15-033-21410

8-35s-16w

Township is 35, not 25 as printed.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper.**

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

35
8-~~25~~S-16W Commanche

McMoran #5

Start Date: 2004.10.28 @ 09:55:38
End Date: 2004.10.28 @ 21:27:08
Job Ticket #: 19233 DST #: 1

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

DRILL STEM TEST REPORT

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19233 **DST#: 1**

Test Start: 2004.10.28 @ 09:55:38

GENERAL INFORMATION:

Formation: **K.C. I-Zone**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:26:23
Time Test Ended: 21:27:08

Test Type: Conventional Bottom Hole
Tester: Steve Clark
Unit No: 19

Interval: 4922.00 ft (KB) To 4956.00 ft (KB) (TVD)
Total Depth: 4956.00 ft (KB) (TVD)
Hole Diameter: 7.83 inches Hole Condition: Poor

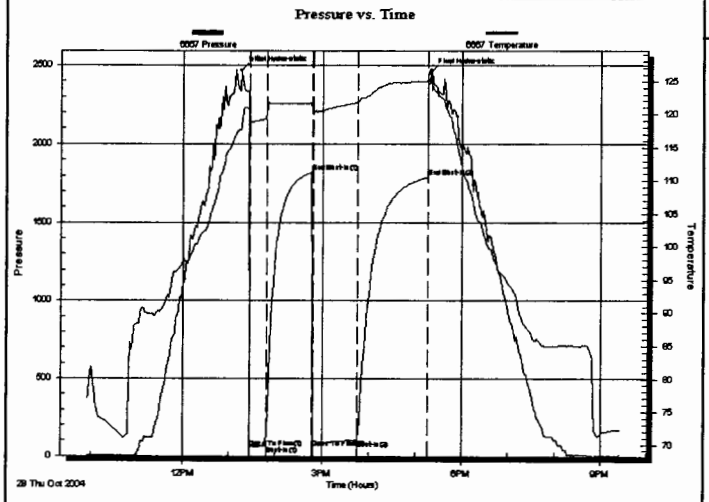
Reference Elevations: 1815.00 ft (KB)
1800.00 ft (CF)
KB to GR/CF: 15.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: 103.40 psig @ 4923.00 ft (KB)
Start Date: 2004.10.28 End Date: 2004.10.28
Start Time: 09:55:48 End Time: 21:27:07

Capacity: 7000.00 psig
Last Calib.: 2004.10.28
Time On Btm: 2004.10.28 @ 13:15:23
Time Off Btm: 2004.10.28 @ 17:19:08

TEST COMMENT: IF-Strg blw in 1min,GTS-28min
ISI-After bleed off,4"blw died 15min
FF- Strg blw off btm 1min (no gauging to small)
FSI-After bleed off,1/2" blw died 15min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2467.92	117.74	Initial Hydro-static
11	54.66	119.16	Open To Flow (1)
33	67.22	119.37	Shut-In(1)
92	1819.85	121.73	End Shut-In(1)
93	53.89	120.14	Open To Flow (2)
151	103.40	121.81	Shut-In(2)
241	1788.60	125.05	End Shut-In(2)
244	2456.75	126.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	Gassy mud	1.32

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19233 **DST#: 1**

Test Start: 2004.10.28 @ 09:55:38

Tool Information

Drill Pipe:	Length:	4668.00 ft	Diameter:	3.80 inches	Volume:	65.48 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:		95000.00 lb
					Total Volume:	66.66 bbl	Tool Chased		2.00 ft
Drill Pipe Above KB:		15.00 ft					String Weight:	Initial	72000.00 lb
Depth to Top Packer:		4922.00 ft						Final	74000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		34.00 ft							
Tool Length:		63.00 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			4894.00		
Shut In Tool	5.00			4899.00		
Hydraulic tool	5.00			4904.00		
Jars	5.00			4909.00		
Safety Joint	3.00			4912.00		
Packer	5.00			4917.00	29.00	Bottom Of Top Packer
Packer	5.00			4922.00		
Perforations	1.00			4923.00		
Recorder	0.00	6667	Inside	4923.00		
Perforations	30.00			4953.00		
Recorder	0.00	11019	Outside	4953.00		
Bullnose	3.00			4956.00	34.00	Bottom Packers & Anchor
Total Tool Length:	**63.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19233 **DST#: 1**

Test Start: 2004.10.28 @ 09:55:38

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0.975 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	8000 ppm
Viscosity:	43.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	12.13 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7600.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

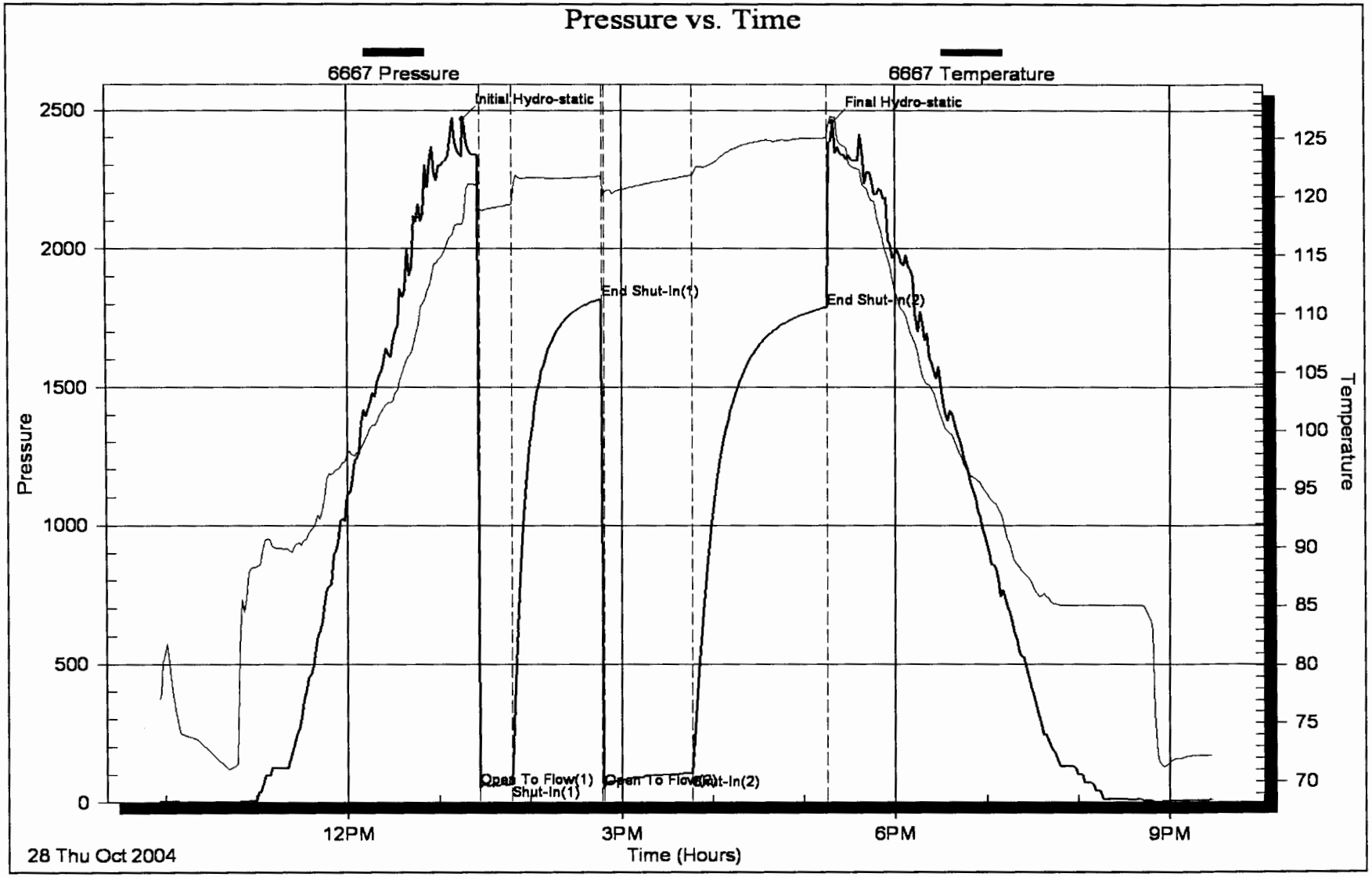
Length ft	Description	Volume bbl
250.00	Gassy mud	1.321

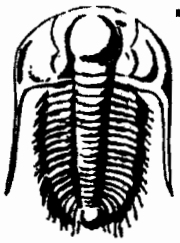
Total Length: 250.00 ft Total Volume: 1.321 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6667 Pressure
6667 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
Temperature
2500
2000
1500
1000
500
0
125
120
115
110
105
100
95
90
85
80
75
70
12PM
3PM
6PM
9PM
28 Thu Oct 2004
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared for

Woolsey Operating
125 N Market Ste 1000
Wichita KS 67202

McMoran #5
8-25S-16W
Commanche Co Kansas

Trilobite Testing, Inc
PO Box 362 - Hays, Kansas - 67601
ph: 785-625-4778 fax: 785-625-5620
e-mail: trilobite@eaglecom.net

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT
Woolsey Operating
125 N Market Ste 1000
Wichita KS 67202

		Date:	10/28/2004
Well name#:	McMoran #5	Ticket #:	19234
Location#:	8-25S-16W Commanche Co Kansas	DST#	2

General Informaion:

Formation:	Swoop	Test Type:	Conventional		BHT:	
Interval:	4974-5010	Tester:	Steve Clark		OIL API:	
Total Depth:	5010	Elevation:	1815	ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		1800	ft(CF)		
Start Data:		Tool Weight:	2500		Mud Type:	Chemical
Start Time:	10:15:00	Weight Set on Packers:	25000		Mud Weight:	9.2
Time tool opened:		Weight to Pull Loose:			Viscosity:	56
Time Off Btm:		Initial String Weight:			Water Loss:	12.4
End Date:		Final String Weight:			Resistivity;	
End Time:		Drill Pipe Length:			Salinity:	
		Drill Collar Length:				
		Wt. Pipe Length:				

Test Comment:
Misrun - Hit bridge at 1550, worked pipe, started getting tight, pulled tool.

Recovery
Length(ft):

Gas Volume Report

Recorder #:			Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)			PSIG	size	
Initial Hydro-static:						
Open to Flow (1):						
Shut-in (1):						
End Shut-in (1):						
Open to Flow (2):						
Shut-in (2):						
End Shut-in (2);						
Final Hydro-static:						



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper.**

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

8-25S-16W Commanche

McMoran #5

Start Date: 2004.10.30 @ 02:22:07

End Date: 2004.10.30 @ 09:30:07

Job Ticket #: 19235 DST #: 3

Woolsey Oper. McMoran #5 8-25S-16W Commanche DST # 3 Swop 2004.10.30

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

DRILL STEM TEST REPORT

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19235 **DST#: 3**

Test Start: 2004.10.30 @ 02:22:07

GENERAL INFORMATION:

Formation: **Swop**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:00:00
Time Test Ended: 09:30:07

Test Type: Conventional Bottom Hole
Tester: Steve Clark
Unit No: 19

Interval: 4974.00 ft (KB) To 5010.00 ft (KB) (TVD)
Total Depth: 5010.00 ft (KB) (TVD)
Hole Diameter: 7.83 inches Hole Condition: Poor

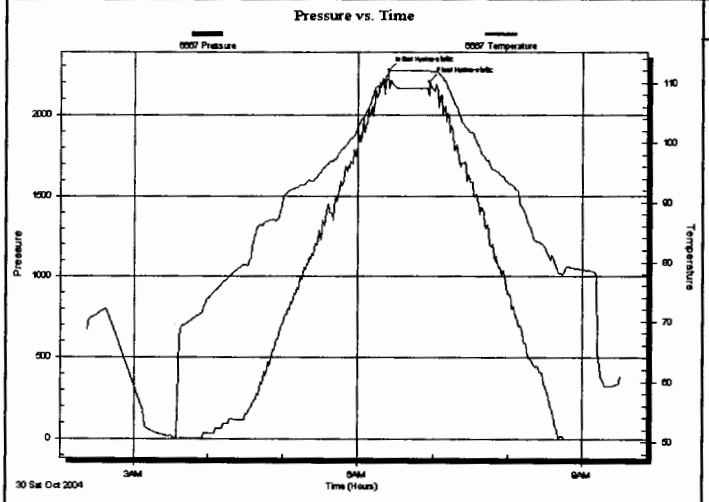
Reference Elevations: 1815.00 ft (KB)
1800.00 ft (CF)
KB to GR/CF: 15.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: psig @ 4975.00 ft (KB)
Start Date: 2004.10.30 End Date: 2004.10.30
Start Time: 02:22:17 End Time: 09:30:07

Capacity: 7000.00 psig
Last Calib.: 2004.10.30
Time On Btm: 2004.10.30 @ 06:24:22
Time Off Btm: 2004.10.30 @ 06:56:22

TEST COMMENT: Misrun #2 @ 4650- Hit bridge,w orked pipe,did'nt go through,pulled test tool.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.97	111.70	Initial Hydro-static
33	2203.18	112.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
		1.32

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19235 **DST#: 3**

Test Start: 2004.10.30 @ 02:22:07

Tool Information

Drill Pipe:	Length:	4720.00 ft	Diameter:	3.80 inches	Volume:	66.21 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	lb
					Total Volume:	67.39 bbl	Tool Chased	ft
Drill Pipe Above KB:		15.00 ft					String Weight: Initial	lb
Depth to Top Packer:		4974.00 ft					Final	lb
Depth to Bottom Packer:		ft						
Interval between Packers:		34.00 ft						
Tool Length:		63.00 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			4946.00		
Shut In Tool	5.00			4951.00		
Hydraulic tool	5.00			4956.00		
Jars	5.00			4961.00		
Safety Joint	3.00			4964.00		
Packer	5.00			4969.00	29.00	Bottom Of Top Packer
Packer	5.00			4974.00		
Perforations	1.00			4975.00		
Recorder	0.00	6667	Inside	4975.00		
Perforations	30.00			5005.00		
Recorder	0.00	11019	Outside	5005.00		
Bullnose	3.00			5008.00	34.00	Bottom Packers & Anchor
Total Tool Length:	**63.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19235 **DST#: 3**

Test Start: 2004.10.30 @ 02:22:07

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:	ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	12.36 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7600.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

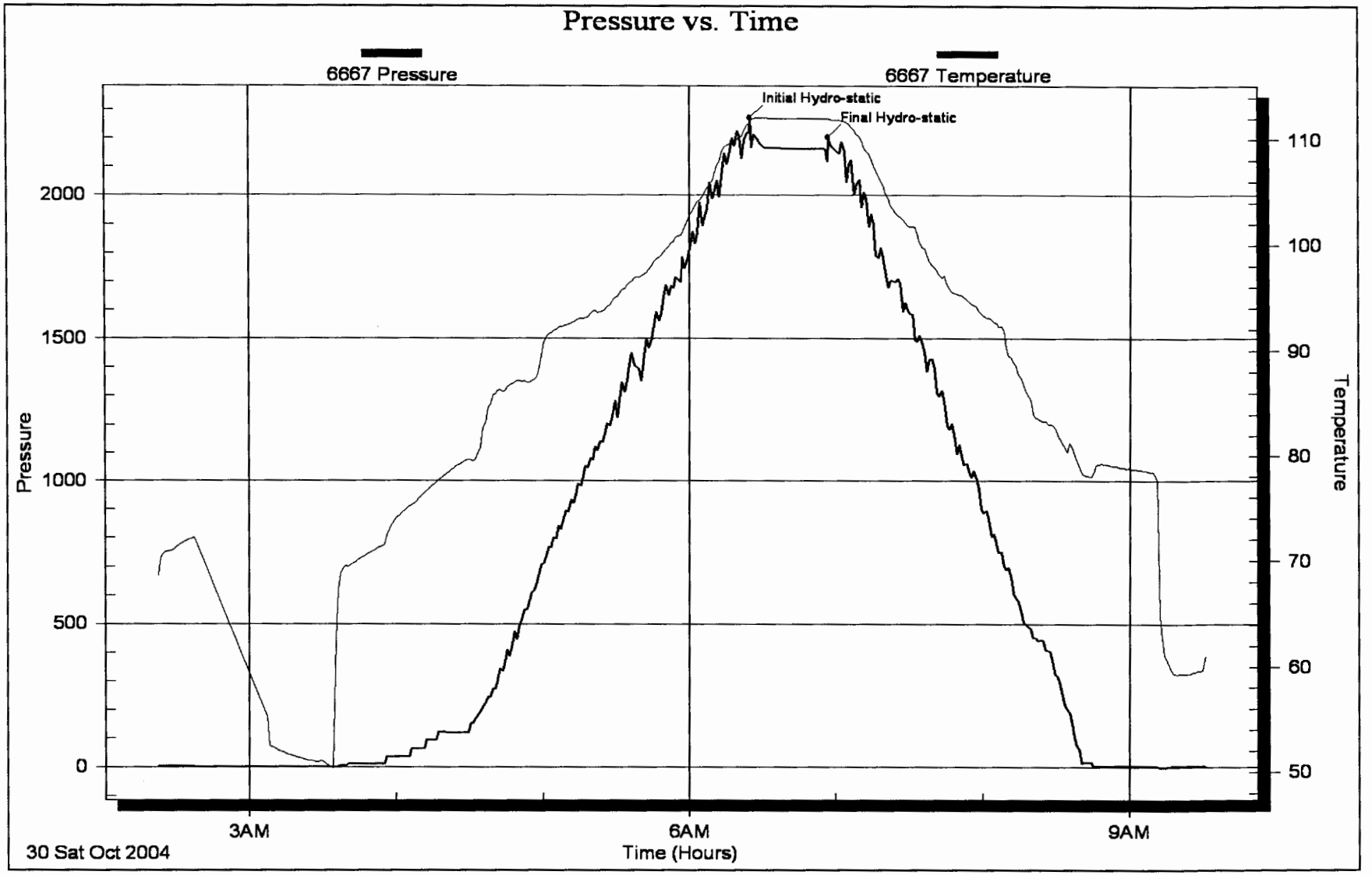
Length ft	Description	Volume bbl
		1.321

Total Length: ft Total Volume: 1.321 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
2000
1500
1000
500
0
Pressure
110
100
90
80
70
60
50
Temperature
3AM
6AM
9AM
30 Sat Oct 2004
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper.**

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

8-25S-16W Commanche

McMoran #5

Start Date: 2004.11.01 @ 05:05:17

End Date: 2004.11.01 @ 17:31:17

Job Ticket #: 19236 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19236 **DST#: 4**

Test Start: 2004.11.01 @ 05:05:17

GENERAL INFORMATION:

Formation: **Upper Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:13:02
Time Test Ended: 17:31:17

Test Type: Conventional Bottom Hole
Tester: Steve Clark
Unit No: 19

Interval: 5288.00 ft (KB) To 5350.00 ft (KB) (TVD)
Total Depth: 5350.00 ft (KB) (TVD)
Hole Diameter: 7.83 inches Hole Condition: Fair

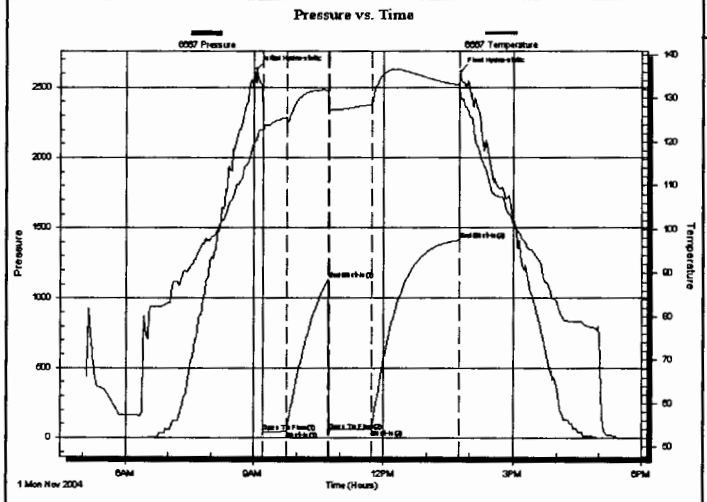
Reference Elevations: 1815.00 ft (KB)
1800.00 ft (CF)
KB to GR/CF: 15.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: 64.37 psig @ 5289.00 ft (KB)
Start Date: 2004.11.01 End Date: 2004.11.01
Start Time: 05:05:27 End Time: 17:31:16

Capacity: 7000.00 psig
Last Calib.: 2004.11.01
Time On Btm: 2004.11.01 @ 09:03:47
Time Off Btm: 2004.11.01 @ 13:46:17

TEST COMMENT: IF-Strg blw off btm,6min
ISI-After bleed off,blw died
FF-Strg blw off btm 1min
FSI- After bleed off blw died



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2628.89	120.63	Initial Hydro-static
10	40.40	122.11	Open To Flow (1)
41	46.17	125.70	Shut-In(1)
100	1135.76	131.90	End Shut-In(1)
102	45.50	127.10	Open To Flow (2)
161	64.37	128.61	Shut-In(2)
281	1412.11	133.08	End Shut-In(2)
283	2611.92	130.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	Drilling mud	0.69

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19236 **DST#: 4**

Test Start: 2004.11.01 @ 05:05:17

Tool Information

Drill Pipe:	Length:	5034.00 ft	Diameter:	3.80 inches	Volume:	70.61 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:		90000.00 lb
					Total Volume:	71.79 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		15.00 ft					String Weight:	Initial	76000.00 lb
Depth to Top Packer:		5288.00 ft						Final	78000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		62.00 ft							
Tool Length:		91.00 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			5260.00		
Shut In Tool	5.00			5265.00		
Hydraulic tool	5.00			5270.00		
Jars	5.00			5275.00		
Safety Joint	3.00			5278.00		
Packer	5.00			5283.00	29.00	Bottom Of Top Packer
Packer	5.00			5288.00		
Perforations	1.00			5289.00		
Recorder	0.00	6667	Inside	5289.00		
Perforations	25.00			5314.00		
Change Over Sub	1.00			5315.00		
Drill Pipe	31.00			5346.00		
Change Over Sub	1.00			5347.00		
Recorder	0.00	11019	Outside	5347.00		
Bullnose	3.00			5350.00	62.00	Bottom Packers & Anchor
Total Tool Length:	**91.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19236 **DST#: 4**

Test Start: 2004.11.01 @ 05:05:17

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:	ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

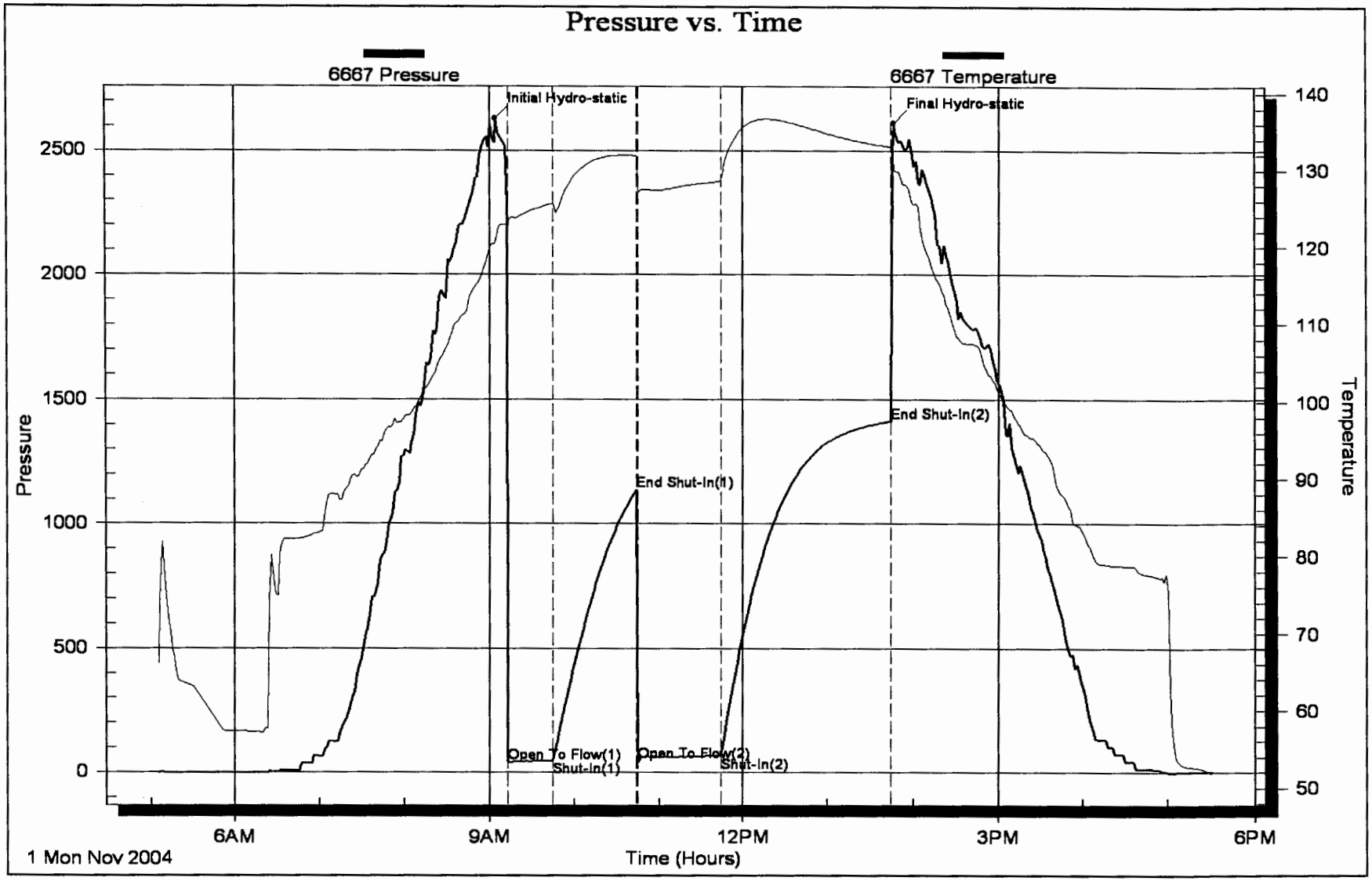
Length ft	Description	Volume bbl
140.00	Drilling mud	0.688

Total Length: 140.00 ft Total Volume: 0.688 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(2)
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2500
2000
1500
1000
500
0
140
130
120
110
100
90
80
70
60
50
6AM
9AM
12PM
3PM
6PM
1 Mon Nov 2004
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper.**

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

8-25S-16W Commanche

McMoran #5

Start Date: 2004.11.02 @ 10:02:30

End Date: 2004.11.02 @ 21:34:00

Job Ticket #: 19237 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19237 **DST#: 5**

Test Start: 2004.11.02 @ 10:02:30

GENERAL INFORMATION:

Formation: **Lower Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:51:15
Time Test Ended: 21:34:00

Test Type: Conventional Bottom Hole
Tester: Steve Clark
Unit No: 19

Interval: 5351.00 ft (KB) To 5400.00 ft (KB) (TVD)
Total Depth: 5400.00 ft (KB) (TVD)
Hole Diameter: 7.83 inches Hole Condition: Fair

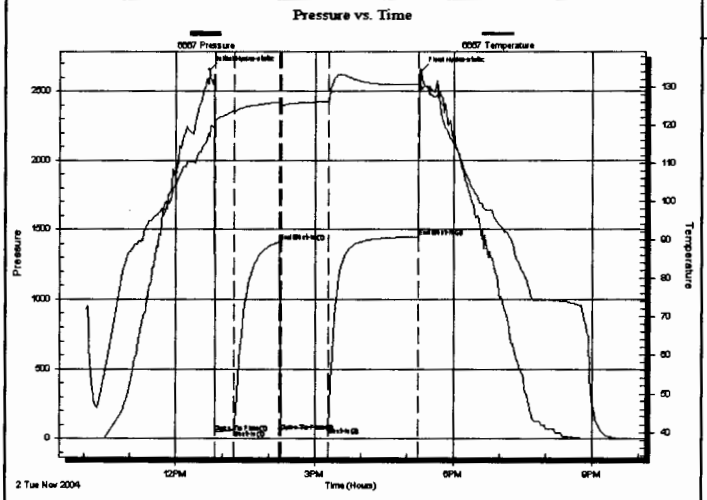
Reference Elevations: 1815.00 ft (KB)
1800.00 ft (CF)
KB to GR/CF: 15.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: 86.08 psig @ 5352.00 ft (KB)
Start Date: 2004.11.02 End Date: 2004.11.02
Start Time: 10:02:40 End Time: 21:33:59

Capacity: 7000.00 psig
Last Calib.: 2004.11.02
Time On Btm: 2004.11.02 @ 12:43:15
Time Off Btm: 2004.11.02 @ 17:17:45

TEST COMMENT: IF-Strg blw off btm 1min
ISI-After bleed off,1"blw died 2min
FF-Strg blw off btm 1min,GTS-50min,to small to gauge
FSI-After bleed off,1"blw died 3 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2653.13	117.04	Initial Hydro-static
8	41.60	121.45	Open To Flow (1)
32	63.22	123.77	Shut-In(1)
91	1412.71	126.04	End Shut-In(1)
93	51.65	124.94	Open To Flow (2)
155	86.08	126.15	Shut-In(2)
271	1449.74	130.66	End Shut-In(2)
275	2645.66	129.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Gassy Drilling mud	0.98

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19237 **DST#: 5**

Test Start: 2004.11.02 @ 10:02:30

Tool Information

Drill Pipe:	Length:	5099.00 ft	Diameter:	3.80 inches	Volume:	71.53 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	95000.00 lb
					Total Volume:	72.71 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		17.00 ft					String Weight: Initial	76000.00 lb
Depth to Top Packer:		5351.00 ft					Final	78000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		49.00 ft						
Tool Length:		78.00 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			5323.00		
Shut In Tool	5.00			5328.00		
Hydraulic tool	5.00			5333.00		
Jars	5.00			5338.00		
Safety Joint	3.00			5341.00		
Packer	5.00			5346.00	29.00	Bottom Of Top Packer
Packer	5.00			5351.00		
Perforations	1.00			5352.00		
Recorder	0.00	6667	Inside	5352.00		
Perforations	12.00			5364.00		
Change Over Sub	1.00			5365.00		
Drill Pipe	31.00			5396.00		
Change Over Sub	1.00			5397.00		
Recorder	0.00	11019	Outside	5397.00		
Bullnose	3.00			5400.00	49.00	Bottom Packers & Anchor
Total Tool Length:	**78.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.

125 N Market Suite 1000
Wichita KS 67202

ATTN: Mike Maune

McMoran #5

8-25S-16W Commanche

Job Ticket: 19237 **DST#: 5**

Test Start: 2004.11.02 @ 10:02:30

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:	ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

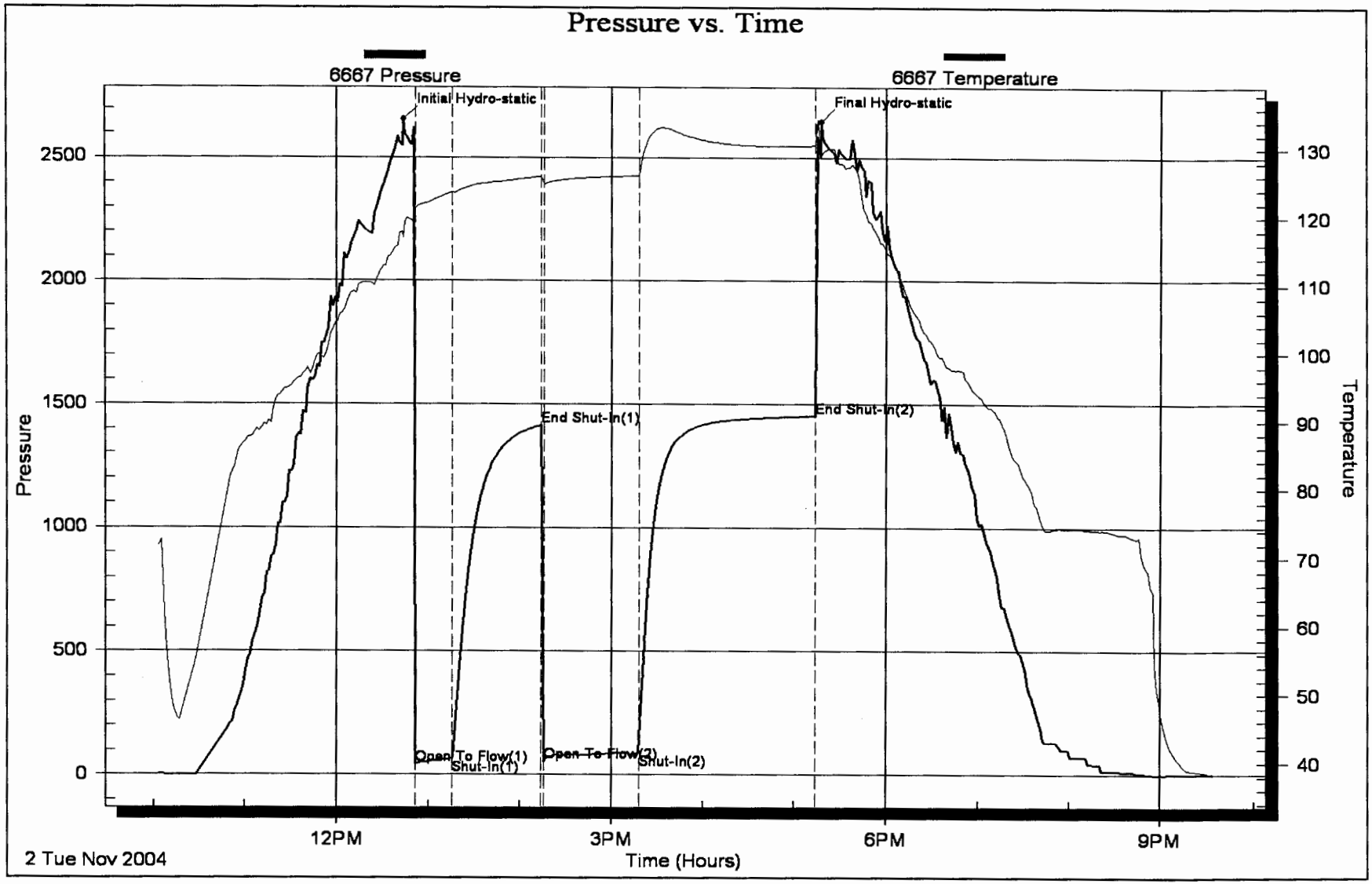
Length ft	Description	Volume bbl
200.00	Gassy Drilling mud	0.984

Total Length: 200.00 ft Total Volume: 0.984 bbl

Num Fluid Samples: 2 Num Gas Bombs: 1 Serial #: EKO-77-300-

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6667 Pressure
6667 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
Temperature
2500
2000
1500
1000
500
0
130
120
110
100
90
80
70
60
50
40
12PM
3PM
6PM
9PM
Time (Hours)
2 Tue Nov 2004

INV. 6910

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

№ 19233

05/03

Test Ticket

Well Name & No. McMoran #5 Test No. #1 Date 10-28-04

Company Woolsey Opr. Zone Tested ~~[illegible]~~ KC-I-Zone

Address 125 N. Market Suite 1000 Wichita KS. 67202 Elevation 1815 KB 1800 GL

Co. Rep / Geo. Mike Maune Cont. Duke #9 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 8 Twp. 35S Rge. 16W Co. Comanche State KS

No. of Copies reg Disbtribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 4922 – 4956 Initial Str Wt./Lbs. 72000 Unseated Str Wt/Lbs. 74,000

Anchor Length 34 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 95,000

Top Packer Depth 4917 Tool Weight 2,500

Bottom Packer Depth 4922 Hole Size 7 7/8" — Rubber Size 6 3/4" —

Total Depth 4956 Wt. Pipe Run — Drill Collar Run 340

Mud Wt. 9.1 LCM — Vis. 43 WL 12.4 Drill Pipe Size 4½ XH Ft. Run 4668

Blow Description IF- Strg. blw, in 1min, GTS-28 min
ISI- After bleed off, 4" blw, died 15 min
FF- Strg blw ~~[illegible]~~ off btm 1 min.
FSI- After bleed off, ½" blw, died 15 min.

Recovery - Total Feet 250 GIP ____ Ft. in DC ____ Ft. in DP ____

Rec. 250	Feet of Grssy mud	%gas	%oil	%water 100	%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 126° °F Gravity ____ °API D @ ____ °F Corrected Gravity ____ °API

RW 0.9 @ 75 °F Chlorides ____ ppm Recovery 8,000 Chlorides 7,600 ppm System

	AK-1	Alpine					
(A)Initital Hydrostatic Mud	2468	____ PSI	Recorder No.	6667	Test	#1	1000
(B) First Initial Flow Pressure	55	____ PSI	(depth)	4923	Elec. Rec.	—	
(C) First Final Flow Pressure	67	____ PSI	Recorder No.	11019	Jars	—	200
(D) Initial Shut-In Pressure	1820	____ PSI	(depth)	4953	Safety Jt.	—	50
(E) Second Initial Flow Pressure	54	____ PSI	Recorder No.	____	Circ Sub	—	
(F) Second Final Flow Pressure	103	____ PSI	(depth)	____	Sampler	____	
(G) Final Shut-In Pressure	1789	____ PSI	**Initial Opening**	30	Straddle	____	
(Q) Final Hydrostatic Mud	2457	____ PSI	Initial Shut-In	60	Ext. Packer	—	
			Final Flow	60	Shale Packer	176	
			Final Shut-In	90	Mileage	88	~~88~~
			T-On Location	8:00	Sub Total:	~~1358~~ 1426	
			T-Started	10:30	Std. By	4 hrs 120	
			T-Open	13:15	Other	____	
			T-Pulled	17:15	Total:	~~1458~~ 1546	
			T-Out	21:00			

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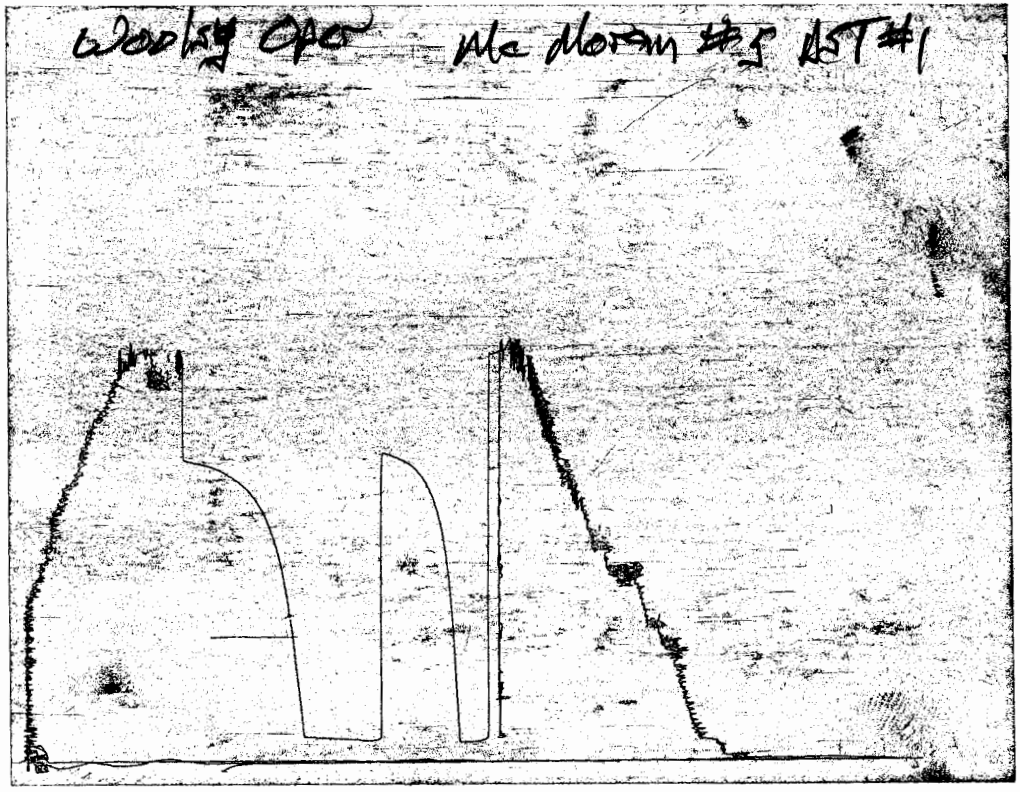
Approved By Mikeal K. Maune

Our Representative T. Taylor Thank You!

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CHART PAGE

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



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

05/03

№ 19234

Test Ticket

Well Name & No. McMorgan #5 Test No. #2 Date 10-28-04

Company Woolsey Oper. Zone Tested Swope

Address 125 N. Market Suite 1000 Wichita KS 67202 Elevation 1815 KB 1800 GL

Co. Rep / Geo. Mike Maune Cont. Duke #9 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 8 Twp. 25-S Rge. 16-W Co. Comanche State KS

No. of Copies 5Eg Disbtribution Sheet (Y, N) ~ Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 4974 - 5010 Initial Str Wt./Lbs. ____ Unseated Str Wt/Lbs. ____

Anchor Length 36 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. ____

Top Packer Depth 4974 Tool Weight 2,500

Bottom Packer Depth 4974 Hole Size 7 7/8" — Rubber Size 6 3/4" —

Total Depth 5010 Wt. Pipe Run — Drill Collar Run 240

Mud Wt. 9.2 LCM — Vis. ~~46~~56 WL 12.4 Drill Pipe Size 4½ XH Ft. Run 4720

Blow Description ~~F~~ - Misrun - Hit bridge @ ~~4200~~, worked pipe, started ~~FSI~~ - getting tight, pulled Test @ 5:10. ←4550 ~~FF~~ - ~~FSI~~ -

Recovery - Total Feet ____ GIP ____ Ft. in DC ____ Ft. in DP ____

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	
Rec.	Feet of	%gas	%oil	%water	%mud	

BHT ____ °F Gravity ____ °API D @ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery ____ Chlorides 7,600 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		PSI	Recorder No.	1667	Test	#2 ~~400~~ 1000
(B) First Initial Flow Pressure		PSI	(depth)	4975	Elec. Rec.	— —
(C) First Final Flow Pressure		PSI	Recorder No.	11019	Jars	— 200
(D) Initial Shut-In Pressure		PSI	(depth)	5007	Safety Jt.	— 50
(E) Second Initial Flow Pressure		PSI	Recorder No.		Circ Sub	—
(F) Second Final Flow Pressure		PSI	(depth)		Sampler	
(G) Final Shut-In Pressure		PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud		PSI	Initial Shut-In	60	Ext. Packer	
			Final Flow	60	Shale Packer	
			Final Shut-In	90	Mileage	88 ~~88~~ 176
			T-On Location	9:45	Sub Total:	~~1238~~ 1426
			T-Started	10:15	Std. By	
			T-Open		Other	
			T-Pulled		Total:	~~1238~~ 1426
			T-Out	14:30		

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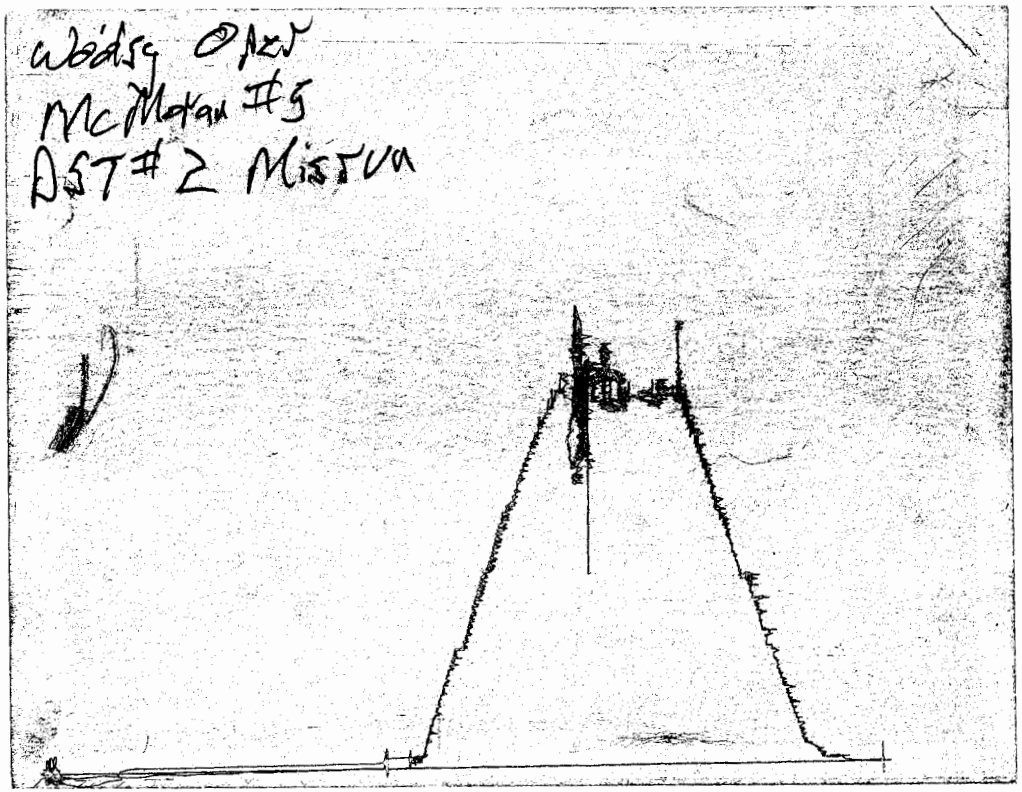
Approved By Richard L. Mann

Our Representative Steve Shank

Thank You!

CHART PAGE

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



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

05/03

№ 19235

Test Ticket

Well Name & No. Mc Morgan #5 Test No. #3 Date 10-29-04

Company Woolsey Oper. Zone Tested Swop

Address 125 N. Market Suite 1000 Wichita KS 67202 Elevation 1815 KB 1800 GL

Co. Rep / Geo. Mike Maune Cont. Duke #9 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 8 Twp. 25-S Rge. 16-W Co. Comanche State KS

No. of Copies 2+2 Disbtribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 4974 - 5010 Initial Str Wt./Lbs. ____ Unseated Str Wt/Lbs. ____

Anchor Length 36 Wt. Set Lbs. 29,000 Wt. Pulled Loose/Lbs. ____

Top Packer Depth 4969 Tool Weight 2,500

Bottom Packer Depth 4974 Hole Size 7 7/8" — Rubber Size 6 3/4" —

Total Depth 5010 Wt. Pipe Run — Drill Collar Run 240

Mud Wt. 9.2 LCM — Vis. 56 WL 12.4 Drill Pipe Size 4½ XH Ft. Run 4720

Blow Description ~~IF~~ Misrun #2 @ 4650 hit bridge, worked pipe ~~ISI~~ - didn't go through, pulled test tool @ 7:00 ~~FF~~ ~~FSI~~ -

Recovery - Total Feet ____ GIP ____ Ft. in DC ____ Ft. in DP ____

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
Rec. ____	Feet of ____	%gas	%oil	%water	%mud

BHT ____ °F Gravity ____ °API D @ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery ____ Chlorides 7,600 ppm System

	AK-1	Alpine					
(A)Initital Hydrostatic Mud	____	____ PSI	Recorder No.	6667	Test	#3	~~900~~ 1,000
(B) First Initial Flow Pressure	____	____ PSI	(depth)	4975	Elec. Rec.	—	—
(C) First Final Flow Pressure	____	____ PSI	Recorder No.	11019	Jars	—	200
(D) Initial Shut-In Pressure	____	____ PSI	(depth)	5007	Safety Jt.	—	50
(E) Second Initial Flow Pressure	____	____ PSI	Recorder No.		Circ Sub	—	
(F) Second Final Flow Pressure	____	____ PSI	(depth)		Sampler		
(G) Final Shut-In Pressure	____	____ PSI	**Initial Opening**		Straddle		
(Q) Final Hydrostatic Mud	____	____ PSI	Initial Shut-In		Ext. Packer		
			Final Flow		Shale Packer		
			Final Shut-In		Mileage	88	~~$88~~ 176
			T-On Location	2:00	Sub Total:		~~1238~~ 1426
			T-Started	3:00	Std. By		
			T-Open		Other		
			T-Pulled	7:00	Total:		~~1238~~ 1426
			T-Out	9:30			

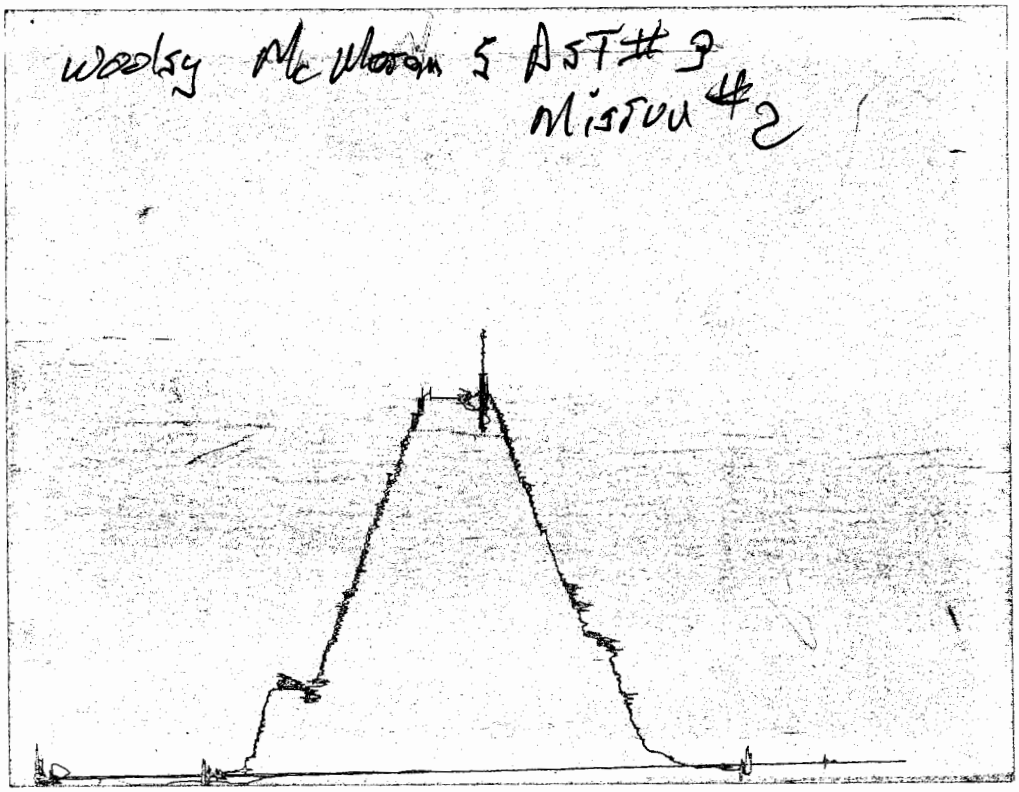
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Approved By Mikeal K. Maune

Our Representative Steve Clark Thank You!

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

05/03

No. 19236

Test Ticket

Well Name & No. Mc Moran #5 Test No. #4 Date 11-1-04

Company Woolsey O&G Zone Tested Upper Mississippian

Address 125 N. Market Suite 1000 Wichita KS 67202 Elevation 1815 KB 1800 GL

Co. Rep / Geo. Mike Maune Cont. Duke #9 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 8 Twp. 25-S Rge. 16-W Co. Comanche State KS

No. of Copies 2g Disbtribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 5284 - 5350 Initial Str Wt./Lbs. 76,000 Unseated Str Wt/Lbs. 78000

Anchor Length 62' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 90,000

Top Packer Depth 5283 Tool Weight 2,500

Bottom Packer Depth 5288 Hole Size 7 7/8" — Rubber Size 6 3/4" —

Total Depth 5350 Wt. Pipe Run — Drill Collar Run 240

Mud Wt. 9.1 LCM — Vis. 55 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 5074

Blow Description IF- Strg. blw, off btm, 6 min
ISI - After bleed off, blw died
FF - Strg blw off btm, 1 min.
FSI - After bleed off, blw died

Recovery - Total Feet 140 GIP — Ft. in DC ____ Ft. in DP ____

Rec. 140	Feet of Drilling Mud	0 %gas	%oil	%water 100	%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 130 °F Gravity ____ °API D @ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery ____ Chlorides 9,000 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	2629	____ PSI	Recorder No.	6667	Test	#4 1100
(B) First Initial Flow Pressure	40	____ PSI	(depth)	5289	Elec. Rec.	— —
(C) First Final Flow Pressure	46	____ PSI	Recorder No.	11019	Jars	— 200
(D) Initial Shut-In Pressure	1136	____ PSI	(depth)	5347	Safety Jt.	— 50
(E) Second Initial Flow Pressure	45	____ PSI	Recorder No.		Circ Sub	— —
(F) Second Final Flow Pressure	64	____ PSI	(depth)		Sampler	____
(G) Final Shut-In Pressure	1412	____ PSI	**Initial Opening**	30	Straddle	____
(Q) Final Hydrostatic Mud	2612	____ PSI	Initial Shut-In	60	Ext. Packer	____
			Final Flow	60	Shale Packer	____
			Final Shut-In	120	Mileage	88 ~~88~~ 176
			T-On Location	9:30	Sub Total:	~~1438~~ 1526
			T-Started	10:00	Std. By 3¾	113
			T-Open	9:15	Other	____
			T-Pulled	13:45	Total:	~~1551~~ 1639
			T-Out	17:15 13:45		

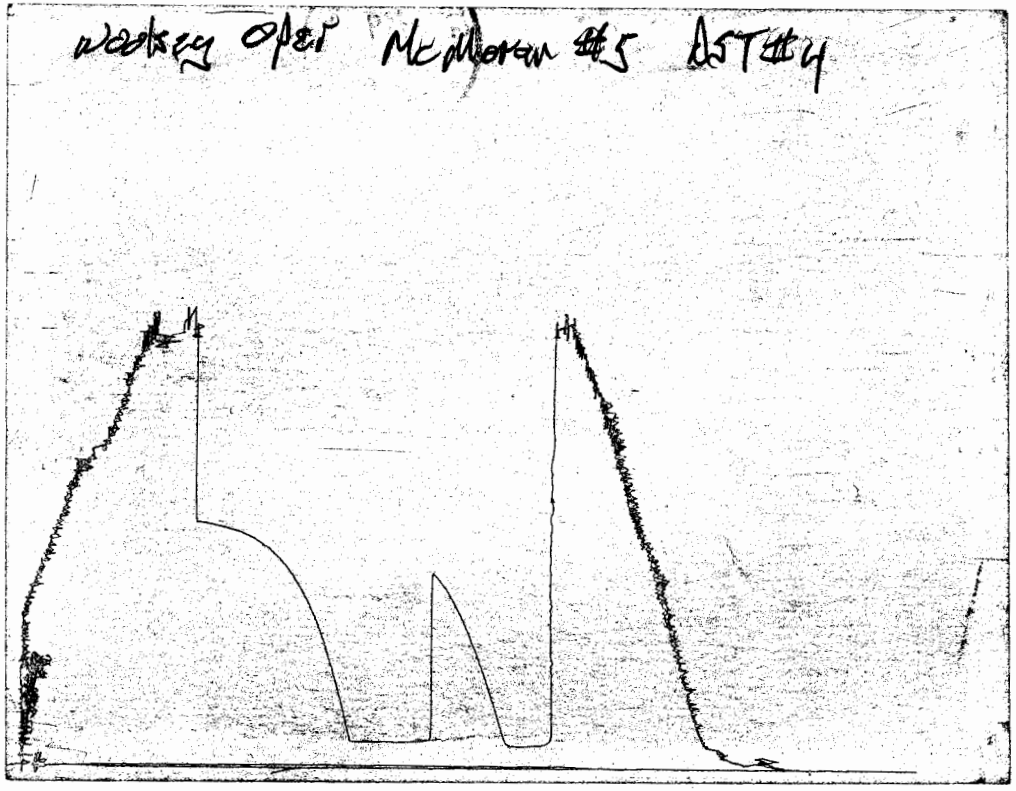
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Approved By Michael K. Maune

Our Representative Steve Clark Thank You!

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

05/03

№ 19237

Test Ticket

Well Name & No. Mc Morgan #5 Test No. #5 Date 11-2-04

Company Woolsey Oper Zone Tested Lower Mississippi

Address 125 N. Market Suite 1000 Wichita KS 67202 Elevation 1845 KB 1860 GL

Co. Rep / Geo. Mike Maune Cont. Duke #9 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 8 Twp. 25-S Rge. 16-W Co. Comanche State KS

No. of Copies Reg Disbtribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 5351 – 5400 Initial Str Wt./Lbs. 76,000 Unseated Str Wt/Lbs. 78,000

Anchor Length 49 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 95,000

Top Packer Depth 5346 Tool Weight 2,500

Bottom Packer Depth 5351 Hole Size 7 7/8" — Rubber Size 6 3/4" —

Total Depth 5400 Wt. Pipe Run — Drill Collar Run 240

Mud Wt. 9.1 LCM — Vis. 55 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 5099

Blow Description IF – Strg. blw. off btm. 1 min

ISI – After bleed off 1" blw died 2 min

FF – Strg blw off btm, 1 min GTS – 50 min, to small to gauge

FSI – After bleed off, 1" blw died 3 min

Recovery - Total Feet 200 GIP ~~5099~~ Ft. in DC ____ Ft. in DP ____

Rec. 200	Feet of Gassy Drilling Mud	%gas	%oil	%water 100	%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 130.66 °F Gravity ____ °API D @ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery ____ Chlorides 9,000 ppm System

	AK-1	Alpine					
(A) Initital Hydrostatic Mud	2653		PSI	Recorder No.	6067	Test	#5 1100
(B) First Initial Flow Pressure	42		PSI	(depth)	5352	Elec. Rec.	— —
(C) First Final Flow Pressure	63		PSI	Recorder No.	11019	Jars	— 200
(D) Initial Shut-In Pressure	1413		PSI	(depth)	5397	Safety Jt.	— 50
(E) Second Initial Flow Pressure	52		PSI	Recorder No.		Circ Sub	— —
(F) Second Final Flow Pressure	86		PSI	(depth)		Sampler	
(G) Final Shut-In Pressure	1450		PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud	2646		PSI	Initial Shut-In	60	Ext. Packer	
				Final Flow	60	Shale Packer	
				Final Shut-In	120	Mileage	88 88 176
				T-On Location	9:30	Sub Total:	1526
				T-Started	10:00	Std. By	1314 53
				T-Open	12:45	Other	
				T-Pulled	17:15	Total:	1579
				T-Out	21:15 11:45		

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Approved By Michael L. Maune

Our Representative Steve Clark Thank You!

CHART PAGE

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