

DRILL STEM TEST REPORT

Prepared For: **A & A Production**

PO Box 100
Hill City KS 67642

ATTN: Mark Torr

26 9 26W Sheridan KS

Alvin #2

Start Date: 2007.01.23 @ 21:45:41

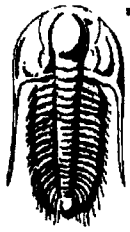
End Date: 2007.01.24 @ 04:39:11

Job Ticket #: 27604 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

A & A Production

PO Box 100
Hill City KS 67642

ATTN: Mark Torr

Alvin #2

26 9 26W Sheridan KS

Job Ticket: 27604

DST#: 1

Test Start: 2007.01.23 @ 21:45:41

GENERAL INFORMATION:

Formation: **KC-"E"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 00:16:56

Time Test Ended: 04:39:11

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **32**

Interval: **3950.00 ft (KB) To 3969.00 ft (KB) (TVD)**

Total Depth: **3969.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2638.00 ft (KB)**

2633.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6719

Inside

Press@RunDepth: **14.11 psig @ 3953.00 ft (KB)**

Start Date: **2007.01.23**

End Date:

2007.01.24

Capacity: **7000.00 psig**

Last Calib.: **2007.01.24**

Start Time: **21:45:43**

End Time:

04:39:11

Time On Btm: **2007.01.24 @ 00:16:41**

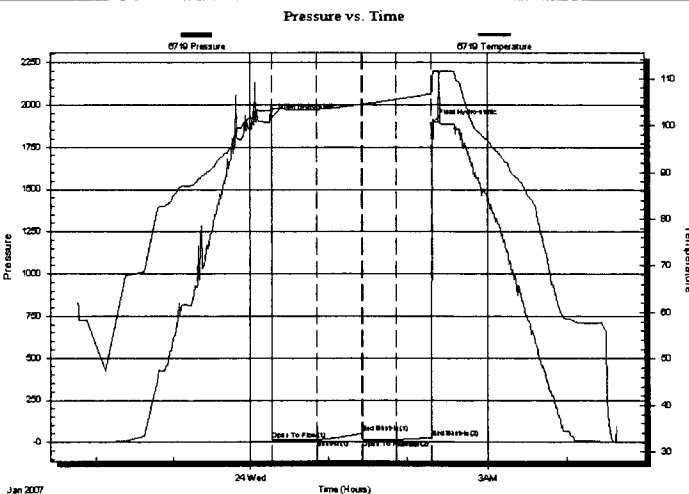
Time Off Btm: **2007.01.24 @ 02:18:26**

TEST COMMENT: **IFP Weak Blow 1/2 "**

ISI Dead

FFP Dead

FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1923.25	103.80	Initial Hydro-static
1	12.25	102.92	Open To Flow (1)
35	13.74	103.37	Shut-In (1)
69	51.71	104.48	End Shut-In (1)
70	13.43	104.48	Open To Flow (2)
96	14.11	105.55	Shut-In (2)
122	25.95	106.68	End Shut-In (2)
122	1889.50	107.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud W/Oil Specks	0.04

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

A & A Production

Alvin #2

PO Box 100
Hill City KS 67642

26 9 26W Sheridan KS

Job Ticket: 27604

DST#: 1

ATTN: Mark Torr

Test Start: 2007.01.23 @ 21:45:41

Tool Information

Drill Pipe:	Length:	3952.00 ft	Diameter:	3.80 inches	Volume:	55.44 bbl	Tool Weight:	2200.00 lb		
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb		
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	48000.00 lb		
						Total Volume:	55.44 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	23.00 ft								String Weight: Initial	34000.00 lb
Depth to Top Packer:	3950.00 ft								Final	34000.00 lb
Depth to Bottom Packer:	ft									
Interval between Packers:	19.00 ft									
Tool Length:	40.00 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			3930.00	
Shut In Tool	5.00			3935.00	
Hydraulic tool	5.00			3940.00	
Packer	5.00			3945.00	21.00 Bottom Of Top Packer
Packer	5.00			3950.00	
Stubb	1.00			3951.00	
Perforations	2.00			3953.00	
Recorder	0.00	6719	Inside	3953.00	
Perforations	13.00			3966.00	
Recorder	0.00	13221	Outside	3966.00	
Bullnose	3.00			3969.00	19.00 Bottom Packers & Anchor

Total Tool Length: 40.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

A & A Production

Alvin #2

PO Box 100
Hill City KS 67642

26 9 26W Sheridan KS

Job Ticket: 27604

DST#: 1

ATTN: Mark Torr

Test Start: 2007.01.23 @ 21:45:41

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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud W/Oil Specks	0.042

Total Length: 3.00 ft Total Volume: 0.042 bbl

Num Fluid Samples: 0

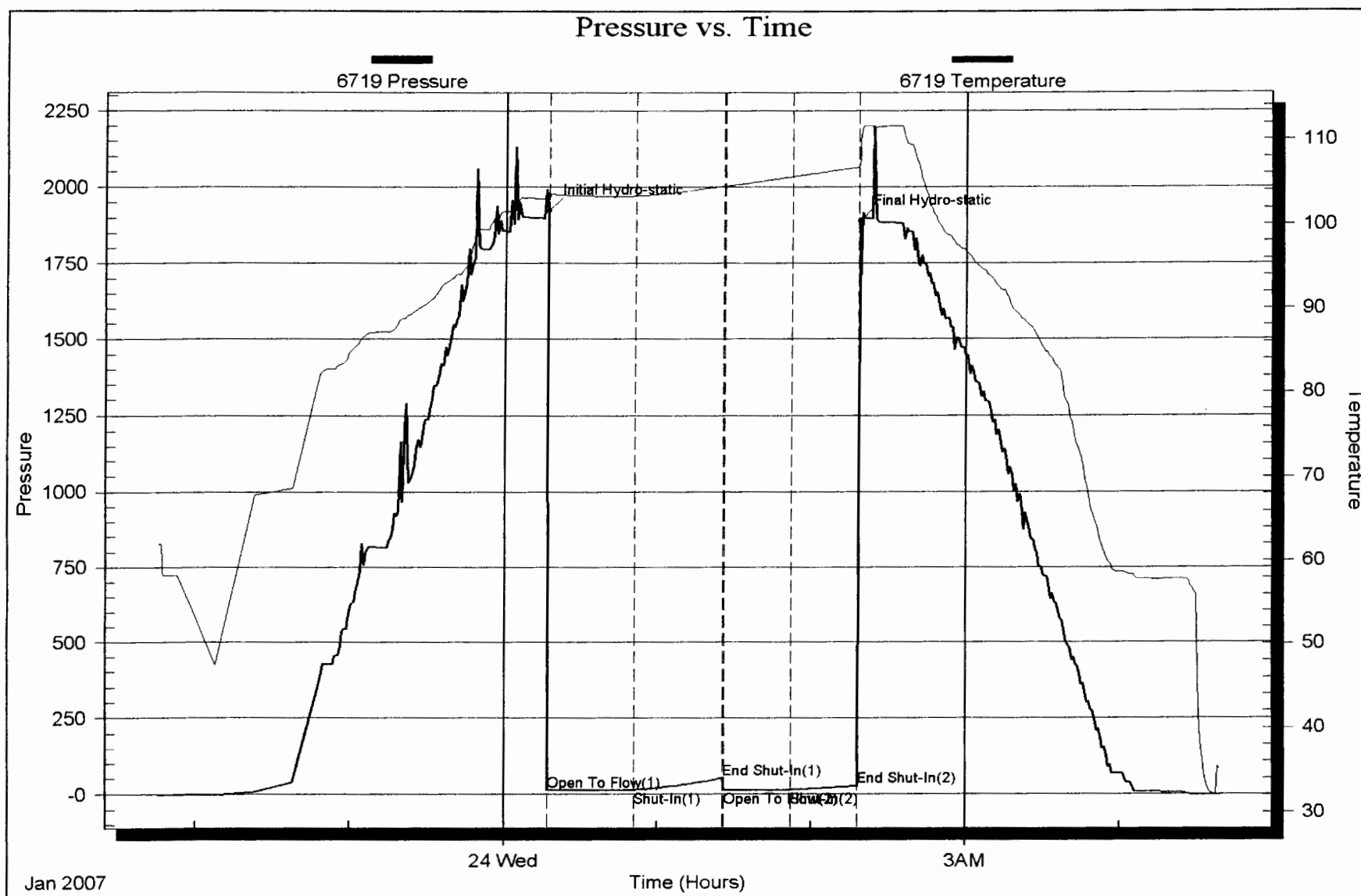
Num Gas Bombs: 0

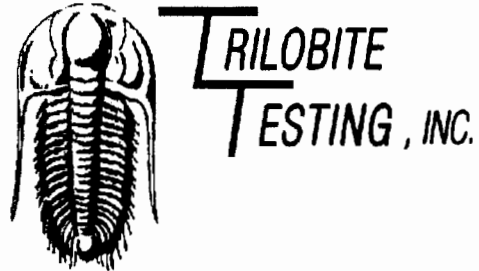
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **A & A Production**

PO Box 100
Hill City KS 67642

ATTN: Mark Torr

26 9 26W Sheridan KS

Alvin #2

Start Date: 2007.01.24 @ 15:16:02

End Date: 2007.01.24 @ 21:43:32

Job Ticket #: 27605 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

A & A Production

PO Box 100
Hill City KS 67642

ATTN: Mark Torr

Alvin #2

26 9 26W Sheridan KS

Job Ticket: 27605

DST#: 2

Test Start: 2007.01.24 @ 15:16:02

GENERAL INFORMATION:

Formation: **LKC-"H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:15:17

Time Test Ended: 21:43:32

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **4000.00 ft (KB) To 4033.00 ft (KB) (TVD)**

Total Depth: 4033.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2638.00 ft (KB)

2633.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 16.60 psig @ 4002.00 ft (KB)

Start Date: 2007.01.24

End Date:

2007.01.24

Capacity: 7000.00 psig

Last Calib.: 2007.01.24

Start Time: 15:16:04

End Time:

21:43:32

Time On Btm: 2007.01.24 @ 17:14:47

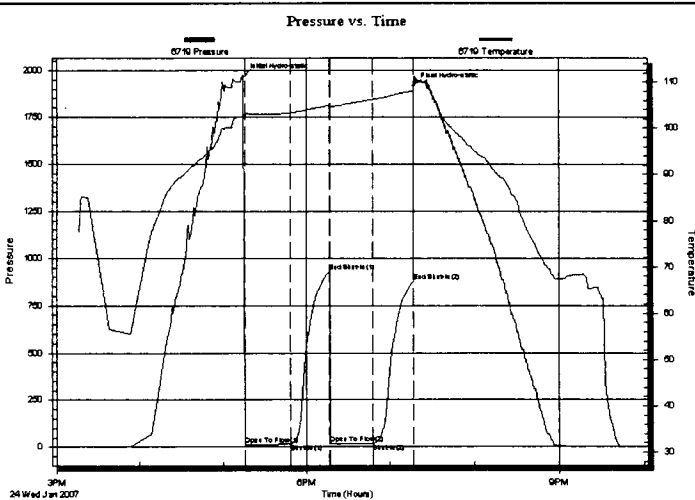
Time Off Btm: 2007.01.24 @ 19:17:32

TEST COMMENT: IFP Very Weak Built to 1-1/8 "

ISI Dead

FFP Dead

FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.99	102.86	Initial Hydro-static
1	12.73	102.83	Open To Flow (1)
34	15.10	103.29	Shut-In(1)
62	926.54	104.87	End Shut-In(1)
63	16.15	104.67	Open To Flow (2)
93	16.60	106.16	Shut-In(2)
123	874.69	108.05	End Shut-In(2)
123	1914.09	108.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.14

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

A & A Production

Alvin #2

PO Box 100
Hill City KS 67642

26 9 26W Sheridan KS

Job Ticket: 27605

DST#: 2

ATTN: Mark Torr

Test Start: 2007.01.24 @ 15:16:02

Tool Information

Drill Pipe:	Length:	3987.00 ft	Diameter:	3.80 inches	Volume:	55.93 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	38000.00 lb
					Total Volume:	55.93 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft						String Weight: Initial	36000.00 lb
Depth to Top Packer:	4000.00 ft						Final	36000.00 lb
Depth to Bottom Packer:	ft							
Interval between Packers:	33.00 ft							
Tool Length:	54.00 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			3980.00	
Shut In Tool	5.00			3985.00	
Hydraulic tool	5.00			3990.00	
Packer	5.00			3995.00	21.00 Bottom Of Top Packer
Packer	5.00			4000.00	
Stubb	1.00			4001.00	
Perforations	1.00			4002.00	
Recorder	0.00	6719	Inside	4002.00	
Perforations	28.00			4030.00	
Recorder	0.00	13221	Outside	4030.00	
Bullnose	3.00			4033.00	33.00 Bottom Packers & Anchor

Total Tool Length: 54.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

A & A Production

Alvin #2

PO Box 100
Hill City KS 67642

26 9 26W Sheridan KS

Job Ticket: 27605

DST#: 2

ATTN: Mark Torr

Test Start: 2007.01.24 @ 15:16:02

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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

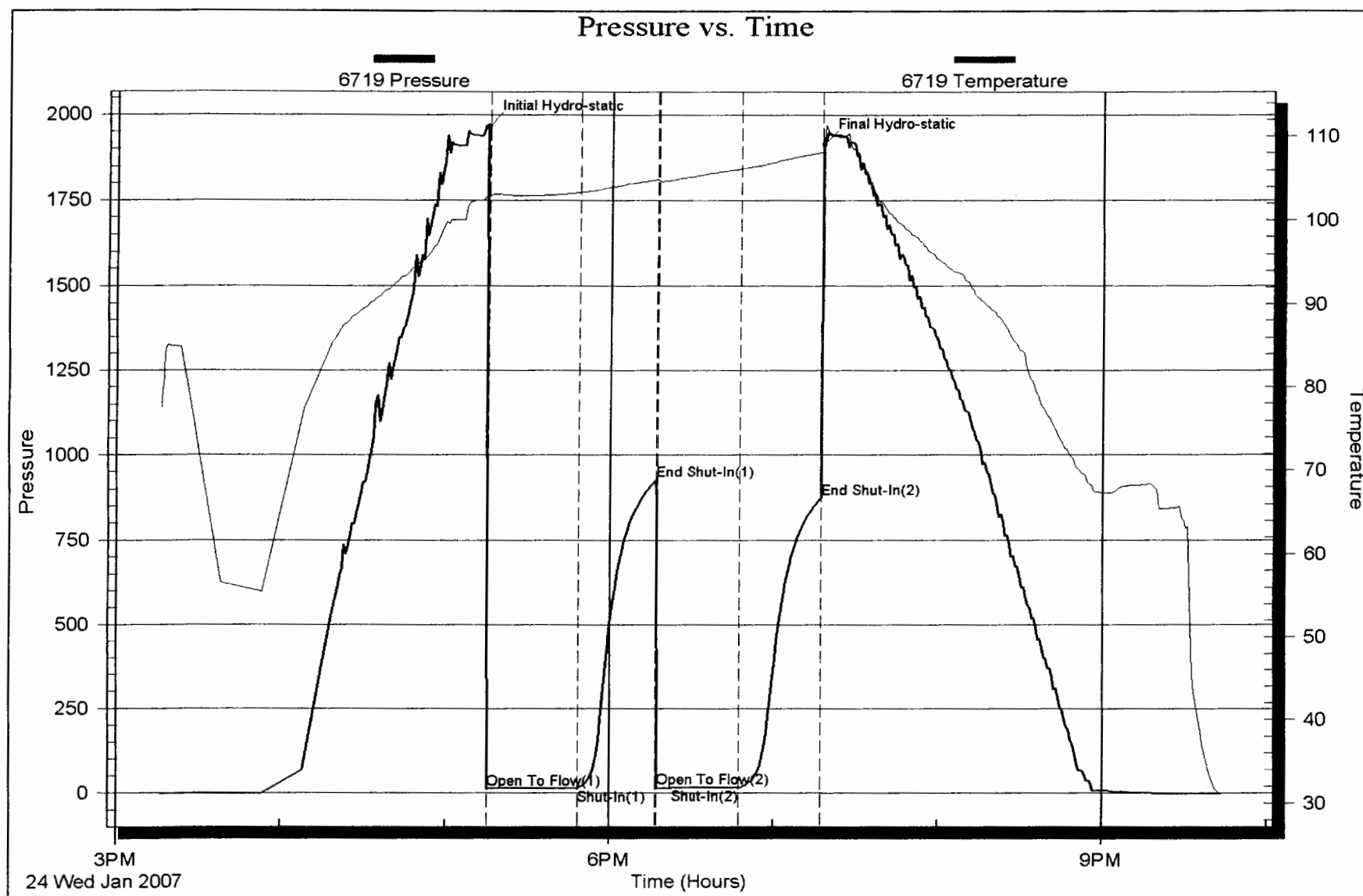
Recovery Comments:

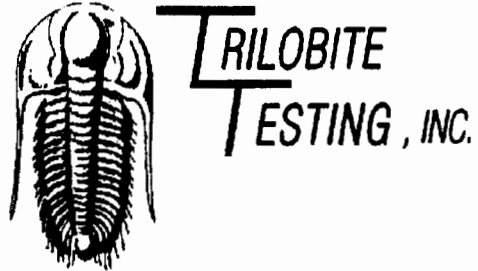
Serial #: 6719

Inside A & A Production

26 9 26W Sheridan KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **A & A Production**

PO Box 100
Hill City KS 67642

ATTN: Mark Torr

26 9 26W Sheridan KS

Alvin #2

Start Date: 2007.02.03 @ 10:34:29

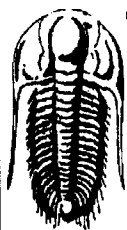
End Date: 2007.02.03 @ 18:17:08

Job Ticket #: 26079 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

A & A Production

PO Box 100
Hill City KS 67642

ATTN: Mark Torr

Alvin #2

26 9 26W Sheridan KS

Job Ticket: 26079

DST#: 3

Test Start: 2007.02.03 @ 10:34:29

GENERAL INFORMATION:

Formation: **L-KC "I,J,K,L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:22:39

Time Test Ended: 18:17:08

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **4030.00 ft (KB) To 4125.00 ft (KB) (TVD)**

Total Depth: 4125.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2625.00 ft (KB)

2620.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 19.96 psig @ 4031.00 ft (KB)

Start Date: 2007.02.03

End Date:

2007.02.03

Start Time: 10:34:31

End Time:

18:17:09

Capacity: 7000.00 psig

Last Calib.: 2007.02.03

Time On Btm: 2007.02.03 @ 13:22:18

Time Off Btm: 2007.02.03 @ 15:27:49

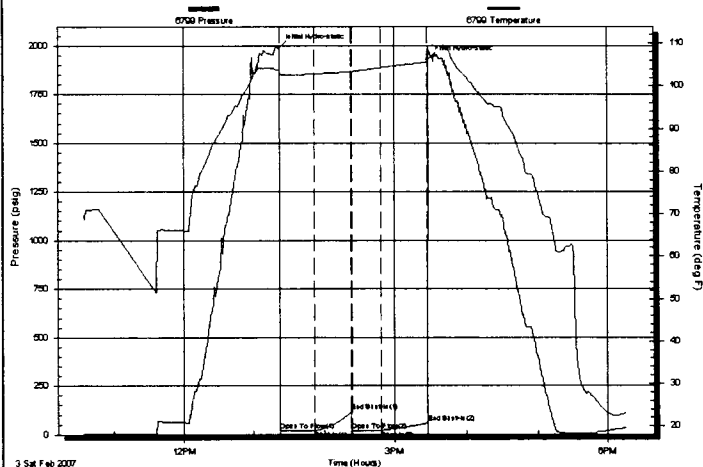
TEST COMMENT: IF Weak blow built to 1" in bucket started dying after 10 minutes dead blow after 22 minutes

ISI No blow back

FF No blow

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1986.58	103.78	Initial Hydro-static
1	17.12	103.11	Open To Flow (1)
30	18.79	102.81	Shut-In(1)
61	115.83	103.38	End Shut-In(1)
62	19.16	103.34	Open To Flow (2)
87	19.96	104.26	Shut-In(2)
126	59.54	105.54	End Shut-In(2)
126	1928.86	106.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud 100%Mud	0.21

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

A & A Production

Alvin #2

PO Box 100
Hill City KS 67642

26 9 26W Sheridan KS

Job Ticket: 26079

DST#: 3

ATTN: Mark Torr

Test Start: 2007.02.03 @ 10:34:29

Tool Information

Drill Pipe:	Length: 4017.00 ft	Diameter: 3.80 inches	Volume: 56.35 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:	60000.00 lb	
			Total Volume:	56.35 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	35000.00 lb	
Depth to Top Packer:	4030.00 ft			Final	35000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	95.00 ft					
Tool Length:	115.00 ft					
Number of Packers:	2	Diameter:	6.75 inches			
Tool Comments:						

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4015.00	
Hydraulic tool	5.00			4020.00	
Packer	5.00			4025.00	20.00 Bottom Of Top Packer
Packer	5.00			4030.00	
Stubb	1.00			4031.00	
Recorder	0.00	6799	Inside	4031.00	
Perforations	28.00			4059.00	
Blank Spacing	63.00			4122.00	
Recorder	0.00	3354	Outside	4122.00	
Bullnose	3.00			4125.00	95.00 Bottom Packers & Anchor
Total Tool Length:	115.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

A & A Production

Alvin #2

PO Box 100
Hill City KS 67642

26 9 26W Sheridan KS

Job Ticket: 26079

DST#: 3

ATTN: Mark Torr

Test Start: 2007.02.03 @ 10:34:29

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: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drilling Mud 100%Mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

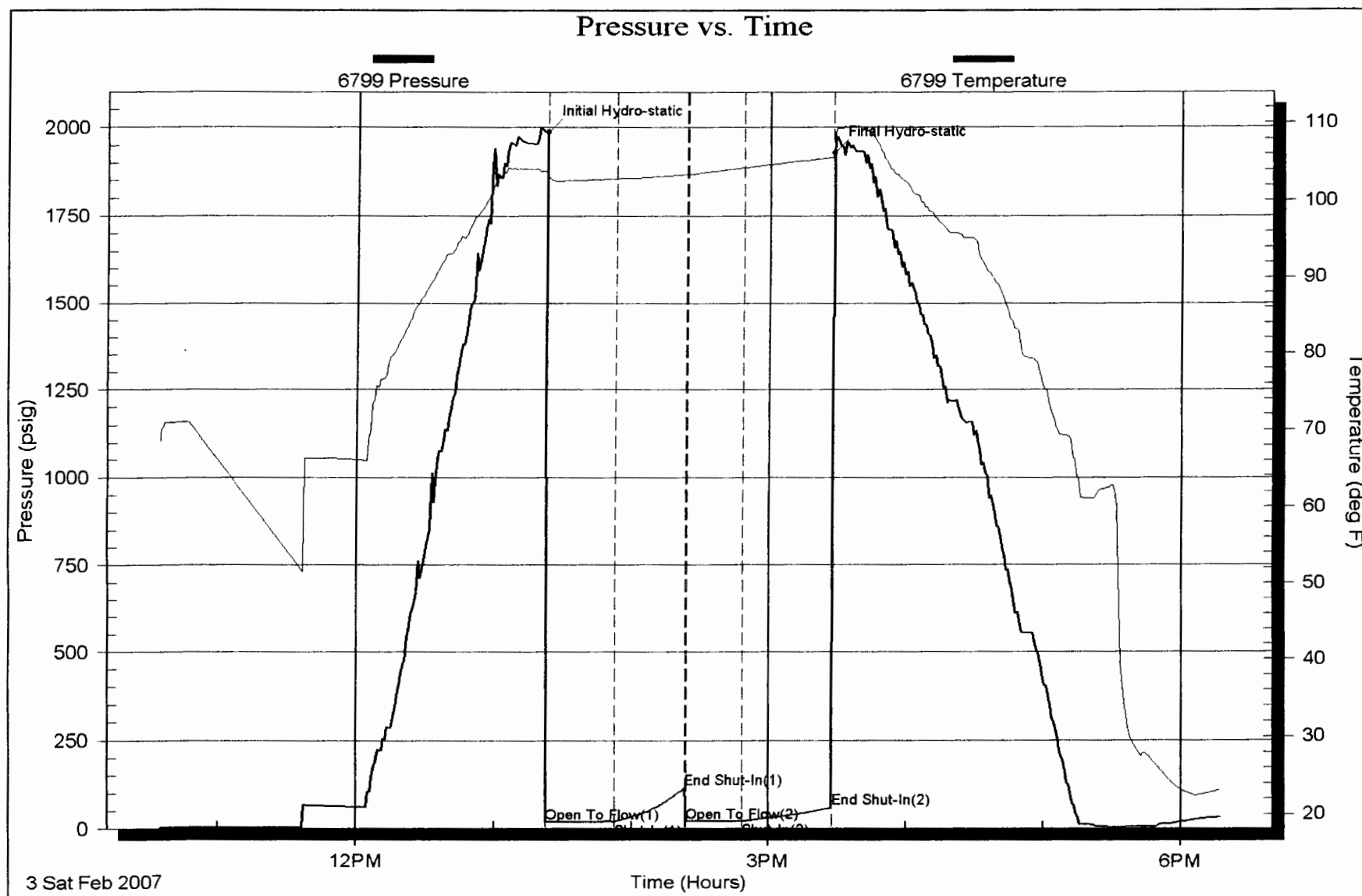
Num Gas Bombs: 0

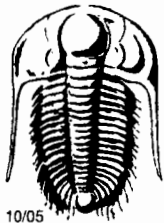
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27604

9771
dst 1 + 2

Test Ticket

Well Name & No. <u>Alvin #2</u>	Test No. <u>1</u>	Date <u>1-23-07</u>
Company <u>A+A Production</u>	Zone Tested <u>KC - E</u>	
Address <u>PO Box 100, Hill City, Ks. 67642</u>	Elevation <u>2638</u>	KB <u>2633</u> GL
Co. Rep / Geo. <u>Mark Torr</u>	Rig <u>A+A #2</u>	
Location: Sec. <u>26</u> Twp. <u>9s</u> Rge. <u>26w</u>	Co. <u>Sheridan</u>	State <u>Ks</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3950-3969</u>	Initial Str Wt./Lbs. <u>34,000</u>	Unseated Str Wt./Lbs. <u>34,000</u>
Anchor Length <u>19'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>48,000</u>
Top Packer Depth <u>3945</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3950</u>	Hole Size 7 7/8" ☒	Rubber Size 6 3/4" ☒
Total Depth <u>3969</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>0</u>
Mud Wt. <u>9.2</u> LCM <u>1/2"</u> Vis. <u>46</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2 FH</u>	Ft. Run <u>3952</u>
Blow Description <u>IFP - Weak Blow, 1/2"</u>		
<u>ISI - Dead</u>		
<u>FFP - Dead</u>		
<u>FSI - Dead</u>		

Recovery - Total Feet <u>3</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>3</u>	Feet of <u>Mud w/oil specker</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT <u>107°</u>	*F Gravity _____	*API D @ _____	*F Corrected Gravity _____
RW _____ @ _____	*F Chlorides _____ ppm	Recovery _____	Chlorides <u>3,000</u> ppm System

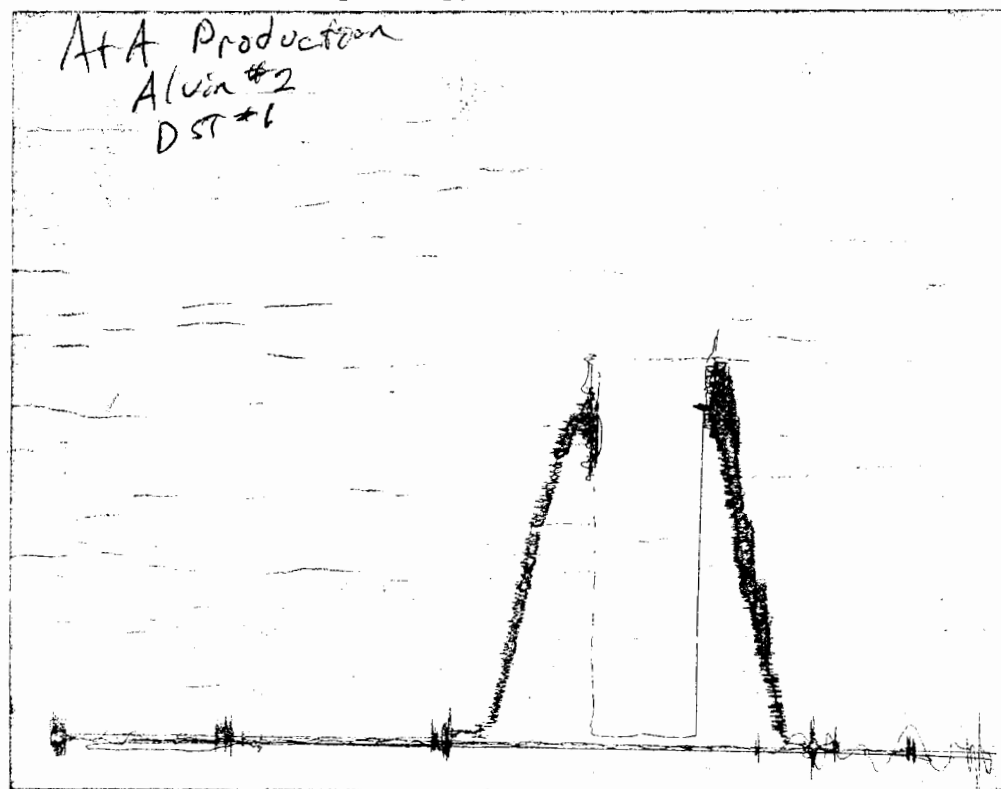
(A) Initial Hydrostatic Mud	AK-1	Alpine	1924	PSI	Recorder No. <u>6719</u>	(Test) <u>1100</u>
(B) First Initial Flow Pressure			12	PSI	(depth) <u>3953</u>	Jars _____
(C) First Final Flow Pressure			14	PSI	Recorder No. <u>13221</u>	Safety Jt. _____
(D) Initial Shut-In Pressure			52	PSI	(depth) <u>3966</u>	Circ Sub _____
(E) Second Initial Flow Pressure			13	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure			14	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure			26	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud			1920	PSI	Initial Shut-In <u>30</u>	Shale Packer _____
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.					Final Flow <u>30</u>	Ruined Packer _____
					Final Shut-In <u>30</u>	Mileage <u>118</u> <u>147.5</u>
					T-On Location <u>19:30</u>	Sub Total: _____
					T-Started <u>21:45</u>	Std. By <u>1.25</u> <u>125</u>
					T-Open <u>00:17</u>	Acc. Chg: _____
					T-Pulled <u>2:17</u>	Other: _____
					T-Out <u>4:40</u>	Total: <u>\$1372.5</u>

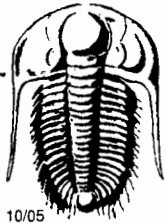
Approved By _____

Our Representative J. Mc Leman

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27605

Test Ticket

Well Name & No. <u>Alvin #2</u>	Test No. <u>2</u>	Date <u>1-24-07</u>
Company <u>A+A Production</u>	Zone Tested <u>LKC-H</u>	
Address <u>PO Box 100, Hill City, Ks. 67642</u>	Elevation <u>2638</u> KB <u>2633</u> GL	
Co. Rep / Geo. <u>Mark Torr</u>	Rig <u>A+A #2</u>	
Location: Sec. <u>26</u> Twp. <u>9s</u> Rge. <u>26w</u> Co. <u>Sheridan</u> State <u>Ks</u>		
Comment: _____	Release date / time: _____	

Interval Tested <u>4000 - 4033</u>	Initial Str Wt./Lbs. <u>36000</u>	Unseated Str Wt./Lbs. <u>36,000</u>
Anchor Length <u>33'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>38,000</u>
Top Packer Depth <u>3995</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>4000</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>4033</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>0</u>
Mud Wt. <u>9.1</u> LCM <u>1/4</u> Vis. _____ WL _____	Drill Pipe Size <u>4 1/2 FH</u>	Ft. Run <u>3987</u>
Blow Description <u>IFP - Weak Blow, Slowly Built to 1 1/8"</u>		
<u>ISI - Dead</u>		
<u>FFP - Dead</u>		
<u>FSI - Dead</u>		

Recovery - Total Feet <u>10</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>10</u>	Feet of <u>Mud</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT <u>108°</u>	*F Gravity _____	*API D @ _____	*F Corrected Gravity _____
RW _____ @ _____	*F _____	Chlorides _____ ppm Recovery _____	Chlorides <u>4,000</u> ppm System

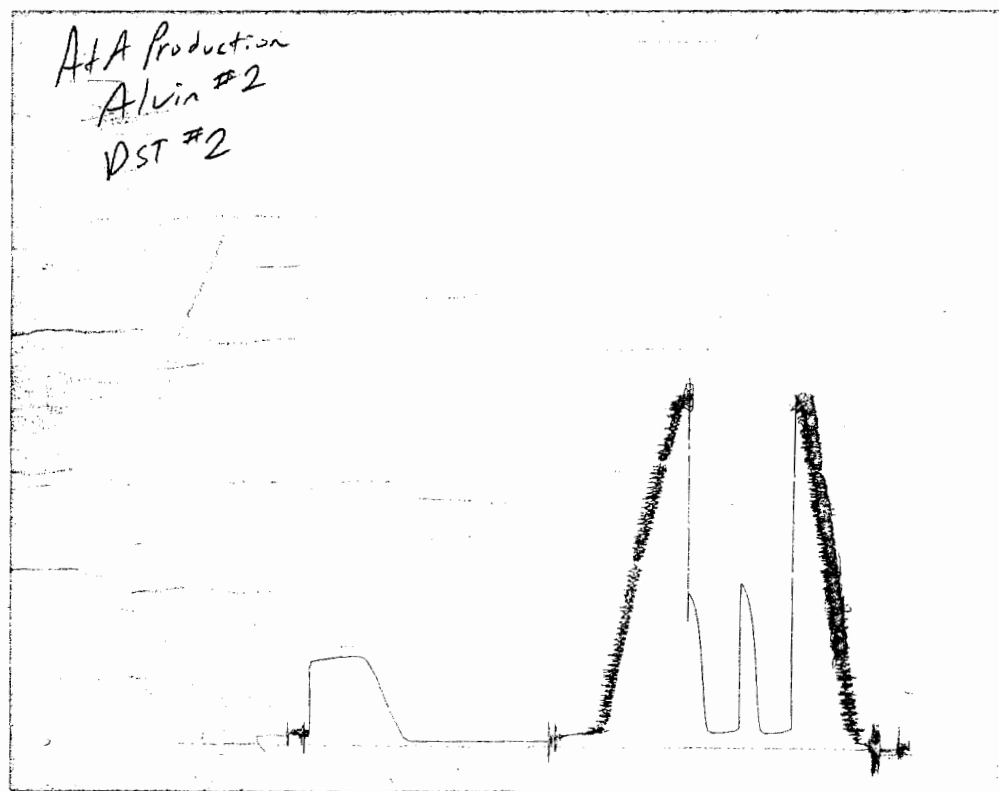
(A) Initial Hydrostatic Mud	AK-1 <u>1966</u> PSI	Alpine	Recorder No. <u>6719</u>	Test <u>1200</u>
(B) First Initial Flow Pressure	<u>13</u> PSI		(depth) <u>4002</u>	Jars _____
(C) First Final Flow Pressure	<u>15</u> PSI		Recorder No. <u>13221</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>927</u> PSI		(depth) <u>4030</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>16</u> PSI		Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>17</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>875</u> PSI	Initial Opening <u>30</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1917</u> PSI	Initial Shut-In <u>30</u>		Shale Packer _____
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.		Final Flow <u>30</u>		Ruined Packer _____
		Final Shut-In <u>30</u>		Mileage <u>178.7</u> <u>147.5</u>
		T-On Location <u>14:10</u>		Sub Total: _____
		T-Started <u>15:16</u>		Std. By _____
		T-Open <u>17:15</u>		Acc. Chg: <u>1347.50</u>
		T-Pulled <u>19:15</u>		Other: _____
		T-Out <u>21:45</u>		Total: _____

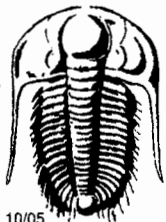
Approved By _____

Our Representative G. McJensen 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

26079

Test Ticket

Well Name & No. Alvin #2 Test No. 3 Date 2-3-07
 Company A&A Production Zone Tested L KC "IJKL"
 Address P.O. Box 100, Hill City, KS 67642 Elevation 2625 KB 2620 GL
 Co. Rep / Geo. Mark Tarr Rig A&A Rig #1
 Location: Sec. 26 Twp. 9s Rge. 26w Co. Sheridan State KS
 Comment: _____ Release date / time: _____

Interval Tested 4030 - 4125 Initial Str Wt./Lbs. 35000 Unseated Str Wt./Lbs. 35000
 Anchor Length 95 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 60000
 Top Packer Depth 4025 Tool Weight 2100
 Bottom Packer Depth 4030 Hole Size 7 7/8" Yes Rubber Size 6 3/4" Yes
 Total Depth 4125 Wt. Pipe Run None Drill Collar Run None
 Mud Wt. 9.1 LCM 1/4" Vis. 40 WL 8.8 Drill Pipe Size 4 1/2 Fth Ft. Run 4017
 Blow Description IF: weak blow built to 1" in bucket, started dying after 10 min, dead blow after 22.
ISI: No blowback.
FFR: No blow.
FSI: No blowback.

Recovery - Total Feet 15 GIP 0 Ft. in DC 0 Ft. in DP 15
 Rec. 15 Feet of Dilg Mud %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 106 °F Gravity NA °API D @ _____ °F Corrected Gravity _____ °API
 RW NA @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1983 PSI	6779	9 Hour 1200	
(B) First Initial Flow Pressure	17 PSI	(depth) 4031	Jars	
(C) First Final Flow Pressure	19 PSI	Recorder No. 3354	Safety Jt.	
(D) Initial Shut-In Pressure	116 PSI	(depth) 4122	Circ Sub <u>NC</u>	
(E) Second Initial Flow Pressure	19 PSI	Recorder No.	Sampler	
(F) Second Final Flow Pressure	20 PSI	(depth)	Straddle	
(G) Final Shut-In Pressure	60 PSI	Initial Opening 30	Ext. Packer	
(Q) Final Hydrostatic Mud	1966 PSI	Initial Shut-In 30	Shale Packer	
		Final Flow 30	Ruined Packer	
		Final Shut-In 30	Mileage <u>118</u> , <u>147.5</u>	
		T-On Location <u>10:00</u>	Sub Total:	
		T-Started <u>10:35</u> <u>1H</u>	Std. By	
		T-Open <u>13:22</u>	Acc. Chg: <u>1347.50</u>	
		T-Pulled <u>15:27</u>	Other:	
		T-Out <u>17:45</u>	Total:	

Approved By _____

Our Representative _____

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.

CHART PAGE

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

