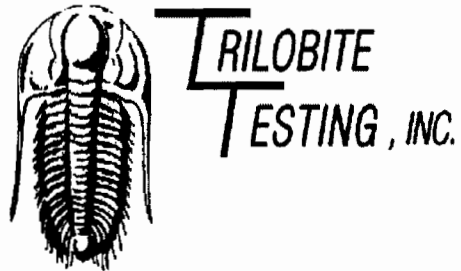


15-033-21234

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KCC WICHITA



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

Garden City KS 67846

ATTN: Al Downing

25-31S-20W Comanche

Judith #2

Start Date: 2001.07.02 @ 15:55:06

End Date: 2001.07.02 @ 23:42:21

Job Ticket #: 14807 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 Inc.

Garden City KS 67846

ATTN: Al Downing

Judith #2

25-31S-20W Comanche

Job Ticket: 14807

DST#: 1

Test Start: 2001.07.02 @ 15:55:06

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:45:21

Time Test Ended: 23:42:21

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **5022.00 ft (KB) To 5176.00 ft (KB) (TVD)**

Total Depth: 5176.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2052.00 ft (KB)

2039.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 3289

Inside

Press@RunDepth: 102.68 psig @ 5024.00 ft (KB)

Start Date: 2001.07.02

End Date:

2001.07.02

Start Time: 15:55:11

End Time:

23:42:20

Capacity: 7000.00 psig

Last Calib.: 2001.01.03

Time On Btm: 2001.07.02 @ 17:38:21

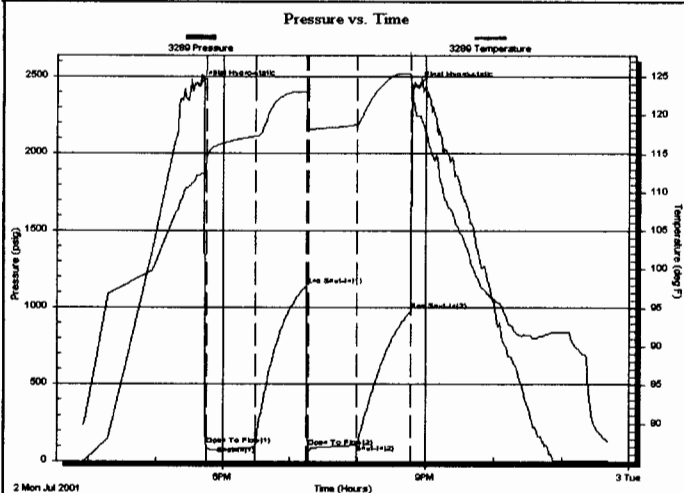
Time Off Btm: 2001.07.02 @ 20:52:21

TEST COMMENT: Strong OBB in 1 min. GTS in 14 min. See flow chart. I.F.P.

No blow-back. I.S.I.P.

See flow chart. F.F.P. "Gas burned."

No Blow-back. F.S.I.P.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2444.27	112.28	Initial Hydro-static
7	99.98	114.26	Open To Flow (1)
51	91.59	117.29	Shut-In(1)
96	1140.47	123.02	End Shut-In(1)
98	87.70	118.27	Open To Flow (2)
141	102.68	118.79	Shut-In(2)
189	977.93	125.30	End Shut-In(2)
194	2436.74	119.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4827 ft. GIP	0.00
180.00	Sli Gas cut Mud 4%G 96%M	0.89

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.50	6.33
Last Gas Rate	0.13	13.40	10.40
Max. Gas Rate	0.13	14.00	10.63



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

Judith #2

Garden City KS 67846

25-31S-20W Comanche

Job Ticket: 14807

DST#: 1

ATTN: Al Downing

Test Start: 2001.07.02 @ 15:55:06

Tool Information

Drill Pipe:	Length: 4707.00 ft	Diameter: 3.80 inches	Volume: 66.03 bbl	Tool Weight: 3800.00 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: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 16000.00 lb
		Total Volume:	67.51 bbl	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	5022.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	154.00 ft			
Tool Length:	181.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4996.00	
S.I. Tool	5.00			5001.00	
HMV	5.00			5006.00	
Jars	5.00			5011.00	
Safety Joint	2.00			5013.00	
Packer	4.00			5017.00	27.00 Bottom Of Top Packer
Packer	5.00			5022.00	
Stubb	1.00			5023.00	
Perforations	1.00			5024.00	
Recorder	0.00	3289	Inside	5024.00	
Perforations	28.00			5052.00	
C.O. Sub	1.00			5053.00	
Blank Spacing	120.00			5173.00	
Recorder	0.00	10242	Inside	5173.00	
C.O. Sub	1.00			5174.00	
Bullnose	2.00			5176.00	154.00 Bottom Packers & Anchor
Total Tool Length:		181.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

Judith #2

Garden City KS 67846

25-31S-20W Comanche

Job Ticket: 14807

DST#: 1

ATTN: Al Dow ning

Test Start: 2001.07.02 @ 15:55:06

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4827 ft. GIP	0.000
180.00	Sli Gas cut Mud 4%G 96%M	0.885

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: 1

Laboratory Name: Caraw ay

Laboratory Location: Liberal KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

American Warrior Inc.

Judith #2

Garden City KS 67846

25-31S-20W Comanche

Job Ticket: 14807

DST#: 1

ATTN: Al Downing

Test Start: 2001.07.02 @ 15:55:06

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
1	20	0.13	2.50	6.33
1	20	0.13	2.50	6.33
1	30	0.13	8.00	8.38
1	40	0.13	12.50	10.07
1	45	0.13	14.00	10.63
2	10	0.13	5.00	7.26
2	20	0.13	8.40	8.53
2	30	0.13	11.20	9.58
2	40	0.13	13.40	10.40

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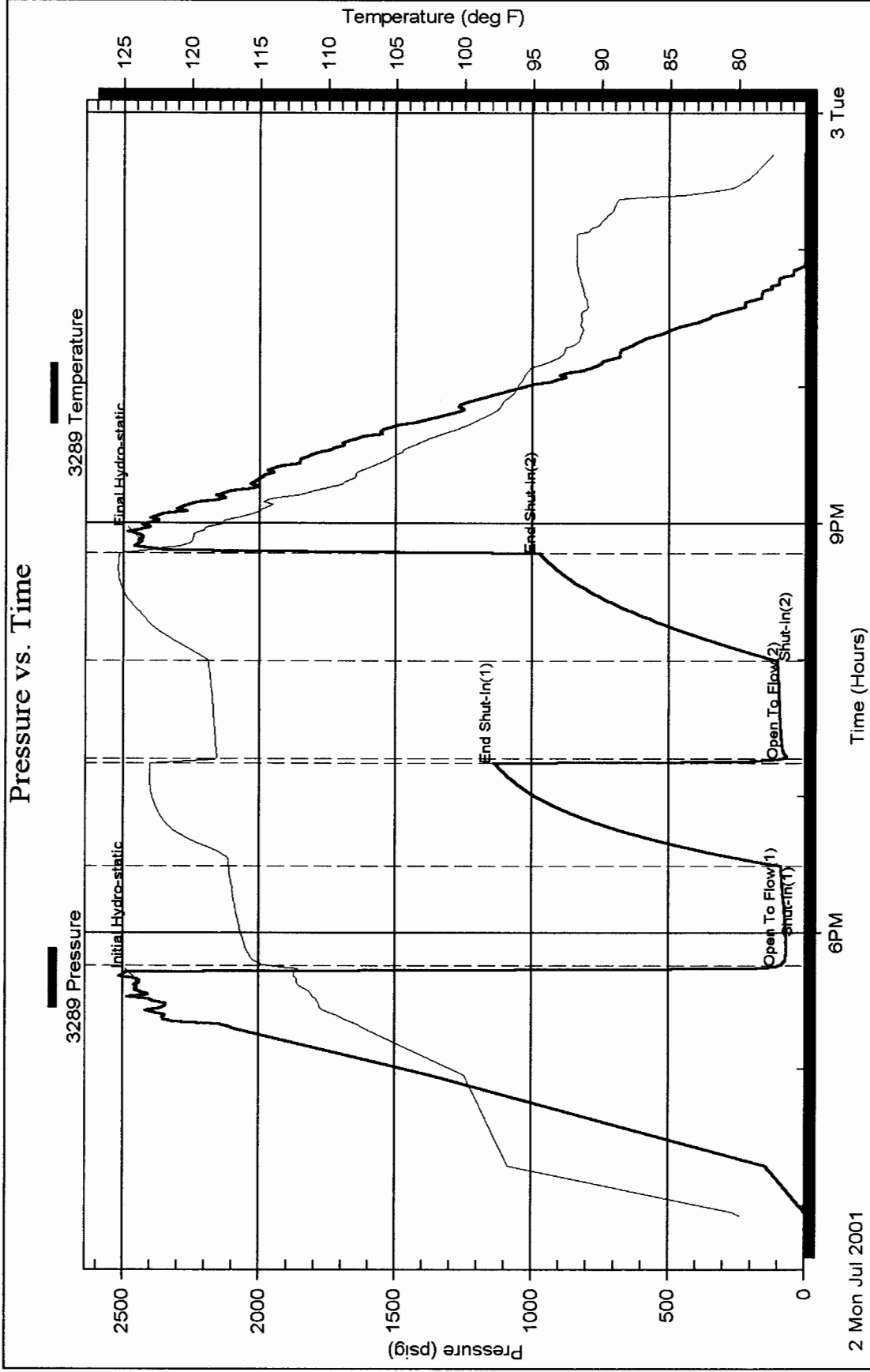
Serial #: 3289

Inside

American Warrior Inc.

25-31S-20W Comanche

DST Test Number: 1



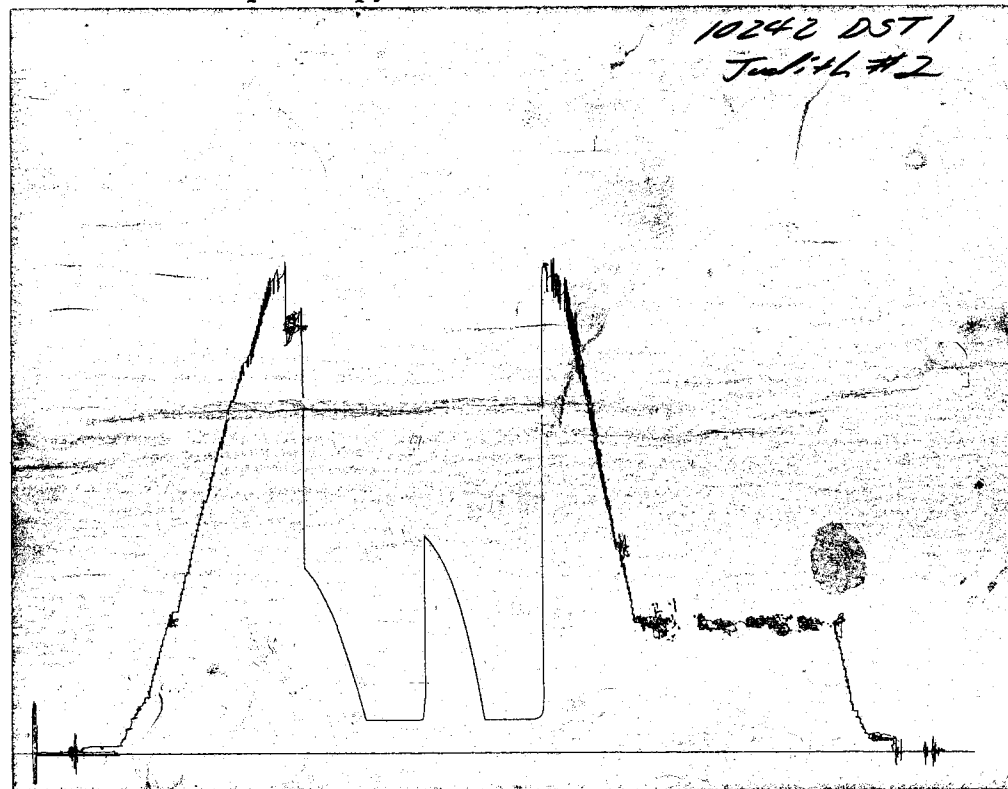
Trilobite Testing, Inc

Ref. No: 14807

Printed: 2001.07.06 @ 09:06:12 Page 6

CHART PAGE

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





GAS VOLUME REPORT

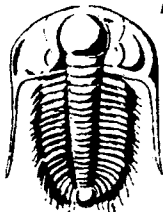
DST NO.

DST NO.

T.F.P.

F.F.P.

Remarks: Gas burned.
1 sample to Caraway.



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14807

Test Ticket

Well Name & No. <u>Judith #2</u>	Test No. <u>1</u>	Date <u>7-2-2001</u>
Company <u>American Warrior Inc.</u>	Zone Tested <u>Miss</u>	
Address <u>G.C. KS 67846</u>	Elevation <u>2052</u> KB <u>2039</u> GL	
Co. Rep / Geo. <u>Al Dunning</u>	Cont. <u>Duke Rig 7</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>25</u> Twp. <u>31S</u> Rge. <u>20W</u>	Co. <u>Comanche</u> State <u>KS</u>	
No. of Copies <u>Reg</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>5022-5176</u>	Initial Str Wt./Lbs. <u>74000</u>	Unseated Str Wt./Lbs. <u>74000</u>
Anchor Length <u>154'</u> Tool = <u>27</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>16,000</u>
Top Packer Depth <u>5017</u>	Tool Weight <u>3,800</u>	
Bottom Packer Depth <u>5022</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>5176</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>300</u>
Mud Wt. <u>9.2</u> LCM <u>3#</u> Vis. <u>51</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4707 12 1/2</u>
Blow Description <u>Stung QRB in 1 min. GTS in 14 min. See Flow Chart. T.F.P.</u>		
<u>No blow-back T.S.T.P. "Gas burned"</u>		
<u>See Flow Chart. F.F.P.</u>		
<u>No blow-back. F.S.T.P.</u>		

Recovery — Total Feet <u>180</u>	GIP <u>4827</u>	Ft. in DC <u>180</u>	Ft. in DP <u>0</u>
Rec. <u>180</u>	Feet Of <u>5 1/2 Gas cut mud</u>	4 %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
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil %water %mud
BHT <u>125</u>	°F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u> °API
RW <u> </u> @ <u> </u>	°F Chlorides <u> </u>	ppm Recovery	Chlorides <u>6,000</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2444</u>	PSI	Recorder No. <u>3289 "15:55"</u>	T-On Location	<u>2:30 PM</u>
(B) First Initial Flow Pressure	<u>99</u>	PSI	(depth) <u>5024</u>	T-Started	<u>3:55 PM</u>
(C) First Final Flow Pressure	<u>91</u>	PSI	Recorder No. <u>10242</u>	T-Open	<u>5:45 PM</u>
(D) Initial Shut-In Pressure	<u>1140</u>	PSI	(depth) <u>5173</u>	T-Pulled	<u>8:45 AM 9-36</u>
(E) Second Initial Flow Pressure	<u>87</u>	PSI	Recorder No. <u> </u>	T-Out	<u>12:00 AM</u>
(F) Second Final Flow Pressure	<u>102</u>	PSI	(depth) <u> </u>	T-Off Location	<u> </u>
(G) Final Shut-in Pressure	<u>977</u>	PSI	Initial Opening <u>45</u>	Test	<u>900</u> ✓
(Q) Final Hydrostatic Mud	<u>2436</u>	PSI	Initial Shut-in <u>45</u>	Jars	<u>200</u> ✓
			Final Flow <u>45</u>	Safety Joint	<u>501</u> ✓
			Final Shut-in <u>45</u>	Straddle	<u> </u>
				Circ. Sub	<u>1</u>
				Sampler	<u> </u>
				Extra Packer	<u> </u>
				Elec. Rec.	<u>150</u>
				Mileage	<u>60</u> ✓
				Other	<u> </u>

70211535.289

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 [Signature]

Our Representative [Signature]

TOTAL PRICE \$ 1,360.00

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: 20012967**Analyzed: 07/06/01**

Sample From: Judith #2 DST 1

Pressure:

Producer: American Warrior, Inc.

Temperature:

Date: 07/02/01**Location: 25-31-20**

Time:

County: Comanche

Sampler: Lanny

State: Kansas

Source:

Formation: Miss

	Mole %	GPM
Helium	He: 0.287	0.000
Hydrogen	H2: 0.214	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 5.482	0.000
Carbon Dioxide	CO2: 0.083	0.000
Methane	C1: 88.612	0.000
Ethane	C2: 3.439	0.920
Propane	C3: 0.748	0.206
Iso Butane	iC4: 0.236	0.077
Normal Butane	nC4: 0.333	0.105
Iso Pentane	iC5: 0.154	0.056
Normal Pentane	nC5: 0.116	0.042
Hexanes Plus	C6+: 0.296	0.129

TOTAL: 100.000 1.536

Z Fact: 0.9979

SP.GR.: 0.6220

BTU (SAT): 1006.6 @ 14.73 psia

BTU (DRY): 1024.4 @ 14.73 psia

OCTANE RATING: 120.2

COMMENTS: Bottle contained liquids

0.000