

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper.Co. LLC**

125 N.Market Ste.1000
Wichita Ks. 67202

ATTN: Wes Hansen

33-29s-9w Kingman Ks

Adelhardt #1

Start Date: 2005.01.02 @ 22:27:04
End Date: 2005.01.03 @ 06:46:49
Job Ticket #: 19913 DST #: 1

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Woolsey Oper.Co. LLC

125 N.Market Ste.1000
Wichita Ks. 67202

ATTN: Wes Hansen

Adelhardt #1

33-29s-9w Kingman Ks

Job Ticket: 19913 **DST#: 1**

Test Start: 2005.01.02 @ 22:27:04

GENERAL INFORMATION:

Formation: **Indian Cave**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:25:19
Time Test Ended: 06:46:49

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

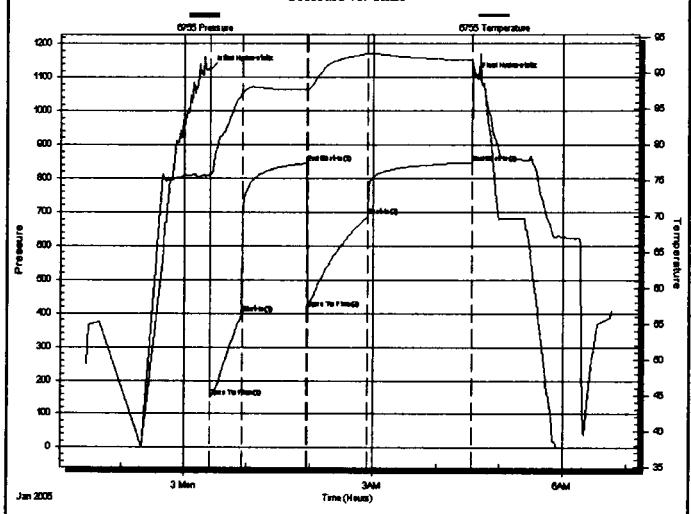
Interval: 2320.00 ft (KB) To 2400.00 ft (KB) (TVD)
Total Depth: 2400.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1603.00 ft (KB)
1592.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6755 **Inside**
Press@RunDepth: 686.62 psig @ 2321.00 ft (KB)
Start Date: 2005.01.02 End Date: 2005.01.03
Start Time: 22:27:09 End Time: 06:46:48

Capacity: 7000.00 psig
Last Calib.: 2005.01.03
Time On Btm: 2005.01.03 @ 00:24:34
Time Off Btm: 2005.01.03 @ 04:35:49

TEST COMMENT: IF:Strong blow . B.O.B. in 80 secs.
ISI: No blow .
FF:Strong blow . B.O.B. in 95 secs.
FSI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1123.25	75.87	Initial Hydro-static
1	149.72	75.77	Open To Flow (1)
31	398.75	87.17	Shut-In(1)
93	845.26	87.71	End Shut-In(1)
93	415.67	87.63	Open To Flow (2)
151	686.62	92.79	Shut-In(2)
249	847.08	91.87	End Shut-In(2)
252	1101.66	90.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1030.00	MW Rw .11 ohms @ 50 deg. 9%m 91%w	14.45
310.00	MW 30%m 70%w	4.35

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper.Co. LLC

125 N.Market Ste.1000
Wichita Ks. 67202

ATTN: Wes Hansen

Adelhardt #1

33-29s-9w Kingman Ks

Job Ticket: 19913 **DST#: 1**

Test Start: 2005.01.02 @ 22:27:04

Tool Information

Drill Pipe:	Length:	3855.00 ft	Diameter:	3.80 inches	Volume:	54.08 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	55000.00 lb
					Total Volume:	54.08 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		1562.00 ft					String Weight: Initial	34000.00 lb
Depth to Top Packer:		2320.00 ft					Final	41000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		80.00 ft						
Tool Length:		107.00 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			2294.00		
Shut In Tool	5.00			2299.00		
Hydraulic tool	5.00			2304.00		
Jars	5.00			2309.00		
Safety Joint	2.00			2311.00		
Packer	4.00			2315.00	27.00	Bottom Of Top Packer
Packer	5.00			2320.00		
Stubb	1.00			2321.00		
Recorder	0.00	6755	Inside	2321.00		
Perforations	5.00			2326.00		
Change Over Sub	1.00			2327.00		
Blank Spacing	63.00			2390.00		
Perforations	4.00			2394.00		
Change Over Sub	1.00			2395.00		
Recorder	0.00	13222	Outside	2395.00		
Bullnose	5.00			2400.00	80.00	Bottom Packers & Anchor
Total Tool Length:	**107.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.Co. LLC

125 N.Market Ste.1000
Wichita Ks. 67202

ATTN: Wes Hansen

Adelhardt #1

33-29s-9w Kingman Ks

Job Ticket: 19913 **DST#: 1**

Test Start: 2005.01.02 @ 22:27:04

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	96000 ppm
Viscosity:	30.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	37.94 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	87000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

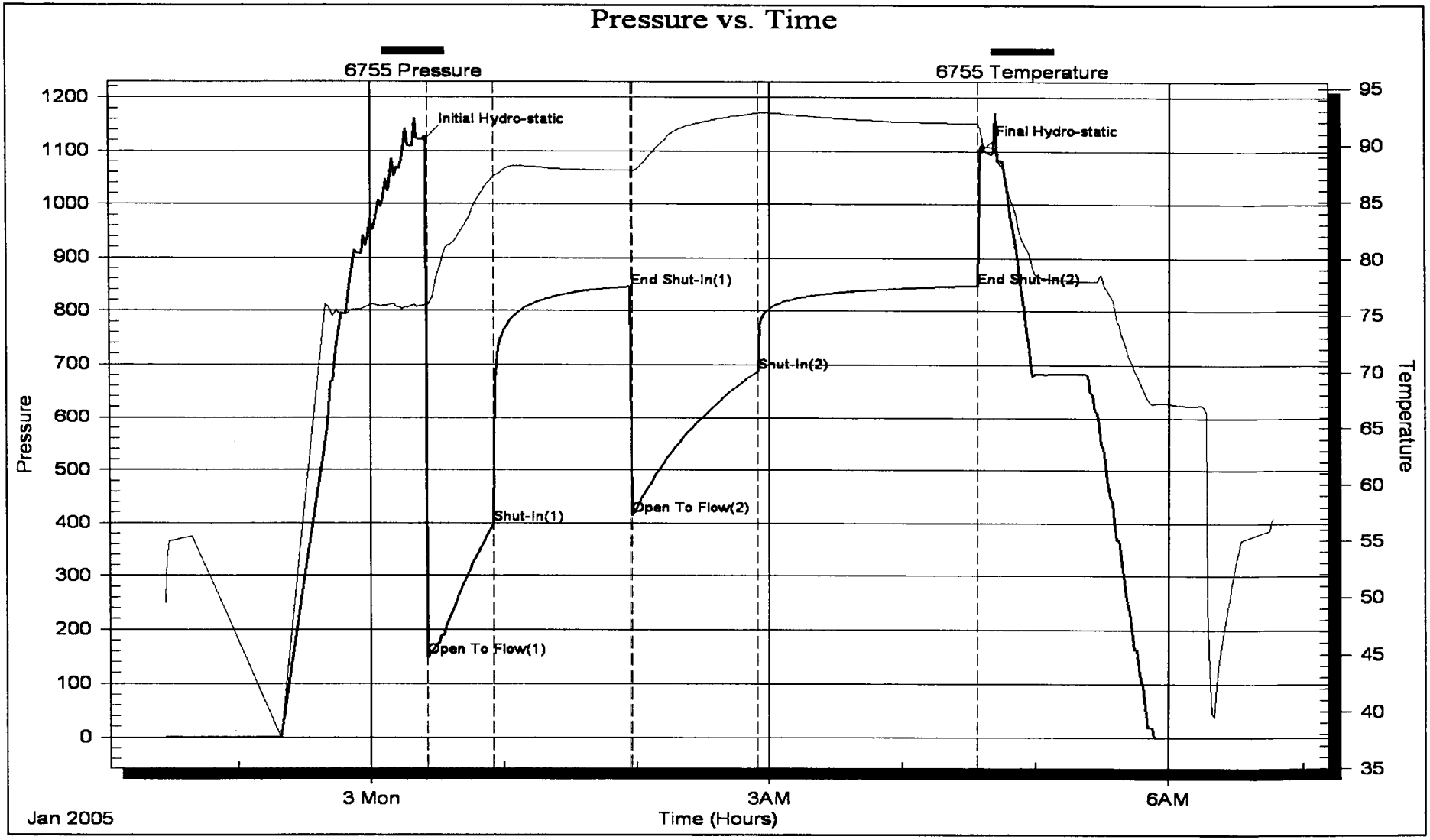
Length ft	Description	Volume bbl
1030.00	MW Rw .11 ohms @ 50 deg. 9%m 91%w	14.448
310.00	MW 30%m 70%w	4.348

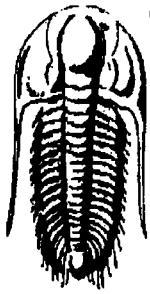
Total Length: 1340.00 ft Total Volume: 18.796 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6755 Pressure
6755 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure
Temperature
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
95
90
85
80
75
70
65
60
55
50
45
40
35
3 Mon
3AM
6AM
Jan 2005
Time (Hours)



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DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper.Co. LLC**

125 N.Market Ste.1000
Wichita Ks. 67202

ATTN: Wes Hansen

33-29s-9w Kingman Ks

Adelhardt #1

Start Date: 2005.01.06 @ 02:04:49

End Date: 2005.01.06 @ 15:58:34

Job Ticket #: 19914 DST #: 2

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.Co. LLC

125 N.Market Ste.1000
Wichita Ks. 67202

ATTN: Wes Hansen

Adelhardt #1

33-29s-9w Kingman Ks

Job Ticket: 19914 **DST#: 2**

Test Start: 2005.01.06 @ 02:04:49

GENERAL INFORMATION:

Formation: **I- Swope**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:48:19
Time Test Ended: 15:58:34

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

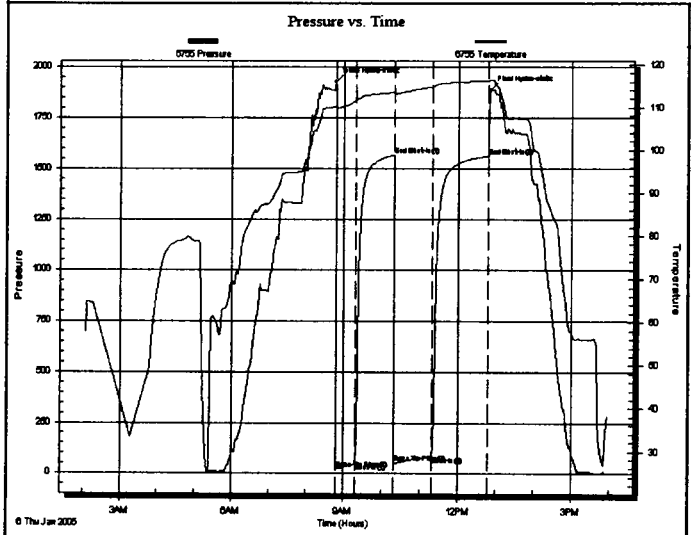
Interval: 3876.00 ft (KB) To 3920.00 ft (KB) (TVD)
Total Depth: 3920.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1603.00 ft (KB)
1592.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6755 **Inside**
Press@RunDepth: 86.92 psig @ 3877.00 ft (KB)
Start Date: 2005.01.06 End Date: 2005.01.06
Start Time: 02:04:54 End Time: 15:58:34

Capacity: 7000.00 psig
Last Calib.: 2005.01.06
Time On Btm: 2005.01.06 @ 08:46:19
Time Off Btm: 2005.01.06 @ 12:51:04

TEST COMMENT: IF: Weak to fair blow . Slow increase to 10" of diesel.
ISI: No blow .
FF: Fair blow . BOB of 10" diesel in 22 min.
FSI: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.56	110.17	Initial Hydro-static
2	21.71	109.44	Open To Flow (1)
33	50.63	111.64	Shut-In(1)
93	1567.24	113.53	End Shut-In(1)
94	50.59	113.12	Open To Flow (2)
153	86.92	114.86	Shut-In(2)
242	1561.69	116.23	End Shut-In(2)
245	1886.66	116.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w / oil specs	0.42
125.00	MW 32%m 68%w Rw .16 ohms @ 38 deg	1.75

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper.Co. LLC

125 N.Market Ste.1000
Wichita Ks. 67202

ATTN: Wes Hansen

Adelhardt #1

33-29s-9w Kingman Ks

Job Ticket: 19914 **DST#: 2**

Test Start: 2005.01.06 @ 02:04:49

Tool Information

Drill Pipe:	Length:	3855.00 ft	Diameter:	3.80 inches	Volume:	54.08 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		65000.00 lb
					Total Volume:	54.08 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		6.00 ft					String Weight:	Initial	50000.00 lb
Depth to Top Packer:		3876.00 ft						Final	50000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		44.00 ft							
Tool Length:		71.00 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			3850.00		
Shut In Tool	5.00			3855.00		
Hydraulic tool	5.00			3860.00		
Jars	5.00			3865.00		
Safety Joint	2.00			3867.00		
Packer	4.00			3871.00	27.00	Bottom Of Top Packer
Packer	5.00			3876.00		
Stubb	1.00			3877.00		
Recorder	0.00	6755	Inside	3877.00		
Perforations	5.00			3882.00		
Change Over Sub	1.00			3883.00		
Blank Spacing	31.00			3914.00		
Change Over Sub	1.00			3915.00		
Recorder	0.00	13222	Outside	3915.00		
Bullnose	5.00			3920.00	44.00	Bottom Packers & Anchor
Total Tool Length:	**71.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.Co. LLC

125 N.Market Ste.1000
Wichita Ks. 67202

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Adelhardt #1

33-29s-9w Kingman Ks

Job Ticket: 19914 **DST#: 2**

Test Start: 2005.01.06 @ 02:04:49

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:	90000 ppm
Viscosity:	43.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.38 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

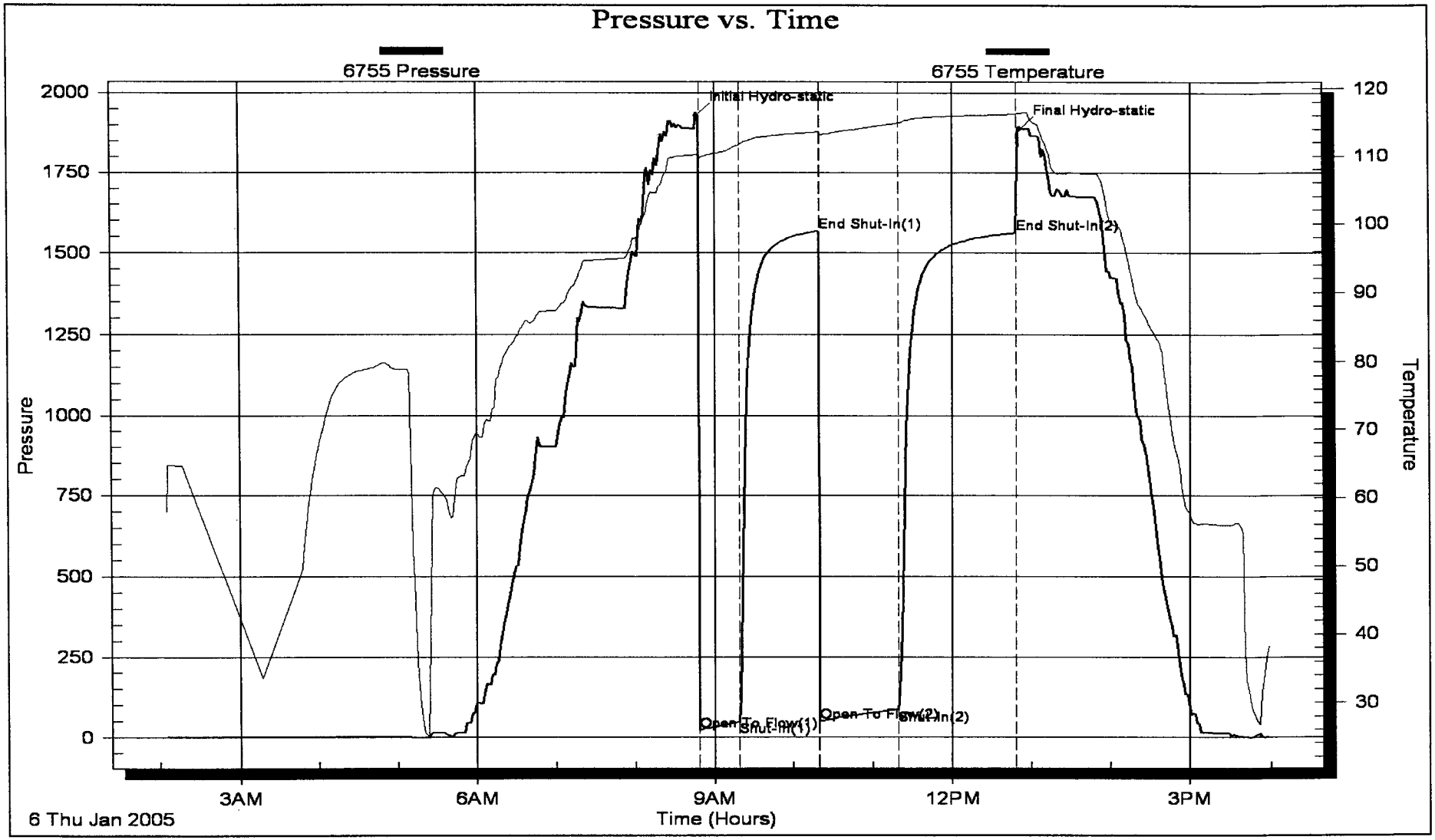
Length ft	Description	Volume bbl
30.00	Mud w / oil specs	0.421
125.00	MW 32%m 68%w Rw .16 ohms @ 38 deg.	1.753

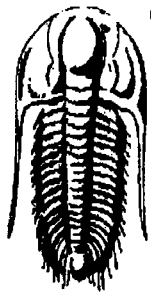
Total Length: 155.00 ft Total Volume: 2.174 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

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)
2000
1750
1500
1250
1000
750
500
250
0
Pressure
120
110
100
90
80
70
60
50
40
30
Temperature
3AM
6AM
9AM
12PM
3PM
Time (Hours)
6 Thu Jan 2005



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DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper.Co. LLC**

125 N.Market Ste.1000
Wichita Ks. 67202

ATTN: Wes Hansen

33-29s-9w Kingman Ks

Adelhardt #1

Start Date: 2005.01.07 @ 14:47:09

End Date: 2005.01.07 @ 22:55:09

Job Ticket #: 19915 DST #: 3

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Woolsey Oper.Co. LLC

125 N.Market Ste.1000
Wichita Ks. 67202

ATTN: Wes Hansen

Adelhardt #1

33-29s-9w Kingman Ks

Job Ticket: 19915 **DST#: 3**

Test Start: 2005.01.07 @ 14:47:09

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:39:39
Time Test Ended: 22:55:09

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

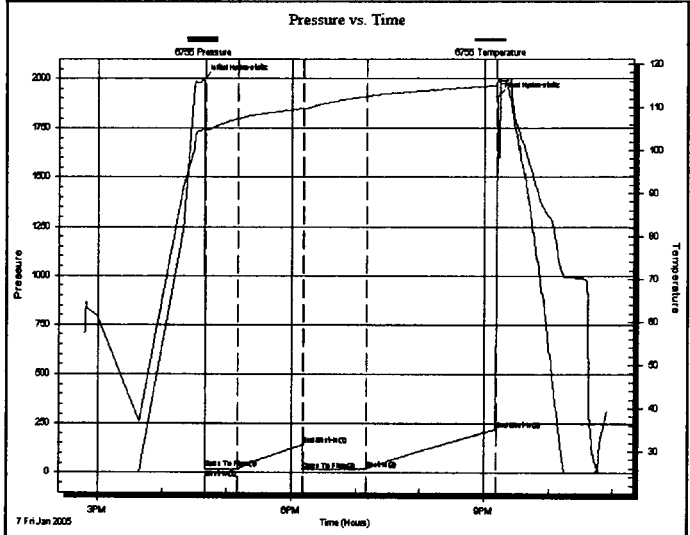
Interval: 4156.00 ft (KB) To 4195.00 ft (KB) (TVD)
Total Depth: 4195.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1603.00 ft (KB)
1592.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6755 **Inside**
Press@RunDepth: 19.39 psig @ 4157.00 ft (KB)
Start Date: 2005.01.07 End Date: 2005.01.07
Start Time: 14:47:14 End Time: 22:55:08

Capacity: 7000.00 psig
Last Calib.: 2005.01.07
Time On Btm: 2005.01.07 @ 16:37:54
Time Off Btm: 2005.01.07 @ 21:11:54

TEST COMMENT: IF: Weak to fair blow . 6" in bucket of water.
ISI: No Blow .
FF: Weak to fair blow . 8" in bucket of water.
FSI: No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1993.78	105.34	Initial Hydro-static
2	21.17	104.85	Open To Flow (1)
33	17.82	107.41	Shut-In(1)
93	143.64	109.77	End Shut-In(1)
94	14.46	109.72	Open To Flow (2)
152	19.39	112.56	Shut-In(2)
274	221.98	115.04	End Shut-In(2)
274	1907.88	116.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	SOCM 1%o 99%m	0.35
0.00	95 ft. of GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper.Co. LLC

125 N.Market Ste.1000
Wichita Ks. 67202

ATTN: Wes Hansen

Adelhardt #1

33-29s-9w Kingman Ks

Job Ticket: 19915 **DST#: 3**

Test Start: 2005.01.07 @ 14:47:09

Tool Information

Drill Pipe:	Length:	4142.00 ft	Diameter:	3.80 inches	Volume:	58.10 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	58.10 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		13.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		4156.00 ft					Final	50000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		39.00 ft						
Tool Length:		66.00 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			4130.00		
Shut In Tool	5.00			4135.00		
Hydraulic tool	5.00			4140.00		
Jars	5.00			4145.00		
Safety Joint	2.00			4147.00		
Packer	4.00			4151.00	27.00	Bottom Of Top Packer
Packer	5.00			4156.00		
Stubb	1.00			4157.00		
Recorder	0.00	6755	Inside	4157.00		
Perforations	1.00			4158.00		
Change Over Sub	1.00			4159.00		
Blank Spacing	30.00			4189.00		
Change Over Sub	1.00			4190.00		
Recorder	0.00	13222	Outside	4190.00		
Bullnose	5.00			4195.00	39.00	Bottom Packers & Anchor
Total Tool Length:	**66.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.Co. LLC

125 N.Market Ste.1000
Wichita Ks. 67202

ATTN: Wes Hansen

Adelhardt #1

33-29s-9w Kingman Ks

Job Ticket: 19915 **DST#: 3**

Test Start: 2005.01.07 @ 14:47:09

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:	5500 ppm
Viscosity:	43.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5500.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

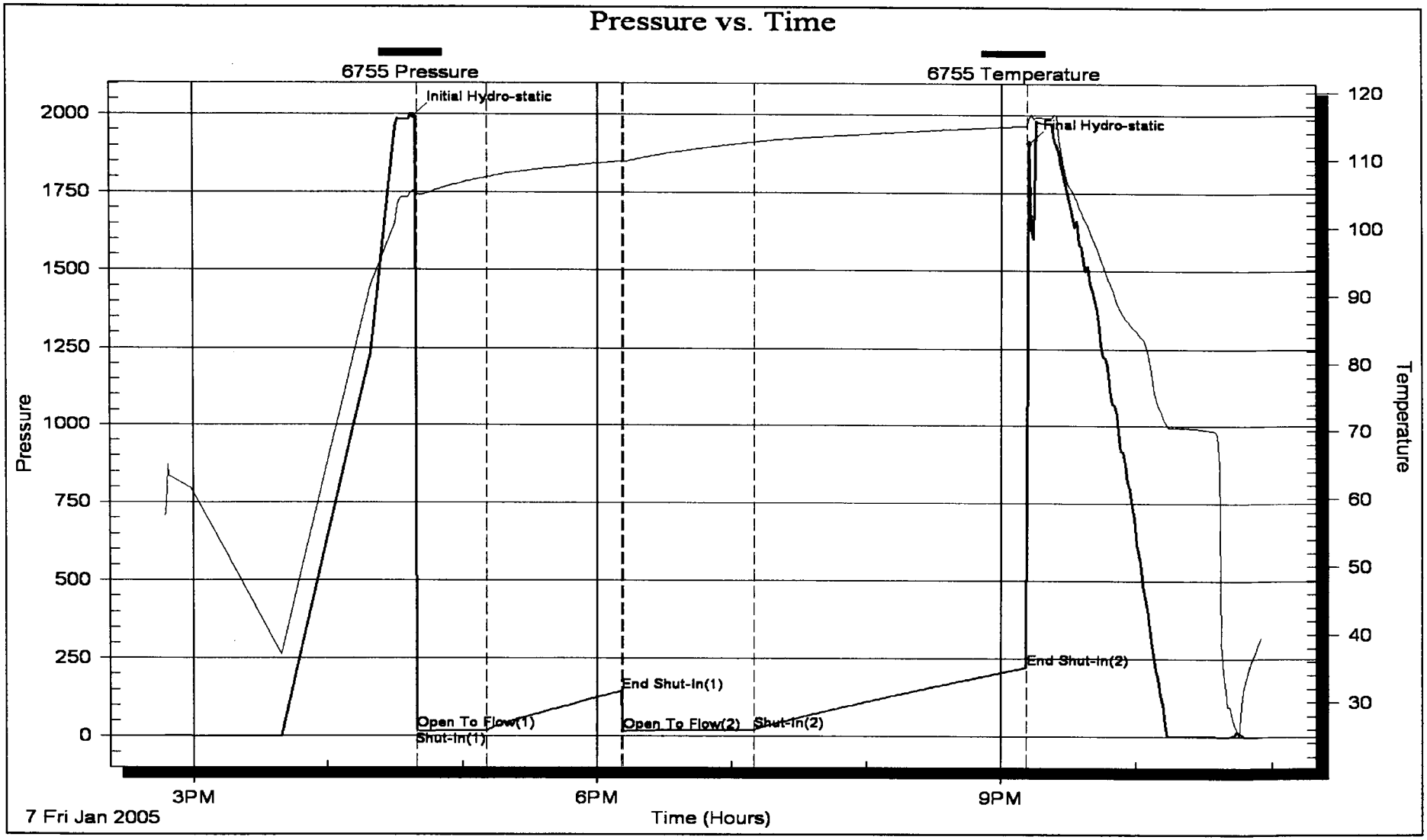
Length ft	Description	Volume bbl
25.00	SOCM 1%o 99%m	0.351
0.00	95 ft. of GIP	0.000

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

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)
2000
1750
1500
1250
1000
750
500
250
0
Pressure
120
110
100
90
80
70
60
50
40
30
Temperature
3PM
6PM
9PM
7 Fri Jan 2005
Time (Hours)

TRILOBITE TESTING INC.
P.O. Box 362 • Hays, Kansas 67601

INV 7091

No. 19913

05/03

Test Ticket

Well Name & No. Adelhardt #1 Test No. 1 Date 1-2-05

Company Woolsey Oper. Co. LLC Zone Tested Indian Cave

Address 125 N. Market, Ste 1,000, Wichita, KS 67202 Elevation 1603 KB 1592 GL

Co. Rep / Geo. Wes Hansen Cont. Duke Drlg. #5 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 33 Twp. 29S Rge. 9W Co. Kingman State Ks.

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

Interval Tested 2320 - 2400 Initial Str Wt./Lbs. 34,000 Unseated Str Wt/Lbs. 41,000

Anchor Length 80' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 55,000

Top Packer Depth 2315' Tool Weight 200 H

Bottom Packer Depth 2320' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 2400' Wt. Pipe Run None Drill Collar Run None

Mud Wt. 9.7 LCM — Vis. 30 WL 38.0 Drill Pipe Size 4½" Ft. Run 2301'

Blow Description IF: Strong blow. B.O.B. in 80 secs. ISI: No blow.

FF: Strong blow. B.O.B. in 95 secs. FSI: No blow.

Recovery - Total Feet 1340 GIP 0 Ft. in DC 0 Ft. in DP 1340

Rec. 310	Feet of MCW	%gas	%oil	70	%water	30	%mud
Rec. 1030	Feet of MCW	%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 92 °F Gravity N/A °API D @ — °F Corrected Gravity N/A °API

RW .11 @ 50 °F Chlorides 96,000 ppm Recovery _____ Chlorides 82,000 ppm System

	AK-1	Alpine					
(A)Initial Hydrostatic Mud		1123 PSI	Recorder No.	6755	Test ✓	900
(B) First Initial Flow Pressure		150 PSI	(depth)	2321'	Elec. Rec. ✓	
(C) First Final Flow Pressure		399 PSI	Recorder No.	13222	Jars ✓	200
(D) Initial Shut-In Pressure		845 PSI	(depth)	2395'	Safety Jt. ✓	50
(E) Second Initial Flow Pressure		916 PSI	Recorder No.	—	Circ Sub ✓	35
(F) Second Final Flow Pressure		687 PSI	(depth)	—	Sampler	
(G) Final Shut-In Pressure		847 PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud		1102 PSI	Initial Shut-In	60	Ext. Packer	
			Final Flow	60	Shale Packer	
			Final Shut-In	90	Mileage ✓	80
			T-On Location	2135	Sub Total:	1265
			T-Started	2227	Std. By ✓	30
			T-Open	00 25	Other	
			T-Pulled	0432	Total:	1295.00
			T-Out	0646		

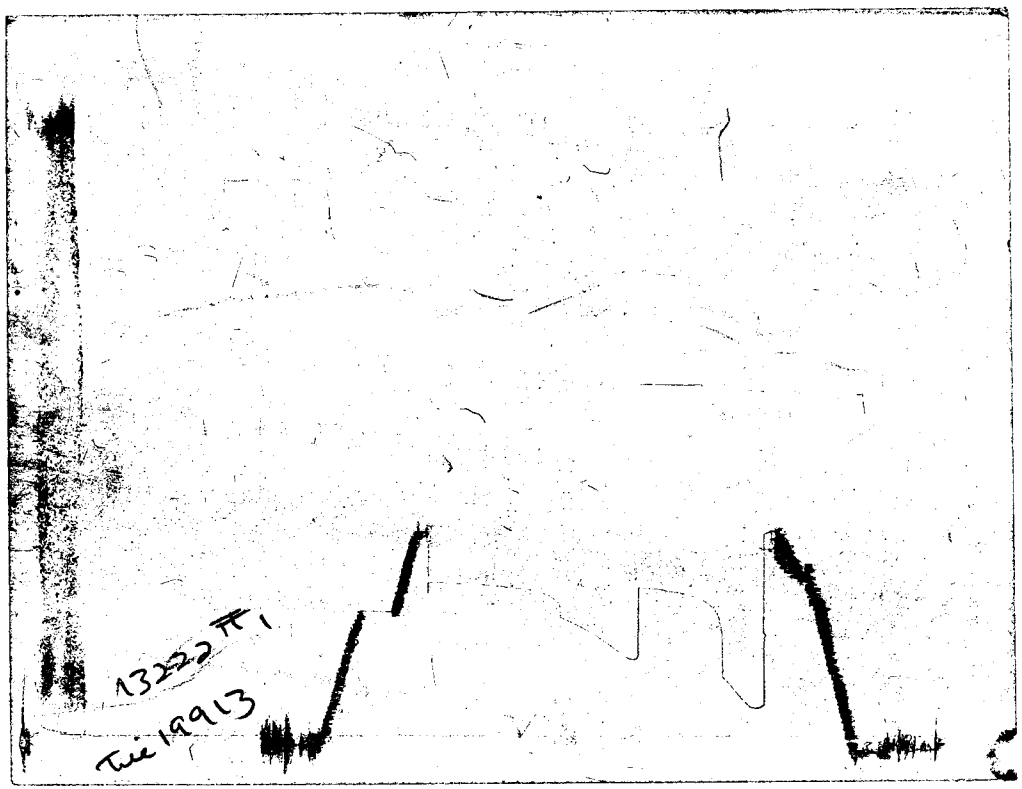
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By Wesley Hansen

Our Representative Corey Pewitt

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

№ 19914

Test Ticket

Well Name & No. Adelhardt #1 Test No. 2 Date 1-06-05

Company Woolsey Oper. Co. LLC Zone Tested I-Swope

Address 125 N. Market, Ste. 1000 Wichita, KS 67202 Elevation 1603 KB 1592 GL

Co. Rep / Geo. Wes Hansen Cont. Duke Drlg. #5 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 33 Twp. 29s Rge. 9w Co. Kingman State KS

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

Interval Tested 3876 - 3920 Initial Str Wt./Lbs. 50,000 Unseated Str Wt/Lbs. 50,000

Anchor Length 44' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 65,000

Top Packer Depth 3871 Tool Weight 2100#

Bottom Packer Depth 3876 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 3920 Wt. Pipe Run None Drill Collar Run None

Mud Wt. 9.4 LCM ~ Vis. 43 WL 10.4 Drill Pipe Size 4½" Ft. Run 38.55

Blow Description IF: Weak to Fair blow. ~~[illegible]~~ Slow increase to 10" of Diesel ISI: No blow

~~IFF~~: Fair blow. BOB at 10 in diesel 22 min.

~~[illegible]~~

FSI: No blow

Recovery - Total Feet 155 GIP 30 Ft. in DC 0 Ft. in DP 155

Rec.	30	Feet of	Mud w/oil specs	%gas	%oil		%water	%mud
Rec.	125	Feet of	MW	%gas	%oil	68	%water	32 %mud
Rec.		Feet of		%gas	%oil		%water	%mud
Rec.		Feet of		%gas	%oil		%water	%mud
Rec.		Feet of		%gas	%oil		%water	%mud

BHT 116 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW .16 ohms @ 38 °F Chlorides 90000 ppm Recovery _____ Chlorides 4000 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud		1928 PSI	Recorder No.	6755	Test	✓	900
(B) First Initial Flow Pressure		22 PSI	(depth)	3877	Elec. Rec.	✓	—
(C) First Final Flow Pressure		51 PSI	Recorder No.	13222	Jars	✓	200
(D) Initial Shut-In Pressure		1567 PSI	(depth)	3915	Safety Jt.	✓	50
(E) Second Initial Flow Pressure		51 PSI	Recorder No.		Circ Sub	[illegible]	
(F) Second Final Flow Pressure		87 PSI	(depth)		Sampler		
(G) Final Shut-In Pressure		1562 PSI	**Initial Opening**	30	Straddle		
(Q) Final Hydrostatic Mud		1887 PSI	Initial Shut-In	60	Ext. Packer		
			Final Flow	60	Shale Packer		
			Final Shut-In	90	Mileage 80	✓	80
			T-On Location	01:00	Sub Total:		1230 00
			T-Started	0204	~~Std. By~~ 40 30 5	✓	300 00
			T-Open	0848	Other		120 180
			T-Pulled	1252	Total:		1530 00
			T-Out	1558			

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Approved By Wesley Hansen

Our Representative [signature]

CHART PAGE

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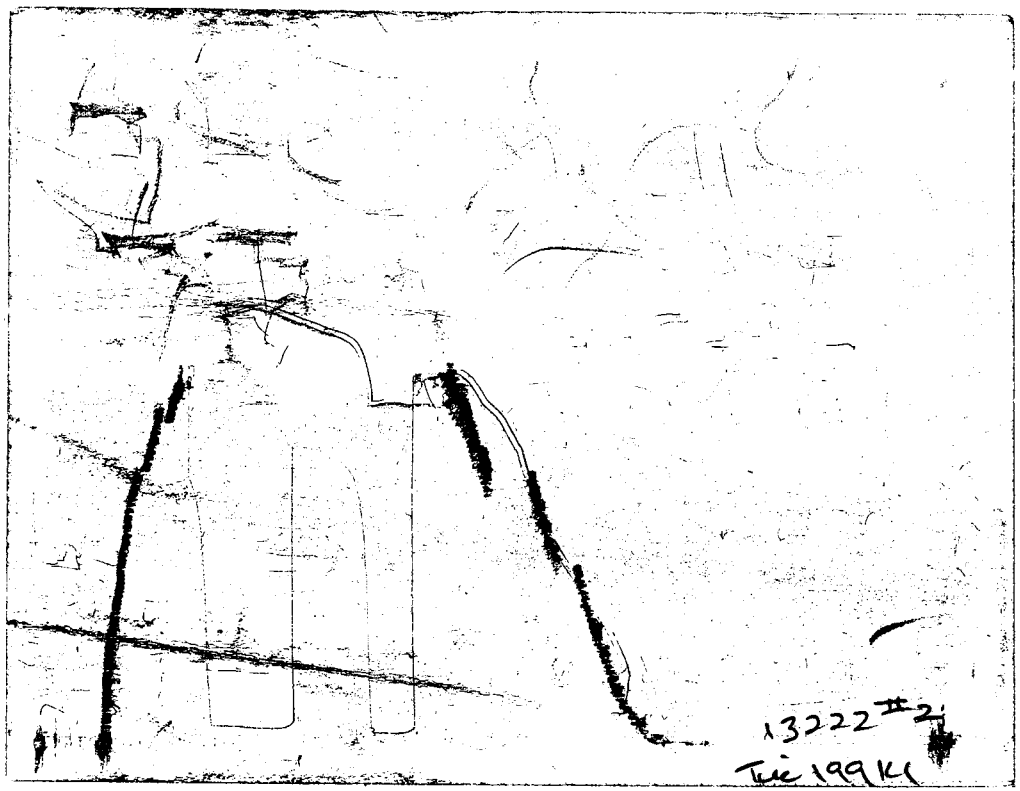

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

№ 19915

05/03

Test Ticket

Well Name & No. Adelhardt #1 Test No. 3 Date 1-7-05

Company Woolsey Oper. Co. LLC Zone Tested Miss.

Address 125 N. Market, Ste 1000 Wichita, KS 67202 Elevation 1603 KB 1592 GL

Co. Rep / Geo. Wes Hansen Cont. Duke Drlg. #5 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 33 Twp. 29s Rge. 9w Co. Kingman State KS

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

Interval Tested 4156 - 4195 Initial Str Wt./Lbs. 50000 Unseated Str Wt/Lbs. 50000

Anchor Length 39 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 65000

Top Packer Depth 4151 Tool Weight 2100

Bottom Packer Depth 4156 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 4195 Wt. Pipe Run None Drill Collar Run None

Mud Wt. 9.1 LCM Ø Vis. 43 WL 8.8 Drill Pipe Size 4½" Ft. Run 4142

Blow Description IF: Weak to fair blow. 6 in in bucket of water.
ISI: No Blow
FF: Weak to fair blow. 8 in in bucket of water.
FSI: No blow.

Recovery - Total Feet 25 GIP 95 Ft. in DC 0 Ft. in DP 25

Rec. 25 Feet of SOCM %gas 1 %oil %water 99 %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 115 °F Gravity N/A °API D @ N/A °F Corrected Gravity N/A °API

RW N.C. @ _____ °F Chlorides 5500 ppm Recovery _____ Chlorides 5500 ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud	1987	1994 PSI	Recorder No.	6755	Test	✓ 1000
(B) First Initial Flow Pressure		21 PSI	(depth)	4157	Elec. Rec.	✓
(C) First Final Flow Pressure		18 PSI	Recorder No.	13222	Jars	✓ 200
(D) Initial Shut-In Pressure		144 PSI	(depth)	4190	Safety Jt.	✓ 50
(E) Second Initial Flow Pressure		14 PSI	Recorder No.		Circ Sub	[illegible]
(F) Second Final Flow Pressure		19 PSI	(depth)		Sampler	
(G) Final Shut-In Pressure		222 PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud	1988	1908 PSI	Initial Shut-In	60	Ext. Packer	
			Final Flow	60	Shale Packer	
			Final Shut-In	120	Mileage	✓ 80
			T-On Location	1420	Sub Total:	1330
			T-Started	1447	Std. By	
			T-Open	1639	Other	
			T-Pulled	2115	Total:	1330.00
			T-Out	2255		

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Approved By Wesley Hansen

Our Representative [signature]

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