50	61 PSI	1"	1618
60	61 PSI	1"	1618

Remarks:

CHART PAGE

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

