

15-033-21202

CONFIDENTIAL

ORIGINAL



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

RELEASED

P.O.Box 399

JUN 28 2002 Garden City, KS 67846-0399

KCC

FROM CONFIDENTIAL

ATTN: Alan Downing

MAY 30 2002

1-32s-20w Comanche

CONFIDENTIAL

Thies #1

Start Date: 2001.03.02 @ 21:40:00

End Date: 2001.03.02 @ 07:14:00

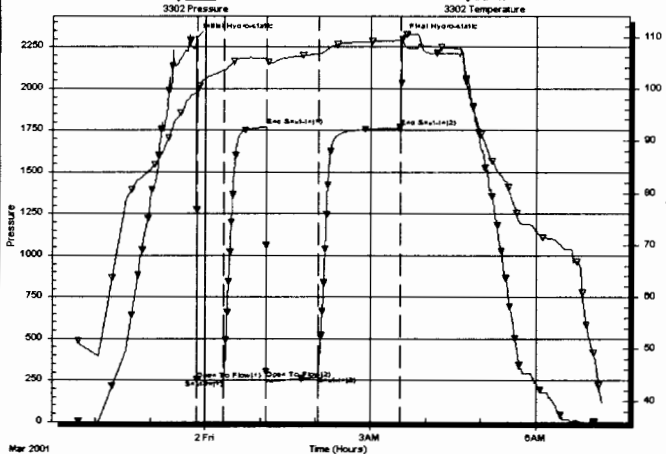
Job Ticket #: 13591

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																																						
American Warrior, In P.O.Box 399 Garden City, KS 67846--0399 ATTN: Alan Dow ning	Thies #1 1-32s-20w Comanche Job Ticket: 13591 Test Start: 2001.03.02 @ 21:40:00	DST#: 1 KCC	ORIGINAL																																				
GENERAL INFORMATION:																																							
Formation: Swope Deviated: No Whipstock: ft (KB) Time Tool Opened: 23:50:32 Time Test Ended: 07:14:00		RELEASED JUN 23 2002 FROM CONFIDENTIAL																																					
Interval: 4800.00 ft (KB) To 4830.00 ft (KB) (TVD) Total Depth: 4830.00 ft (KB) Hole Diameter: 7.88 inches Hole Condition: Fair		Test Type: Conventional Bottom Hole Tester: Darren L. Amerine Unit No: 19 Reference Elevations: 2089.00 ft (KB) 2076.00 ft (CF) KB to GR/CF: 13.00 ft																																					
Serial #: 3302 Inside Press@RunDepth: 268.53 psig @ 4801.00 ft (KB) Start Date: 2001.03.01 End Date: 2001.03.02 Start Time: 21:40:34 End Time: 07:13:32 Capacity: 7000.00 psig Last Calib.: 2001.03.02 Time On Btm: 2001.03.01 @ 23:50:02 Time Off Btm: 2001.03.02 @ 03:33:32																																							
TEST COMMENT: IS:Bled down for 10 mins. Very-slight blow back 1/4--1/2" in -- H2O bucket. FF:Strong blow B.o.B in 3 mins.																																							
Pressure vs. Time 		PRESSURE SUMMARY <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>130</td> <td>2305.60</td> <td>99.09</td> <td>Initial Hydro-static</td> </tr> <tr> <td>130</td> <td>247.54</td> <td>98.01</td> <td>Open To Flow (1)</td> </tr> <tr> <td>160</td> <td>243.88</td> <td>103.47</td> <td>Shut-In(1)</td> </tr> <tr> <td>206</td> <td>1769.53</td> <td>105.89</td> <td>End Shut-In(1)</td> </tr> <tr> <td>207</td> <td>249.60</td> <td>105.86</td> <td>Open To Flow (2)</td> </tr> <tr> <td>263</td> <td>268.53</td> <td>106.68</td> <td>Shut-In(2)</td> </tr> <tr> <td>352</td> <td>1766.25</td> <td>109.34</td> <td>End Shut-In(2)</td> </tr> <tr> <td>353</td> <td>2304.12</td> <td>109.72</td> <td>Final Hydro-static</td> </tr> </tbody> </table>		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	130	2305.60	99.09	Initial Hydro-static	130	247.54	98.01	Open To Flow (1)	160	243.88	103.47	Shut-In(1)	206	1769.53	105.89	End Shut-In(1)	207	249.60	105.86	Open To Flow (2)	263	268.53	106.68	Shut-In(2)	352	1766.25	109.34	End Shut-In(2)	353	2304.12	109.72	Final Hydro-static
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, In

Thies #1

P.O.Box 399
Garden City, KS 67846--0399

1-32s-20w Comanche

Job Ticket: 13591

DST#: 1

ATTN: Alan Downing

Test Start: 2001.03.02 @ 21:40:00

Tool Information

Drill Pipe:	Length: 4450.46 ft	Diameter: 3.80 inches	Volume: 62.43 bbl	Tool Weight: 2100.00 lb
Drill Collar:	Length: 353.54 ft	Diameter: 2.25 inches	Volume: 1.74 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight to Pull Loose: 125000.0 lb
Drill Pipe Above KB:	32.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	4795.00 ft			String Weight: Initial 77000.00 lb
Depth to Bottom Packer:	ft			Final 77000.00 lb
Interval between Packers:	ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4773.00	
S.I. Tool	5.00			4778.00	
HMV	5.00			4783.00	
Jars	5.00			4788.00	
Safety Joint	2.00			4790.00	
Packer	5.00			4795.00	23.00 Bottom Of Top Packer
Packer	5.00			4800.00	
Stubb	1.00			4801.00	
Recorder	0.00	3302	Inside	4801.00	
Anchor	26.00			4827.00	
Recorder	0.00	10991	Outside	4827.00	
Bullnose	3.00			4830.00	35.00 Bottom Packers & Anchor

Total Tool Length: 58.00

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MAY 30 2001

NATURAL GAS ANALYSIS REPORT

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Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 20011159

Analyzed: 03/06/01

Sample From: Thies #1 DST 1

Pressure:

Producer: American Warrior, Inc.

Temperature:

Date: Location: 1-32-20

Time:

County: Comanche

Sampler:

State: Kansas

Source:

Formation: Swope

	Mole %	GPM
Helium	He: 0.038	0.000
Hydrogen	H2: 0.014	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 5.186	0.000
Carbon Dioxide	CO2: 0.056	0.000
Methane	C1: 70.450	0.000
Ethane	C2: 10.142	2.712
Propane	C3: 8.936	2.462
Iso Butane	iC4: 0.991	0.324
Normal Butane	nC4: 2.710	0.854
Iso Pentane	iC5: 0.484	0.177
Normal Pentane	nC5: 0.484	0.175
Hexanes Plus	C6+: 0.509	0.222

TOTAL: 100.000 6.928

Z Fact: 0.9960

SP.GR.: 0.8010

BTU (SAT): 1286.9 @ 14.73 psia

BTU (DRY): 1309.6 @ 14.73 psia

OCTANE RATING: 114.9

COMMENTS:

0.000

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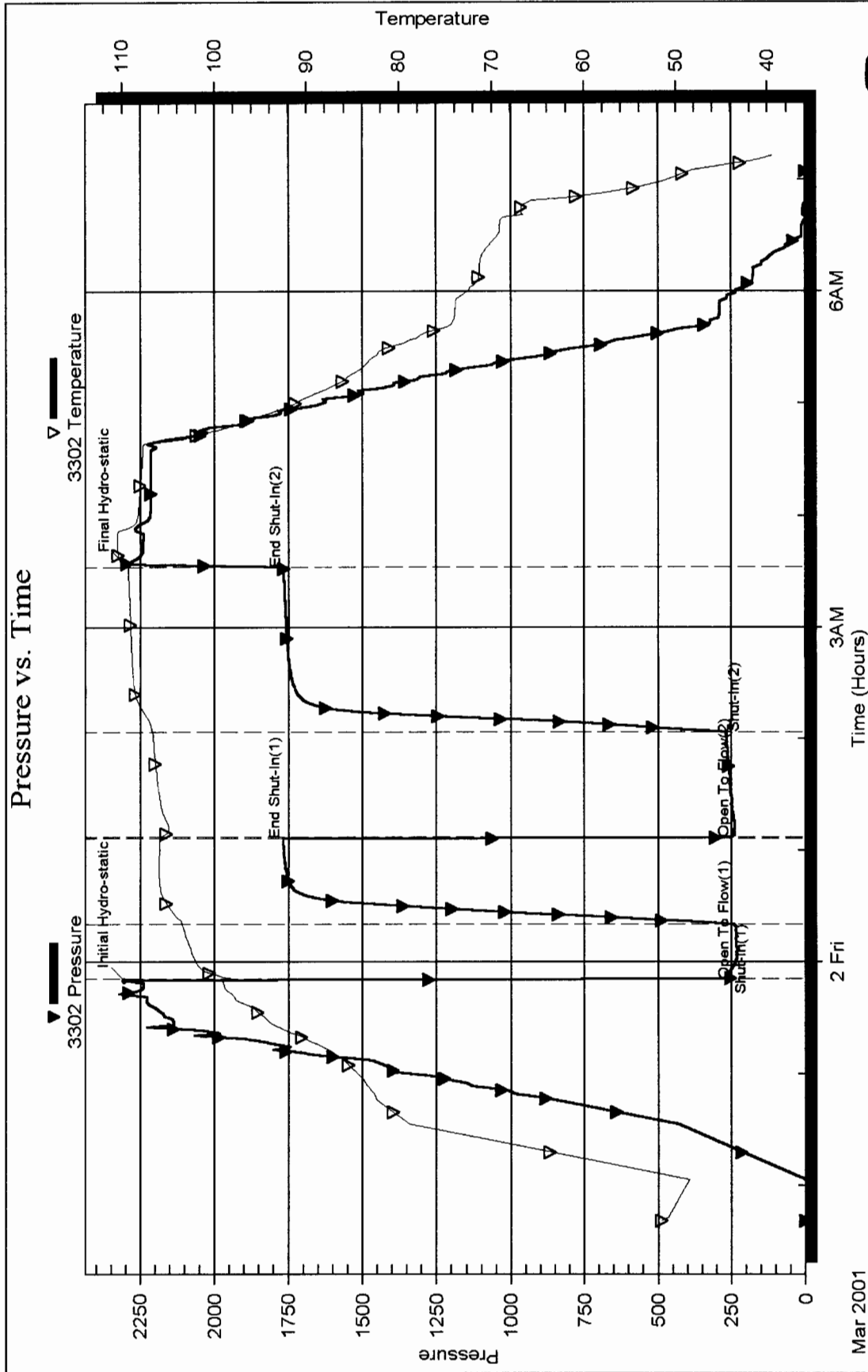
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Ref. No: 13591

Trilobite Testing, Inc



1-32s-20w Comanche

American Warrior, In

Inside

Serial #: 3302

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Prepared For: **American Warrior, In**

P.O.Box 399
Garden City, KS 67846--0399

ATTN: Alan Downing

1-32s-20w Comanche

Thies #1

Start Date: 2001.03.03 @ 17:15:00

End Date: 2001.03.03 @ 01:51:00

Job Ticket #: 13592 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

American Warrior, In

Thies #1

1-32s-20w Comanche

DST #: 2

Mississippian

2001.03.03

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		ORIGIN MAY 30 2001
	American Warrior, In P.O.Box 399 Garden City, KS 67846--0399 ATTN: Alan Downing	Thies #1 1-32s-20w Comanche Job Ticket: 13592 Test Start: 2001.03.03 @ 17:15:00	

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:47:56
 Time Test Ended: 01:51:00

Test Type: Conventional Bottom Hole
 Tester: Darren L. Amrine
 Unit No: 19

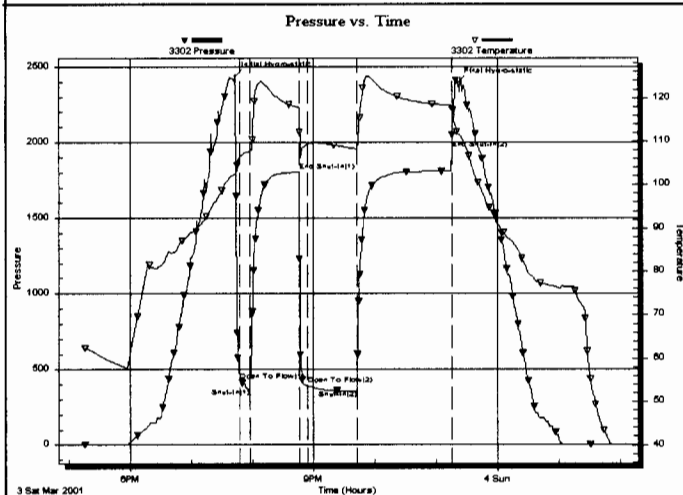
Interval: **5103.00 ft (KB) To 5225.00 ft (KB) (TVD)**
 Total Depth: 5225.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2089.00 ft (KB)
 2076.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 3302 Inside
 Press@RunDepth: 357.27 psig @ 5104.00 ft (KB)
 Start Date: 2001.03.03 End Date: 2001.03.04
 Start Time: 17:15:28 End Time: 01:51:56

Capacity: 7000.00 psig
 Last Calib.: 2001.03.04
 Time On Btm: 2001.03.03 @ 19:43:26
 Time Off Btm: 2001.03.03 @ 23:20:56

TEST COMMENT: IF: Strong blow b.o.b in 20 sec.
 GTS--in 3 mins. Gauge gas.
 IS: B led down for 10 mins.
 built back to 4" in H2O bucket.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
148	2437.76	102.58	Initial Hydro-static
153	417.23	106.57	Open To Flow (1)
163	369.31	107.76	Shut-In (1)
210	1803.16	117.78	End Shut-In (1)
219	392.62	109.36	Open To Flow (2)
267	357.27	108.22	Shut-In (2)
360	1949.66	118.21	End Shut-In (2)
366	2394.42	111.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4641.00	01 - Gas	61.88
445.00	SGCM 10% gas 90% mud	6.24

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	65.00	1316.02
Last Gas Rate	0.75	85.00	1552.61
Max. Gas Rate	0.75	95.00	1708.81



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, In
P.O.Box 399
Garden City, KS 67846--0399

ATTN: Alan Dow ning

Thies #1
1-32s-20w Comanche
Job Ticket: 13592 **DST#: 2**
Test Start: 2001.03.03 @ 17:15:00

Tool Information

Drill Pipe:	Length: 4732.46 ft	Diameter: 3.80 inches	Volume: 66.38 bbl	Tool Weight: 2100.00 lb
Drill Collar:	Length: 353.54 ft	Diameter: 2.25 inches	Volume: 1.74 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight to Pull Loose: 120000.0 lb
Drill Pipe Above KB:	11.00 ft			Tool Chased ft
Depth to Top Packer:	5098.00 ft			String Weight: Initial 80000.00 lb
Depth to Bottom Packer:	ft			Final 80000.00 lb
Interval betw een Packers:	ft			
Tool Length:	150.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5076.00	
S.I. Tool	5.00			5081.00	
HMV	5.00			5086.00	
Jars	5.00			5091.00	
Safety Joint	2.00			5093.00	
Packer	5.00			5098.00	23.00 Bottom Of Top Packer
Packer	5.00			5103.00	
Stubb	1.00			5104.00	
Recorder	0.00	3302	Inside	5104.00	
Anchor	26.00			5130.00	
Blank Spacing	92.00			5222.00	
Recorder	0.00	10991	Outside	5222.00	
Bullnose	3.00			5225.00	127.00 Bottom Packers & Anchor

Total Tool Length: 150.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, In

Thies #1

P.O.Box 399
Garden City, KS 67846--0399

1-32s-20w Comanche

Job Ticket: 13592

DST#: 2

ATTN: Alan Dow ning

Test Start: 2001.03.03 @ 17:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: -999999 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: - ppm

Viscosity: 47.00 sec/qt

Cushion Volume: bbl

214748364

Water Loss: 6.39

Gas Cushion Type:

Resistivity: 0.90 ohm.m

Gas Cushion Pressure: psig

Salinity: 10500.00 ppm

Filter Cake: 0.32 inches

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Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4641.00	01 - Gas	61.880
445.00	SGCM 10%gas 90% mud	6.242

Total Length: 5086.00 ft

Total Volume: 68.120 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: 3302

Laboratory Name: Caraw ay

Laboratory Location: Liberal KS

Recovery Comments:

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

GAS RATES

American Warrior, In

Thies #1

P.O.Box 399
Garden City, KS 67846--0399

1-32s-20w Comanche

Job Ticket: 13592

DST#: 2

ATTN: Alan Downing

Test Start: 2001.03.03 @ 17:15:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (kPaa)	Gas Rate (Mcf/d)
1	8	0.75	65.00	1316.02
1	8	0.75	65.00	1240.22
1	8	0.75	65.00	1240.22
1	13	0.75	85.00	1552.61
1	15	0.75	87.00	1583.85
2	10	0.75	95.00	1708.81
2	20	0.75	95.00	1708.81
2	30	0.75	86.00	1568.23
2	40	0.75	85.00	1552.61

NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 20011211**Analyzed: 03/08/01****Sample From: Thies #1 DST 2****Pressure:****Producer: American Warrior, Inc.****Temperature:****Date: Location: 1-32-20****Time:****County: Comanche****Sampler:****State: Kansas****Source:****Formation: Miss**

	Mole %	GPM
Helium	He: 0.162	0.000
Hydrogen	H2: 0.011	0.000
Oxygen	O2: 0.304	0.000
Nitrogen	N2: 4.463	0.000
Carbon Dioxide	CO2: 0.216	0.000
Methane	C1: 88.258	0.000
Ethane	C2: 3.599	0.963
Propane	C3: 1.391	0.383
Iso Butane	iC4: 0.186	0.061
Normal Butane	nC4: 0.414	0.131
Iso Pentane	iC5: 0.130	0.048
Normal Pentane	nC5: 0.152	0.055
Hexanes Plus	C6+: 0.714	0.312

TOTAL: 100.000 1.951**Z Fact: 0.9977****SP.GR.: 0.6413****BTU (SAT): 1044.0 @ 14.73 psia****BTU (DRY): 1062.5 @ 14.73 psia****OCTANE RATING: 120.7****COMMENTS:**

0.304

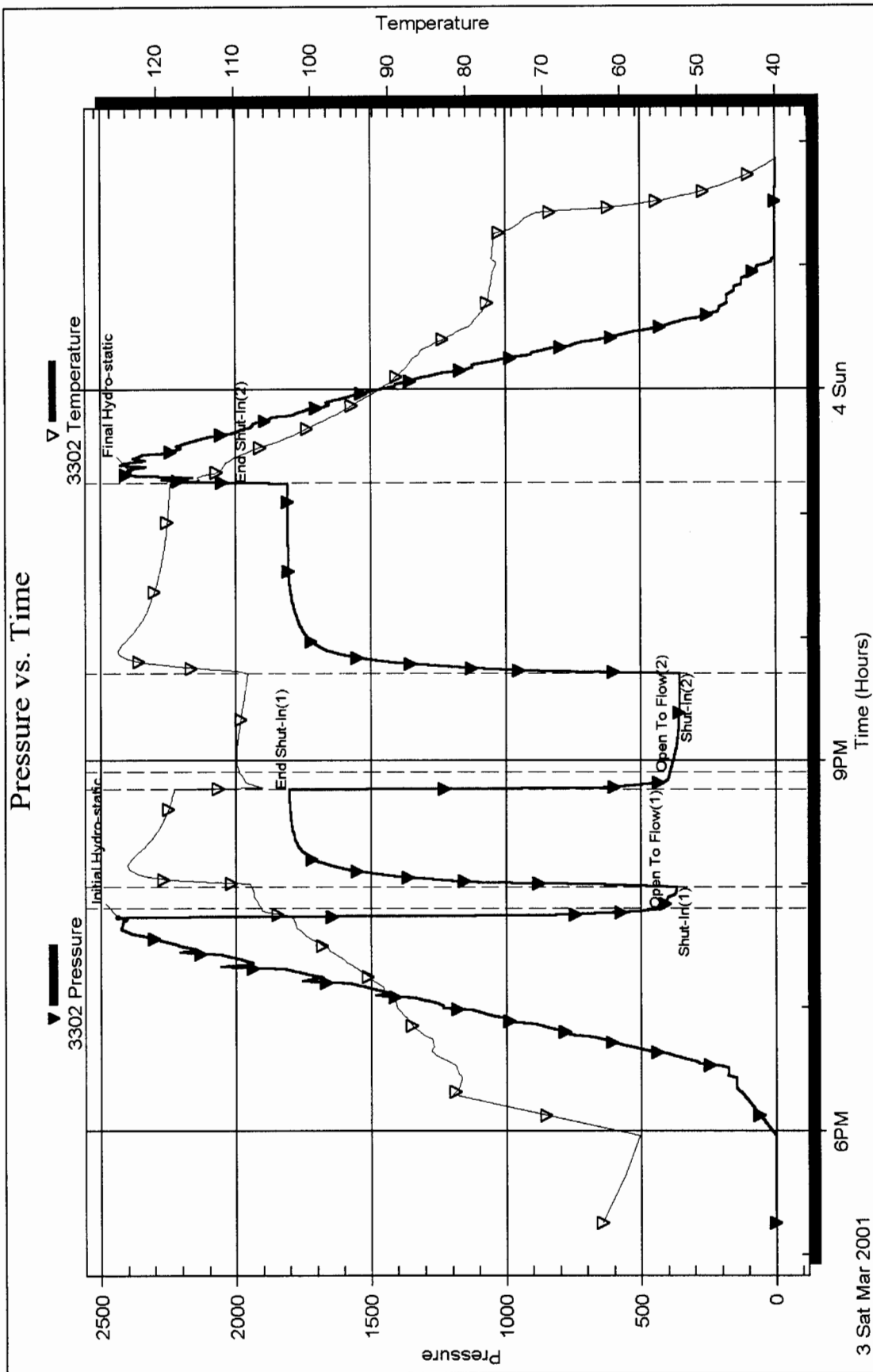
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1-32s-20w Comanche

Inside American Warrior, In

Serial #: 3302

Pressure vs. Time



KCC

MAY 30 2001

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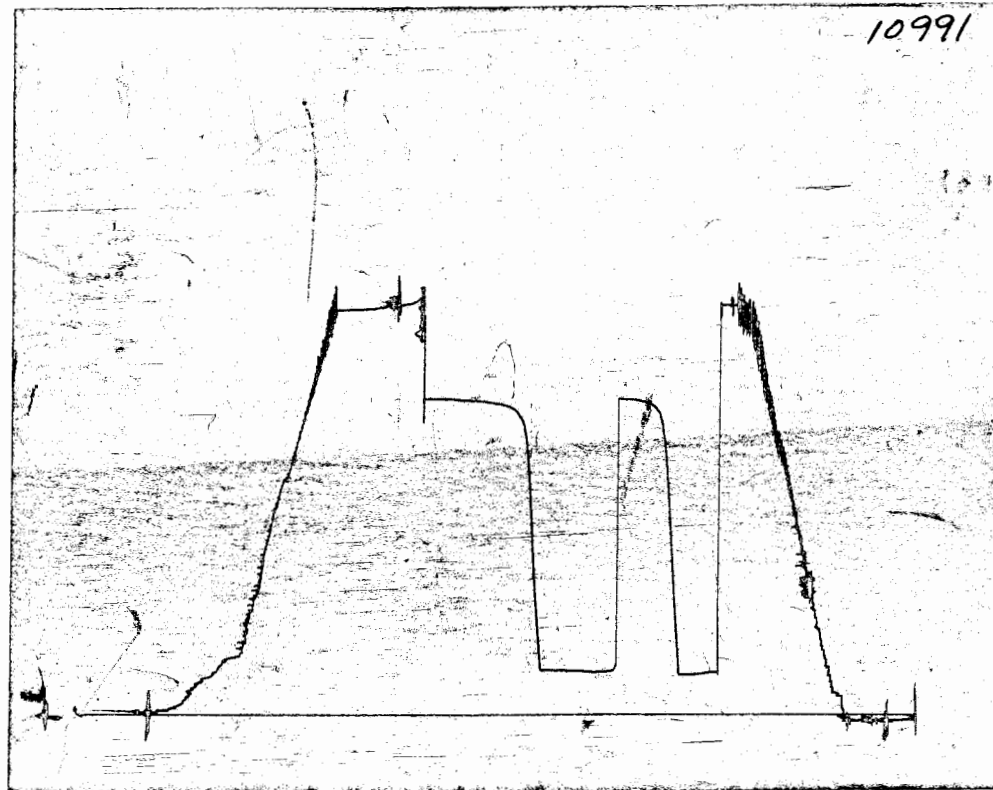
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Ref. No: 13592

Trilobite Testing, Inc

CHART PAGE

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





GAS VOLUME REPORT

Thies #1

(Supre.)

DST NO.

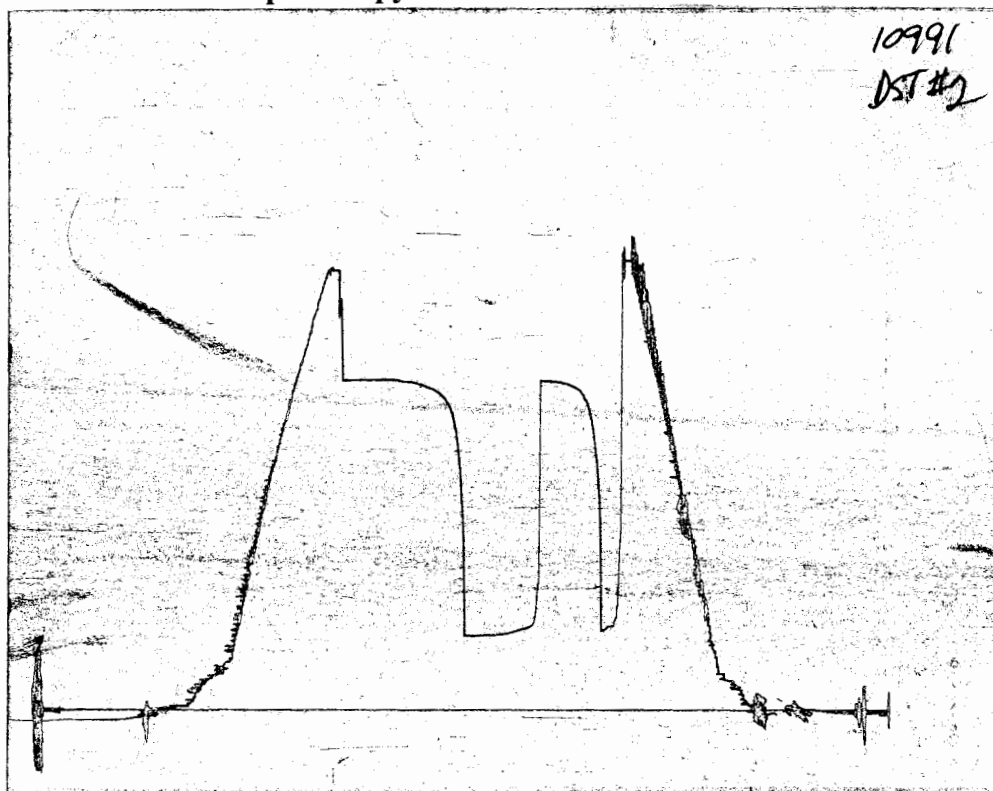
GTS 15 min. on Final Flow

[illegible]

101 NCR

CHART PAGE

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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13591

Test Ticket

Well Name & No.	<u>Thies #1</u>	Test No.	<u>#1</u>	Date	<u>03/01/01</u>
Company	<u>American Warrior, Inc</u>	Zone Tested	<u>(Swope)</u>		
Address	<u>P.O. box 0399 Garden City, KS. 67846-0399</u>	Elevation	<u>2089</u>	KB	<u>2076</u> GL
Co. Rep / Geo.	<u>Alan Downing</u>	Cont.	<u>Duke #7</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>1</u>	Twp.	<u>32S</u>	Rge.	<u>20W</u> Co. <u>Comanche</u> State <u>KS</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>4800' - 4830'</u>	Initial Str Wt./Lbs.	<u>77,000</u>	Unseated Str Wt./Lbs.	<u>77,000</u>
Anchor Length	<u>30'</u>	Wt. Set Lbs.	<u>2,000</u>	Wt. Pulled Loose/Lbs.	<u>110,000</u>
Top Packer Depth	<u>4795'</u>	Tool Weight	<u>2100</u>		
Bottom Packer Depth	<u>4800'</u>	Hole Size — 7 7/8" ☒		Rubber Size — 6 3/4" ☒	
Total Depth	<u>4830'</u>	Wt. Pipe Run	<u>N/A</u>	Drill Collar Run	<u>353'</u>
Mud Wt. <u>9.0</u> LCM <u>0</u> Vis. <u>50</u> WL <u>10.4</u>		Drill Pipe Size <u>4 1/2 x 4</u>		Ft. Run	<u>4450.46</u>
Blow Description	<u>IF: Fail blow built to S.O.B in 9 mins.</u>				
	<u>ISI: Bled down for 10 mins. Slight blow back 1/4 - 1/2" in H2O</u>				
	<u>FF: Strong blow built to S.O.B in 3 mins 675 in 15 Gauge Gas.</u>				
	<u>EOT: Bled down for 10 mins built back to 6" in H2O bucket.</u>				
Recovery — Total Feet	<u>900'</u>	GIP	<u>3903'</u>	Ft. in DC	<u>353'</u>
				Ft. in DP	<u> </u>
Rec. <u>120'</u>	Feet Of	<u>SGCM</u>	<u>4</u> %gas	%oil	%water <u>96</u> %mud
Rec. <u>250'</u>	Feet Of	<u>650CM</u>	<u>30</u> %gas	<u>5</u> %oil	%water <u>65</u> %mud
Rec. <u>530'</u>	Feet Of	<u>405GCM</u>	<u>20</u> %gas	<u>40</u> %oil	%water <u>40</u> %mud
Rec. <u>3903'</u>	Feet Of	<u>Gas in pipe</u>	%gas	%oil	%water %mud
Rec. <u> </u>	Feet Of	<u> </u>	%gas	%oil	%water %mud
BHT <u> </u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>		
RW <u> </u> @ <u> </u> °F	Chlorides <u> </u> ppm	Recovery Chlorides <u>6000</u> ppm	System <u> </u>		

(A) Initial Hydrostatic Mud	<u>2261</u>	AK-1	<u>2306</u>	Alpine	PSI	Recorder No.	<u>3302 I</u>	T-On Location	<u>2045</u>
(B) First Initial Flow Pressure	<u>245</u>		<u>258</u>		PSI	(depth)	<u>4801'</u>	T-Started	<u>2140</u>
(C) First Final Flow Pressure	<u>234</u>		<u>236</u>		PSI	Recorder No.	<u>10991 0</u>	T-Open	<u>2350</u>
(D) Initial Shut-In Pressure	<u>1755</u>		<u>1770</u>		PSI	(depth)	<u>4827'</u>	T-Pulled	<u>0320</u>
(E) Second Initial Flow Pressure	<u>255</u>		<u>239</u>		PSI	Recorder No.	<u> </u>	T-Out	<u>0645</u>
(F) Second Final Flow Pressure	<u>255</u>		<u>269</u>		PSI	(depth)	<u> </u>	T-Off Location	<u>0845</u>
(G) Final Shut-in Pressure	<u>1755</u>		<u>1766</u>		PSI	Initial Opening	<u>30</u>	Test	<u>✓ 800</u>
(Q) Final Hydrostatic Mud	<u>2353</u>		<u>2304</u>		PSI	Initial Shut-in	<u>45</u>	Jars	<u>✓ 200</u>
						Final Flow	<u>45</u>	Safety Joint	<u>✓ 50</u>
						Final Shut-in	<u>90</u>	Straddle	<u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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 AL

Our Representative Dan L. Scherine

Extra Packer
Elec. Rec. ✓ 150
Mileage 65 mi
Other 30
TOTAL PRICE \$ 1295

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13592

Test Ticket

Well Name & No.	<u>Thies #1</u>	Test No.	<u>#2</u>	Date	<u>03/03/01</u>
Company	<u>American Warrior, Inc.</u>	Zone Tested	<u>MISS.</u>		
Address	<u>P.O. box 399 Garden City, Ks. 67846-0399</u>	Elevation	<u>2089</u>	KB	<u>2076</u> GL
Co. Rep / Geo.	<u>Akan Downing</u>	Cont.	<u>Duke #7</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>1</u>	Twp.	<u>32^S</u>	Rge.	<u>20^W</u> Co. <u>Comanche</u> State <u>KS</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>5103' - 5225'</u>	Initial Str Wt./Lbs.	<u>80,000</u>	Unseated Str Wt./Lbs.	<u>80,000</u>
Anchor Length	<u>122'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>120,000</u>
Top Packer Depth	<u>5098'</u>	Tool Weight	<u>2100</u>		
Bottom Packer Depth	<u>5103'</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Total Depth	<u>5225'</u>	Wt. Pipe Run	<u>N/A</u>	Drill Collar Run	<u>353.54'</u>
Mud Wt. <u>8.8</u> LCM <u>3#</u> Vis. <u>47</u> WL <u>6.4</u>		Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>4824'</u>
Blow Description	<u>TF: Strong blow b.o.b in 20 sec. GTS in 3 mins. Gauge Gas.</u> <u>TSI: Bleed down for built back to 4" in 1/20 bucket.</u> <u>FF: Strong blow built to b.o.b in 10 sec. Gauge Gas.</u> <u>FSI: Bleed down for 30 mins. built back to 8" in 1/20 bucket.</u>				
Recovery — Total Feet	<u> </u>	GIP	<u> </u>	Ft. in DC	<u> </u>
Rec. <u>445</u>	Feet Of	<u>56CM</u>	%gas	%oil	%water %mud
Rec. <u>4641</u>	Feet Of	<u>Gas In pipe</u>	%gas	%oil	%water %mud
Rec. <u> </u>	Feet Of	<u> </u>	%gas	%oil	%water %mud
Rec. <u> </u>	Feet Of	<u> </u>	%gas	%oil	%water %mud
Rec. <u> </u>	Feet Of	<u> </u>	%gas	%oil	%water %mud
BHT <u>118°</u>	°F Gravity	°API D@	°F Corrected Gravity	°API	
RW <u> </u>	@ <u> </u>	°F Chlorides	ppm Recovery	Chlorides <u>10,500</u>	ppm System

(A) Initial Hydrostatic Mud	<u>2533</u>	AK-1	<u>2438</u>	Alpine	PSI Recorder No.	<u>3302</u>	T-On Location	<u>1630</u>
(B) First Initial Flow Pressure	<u>479</u>		<u>359</u>	<u>417</u>	PSI (depth)	<u>5104'</u>	T-Started	<u>1715</u>
(C) First Final Flow Pressure	<u>458</u>		<u>369</u>		PSI Recorder No.	<u>10991</u>	T-Open	<u>1941</u>
(D) Initial Shut-In Pressure	<u>1861</u>		<u>1803</u>		PSI (depth)	<u>5222' 0</u>	T-Pulled	<u>2311</u>
(E) Second Initial Flow Pressure	<u>468</u>		<u>393</u>		PSI Recorder No.	<u> </u>	T-Out	<u>0151</u>
(F) Second Final Flow Pressure	<u>468</u>		<u>357</u>		PSI (depth)	<u> </u>	T-Off Location	<u>0300</u>
(G) Final Shut-in Pressure	<u>1871</u>		<u>1950</u>		PSI Initial Opening	<u>15</u>	Test	<u>✓ 900</u>
(Q) Final Hydrostatic Mud	<u>2523</u>		<u>2394</u>		PSI Initial Shut-in	<u>45</u>	Jars	<u>✓ 200</u>
					Final Flow	<u>60</u>	Safety Joint	<u>✓ 50</u>
					Final Shut-in	<u>90</u>	Straddle	<u> </u>

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Approved By [Signature]
Our Representative Darwin J. Blume

Circ. Sub
Sampler
Extra Packer
Elec. Rec. ✓ 150
Mileage 65
Other
TOTAL PRICE \$ 1365