

## DRILL STEM TEST REPORT

Prepared For: **Kenneth S. White**

2400 N Woodlawn  
Ste #115  
Wichita KS. 67220

ATTN: Tom Robinson

**36-29S-41W Stanton K**

**Cockrum #3**

Start Date: 2002.08.24 @ 10:58:53

End Date: 2002.08.24 @ 18:07:53

Job Ticket #: 15146                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Kenneth S. White

Cockrum #3

36-29S-41W Stanton K

DST # 1

St. Louis

2002.08.24





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Kenneth S. White

**Cockrum #3**

2400 N Woodlaw n  
Ste #115  
Wichita KS. 67220  
ATTN: Tom Robinson

**36-29S-41W Stanton K**

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**DST#: 1**

Test Start: 2002.08.24 @ 10:58:53

### Tool Information

Drill Pipe:	Length: 4985.00 ft	Diameter: 3.80 inches	Volume: 69.93 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 551.00 ft	Diameter: 2.25 inches	Volume: 2.71 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 72.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	5535.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			5513.00	
HMV	5.00			5518.00	
Jars	5.00			5523.00	
Safety Joint	2.00			5525.00	
Packer	5.00			5530.00	27.00 Bottom Of Top Packer
Packer	5.00			5535.00	
Stubb	1.00			5536.00	
Recorder	0.00	3030	Inside	5536.00	
Perforations	24.00			5560.00	
Recorder	0.00	13371	Outside	5560.00	
Bulhose	5.00			5565.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

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ATTN: Tom Robinson

**Cockrum #3**  
**36-29S-41W Stanton K**  
Job Ticket: 15146      DST#: 1  
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### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 43.5 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 300.00 ppm		
Filter Cake: inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
550.00	CGO 45%gas 55%oil	2.705

Total Length: 550.00 ft      Total Volume: 2.705 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Kenneth S. White

**Cockrum #3**

2400 N Woodlaw n

**36-29S-41W Stanton K**

Ste #115

Job Ticket: 15146

**DST#: 1**

Wichita KS. 67220

ATTN: Tom Robinson

Test Start: 2002.08.24 @ 10:58:53

### Gas Rates Information

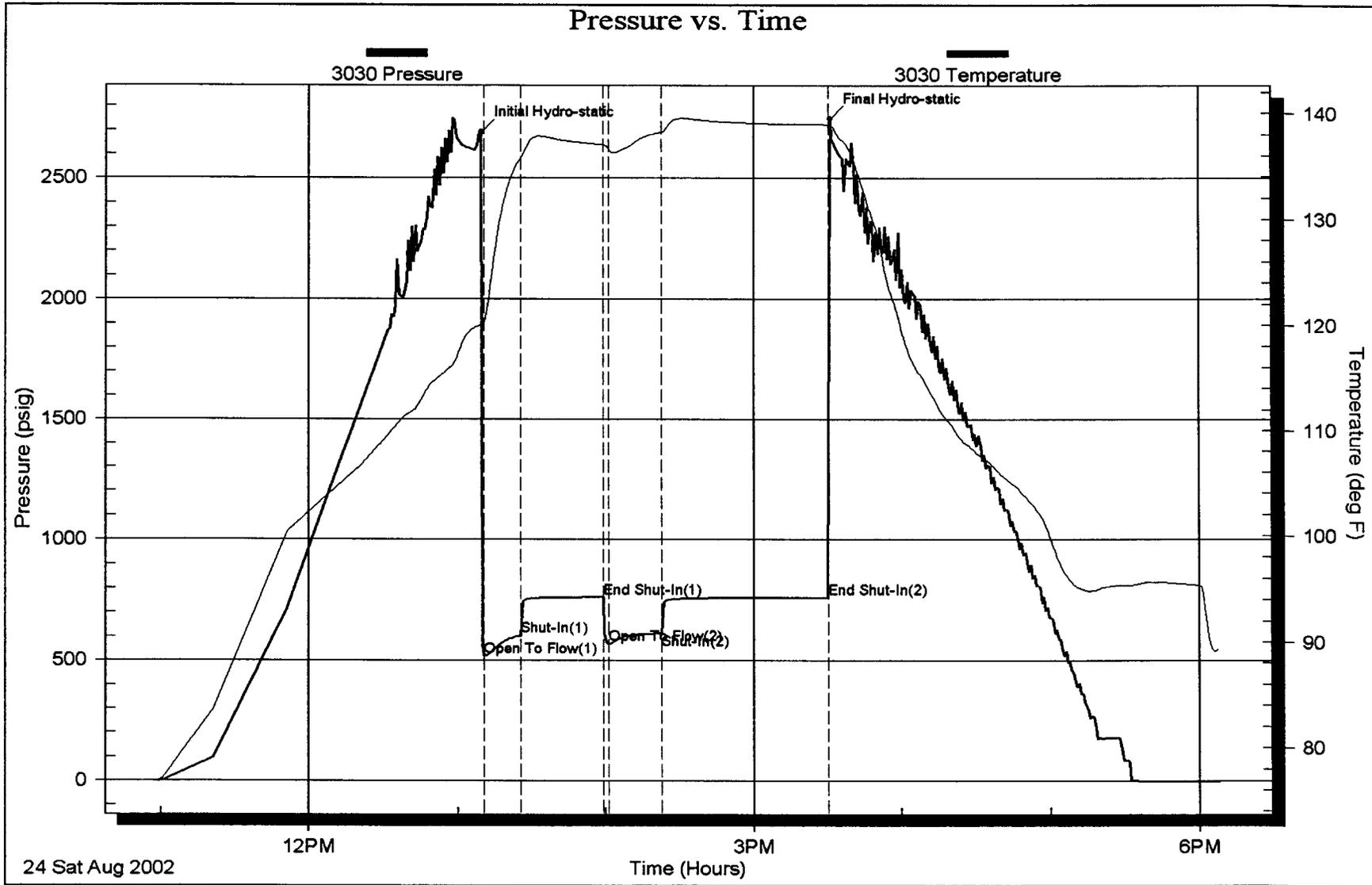
Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
2	10	0.75	90.00	1630.71
2	10	0.75	90.00	1630.71
2	20	0.75	160.00	2724.10





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

*Invoice # 5108 \$1411.00*

No 15146

## Test Ticket

Well Name & No. Cockrum #3 Test No. 1 Date 8-24-02  
 Company Kenneth White Zone Tested St. Louis  
 Address 2400 N. Woodlawn Ste. 115 Wichita, KS. 67226 Elevation 3385 KB 3375 GL  
 Co. Rep / Geo. Tom Robinson Cont. Murfin #14 Est. Ft. of Pay      Por.      %  
 Location: Sec. 36 Twp. 29<sup>S</sup> Rge. 41<sup>W</sup> Co. Stanton State KS  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 5535 - 5565 Initial Str Wt./Lbs. 86,000 Unseated Str Wt./Lbs. 88,000  
 Anchor Length 30' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 100,000  
 Top Packer Depth 5530 Tool Weight 2,000  
 Bottom Packer Depth 5535 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Total Depth 5565 Wt. Pipe Run      Drill Collar Run 551'  
 Mud Wt. 9.1 LCM 3# Vis. 54 WL 7.2 Drill Pipe Size 4 1/2" X4 Ft. Run 4985'

Blow Description IF: Strong blow off btm immed. GTS @ 3 mins  
ISI: Return blow off btm in 2 mins  
FF: Gauged 2724 mcf/day Oil Spray @ 25 mins  
FSI: Return blow off btm in 4 mins

Recovery — Total Feet	GIP GTS	Ft. in DC	Ft. in DP
<u>550'</u>	<u>    </u>	<u>550'</u>	<u>    </u>
Rec. <u>    </u>	Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u>	%water <u>    </u> %mud <u>    </u>
Rec. <u>    </u>	Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u>	%water <u>    </u> %mud <u>    </u>
Rec. <u>550'</u>	Feet Of <u>CGO</u>	<u>45</u> %gas <u>55</u> %oil	%water <u>    </u> %mud <u>    </u>
Rec. <u>    </u>	Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u>	%water <u>    </u> %mud <u>    </u>
Rec. <u>    </u>	Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u>	%water <u>    </u> %mud <u>    </u>

BHT 138° °F Gravity 46 °API D@ 85° °F Corrected Gravity 43.5 °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 300 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2724</u>	<u>    </u>	<u>    </u>	<u>3030</u>	<u>0900</u>
(B) First Initial Flow Pressure	<u>518</u>	<u>    </u>	<u>    </u>	(depth) <u>5536</u>	T-Started <u>1058</u>
(C) First Final Flow Pressure	<u>602</u>	<u>    </u>	<u>    </u>	Recorder No. <u>13371</u>	T-Open <u>1310</u>
(D) Initial Shut-In Pressure	<u>761</u>	<u>    </u>	<u>    </u>	(depth) <u>5560</u>	T-Pulled <u>1530</u>
(E) Second Initial Flow Pressure	<u>568</u>	<u>    </u>	<u>    </u>	Recorder No. <u>    </u>	T-Out <u>1807</u>
(F) Second Final Flow Pressure	<u>613</u>	<u>    </u>	<u>    </u>	(depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure	<u>760</u>	<u>    </u>	<u>    </u>	Initial Opening <u>15</u>	Test <u>900</u>
(Q) Final Hydrostatic Mud	<u>2678</u>	<u>    </u>	<u>    </u>	Initial Shut-in <u>30</u>	Jars <u>X</u> <u>200</u>
				Final Flow <u>30</u>	Safety Joint <u>X</u> <u>50</u>
				Final Shut-in <u>60</u>	Straddle <u>    </u>

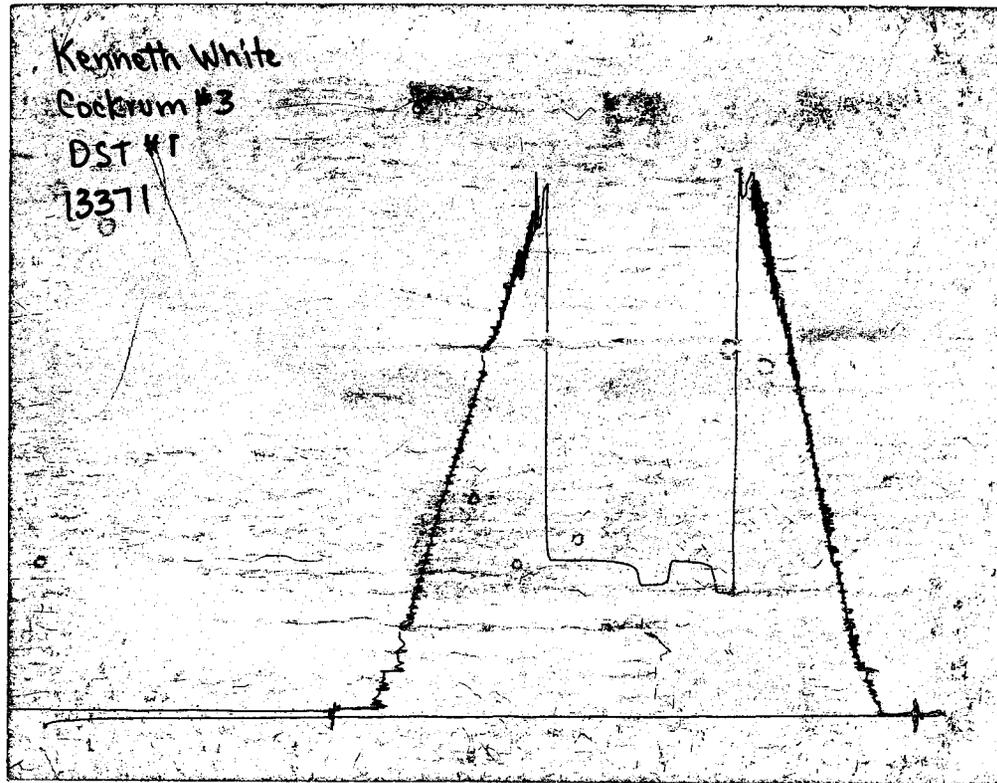
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Approved By Tom J Robinson  
 Our Representative Rod Steinbrink

Circ. Sub X N/C  
 Sampler       
 Extra Packer       
 Elec. Rec. X 150  
 Mileage 111 111  
 Other       
 TOTAL PRICE \$      \$1411.00

# CHART PAGE

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





**JOSEPH GRAVES**  
 (620) 428-6069 Fax      PO Box 253  
 (620) 428-6053 Office      Hugoton, Kansas 67951  
 (620) 428-2277 Cellular      Email: jggs@pld.com

Sample ID:   
 Station #:   
 Name:   
 Code:

Sampled Date:   
 Effective Date:   
 Analysis File:

Components	Mole %	Btu	Gravity	GPM	Gasoline Content
Helium:	0.921	0.000	0.001	0.000	Propane GPM: <input type="text" value="1.418"/>
Hydrogen:	0.012	0.039	0.000	0.000	Butane GPM: <input type="text" value="0.911"/>
Oxygen:	0.000	0.000	0.000	0.000	Gasoline GPM: <input type="text" value="0.651"/>
Nitrogen:	11.605	0.000	0.112	0.000	26# Gasoline GPM: <input type="text" value="0.989"/>
Methane:	71.383	722.636	0.395	0.000	
Carbon Dioxide:	0.231	0.000	0.004	0.000	
Hydrogen Sulfide:	0.000	0.000	0.000	0.000	
Ethane:	6.140	108.905	0.064	1.642	
Propane:	5.140	129.627	0.078	1.416	
i-Butane:	0.914	29.791	0.018	0.299	
n-Butane:	1.940	63.435	0.039	0.612	
i-Pentane:	0.527	21.134	0.013	0.193	
n-Pentane:	0.614	24.672	0.015	0.222	
Hexanes+C8:	0.573	29.458	0.018	0.236	
Ideal Total:	100.000	1129.697	0.759	4.620	

Gross BTU/Real Cu. Ft. (@ 60 deg F, 14.730 PSIA)

Dry:

Sat:

(1.000 lbs. water/MMCF)

Gas Compressibility:

Real Gravity Calculated:

H2S PPM:

Comments: KEN WHITE

**Analyst: Joseph H. Graves**