

**DRILL STEM TEST REPORT**

Prepared For: **Great Plains Petroleum, Inc.**

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares  
**ORIGINAL**

**23-34S-29W Meade KS**

**Cimmarron Bluff #1**

Start Date: 2001.12.30 @ 08:55:41

End Date: 2001.12.30 @ 11:07:36

Job Ticket #: 15028                      DST #: 1

**RECEIVED**  
KANSAS CORPORATION COMMISSION

**OCT 17 2002**

CONSERVATION DIVISION  
WICHITA, KS

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

Great Plains Petroleum, Inc.

Cimmarron Bluff #1

23-34S-29W Meade KS


DST # 1

Council Grove

2001.12.30



ORIGINAL

 <p><b>TRILOBITE TESTING, INC</b></p>	<b>DRILL STEM TEST REPORT</b>		<b>TOOL DIAGRAM</b>
	Great Plains Petroleum, Inc. 221 Circle Drive Wichita, KS 67218 ATTN: Rod Phares	<b>Cimmarron Bluff #1</b> <b>23-34S-29W Meade KS</b> Job Ticket: 15028      DST#: 1 Test Start: 2001.12.30 @ 08:55:41	

**Tool Information**

Drill Pipe: Length: 2031.00 ft	Diameter: 3.80 inches	Volume: 28.49 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe: Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar: Length: 496.00 ft	Diameter: 2.25 inches	Volume: 2.44 bbl	Weight to Pull Loose: 110000.0 lb
Total Volume: 30.93 bbl			Tool Chased 6.00 ft
Drill Pipe Above KB: 5.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer: 2542.00 ft			Final 80000.00 lb
Depth to Bottom Packer: ft			
Interval between Packers: 108.00 ft			
Tool Length: 128.00 ft			
Number of Packers: 2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			2527.00	
HMV	5.00			2532.00	
Packer	5.00			2537.00	20.00      Bottom Of Top Packer
Packer	5.00			2542.00	
Stubb	1.00			2543.00	
Recorder	0.00	3030	Inside	2543.00	
Perforations	7.00			2550.00	
C.O. Sub	1.00			2551.00	
Anchor	93.00			2644.00	
C.O. Sub	1.00			2645.00	
Recorder	0.00	13371	Outside	2645.00	
Bullnose	5.00			2650.00	108.00      Bottom Packers & Anchor

**Total Tool Length: 128.00**



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 15028

DST#: 1

ATTN: Rod Phares

Test Start: 2001.12.30 @ 08:55:41

### 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: 34.00 sec/qt

Cushion Volume:

bbl

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 27000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	Drig. Mud	2.495

Total Length: 500.00 ft

Total Volume: 2.495 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3030

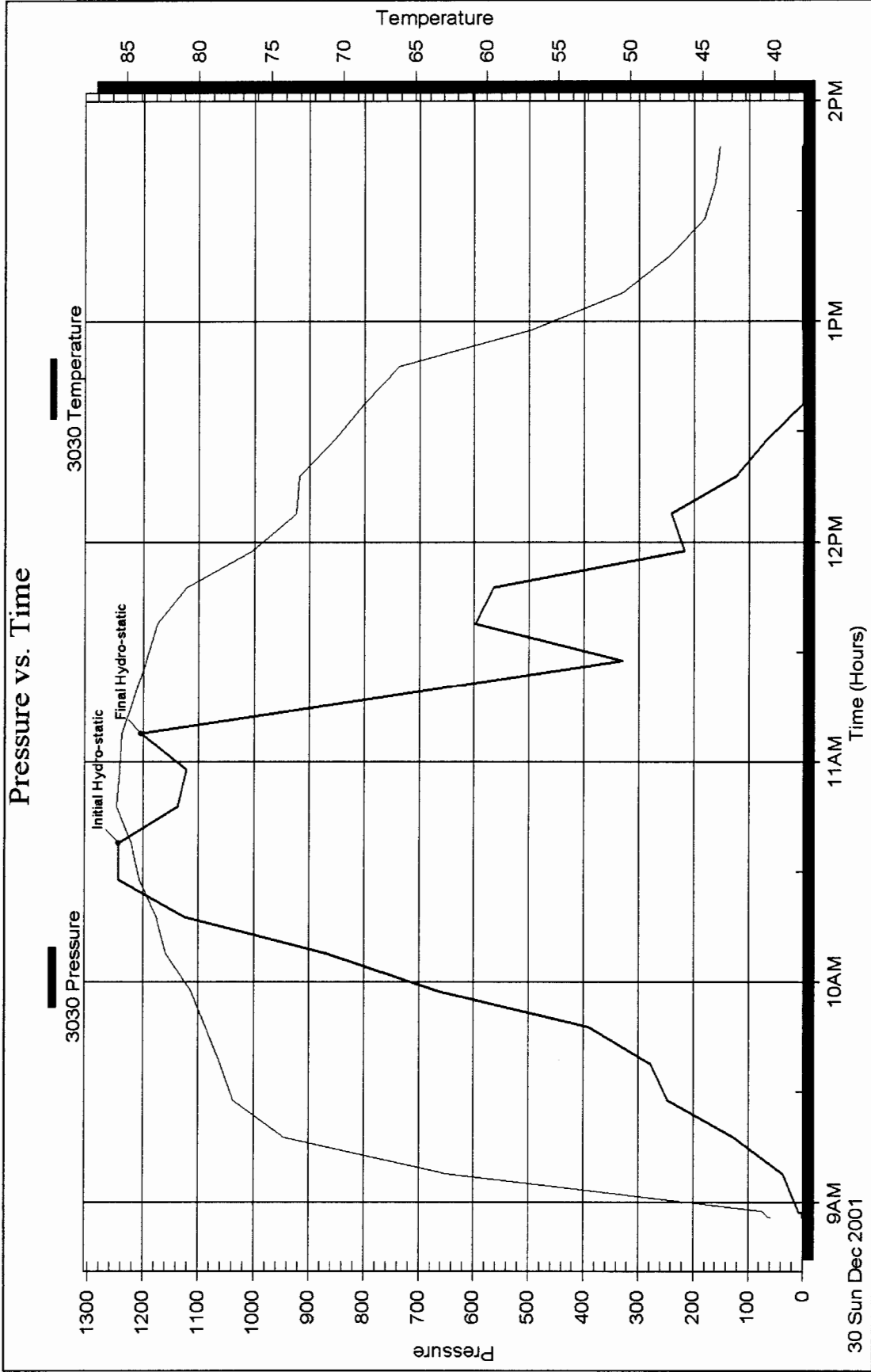
Inside

Great Plains Petroleum, Inc.

23-34S-29W Meade KS

DST Test Number: 1

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Great Plains Petroleum, Inc.**

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares

**23-34S-29W Meade KS**

**Cimmarron Bluff #1**

Start Date: 2001.12.30 @ 19:40:28

End Date: 2001.12.31 @ 02:42:28

Job Ticket #: 15029                      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

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

ATTN: Rod Phares

Job Ticket: 15029      **DST#: 2**

Test Start: 2001.12.30 @ 19:40:28

### GENERAL INFORMATION:

Formation: **Krider**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:42:28

Time Test Ended: 02:42:28

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **2616.00 ft (KB) To 2650.00 ft (KB) (TVD)**

Reference Elevations: 2481.00 ft (KB)

Total Depth: 2650.00 ft (KB) (TVD)

2470.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 3030**

Inside

Press@RunDepth: 915.19 psig @ 2617.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.12.30

End Date:

2001.12.31

Last Calib.: 1899.12.30

Start Time: 19:40:33

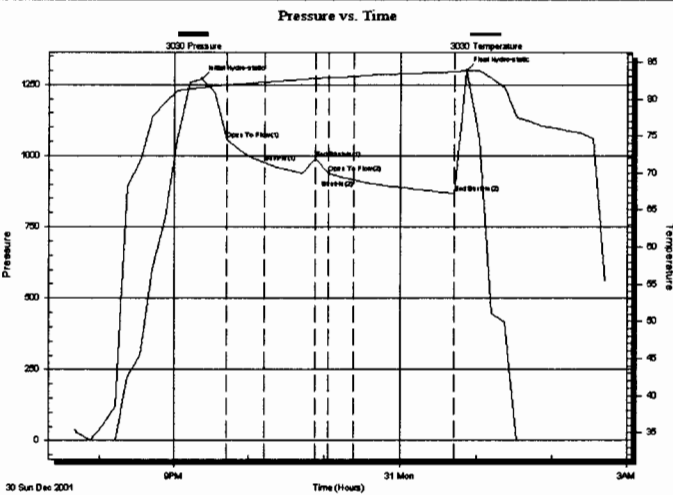
End Time:

02:42:27

Time On Btrn: 2001.12.30 @ 21:22:28

Time Off Btrn: 2001.12.31 @ 00:52:28

**TEST COMMENT:** IF: Weak intermitten surface blow died in 15 mins  
FF: No return blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1270.67	81.55	Initial Hydro-static
20	1058.58	81.85	Open To Flow (1)
50	976.01	82.29	Shut-in(1)
90	989.97	82.78	End Shut-in(1)
100	937.94	82.87	Open To Flow (2)
120	915.19	83.07	Shut-in(2)
200	868.84	83.69	End Shut-in(2)
210	1300.49	83.77	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drig. Mud	0.01

### Gas Rates

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



**TRIOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 15029      **DST#: 2**

ATTN: Rod Phares

Test Start: 2001.12.30 @ 19:40:28

### Tool Information

Drill Pipe:	Length: 2029.00 ft	Diameter: 3.80 inches	Volume: 28.46 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 589.00 ft	Diameter: 2.25 inches	Volume: 2.90 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 31.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	2616.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			2594.00	
HMV	5.00			2599.00	
Jars	5.00			2604.00	
Safety Joint	2.00			2606.00	
Packer	5.00			2611.00	27.00      Bottom Of Top Packer
Packer	5.00			2616.00	
Stubb	1.00			2617.00	
Recorder	0.00	3030	Inside	2617.00	
Perforations	28.00			2645.00	
Recorder	0.00	13371	Outside	2645.00	
Bullnose	5.00			2650.00	34.00      Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 15029

**DST#: 2**

ATTN: Rod Phares

Test Start: 2001.12.30 @ 19:40:28

## 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: 38.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 32000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2.00	Drig. Mud	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3030

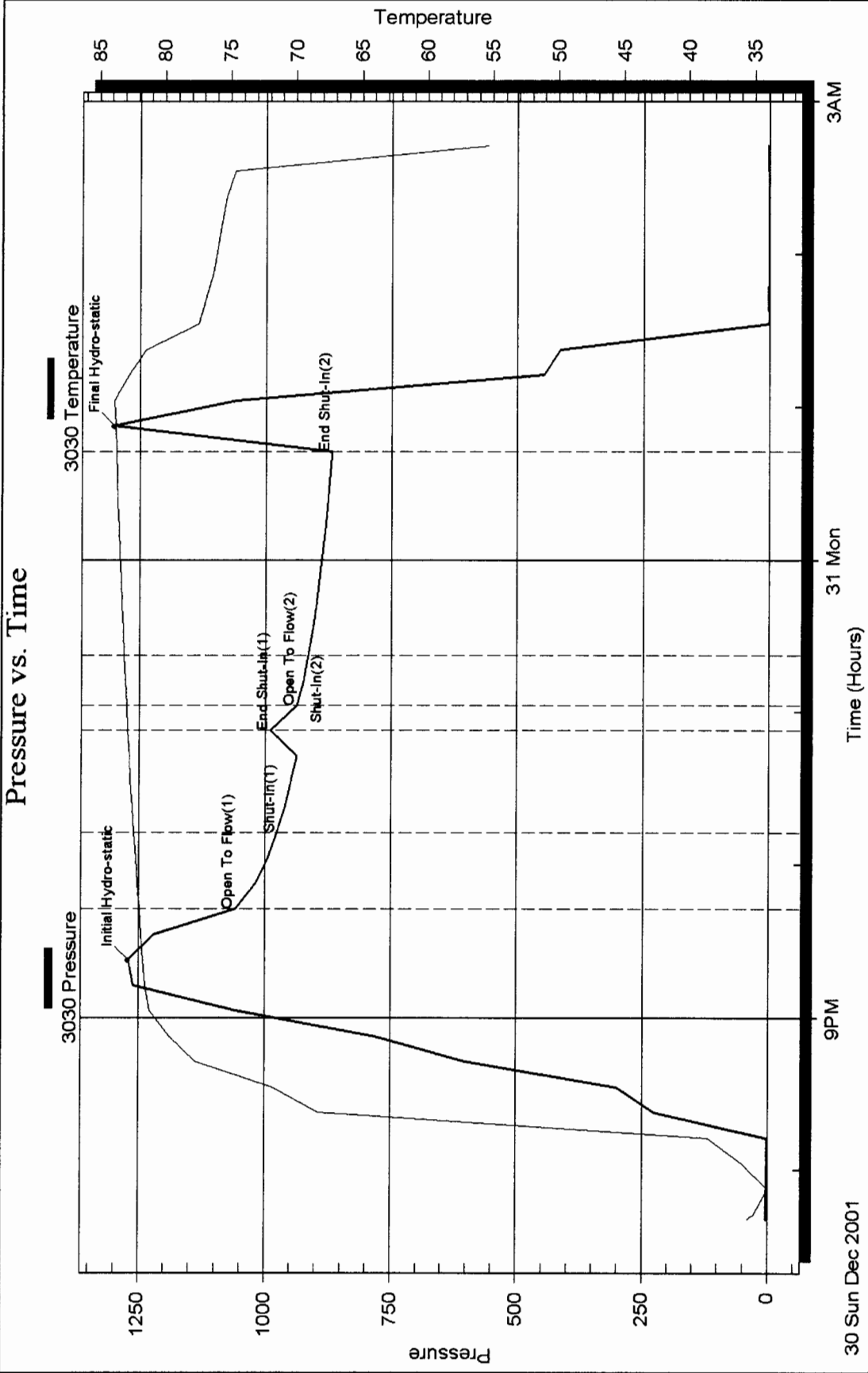
Inside

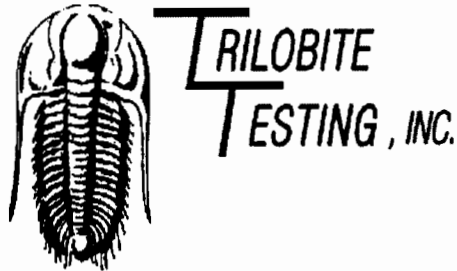
Great Plains Petroleum, Inc.

23-34S-29W Meade KS

DST Test Number: 2

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Great Plains Petroleum, Inc.**

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares

**23-34S-29W Meade KS**

**Cimmarron Bluff #1**

Start Date: 2001.12.31 @ 09:20:19

End Date: 2001.12.31 @ 17:21:49

Job Ticket #: 15030                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

ATTN: Rod Phares

Job Ticket: 15030

**DST#: 3**

Test Start: 2001.12.31 @ 09:20:19

## GENERAL INFORMATION:

Formation: **Winfield**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:00:04

Time Test Ended: 17:21:49

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **2661.00 ft (KB) To 2720.00 ft (KB) (TVD)**

Reference Elevations: 2481.00 ft (KB)

Total Depth: 2720.00 ft (KB) (TVD)

2470.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GRVCF: 11.00 ft

**Serial #: 3030**

Inside

Press@RunDepth: 341.47 psig @ 2662.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.12.31

End Date:

2001.12.31

Last Calib.:

1899.12.30

Start Time: 09:20:24

End Time:

17:21:48

Time On Btm:

2001.12.31 @ 10:59:34

Time Off Btm:

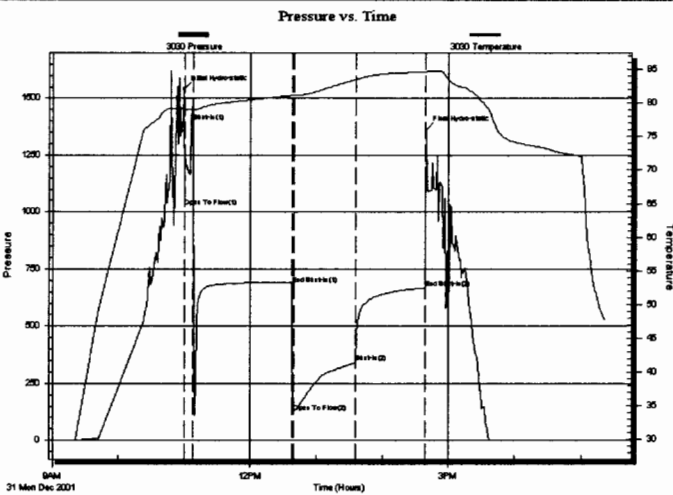
2001.12.31 @ 14:39:34

**TEST COMMENT:** IF: Weak to fair surging blow built to 8" decreased to 5"

IS: No return

FF: Fair to strong blow off btm in 8 mins

FS: Surface return throughout



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1540.14	79.01	Initial Hydro-static
1	1023.95	79.00	Open To Flow (1)
9	1395.00	79.03	Shut-In(1)
99	683.81	81.13	End Shut-In(1)
100	123.97	81.12	Open To Flow (2)
156	341.47	83.49	Shut-In(2)
219	664.04	84.63	End Shut-In(2)
220	1363.58	84.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	WCM 20%WTR 80%MUD	0.74
540.00	SGCW 5%GAS 95%WTR	3.58

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 15030

**DST#: 3**

ATTN: Rod Phares

Test Start: 2001.12.31 @ 09:20:19

### Tool Information

Drill Pipe:	Length: 2057.00 ft	Diameter: 3.80 inches	Volume: 28.85 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: 30000.00 lb
Drill Collar:	Length: 589.00 ft	Diameter: 2.25 inches	Volume: 2.90 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 31.75 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	2661.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			2639.00	
HMV	5.00			2644.00	
Jars	5.00			2649.00	
Safety Joint	2.00			2651.00	
Packer	5.00			2656.00	27.00 Bottom Of Top Packer
Packer	5.00			2661.00	
Stubb	1.00			2662.00	
Recorder	0.00	3030	Inside	2662.00	
Perforations	22.00			2684.00	
C.O. Sub	1.00			2685.00	
Anchor	29.00			2714.00	
C.O. Sub	1.00			2715.00	
Recorder	0.00	13371	Outside	2715.00	
Bullhose	5.00			2720.00	59.00 Bottom Packers & Anchor

**Total Tool Length: 86.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Petroleum, Inc.

**Cimarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 15030

**DST#: 3**

ATTN: Rod Phares

Test Start: 2001.12.31 @ 09:20:19

### 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:

72000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 30000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	WCM 20%WTR 80%MJD	0.738
540.00	SGCW 5%GAS 95%WTR	3.576

Total Length: 690.00 ft      Total Volume: 4.314 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .13 @ 60 deg =

Serial #: 3030

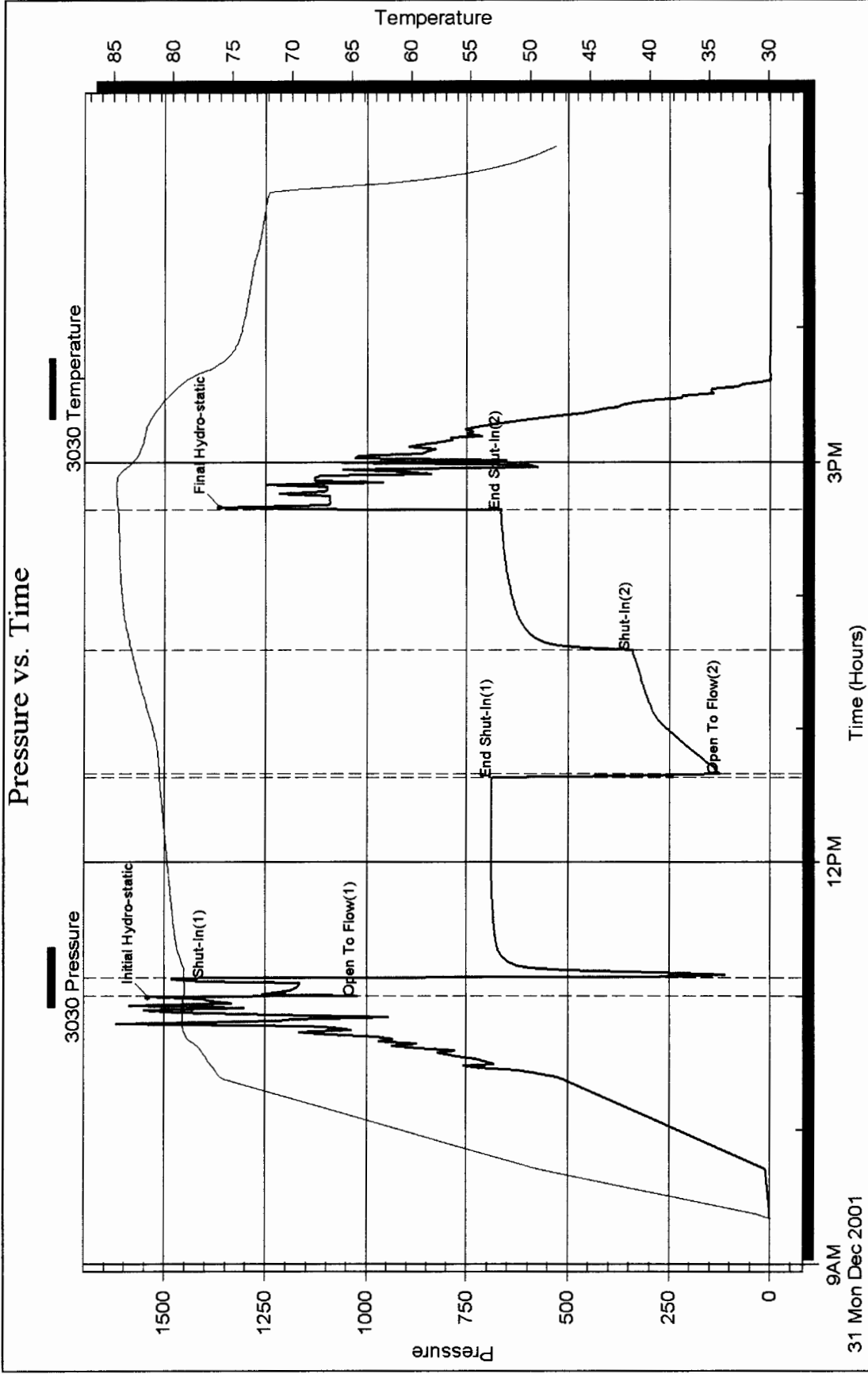
Inside

Great Plains Petroleum, Inc.

23-34S-29W Meade KS

DST Test Number: 3

### Pressure vs. Time



9AM  
31 Mon Dec 2001

12PM

3PM



## DRILL STEM TEST REPORT

Prepared For: **Great Plains Petroleum, Inc.**

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares

**23-34S-29W Meade KS**

**Cimmarron Bluff #1**

Start Date: 2002.01.01 @ 03:26:17

End Date: 2002.01.01 @ 11:12:47

Job Ticket #: 14568                      DST #: 4

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

ATTN: Rod Phares

Job Ticket: 14568

**DST#: 4**

Test Start: 2002.01.01 @ 03:26:17

### GENERAL INFORMATION:

Formation: **Towanva**

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

Time Tool Opened: 05:44:02

Time Test Ended: 11:12:47

Test Type: **Conventional Bottom Hole**

Tester: **Jakki Kreklau**

Unit No: **17**

Interval: **2742.00 ft (KB) To 2770.00 ft (KB) (TVD)**

Reference Elevations: **2481.00 ft (KB)**

Total Depth: **2770.00 ft (KB) (TVD)**

**2470.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **11.00 ft**

**Serial #: 2341**

**Inside**

Press@RunDepth: **80.84 psig @ 2743.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2002.01.01**

End Date:

**2002.01.01**

Last Calib.:

**1899.12.30**

Start Time: **03:26:18**

End Time:

**11:12:47**

Time On Btm:

**2002.01.01 @ 05:43:47**

Time Off Btm:

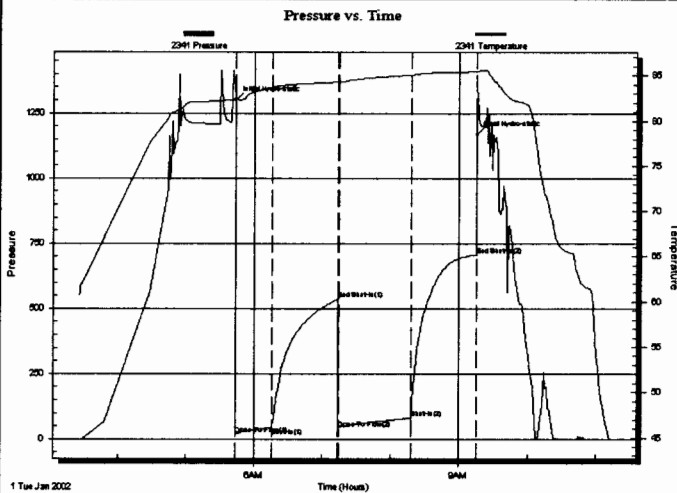
**2002.01.01 @ 09:15:17**

**TEST COMMENT: F- strong blow BOB 2 mins thru opening " no gas"**

**IS- no blow back**

**FF- fair blow built to strong blow BOB 12mins GTS 59 mins into opening gas w ill burn**

**FSI- blow back built to 1/8 inch**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1301.52	82.36	Initial Hydro-static
1	18.18	82.36	Open To Flow (1)
32	43.99	83.71	Shut-In(1)
90	536.16	84.27	End Shut-In(1)
91	39.98	84.26	Open To Flow (2)
155	80.84	85.05	Shut-In(2)
212	705.29	85.42	End Shut-In(2)
212	1167.88	85.42	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
130.00	watery drilg mud 99% mud 1% w water	0.64

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14568

**DST#: 4**

ATTN: Rod Phares

Test Start: 2002.01.01 @ 03:26:17

### Tool Information

Drill Pipe:	Length: 2149.00 ft	Diameter: 3.80 inches	Volume: 30.14 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 588.00 ft	Diameter: 2.25 inches	Volume: 2.89 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 33.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	2742.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 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			2723.00	
S.I. Tool	5.00			2728.00	
HMV	5.00			2733.00	
Packer	5.00			2738.00	20.00 Bottom Of Top Packer
Packer	4.00			2742.00	
Stubb	1.00			2743.00	
Recorder	0.00	2341	Inside	2743.00	
Perforations	24.00			2767.00	
Recorder	0.00	5495	Inside	2767.00	
Bullnose	3.00			2770.00	28.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14568

**DST#: 4**

ATTN: Rod Phares

Test Start: 2002.01.01 @ 03:26:17

**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:

bbf

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 30000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
130.00	watery drilg mud 99% mud 1% w ater	0.639

Total Length: 130.00 ft

Total Volume: 0.639 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, Ks

Recovery Comments:



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

## DRILL STEM TEST REPORT

**GAS RATES**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14568

**DST#: 4**

ATTN: Rod Phares

Test Start: 2002.01.01 @ 03:26:17

### Gas Rates Information

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

Gas Rates Table

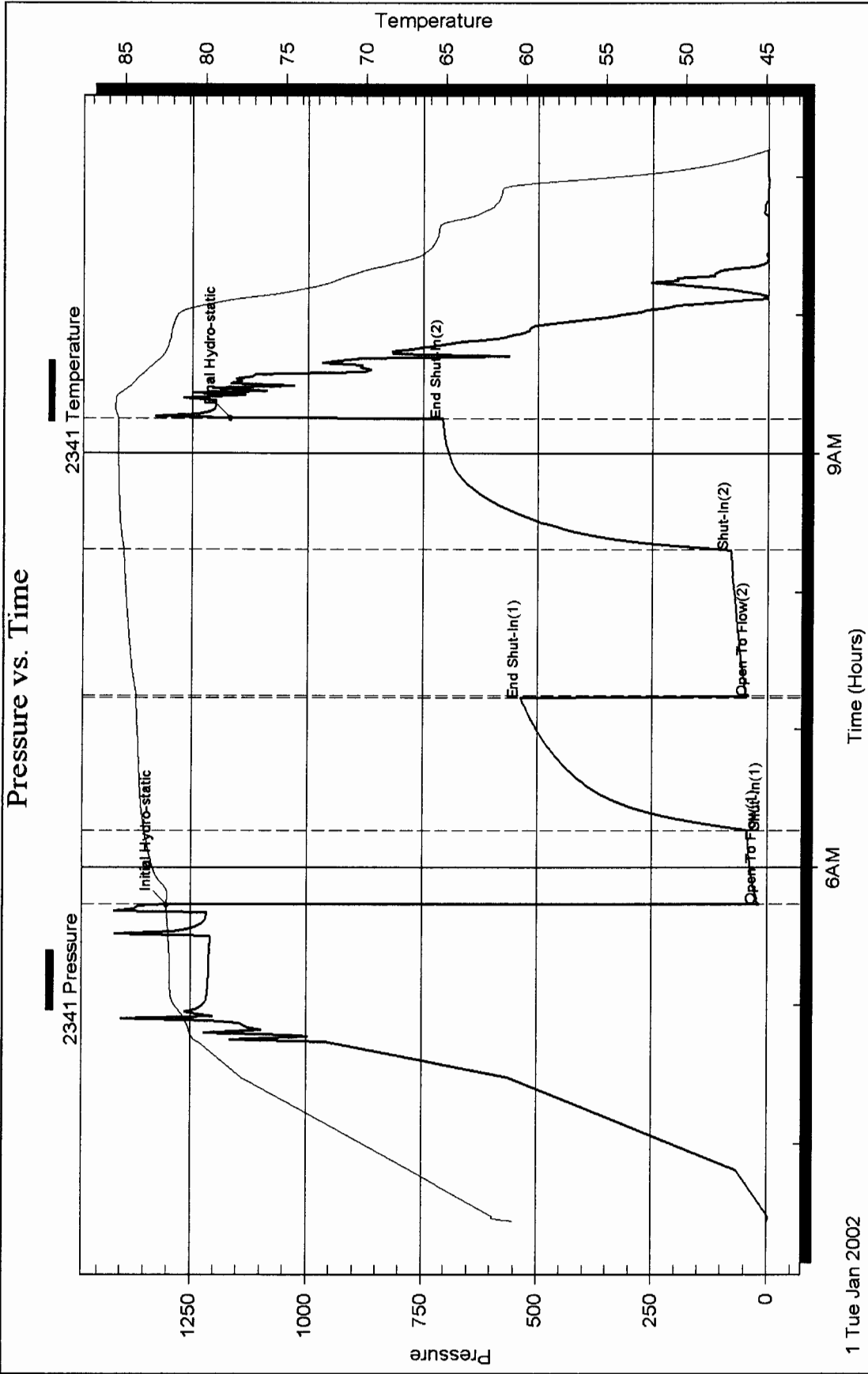
Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
		0.00	0.00	0.00

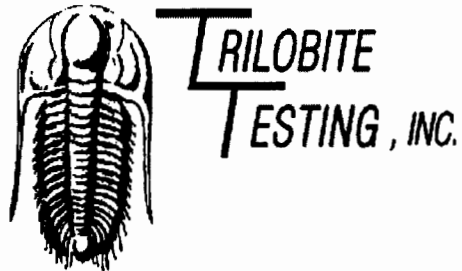
Serial #: 2341

Inside Great Plains Petroleum, Inc.

23-34S-29W Meade KS

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Great Plains Petroleum, Inc.**

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares

**23-34S-29W Meade KS**

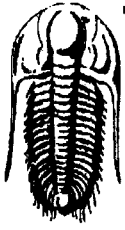
**Cimmarron Bluff #1**

Start Date: 2002.01.02 @ 05:15:00

End Date: 2002.01.02 @ 12:49:00

Job Ticket #: 14569                      DST #: 5

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

ATTN: Rod Phares

Job Ticket: 14569 **DST#: 5**

Test Start: 2002.01.02 @ 05:15:00

## GENERAL INFORMATION:

Formation: **Council Grove "B"**

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

Time Tool Opened: 07:18:30

Time Test Ended: 12:49:00

Test Type: **Conventional Bottom Hole**

Tester: **Jakki Kreklau**

Unit No: **17**

Interval: **3053.00 ft (KB) To 3073.00 ft (KB) (TVD)**

Total Depth: **3073.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2481.00 ft (KB)**

**2470.00 ft (CF)**

KB to GR/CF: **11.00 ft**

**Serial #: 2341**

**Inside**

Press@RunDepth: **204.93 psig @ 3054.00 ft (KB)**

Start Date: **2002.01.02**

End Date:

**2002.01.02**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Start Time: **05:15:01**

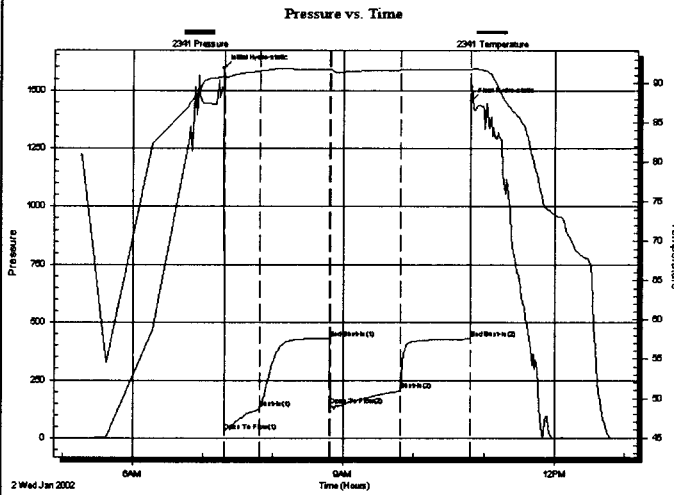
End Time:

**12:49:00**

Time On Btm: **2002.01.02 @ 07:17:45**

Time Off Btm: **2002.01.02 @ 10:48:30**

**TEST COMMENT:** F- fair blow "probably BOB(fixed leak in flow hose) gauged 5 inches after fixing leak  
IS- no blow back  
FF- strong blow BOB 4mins thru opening " no gas"  
FSI- blow back built to 2 inches



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1594.30	90.83	Initial Hydro-static
1	28.61	90.83	Open To Flow (1)
32	126.20	91.54	Shut-In(1)
91	431.14	91.73	End Shut-In(1)
92	140.20	91.73	Open To Flow (2)
151	204.93	91.67	Shut-In(2)
211	428.77	91.72	End Shut-In(2)
211	1454.19	91.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
244.00	watery drilg mud 90% mud 10% water	1.20
186.00	salty drilg mud 90% salty water 10% mud	0.91

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14569

**DST#: 5**

ATTN: Rod Phares

Test Start: 2002.01.02 @ 05:15:00

### Tool Information

Drill Pipe:	Length: 2480.00 ft	Diameter: 3.80 inches	Volume: 34.79 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 588.00 ft	Diameter: 2.25 inches	Volume: 2.89 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 37.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3053.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 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			3034.00	
S.I. Tool	5.00			3039.00	
HMV	5.00			3044.00	
Packer	5.00			3049.00	20.00 Bottom Of Top Packer
Packer	4.00			3053.00	
Stubb	1.00			3054.00	
Recorder	0.00	2341	Inside	3054.00	
Perforations	19.00			3073.00	
Recorder	0.00	5495	Inside	3073.00	
Bullnose	3.00			3076.00	23.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14569

**DST#: 5**

ATTN: Rod Phares

Test Start: 2002.01.02 @ 05:15:00

### 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: 200000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 17000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
244.00	watery drilg mud 90% mud 10% water	1.200
186.00	salty drilg mud 90% salty water 10% mud	0.915

Total Length: 430.00 ft      Total Volume: 2.115 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

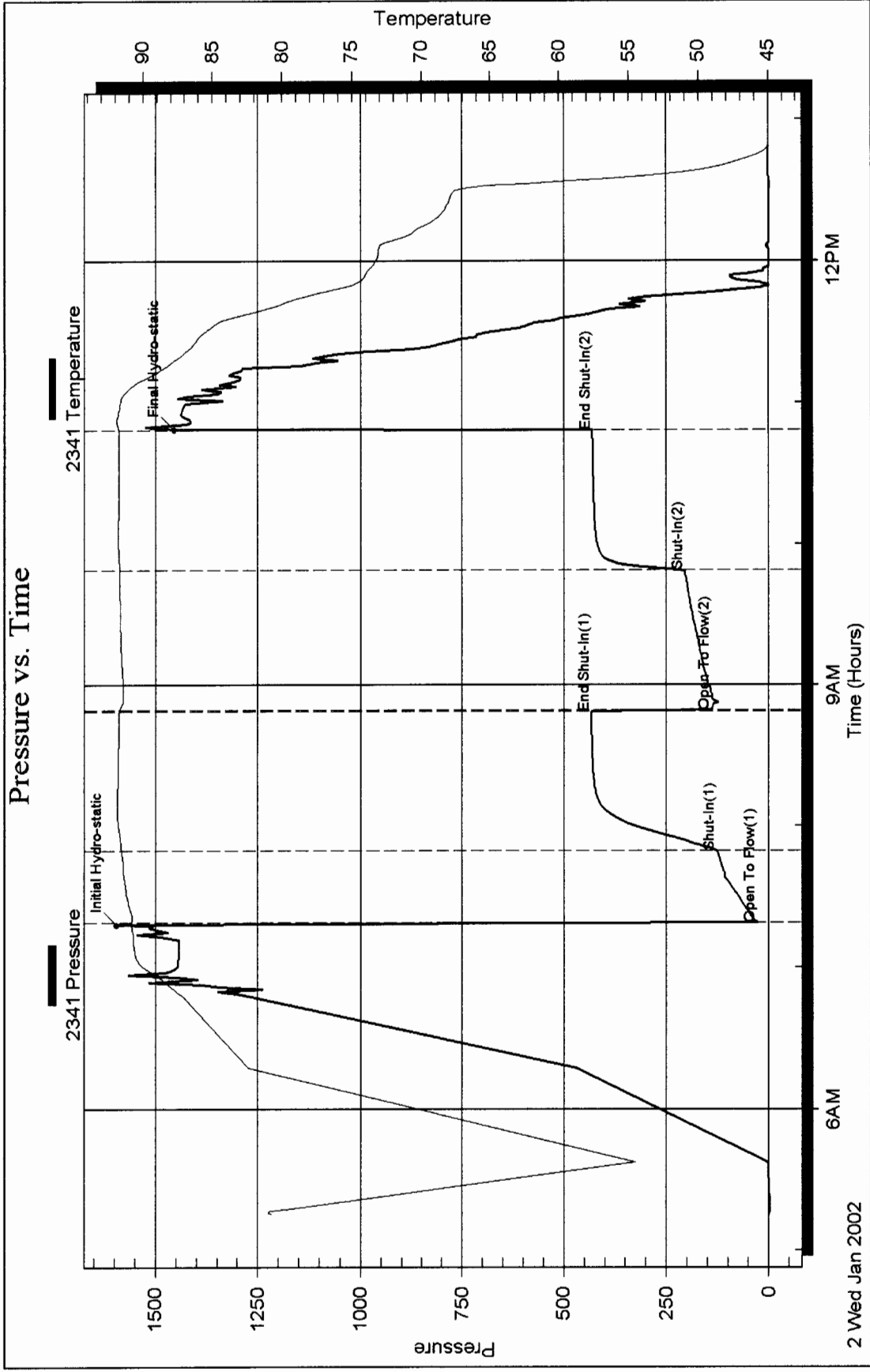
Serial #:

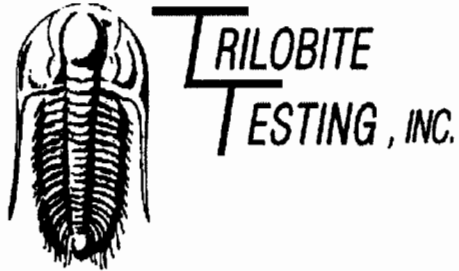
Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Great Plains Petroleum, Inc.**

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares

**23-34S-29W Meade KS**

**Cimmarron Bluff #1**

Start Date: 2002.01.02 @ 18:04:00

End Date: 2002.01.03 @ 02:34:00

Job Ticket #: 14570                      DST #: 6

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

ATTN: Rod Phares

Job Ticket: 14570

**DST#: 6**

Test Start: 2002.01.02 @ 18:04:00

### GENERAL INFORMATION:

Formation: **Council Grove " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:58:30

Time Test Ended: 02:34:00

Test Type: Conventional Bottom Hole

Tester: Jakki Kreklau

Unit No: 17

Interval: **3079.00 ft (KB) To 3096.00 ft (KB) (TVD)**

Reference Elevations: 2481.00 ft (KB)

Total Depth: 3096.00 ft (KB) (TVD)

2470.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 2341**

**Inside**

Press@RunDepth: 169.92 psig @ 3080.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2002.01.02

End Date:

2002.01.03

Last Calib.:

1899.12.30

Start Time: 18:04:01

End Time:

02:34:00

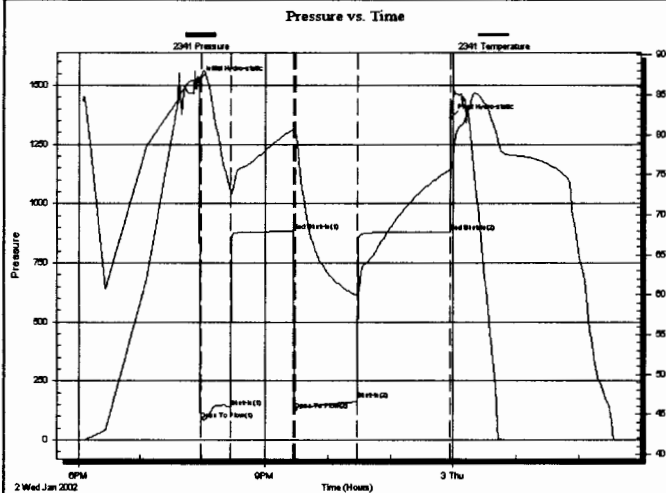
Time On Btm:

2002.01.02 @ 19:56:45

Time Off Btm:

2002.01.02 @ 23:57:30

**TEST COMMENT:** IF- strong blow BOB 1 min GTS 5 mins " gas will burn"  
IS- blow back built to BOB  
FF- guageing gas  
FS- no blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1523.70	87.17	Initial Hydro-static
2	87.29	87.45	Open To Flow (1)
31	139.88	72.96	Shut-in(1)
91	882.27	80.74	End Shut-in(1)
93	124.84	80.28	Open To Flow (2)
151	169.92	59.95	Shut-in(2)
241	880.63	75.69	End Shut-in(2)
241	1361.68	75.71	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
190.00	SL GCM 10% gas 90% mud	0.93

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	28.00	15.87
Last Gas Rate	0.50	36.00	339.98
Max. Gas Rate	0.25	57.00	113.27



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14570      **DST#: 6**

ATTN: Rod Phares

Test Start: 2002.01.02 @ 18:04:00

### Tool Information

Drill Pipe:	Length: 2480.00 ft	Diameter: 3.80 inches	Volume: 34.79 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length:            ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 588.00 ft	Diameter: 2.25 inches	Volume: 2.89 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 37.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3079.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 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			3060.00	
S.I. Tool	5.00			3065.00	
HMV	5.00			3070.00	
Packer	5.00			3075.00	20.00      Bottom Of Top Packer
Packer	4.00			3079.00	
Stubb	1.00			3080.00	
Recorder	0.00	2341	Inside	3080.00	
Perforations	16.00			3096.00	
Recorder	0.00	5495	Inside	3096.00	
Bullnose	3.00			3099.00	20.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14570

**DST#: 6**

ATTN: Rod Phares

Test Start: 2002.01.02 @ 18:04:00

### 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: 37.00 sec/qt	Cushion Volume: bbl		
Water Loss: in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 15000.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	SL GCM 10% gas 90% mud	0.934

Total Length: 190.00 ft      Total Volume: 0.934 bbl

Num Fluid Samples: 0

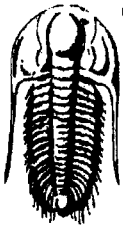
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14570      **DST#: 6**

ATTN: Rod Phares

Test Start: 2002.01.02 @ 18:04:00

### 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)
1	10	0.13	28.00	15.87
1	10	0.13	28.00	15.87
1	10	0.13	28.00	15.87
1	20	0.25	57.00	113.27
1	30	0.38	41.00	202.94
2	10	0.50	34.00	326.49
2	20	0.50	33.00	319.75
2	30	0.50	35.00	333.24
2	40	0.50	36.00	339.98

Serial #: 2341

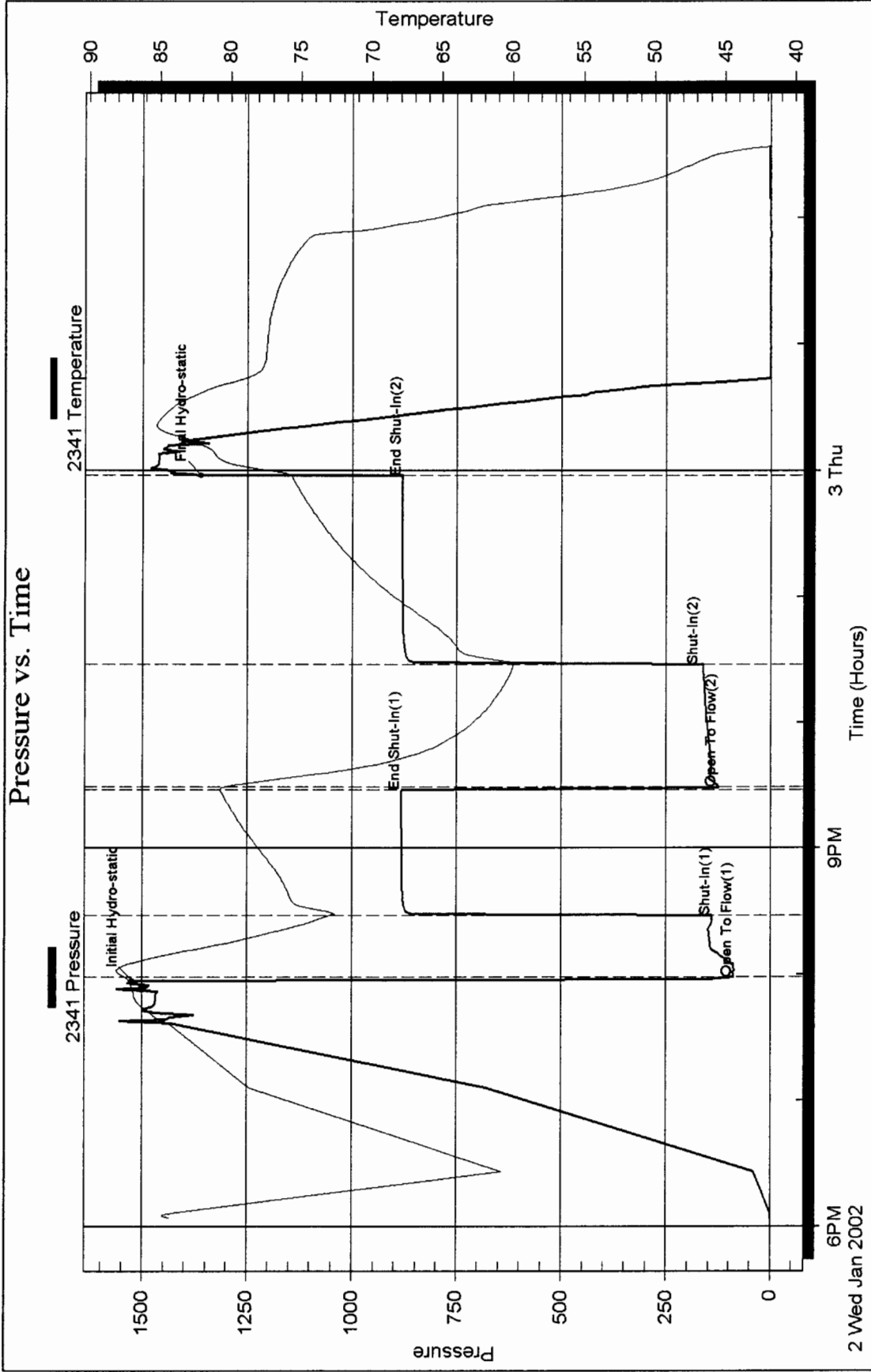
Inside

Great Plains Petroleum, Inc.

23-34S-29W Meade KS

DST Test Number: 6

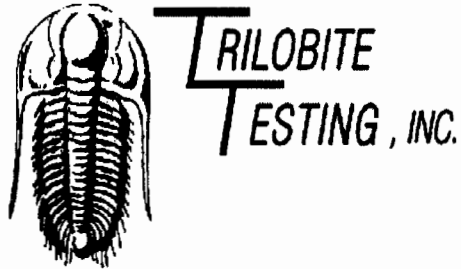
### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 14570

Printed: 2002.01.07 @ 08:56:01 Page 6



## DRILL STEM TEST REPORT

Prepared For: **Great Plains Petroleum, Inc.**

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares

**23-34S-29W Meade KS**

**Cimmarron Bluff #1**

Start Date: 2002.01.06 @ 13:05:18

End Date: 2002.01.06 @ 20:07:17

Job Ticket #: 15016                      DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Great Plains Petroleum, Inc.

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares

**Cimmarron Bluff #1**

**23-34S-29W Meade KS**

Job Ticket: 15016

DST#: 7

Test Start: 2002.01.06 @ 13:05:18

### GENERAL INFORMATION:

Formation: **canville**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:14:17

Time Test Ended: 20:07:17

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 15

Interval: **5017.00 ft (KB) To 5028.00 ft (KB) (TVD)**

Total Depth: 5028.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2481.00 ft (KB)

2470.00 ft (CF)

KB to GR/CF: 11.00 ft

### Serial #: 3227

Press@RunDepth: psig @ 5018.00 ft (KB)

Start Date: 2002.01.06

End Date:

2002.01.06

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 13:05:18

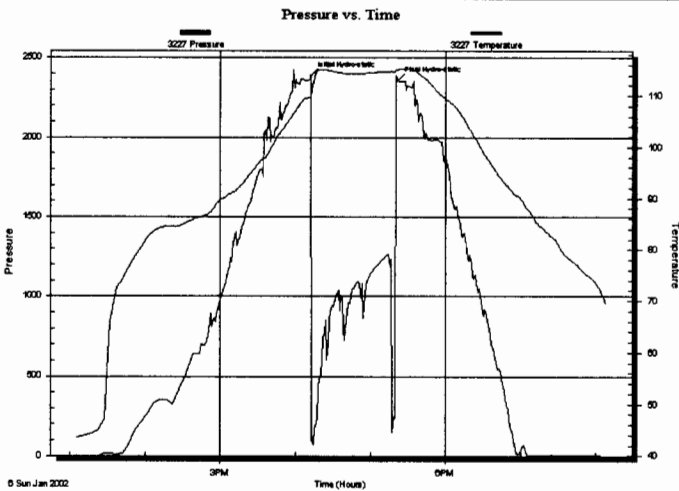
End Time:

20:07:17

Time On Btm: 2002.01.06 @ 16:12:17

Time Off Btm: 2002.01.06 @ 17:21:17

**TEST COMMENT:** Weak 1/2" in blow, died in 17 min. (5' of fill on bottom)  
No return  
No blow, pull tool after 5 min.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2385.16	109.75	Initial Hydro-static
69	2357.74	115.14	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	drilling mud 100% mud	0.02

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 15016

**DST#: 7**

ATTN: Rod Phares

Test Start: 2002.01.06 @ 13:05:18

### Tool Information

Drill Pipe:	Length: 4422.00 ft	Diameter: 3.80 inches	Volume: 62.03 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 588.00 ft	Diameter: 2.25 inches	Volume: 2.89 bbl	Weight to Pull Loose: 125000.0 lb
			<u>Total Volume: 64.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	5017.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	40.00 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			4991.00	
S.I. Tool	5.00			4996.00	
HMV	5.00			5001.00	
Jars	5.00			5006.00	
Safety Joint	2.00			5008.00	
Packer	5.00			5013.00	27.00 Bottom Of Top Packer
Packer	4.00			5017.00	
Stubb	1.00			5018.00	
Recorder	0.00	3227		5018.00	
Perforations	7.00			5025.00	
Recorder	0.00	11057		5025.00	
Bullnose	5.00			5030.00	13.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRIOLOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 15016

**DST#: 7**

ATTN: Rod Phares

Test Start: 2002.01.06 @ 13:05:18

### 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: 41.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	drilling mud 100% mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

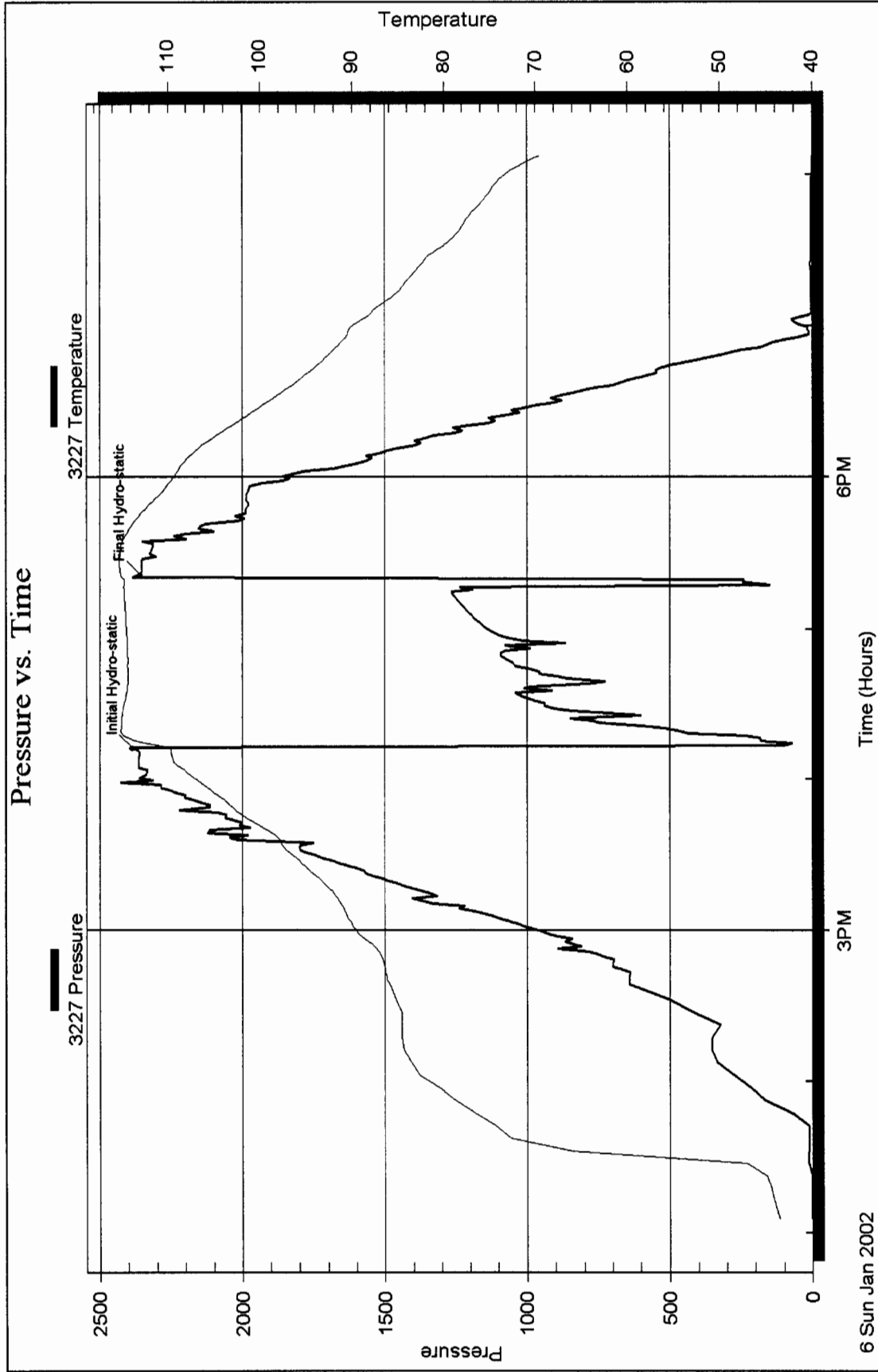
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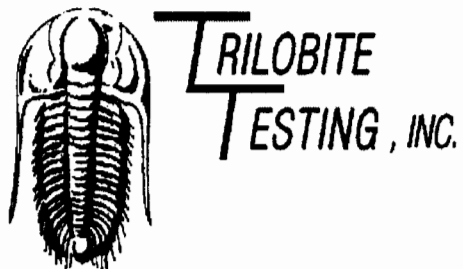
Serial #: 3227

Great Plains Petroleum, Inc.

23-34S-29W Meade KS

DST Test Number: 7





## DRILL STEM TEST REPORT

Prepared For: **Great Plains Petroleum, Inc.**

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares

**23-34S-29W Meade KS**

**Cimmarron Bluff #1**

Start Date: 2002.01.07 @ 21:18:09

End Date: 2002.01.08 @ 06:18:54

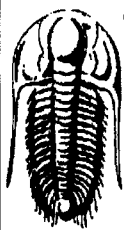
Job Ticket #: 14741          DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14741

**DST#: 8**

ATTN: Rod Phares

Test Start: 2002.01.07 @ 21:18:09

### Tool Information

Drill Pipe:	Length: 4622.00 ft	Diameter: 3.80 inches	Volume: 64.83 bbl	Tool Weight: 1800.00 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: 588.00 ft	Diameter: 2.25 inches	Volume: 2.89 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 67.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 94000.00 lb
Depth to Top Packer:	5210.00 ft			Final 98000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	110.00 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			5184.00	
S.I. Tool	5.00			5189.00	
HMV	5.00			5194.00	
Jars	5.00			5199.00	
Safety Joint	2.00			5201.00	
Packer	5.00			5206.00	27.00 Bottom Of Top Packer
Packer	4.00			5210.00	
Stubb	1.00			5211.00	
Perforations	1.00			5212.00	
Recorder	0.00	3027	Inside	5212.00	
Perforations	10.00			5222.00	
C.O. Sub	1.00			5223.00	
Blank Spacing	62.00			5285.00	
C.O. Sub	1.00			5286.00	
Perforations	5.00			5291.00	
Recorder	0.00	11019	Outside	5291.00	
Bullnose	2.00			5293.00	83.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>110.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14741

**DST#: 8**

ATTN: Rod Phares

Test Start: 2002.01.07 @ 21:18:09

### 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:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SGC mud 100%	0.295
120.00	SOC gassy mud 10% G 90% M	0.590
60.00	SOC gassy mud 25% G 75% M	0.295
60.00	SOC muddy gas 90% G 10% M	0.295

Total Length: 300.00 ft      Total Volume: 1.475 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

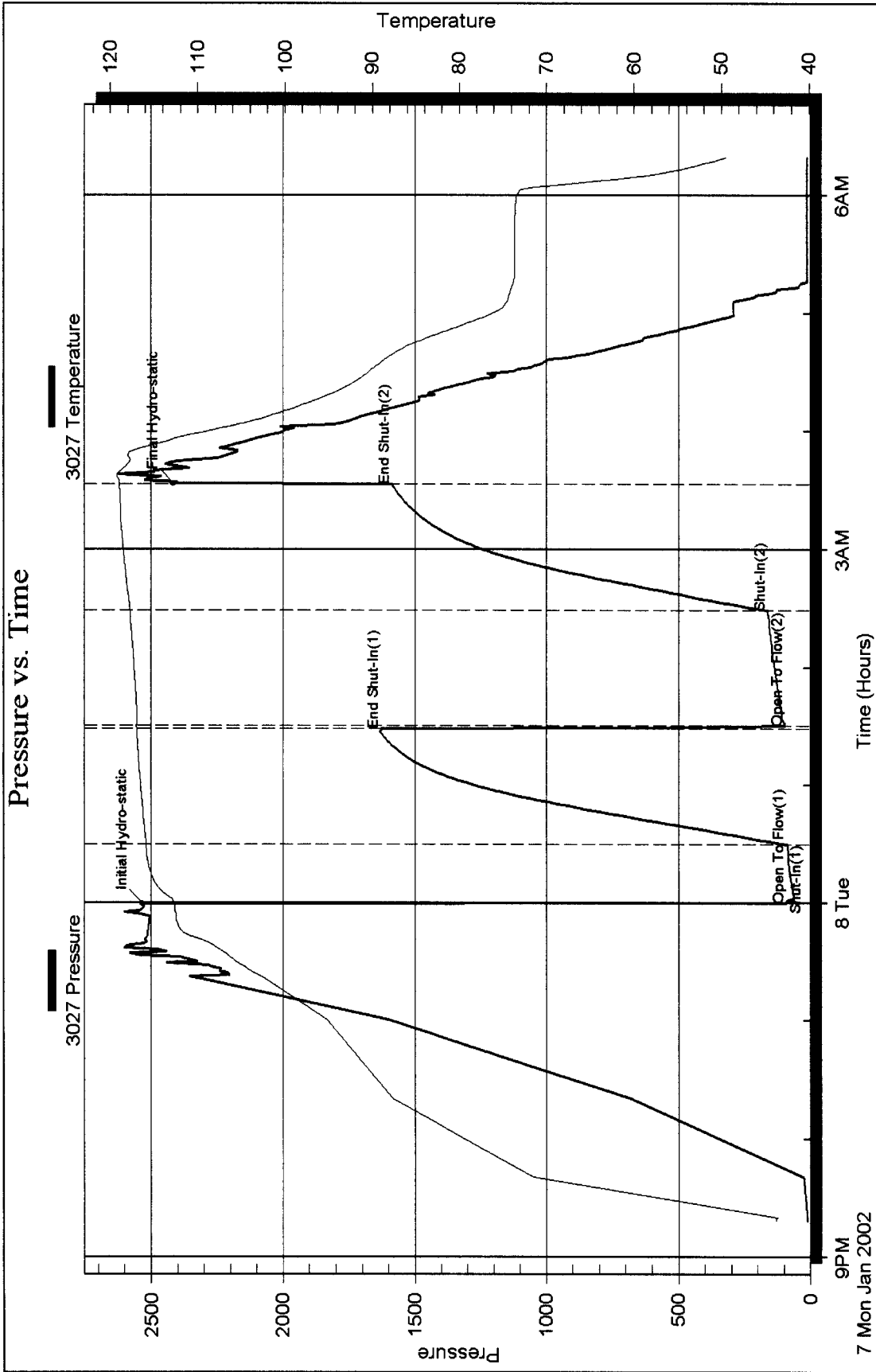
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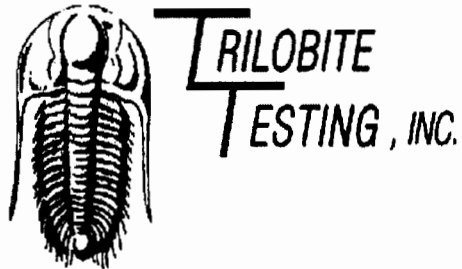
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Great Plains Petroleum, Inc.**

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares

**23-34S-29W Meade KS**

**Cimmarron Bluff #1**

Start Date: 2002.01.10 @ 03:56:00

End Date: 2002.01.10 @ 13:15:00

Job Ticket #: 14574                      DST #: 9

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Great Plains Petroleum, Inc.

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares

**Cimmarron Bluff #1**

**23-34S-29W Meade KS**

Job Ticket: 14574

DST#: 9

Test Start: 2002.01.10 @ 03:56:00

### GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:34:15

Time Test Ended: 13:15:00

Test Type: Conventional Bottom Hole

Tester: Jakki Kreklau

Unit No: 17

Interval: **5709.00 ft (KB) To 5834.00 ft (KB) (TVD)**

Total Depth: 5834.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2481.00 ft (KB)

2470.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 2341**

Inside

Press@RunDepth: 737.19 psig @ 5710.00 ft (KB)

Start Date: 2002.01.10

End Date:

2002.01.10

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 03:56:01

End Time:

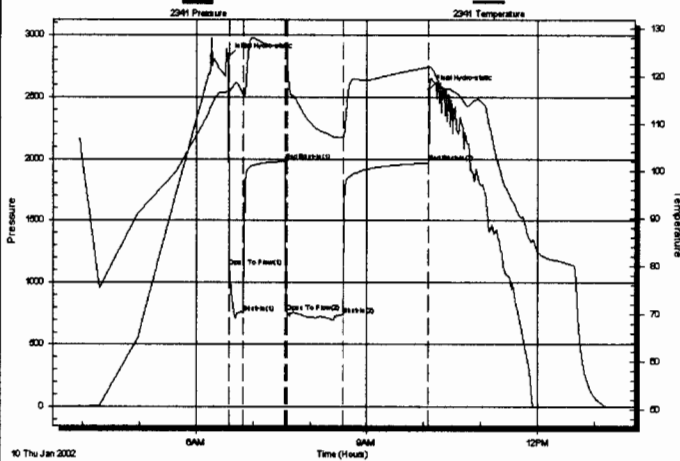
13:15:00

Time On Btm: 2002.01.10 @ 06:33:45

Time Off Btm: 2002.01.10 @ 10:05:30

**TEST COMMENT:** IF- very strong blow BOB 1min GTS 4mins guageing gas " gas w ill burn"  
IS- bled off pressure thru shut in  
FF- guageing gas  
FS- bled off pressure blow back built 1 1/2 in bucket

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2823.61	116.86	Initial Hydro-static
1	1122.14	116.89	Open To Flow (1)
16	751.29	115.92	Shut-In(1)
61	1980.96	126.09	End Shut-In(1)
62	757.70	122.21	Open To Flow (2)
122	737.19	107.10	Shut-In(2)
212	1976.38	121.97	End Shut-In(2)
212	2566.18	121.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GCM 100% mud	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	160.00	2724.10
Last Gas Rate	0.75	215.00	3583.20
Max. Gas Rate	0.75	217.00	3614.43



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14574

**DST#: 9**

ATTN: Rod Phares

Test Start: 2002.01.10 @ 03:56:00

### Tool Information

Drill Pipe:	Length: 5110.00 ft	Diameter: 3.80 inches	Volume: 71.68 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 588.00 ft	Diameter: 2.25 inches	Volume: 2.89 bbl	Weight to Pull Loose: 122000.0 lb
			<u>Total Volume: 74.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 100000.0 lb
Depth to Top Packer:	5709.00 ft			Final 112000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	128.00 ft			
Tool Length:	155.00 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			5683.00	
S.I. Tool	5.00			5688.00	
HMV	5.00			5693.00	
Jars	5.00			5698.00	
Safety Joint	2.00			5700.00	
Packer	5.00			5705.00	27.00 Bottom Of Top Packer
Packer	4.00			5709.00	
Stubb	1.00			5710.00	
Recorder	0.00	2341	Inside	5710.00	
Perforations	16.00			5726.00	
C.O. Sub	1.00			5727.00	
Blank Spacing	89.00			5816.00	
C.O. Sub	1.00			5817.00	
Perforations	17.00			5834.00	
Recorder	0.00	13423	Inside	5834.00	
Bullnose	3.00			5837.00	128.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>155.00</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14574

**DST#: 9**

ATTN: Rod Phares

Test Start: 2002.01.10 @ 03:56:00

**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:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
30.00	GCM 100% mud	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 1

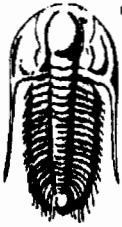
Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 14574

**DST#: 9**

ATTN: Rod Phares

Test Start: 2002.01.10 @ 03:56:00

### 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)
1	10	0.75	160.00	2724.10
1	10	0.75	160.00	2724.10
1	15	0.75	190.00	3192.70
2	10	0.75	195.00	3270.80
2	20	0.75	215.00	3583.20
2	30	0.75	217.00	3614.43
2	40	0.75	217.00	3614.43
2	50	0.75	215.00	3583.20

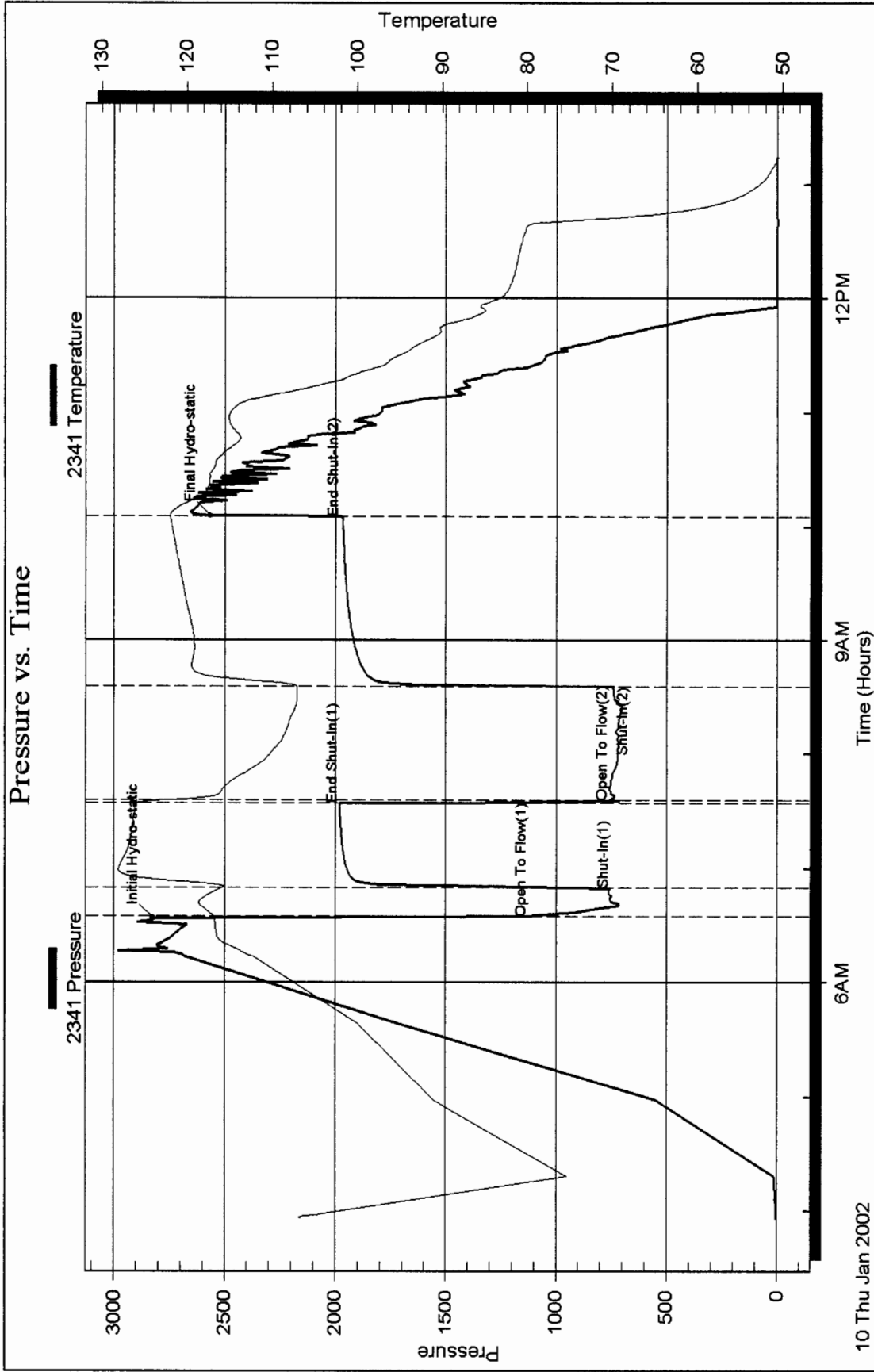
Serial #: 2341

Inside

Great Plains Petroleum, Inc.

23-34S-29W Meade KS

DST Test Number: 9

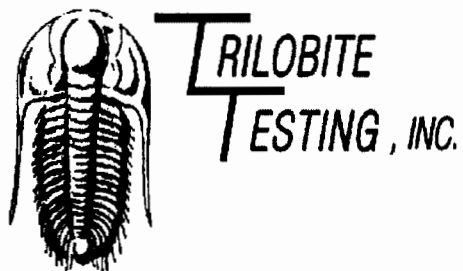


10 Thu Jan 2002

6AM

9AM

12PM



## DRILL STEM TEST REPORT

Prepared For: **Great Plains Petroleum, Inc.**

221 Circle Drive  
Wichita, KS 67218

ATTN: Rod Phares

**23-34S-29W Meade KS**

**Cimmarron Bluff #1**

Start Date: 2002.01.12 @ 14:27:25

End Date: 2002.01.13 @ 00:35:25

Job Ticket #: 15372                      DST #: 10

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 15372      **DST#: 10**

ATTN: Rod Phares

Test Start: 2002.01.12 @ 14:27:25

## GENERAL INFORMATION:

Formation: **St. Louis**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:42:55  
 Time Test Ended: 00:35:25

Test Type: Conventional Bottom Hole  
 Tester: Wenrich/Pevoteaux  
 Unit No: 14

Interval: **6383.00 ft (KB) To 6424.00 ft (KB) (TVD)**  
 Total Depth: 6424.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2481.00 ft (KB)  
 2470.00 ft (CF)  
 KB to GR/CF: 11.00 ft

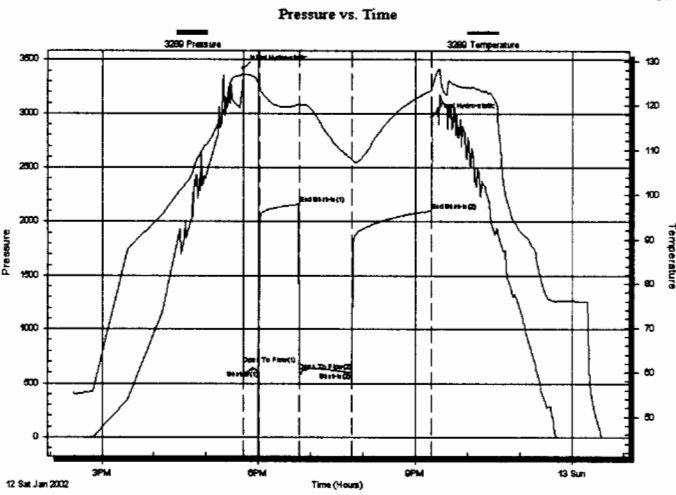
## Serial #: 3289

Inside

Press@RunDepth: 599.78 psig @ 6384.00 ft (KB)  
 Start Date: 2002.01.12 End Date: 2002.01.13  
 Start Time: 14:27:30 End Time: 00:35:25

Capacity: 7000.00 psig  
 Last Calib.: 2002.01.13  
 Time On Btm: 2002.01.12 @ 17:42:10  
 Time Off Btm: 2002.01.12 @ 21:19:09

**TEST COMMENT:** IF:Strong Blow .GTS In 2 mins. (see gas volume)  
 IS:No blow back.  
 FF:Strong blow . (see gas volume report)  
 FS:No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3415.73	127.21	Initial Hydro-static
1	670.24	126.76	Open To Flow (1)
19	616.88	124.79	Shut-in(1)
65	2162.18	120.23	End Shut-in(1)
66	610.63	120.15	Open To Flow (2)
125	599.78	107.96	Shut-in(2)
217	2102.70	123.44	End Shut-in(2)
217	2967.34	123.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
61.00	Clean oil	0.30

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	136.00	2358.34
Last Gas Rate	0.75	164.00	2797.40
Max. Gas Rate	0.75	166.00	2828.76



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 15372

**DST#: 10**

ATTN: Rod Phares

Test Start: 2002.01.12 @ 14:27:25

### Tool Information

Drill Pipe:	Length: 5795.00 ft	Diameter: 3.80 inches	Volume: 81.29 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: 590.00 ft	Diameter: 2.25 inches	Volume: 2.90 bbl	Weight to Pull Loose: 150000.0 lb
			<u>Total Volume: 84.19 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 102000.0 lb
Depth to Top Packer:	6383.00 ft			Final 103000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	68.00 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			6357.00	
S.I. Tool	5.00			6362.00	
HMV	5.00			6367.00	
Jars	5.00			6372.00	
Safety Joint	2.00			6374.00	
Packer	4.00			6378.00	27.00 Bottom Of Top Packer
Packer	5.00			6383.00	
Stubb	1.00			6384.00	
Recorder	0.00	3289	Inside	6384.00	
Perforations	2.00			6386.00	
C.O. Sub	1.00			6387.00	
Blank Spacing	29.00			6416.00	
C.O. Sub	1.00			6417.00	
Perforations	5.00			6422.00	
Recorder	0.00	10242	Outside	6422.00	
Bullnose	2.00			6424.00	41.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>68.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 15372

**DST#: 10**

ATTN: Rod Phares

Test Start: 2002.01.12 @ 14:27:25

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	Clean oil	0.300

Total Length: 61.00 ft

Total Volume: 0.300 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: Wenrich

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Great Plains Petroleum, Inc.

**Cimmarron Bluff #1**

221 Circle Drive  
Wichita, KS 67218

**23-34S-29W Meade KS**

Job Ticket: 15372

**DST#: 10**

ATTN: Rod Phares

Test Start: 2002.01.12 @ 14:27:25

### Gas Rates Information

Temperature: 55 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)
1	10	0.75	136.00	2358.34
1	10	0.75	136.00	2358.34
1	10	0.75	136.00	2358.34
1	15	0.75	155.00	2656.27
2	10	0.75	143.00	2468.11
2	20	0.75	165.00	2813.08
2	30	0.75	166.00	2828.76
2	40	0.75	164.00	2797.40

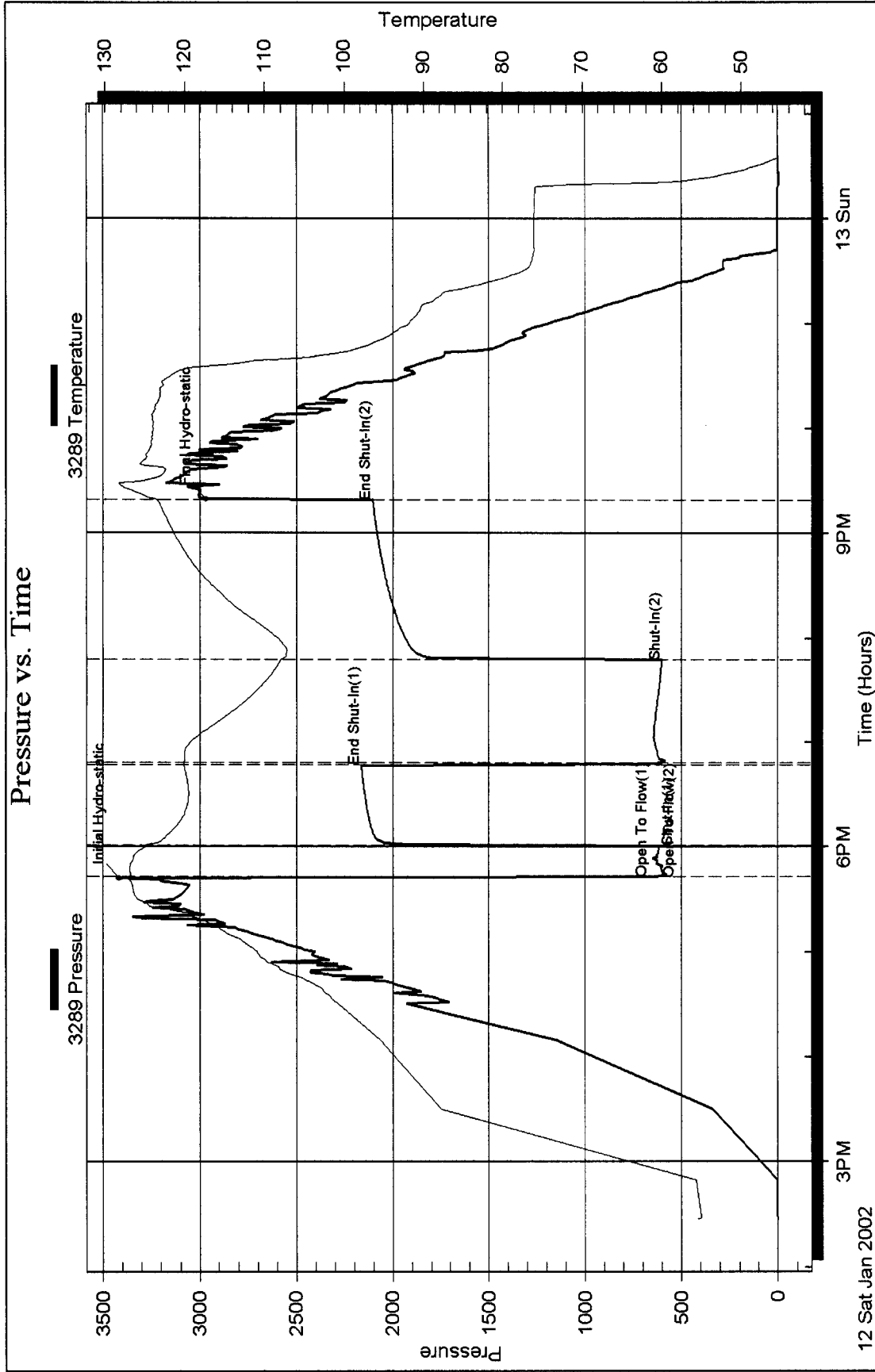
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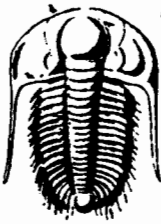
Inside

Great Plains Petroleum, Inc.

23-34S-29W Meade KS

DST Test Number: 10





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15028

## Test Ticket

Well Name & No. Cimmarron Bluff #1 Test No. 1 Date 12-30-01  
 Company Great Plains Petroleum, Inc Zone Tested Council Grove  
 Address 221 Circle Drive Wichita, KS. 67218 Elevation 2483 KB 2470 GL  
 Co. Rep / Geo. Rod Phares / Brad Rine Cont. Allen #6 Est. Ft. of Pay      Por.      %  
 Location: Sec. 23 Twp. 34<sup>S</sup> Rge. 29<sup>W</sup> Co. Menard State KS  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 2542-2650 Initial Str Wt./Lbs. 70,000 Unseated Str Wt./Lbs. 80,000  
 Anchor Length 108' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 110,000  
 Top Packer Depth 2537 Tool Weight 10,000  
 Bottom Packer Depth 2542 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Total Depth 2650 Wt. Pipe Run      Drill Collar Run 496'  
 Mud Wt. 9.0 LCM      Vis. 34 WL      Drill Pipe Size      Ft. Run 2031'  
 Blow Description IF: Tool slid 6' packer failure - reset 2 times - no help.  
TOH w/Tools

Recovery — Total Feet 500' GIP      Ft. in DC 500' Ft. in DP       
 Rec.      Feet Of      %gas      %oil      %water      %mud       
 Rec.      Feet Of      %gas      %oil      %water      %mud       
 Rec. 500' Feet Of Drlg Mud %gas      %oil      %water      %mud       
 Rec.      Feet Of      %gas      %oil      %water      %mud       
 Rec.      Feet Of      %gas      %oil      %water      %mud       
 BHT 85° °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 21,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1244</u>		<u>3030</u>	<u>0700</u>
(B) First Initial Flow Pressure				(depth) <u>2543</u>	T-Started <u>0855</u>
(C) First Final Flow Pressure				Recorder No. <u>13371</u>	T-Open <u>1037</u>
(D) Initial Shut-In Pressure				(depth) <u>2645</u>	T-Pulled <u>1107</u>
(E) Second Initial Flow Pressure				Recorder No. <u>    </u>	T-Out <u>1347</u>
(F) Second Final Flow Pressure				(depth) <u>    </u>	T-Off Location <u>1400</u>
(G) Final Shut-in Pressure				PSI Initial Opening <u>    </u>	Test <u>700</u>
(Q) Final Hydrostatic Mud		<u>1203</u>		PSI Initial Shut-in <u>    </u>	Jars <u>    </u>

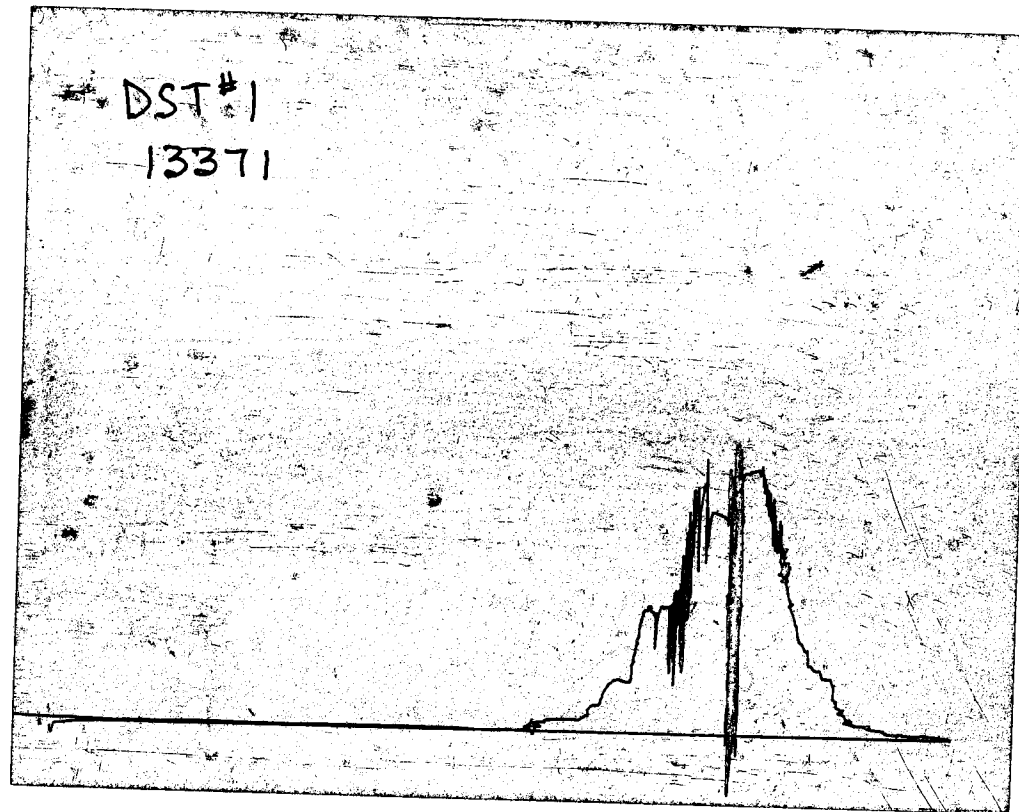
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

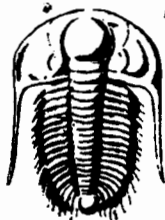
Approved By Brad Rine  
 Our Representative Rod Steinbrink

Final Flow      Safety Joint       
 Final Shut-in      Straddle       
 Circ. Sub X N/C  
 Sampler       
 Extra Packer       
 Elec. Rec. X 150  
 Mileage 125 70  
 Other       
 TOTAL PRICE \$ 920

## CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15029

## Test Ticket

Well Name & No. Cimmaron Bluff #1 Test No. 2 Date 12-30-01  
 Company Great Plains Petroleum, Inc. Zone Tested Krider  
 Address 221 Circle Drive Wichita, KS 67218 Elevation 2481 KB 2470 GL  
 Co. Rep / Geo. Rod Phares / Brad Rine Cont. Allen #6 Est. Ft. of Pay      Por.      %  
 Location: Sec. 23 Twp. 34<sup>s</sup> Rge. 29<sup>w</sup> Co. Meade State KS  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 2616-2650 Initial Str Wt./Lbs. 10,000 Unseated Str Wt./Lbs. 10,000  
 Anchor Length 34' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 80,000  
 Top Packer Depth 2611 Tool Weight 1,800  
 Bottom Packer Depth 2616 Hole Size — 7 7/8"      Rubber Size — 6 3/4"       
 Total Depth 2650 Wt. Pipe Run      Drill Collar Run ~~495~~' 589'  
 Mud Wt. 9.2 LCM      Vis. 38 WL      Drill Pipe Size 4 1/2" IF Ft. Run 20229'  
 Blow Description IF: Weak intermitten surface blow died in 15 mins

FF: No return blow

Recovery — Total Feet 2' GIP      Ft. in DC 2' Ft. in DP       
 Rec.      Feet Of      %gas %oil %water %mud  
 Rec.      Feet Of      %gas %oil %water %mud  
 Rec. 2' Feet Of Drlg Mud %gas %oil %water %mud  
 Rec.      Feet Of      %gas %oil %water %mud  
 Rec.      Feet Of      %gas %oil %water %mud  
 BHT 83° °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 32,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		1270		3030	1900
(B) First Initial Flow Pressure		1058		(depth) 2617	T-Started 1940
(C) First Final Flow Pressure		976		13371	T-Open 2142
(D) Initial Shut-In Pressure		989		(depth) 2645	T-Pulled 0042
(E) Second Initial Flow Pressure		937		Recorder No.	T-Out 0242
(F) Second Final Flow Pressure		915		(depth)	T-Off Location 0400
(G) Final Shut-in Pressure		868		Initial Opening 30	Test 700
(Q) Final Hydrostatic Mud		1300		Initial Shut-in 45	Jars X 200
				Final Flow 30	Safety Joint X 50
				Final Shut-in 90	Straddle

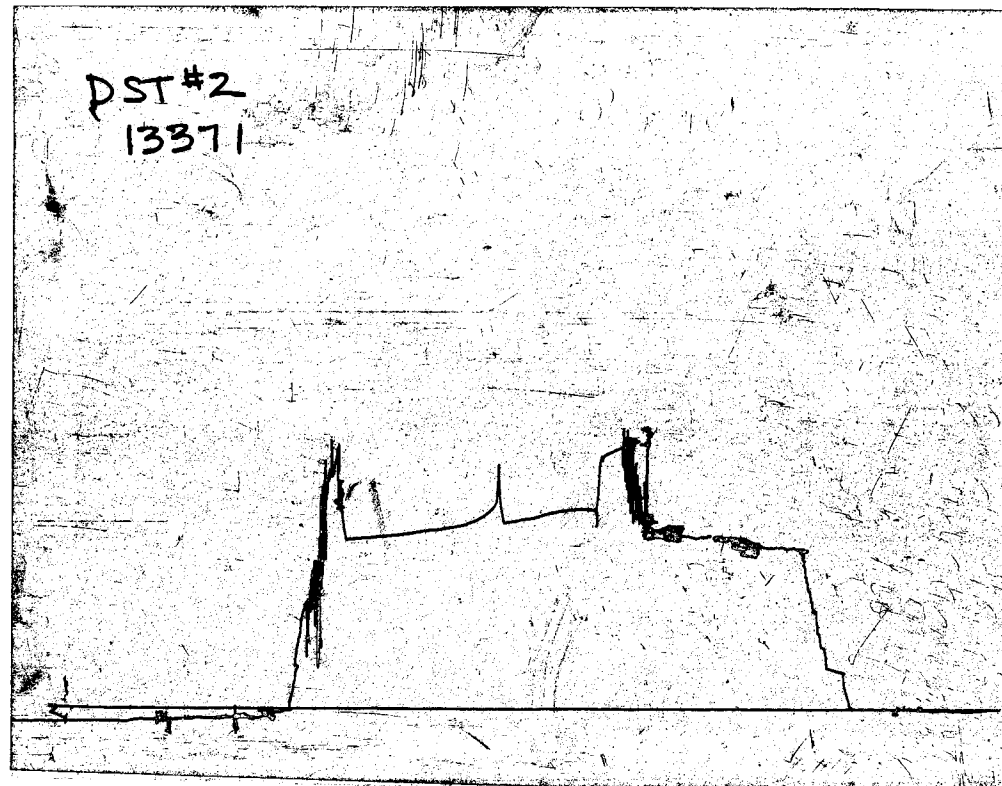
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Approved By Brad Rine  
 Our Representative Rod Steinbrink

Mobilization 200.00  
 Fee F/Subs. X Shale Extra Packer 150  
 Circ. Sub X N/C  
 Sampler       
 Elec. Rec. X 150  
 Mileage       
 Other       
 TOTAL PRICE \$ 1450

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15030

## Test Ticket

Well Name & No. Cimmarron Bluff #1 Test No. 3 Date 10-31-01  
 Company Great Plains Petroleum Inc. Zone Tested Winfield  
 Address 221 Circle Drive Wichita, KS 67218 Elevation 2481 KB 2470 GL  
 Co. Rep / Geo. Rod Phares/Brod Rine Cont. Allen #6 Est. Ft. of Pay      Por.      %  
 Location: Sec. 23 Twp. 34<sup>S</sup> Rge. 29<sup>W</sup> Co. Meade State KS.  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 2661 - 2720 Initial Str Wt./Lbs. 70,000 Unseated Str Wt./Lbs. 75,000  
 Anchor Length 59' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 90,000  
 Top Packer Depth 2656 Tool Weight 2,000  
 Bottom Packer Depth 2661 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Total Depth 2720 Wt. Pipe Run      Drill Collar Run 589'  
 Mud Wt. 9.0 LCM      Vis. 46 WL      Drill Pipe Size 4 1/2" IF Ft. Run 2057'

Blow Description IF: Weak to fair surging blow built to 8" decreased to 5"  
ISI: No return  
FF: Fair to strong blow off btm in 8 mins  
FSI: Surface return throughout

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>690'</u>	<u>    </u>	<u>589'</u>	<u>    </u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas	%oil	%water %mud
Rec. <u>150'</u> Feet Of <u>WCM</u>	%gas	%oil	<u>20</u> %water <u>80</u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	%gas	%oil	%water %mud
Rec. <u>540'</u> Feet Of <u>SGC.W</u>	<u>5</u> %gas	%oil	<u>95</u> %water %mud
Rec. <u>    </u> Feet Of <u>    </u>	%gas	%oil	%water %mud

BHT 84° °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW .13 @ 60° °F Chlorides 72,000 ppm Recovery Chlorides 30,000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1540</u>	<u>    </u>	<u>3030</u>	<u>0700</u>
(B) First Initial Flow Pressure	<u>1023</u>	<u>    </u>	(depth) <u>2662</u>	T-Started <u>0920</u>
(C) First Final Flow Pressure	<u>1395</u>	<u>    </u>	PSI Recorder No. <u>13371</u>	T-Open <u>1100</u>
(D) Initial Shut-in Pressure	<u>689</u>	<u>    </u>	PSI (depth) <u>2715</u>	T-Pulled <u>1438</u>
(E) Second Initial Flow Pressure	<u>123</u>	<u>    </u>	PSI Recorder No. <u>    </u>	T-Out <u>1721</u>
(F) Second Final Flow Pressure	<u>341</u>	<u>    </u>	PSI (depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure	<u>666</u>	<u>    </u>	PSI Initial Opening <u>30</u>	Test <u>900</u>
(Q) Final Hydrostatic Mud	<u>1363</u>	<u>    </u>	PSI Initial Shut-in <u>60</u>	Jars <u>X 200</u>
			Final Flow <u>60</u>	Safety Joint <u>X 50</u>
			Final Shut-in <u>60</u>	Straddle <u>    </u>

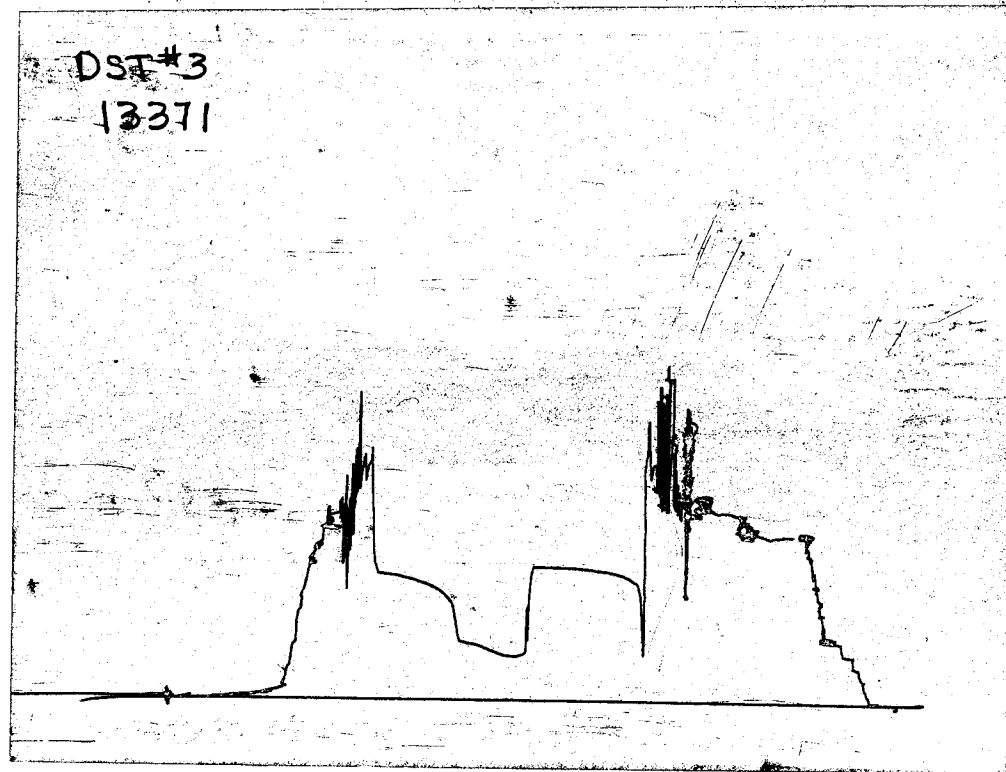
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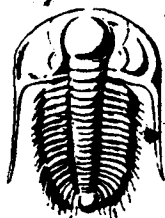
Approved By Rod A. Phares  
 Our Representative Rod Steinbrink

Circ. Sub X N/G  
 Sampler       
 Shale Extra Packer X Ruined 150  
 Elec. Rec. X 150  
 Mileage       
 Other 2 hrs 40  
 TOTAL PRICE \$ 1560

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14568

## Test Ticket

Well Name & No. CAMPBELL BLUFF #1 Test No. 4 Date 01-01-02  
 Company GREAT PLAINS PETRO Zone Tested TOWANUA  
 Address 221 Circle Drive Wichita, Ks 67218 Elevation 2481 KB 3492 GL  
 Co. Rep / Geo. Rod Cont. Allen Rigle Est. Ft. of Pay      Por.      %  
 Location: Sec. 23 Twp. 34 Rge. 39W Co. Meade State Ks  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 2742-2770 Initial Str Wt./Lbs. 18000 Unseated Str Wt./Lbs. 19000  
 Anchor Length 28 Wt. Set Lbs. 30000 Wt. Pulled Loose/Lbs. 30000  
 Top Packer Depth 2738 Tool Weight 1800  
 Bottom Packer Depth 2742 Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 2770 Wt. Pipe Run      Drill Collar Run 588  
 Mud Wt. 9.1 LCM 1 Vis. 46 WL N/C Drill Pipe Size 4 1/2 IL Ft. Run 2149

Blow Description IF - Strong blow BOB 2 min thru opening "NO GAS"  
ISI - No blow back  
FF - Fair blow built to strong blow BOB 12 min GASTO SURFACE 59 min into opening  
FSE - blow back built to 1/8 inch "GAS W. II burn"

Recovery — Total Feet 130 GIP      Ft. in DC      Ft. in DP       
 Rec. 130 Feet Of WATERY DRILL MUD %gas      %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 85 °F Gravity      °API D@      °F Corrected Gravity      °API       
 RW      @      °F Chlorides      ppm Recovery Chlorides 30,000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		1420	2341	0200
(B) First Initial Flow Pressure		18	(depth) 2740	T-Started 0325
(C) First Final Flow Pressure		43	PSI Recorder No. 5485	T-Open 0543
(D) Initial Shut-In Pressure		536	(depth) 2767	T-Pulled 0915
(E) Second Initial Flow Pressure		39	PSI Recorder No. <u>    </u>	T-Out 1112
(F) Second Final Flow Pressure		80	(depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure		705	PSI Initial Opening 30	Test <input checked="" type="checkbox"/> 700
(Q) Final Hydrostatic Mud		1329	PSI Initial Shut-in 60	Jars <u>    </u>
			Final Flow 60	Safety Joint <u>    </u>
			Final Shut-in 60	Straddle <u>    </u>
				Circ. Sub <u>    </u>
				Sampler <u>    </u>
				Extra Packer <u>    </u>
				Elec. Rec. <input checked="" type="checkbox"/> 150
				Mileage 70
				Other 1 hr 30
				TOTAL PRICE \$ 950

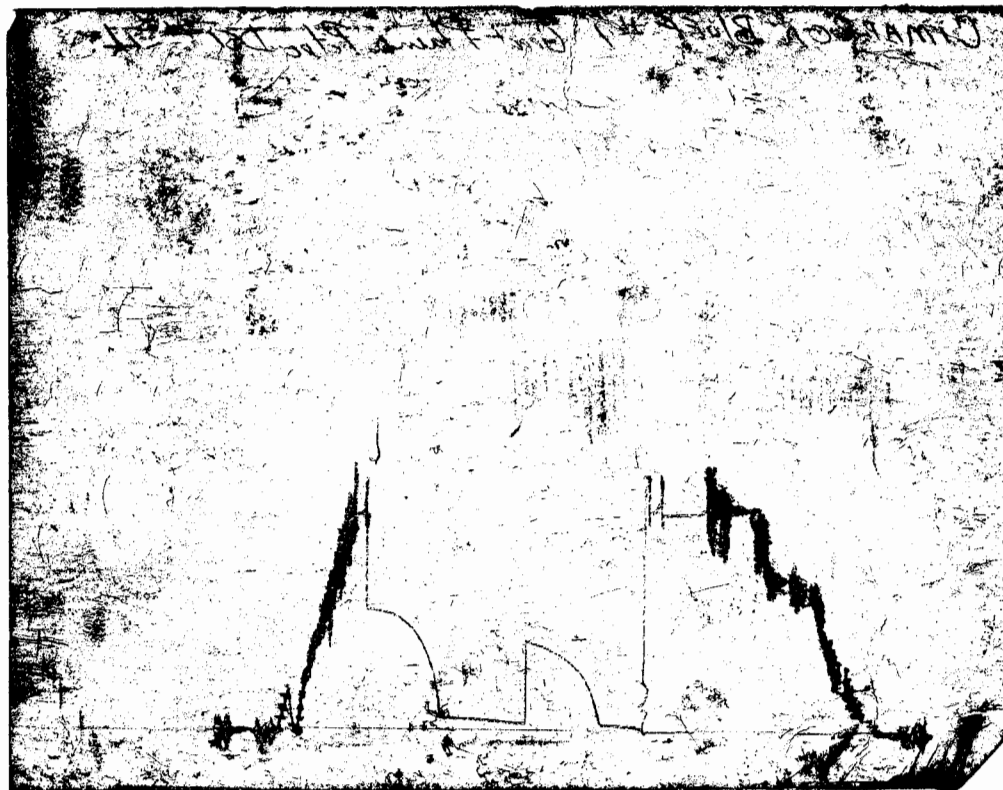
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Approved By Dave C. P. Chavez  
 Our Representative Abbi Kudlow

9.12

# CHART PAGE

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



# NATURAL GAS ANALYSIS REPORT

**Sampled by:**

Trilobite Testing, Inc.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 785-625-5620

**Analyzed by:**

Caraway Analytical, Inc  
 P. O. Box 2137  
 Liberal, Kansas 67905  
 Phone: 620-624-5389  
 Fax: 620-626-7108

Lab Number: 20020017 Analyzed: 01/02/02

Sample From: Cimarron Bluff #1 DST 4 Pressure:  
 Producer: Great Plains Petroleum Temperature:

Date/Location: 23-34-29

Time: County: Meade  
 Sampler: State: Kansas  
 Source: Formation: Towanva

	Mole %	GPM
Helium	He: 0.677	0.000
Hydrogen	H2: 0.014	0.000
Oxygen	O2: 0.819	0.000
Nitrogen	N2: 27.339	0.000
Carbon Dioxide	CO2: 0.215	0.000
Methane	C1: 66.851	0.000
Ethane	C2: 1.192	0.319
Propane	C3: 0.287	0.079
Iso Butane	iC4: 0.083	0.027
Normal Butane	nC4: 0.119	0.038
Iso Pentane	iC5: 0.228	0.083
Normal Pentane	nC5: 0.417	0.151
Hexanes Plus	C6+: 1.759	0.767

TOTAL: 100.000 1.464

Z Fact: 0.9982

SP.GR.: 0.7431

BTU (SAT): 815.1 @ 14.73 psia  
 BTU (DRY): 829.6 @ 14.73 psia  
 OCTANE RATING: 89.3

COMMENTS:

0.819

NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, Inc.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 785-625-5620

Analyzed by:  
 Caraway Analytical, Inc  
 P. O. Box 2137  
 Liberal, Kansas 67905  
 Phone: 620-624-5389  
 Fax: 620-626-7108

---

Lab Number:	20020017	Analyzed:	01/02/02
Sample From:	Cimarron Bluff #1 DST 4	Pressure:	
Producer:	Great Plains Petroleum	Temperature:	
Date:		Location:	23-34-29
Time:		County:	Meade
Sampler:		State:	Kansas
Source:		Formation:	Towanva

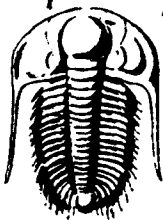
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		Mole %	GPM
Helium	He:	0.677	0.000
Hydrogen	H2:	0.014	0.000
Oxygen	O2:	0.819	0.000
Nitrogen	N2:	27.339	0.000
Carbon Dioxide	CO2:	0.215	0.000
Methane	C1:	66.851	0.000
Ethane	C2:	1.192	0.319
Propane	C3:	0.287	0.079
Iso Butane	iC4:	0.083	0.027
Normal Butane	nC4:	0.119	0.038
Iso Pentane	iC5:	0.228	0.083
Normal Pentane	nC5:	0.417	0.151
Hexanes Plus	C6+:	1.759	0.767
	TOTAL:	100.000	1.464
	Z Fact:	0.9982	
	SP.GR.:	0.7431	
	BTU (SAT):	815.1 @ 14.73 psia	
	BTU (DRY):	829.6 @ 14.73 psia	
	OCTANE RATING:	89.3	

---

COMMENTS:

0.819



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14569

## Test Ticket

Well Name & No. CIMARRON BLUFF #1 Test No. 5 Date 01-02-02  
 Company GREAT PLAINS PETRO Zone Tested COUNCIL GROVE "B"  
 Address 221 Circle Drive Wichita Ks 67218 Elevation 2481 KB 2492 GL  
 Co. Rep / Geo. Red Cont. Allen Rig L Est. Ft. of Pay      Por.      %  
 Location: Sec. 23 Twp. 34S Rge. 29W Co. MEADE State Ks  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 3053 - 3073 Initial Str Wt./Lbs. 78000 Unseated Str Wt./Lbs. 80000  
 Anchor Length 20 Wt. Set Lbs. 30000 Wt. Pulled Loose/Lbs. 100000  
 Top Packer Depth 3049 Tool Weight 1800  
 Bottom Packer Depth 3053 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth 3073 Wt. Pipe Run      Drill Collar Run 588  
 Mud Wt. 9.0 LCM 1 Vis. 43 WL n/c Drill Pipe Size 4 1/2 IF Ft. Run 2480  
 Blow Description IF - Fair blow probably BDB (Fixed leak in Flow hose)  
ISI - no blow back  
FF - Strong blow BDB 4 mins thru opening "NO GAS"  
FSI - blow back built to 2 inches

Recovery — Total Feet 430 GIP 62" Ft. in DC 430 Ft. in DP       
 Rec. 244 Feet Of WATERY Drilg Mud %gas      %oil 10 %water 90 %mud  
 Rec.      Feet Of      %gas      %oil      %water      %mud  
 Rec. 186 Feet Of SALTY Drilg Mud %gas      %oil 90 %water 10 %mud  
 Rec.      Feet Of      %gas      %oil      %water      %mud  
 Rec.      Feet Of      %gas      %oil      %water      %mud  
 BHT 91 °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW 0.06 @ 57 °F Chlorides 200000 ppm Recovery Chlorides 17000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	1594	1594	<u>2341</u>	<u>0130</u>
(B) First Initial Flow Pressure	28	28	(depth) <u>3055</u>	T-Started <u>0515</u>
(C) First Final Flow Pressure	136	136	PSI Recorder No. <u>5495</u>	T-Open <u>0719</u>
(D) Initial Shut-In Pressure	431	431	PSI (depth) <u>3073</u>	T-Pulled <u>1049</u>
(E) Second Initial Flow Pressure	139	139	PSI Recorder No. <u>    </u>	T-Out <u>0049</u>
(F) Second Final Flow Pressure	204	204	PSI (depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure	428	428	PSI Initial Opening <u>30</u>	Test <u>✓</u> <u>700</u>
(Q) Final Hydrostatic Mud	1524	1524	PSI Initial Shut-in <u>60</u>	Jars <u>    </u>
			Final Flow <u>60</u>	Safety Joint <u>    </u>
			Final Shut-in <u>60</u>	Straddle <u>    </u>
				Circ. Sub <u>    </u>
				Sampler <u>    </u>
				Extra Packer <u>    </u>
				Elec. Rec. <u>✓</u> <u>150</u>
				Mileage <u>70</u>
				Other <u>3 hrs 90</u>
				TOTAL PRICE \$ <u>1010</u>

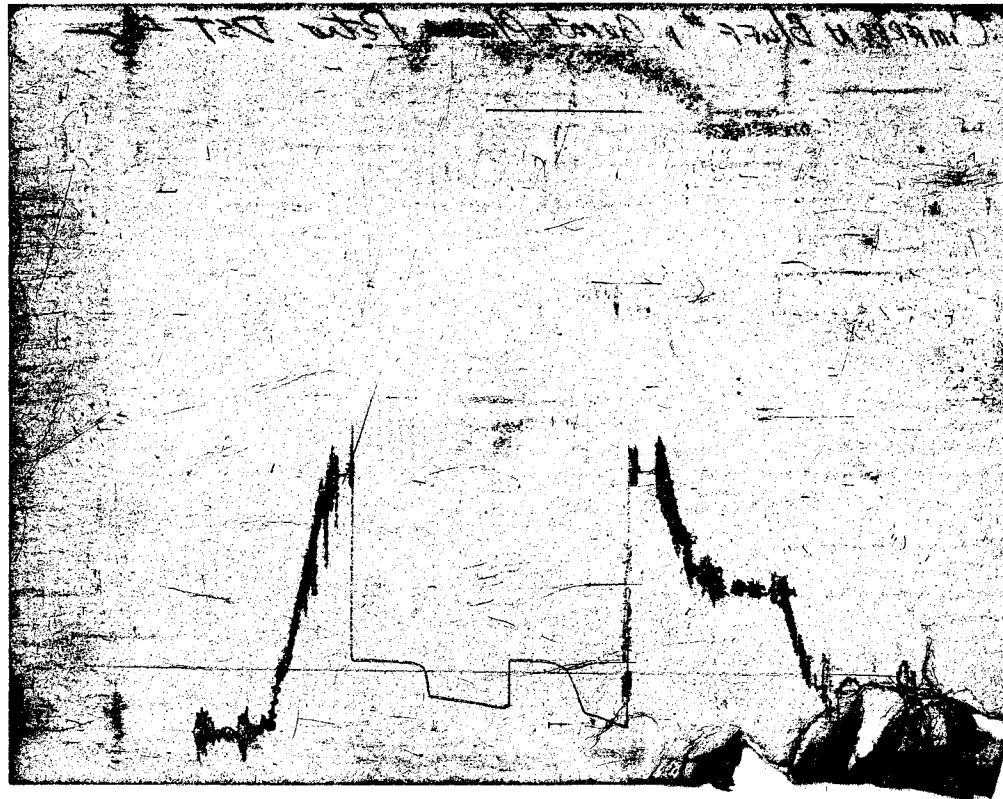
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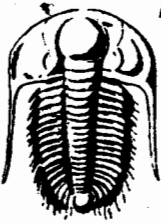
Approved By Paul C. P... ..  
 Our Representative Jabki Kuklun

11.19

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 1457

## Test Ticket

Well Name & No. <u>CIMACRON BLUFF #1</u>	Test No. <u>6</u>	Date <u>01-02-02</u>
Company <u>GREAT PLAINS PETRO</u>	Zone Tested <u>Council Grove "C"</u>	
Address <u>221 Circle Drive Wichita, Ks 67218</u>	Elevation <u>2481</u>	KB <u>2492</u> GL
Co. Rep / Geo. <u>Rod</u>	Cont. <u>Allen Rigle</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>23</u>	Twp. <u>34S</u>	Rge. <u>29W</u>
	Co. <u>MEADE</u>	State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____
		Evaluation (Y, N) _____

Interval Tested <u>3079 - 3096</u>	Initial Str Wt./Lbs. <u>78000</u>	Unseated Str Wt./Lbs. <u>80000</u>
Anchor Length <u>17</u>	Wt. Set Lbs. <u>30000</u>	Wt. Pulled Loose/Lbs. <u>100000</u>
Top Packer Depth <u>3075</u>	Tool Weight <u>1800</u>	
Bottom Packer Depth <u>3079</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>3079</u>	Wt. Pipe Run _____	Drill Collar Run <u>588</u>
Mud Wt. <u>9.2</u> LCM <u>2</u> Vis. <u>37</u> WL <u>N/C</u>	Drill Pipe Size <u>4 1/2 IF</u>	Ft. Run <u>2480</u>
Blow Description <u>IF - Strong blow BOB 1min GTS 5min " Gas will burn"</u>		
<u>EST - Blow back built to BOB.</u>		
<u>FF - Gauging Gas</u>		
<u>FSL - NO blow back</u>		

Recovery — Total Feet <u>190</u>	GIP _____	Ft. in DC <u>190</u>	Ft. in DP _____
Rec. <u>190</u> Feet Of <u>SLGCM</u>		10 %gas	%oil _____ %water <u>90</u> %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 <u>76</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____	°F Chlorides _____	ppm Recovery _____	Chlorides <u>15000</u> ppm System _____

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1561</u>		<u>2341</u>	
(B) First Initial Flow Pressure	<u>87</u>		(depth) <u>3081</u>	T-Started <u>1804</u>
(C) First Final Flow Pressure	<u>139</u>		PSI Recorder No. <u>5495</u>	T-Open <u>1957</u>
(D) Initial Shut-In Pressure	<u>882</u>		(depth) <u>3096</u>	T-Pulled <u>0057</u>
(E) Second Initial Flow Pressure	<u>124</u>		PSI Recorder No. _____	T-Out <u>0234</u>
(F) Second Final Flow Pressure	<u>169</u>		(depth) _____	T-Off Location _____
(G) Final Shut-in Pressure	<u>881</u>		PSI Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>700</u>
(Q) Final Hydrostatic Mud	<u>1460</u>		PSI Initial Shut-in <u>60</u>	Jars _____
			Final Flow <u>60</u>	Safety Joint _____
			Final Shut-in <u>90</u>	Straddle _____

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Approved By Rod G. Phares  
 Our Representative John Kuller

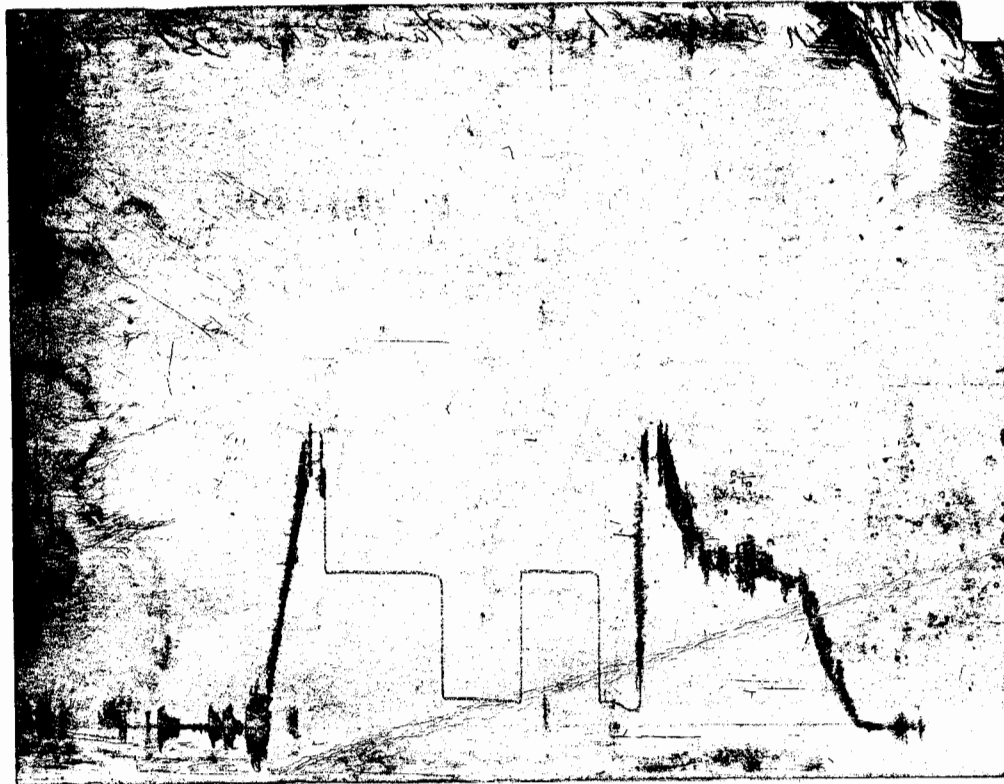
Elec. Rec.  150  
 Mileage \_\_\_\_\_  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ 850

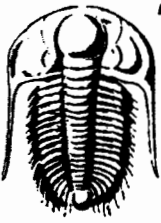
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# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15016

## Test Ticket

Well Name & No. Cimarron Bluff #1 Test No. #7 Date 1-6-02  
 Company Great Plains Petro. Zone Tested Carville  
 Address 221 Circle Drive, Wichita, Ks 67218 Elevation 2491' KB 24 GL  
 Co. Rep / Geo. Rad Phares Cont. Allen #6 Est. Ft. of Pay      Por.      %  
 Location: Sec. 23 Twp. 345 Rge. 27w Co. Meade State Ks  
 No. of Copies 1 Distribution Sheet (Y, N)      Turnkey (Y, N) 1 Evaluation (Y, N)     

Interval Tested 5017' 5028' Initial Str Wt./Lbs. 90,000 Unseated Str Wt./Lbs. 90,000  
 Anchor Length      11' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 125,000.  
 Top Packer Depth      5012' Tool Weight 1,500  
 Bottom Packer Depth      5017' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth      5028' Wt. Pipe Run      Drill Collar Run 588' x 1  
 Mud Wt. 9.0 LCM #3 vis. 41 WL 8.0 Drill Pipe Size 4 1/2 Ft. Run       
 Blow Description Weak 1/2" in blow, died in 17 min. (5' of fill on bottom)  
No return  
No blow Pull tool after 5 min.

Recovery — Total Feet 5' GIP      Ft. in DC 5' Ft. in DP       
 Rec. 5' Feet Of Drilling Mud %gas      %oil      %water 100% %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      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 2300 ppm System

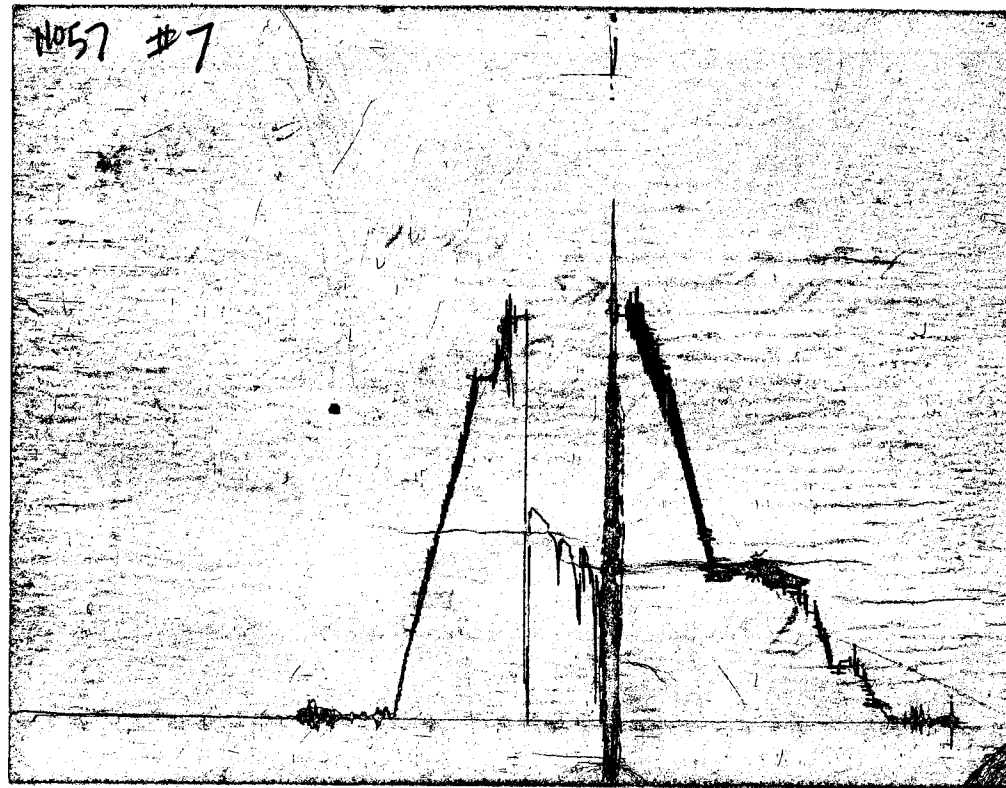
	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2385</u>		<u>3227'</u>	<u>11:00 AM</u>
(B) First Initial Flow Pressure				<u>5018'</u>	<u>11:50 AM</u>
(C) First Final Flow Pressure				<u>11057</u>	<u>14:55 P.M. 8</u>
(D) Initial Shut-In Pressure				<u>5025'</u>	<u>16:00 P.M.</u>
(E) Second Initial Flow Pressure					<u>19:00 P.M.</u>
(F) Second Final Flow Pressure					T-Off Location <u>    </u>
(G) Final Shut-in Pressure				Initial Opening <u>30</u>	Test <u>x</u> <u>700</u>
(Q) Final Hydrostatic Mud		<u>2357</u>		Initial Shut-in <u>30</u>	Jars <u>x</u> <u>200</u>
				Final Flow <u>5</u>	Safety Joint <u>y</u> <u>50</u>
				Final Shut-in <u>    </u>	Straddle <u>    </u>
				<u>Tool Jugged on first flow</u>	Circ. Sub <u>x</u> <u>n/c.</u>
					Sampler <u>    </u>
					Extra Packer <u>    </u>
					Elec. Rec. <u>x</u> <u>150</u>
					Mileage <u>x</u> <u>12574 way</u>
					Other <u>    </u>
					TOTAL PRICE \$ <u>1170</u>

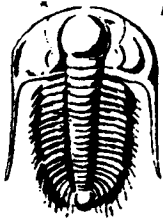
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Approved By Rad G. Phares  
 Our Representative [Signature]

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14741

## Test Ticket

Well Name & No. Cimarron Blk #1 Test No. 8 Date 1-7-02  
 Company Great Plains Petroleum Zone Tested Nowinger  
 Address 221 Circle Dr Wichita KS 67208 Elevation 2481 KB 2469 GL  
 Co. Rep / Geo. Rod Phares Cont. Allen Rig #6 Est. Ft. of Pay 6 Por. 10 %  
 Location: Sec. 23 Twp. 34S Rge. 29W Co. MEADE State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 5210'-5293' Initial Str Wt./Lbs. 94000 Unseated Str Wt./Lbs. 97000  
 Anchor Length 83' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 20000  
 Top Packer Depth 5205' Tool Weight 1800  
 Bottom Packer Depth 5210' Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 5293' Wt. Pipe Run NA Drill Collar Run 588'  
 Mud Wt. 8.9 LCM 3 Vis. 46 WL 7.2 Drill Pipe Size 5 I 7 Ft. Run 4180'  
 Blow Description 17-Strong blow BOB 1.5 min.  
17I- No blow back  
17I- Strong blow BOB AS SOON AS OPEN  
17I- No blow back

Recovery — Total Feet 300' GIP 4080' Ft. in DC \_\_\_\_\_ Ft. in DP \_\_\_\_\_  
 Rec. 60' Feet Of 56C mud %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water 100%mud  
 Rec. 120' Feet Of 50C ~~mud~~ Gassy mud 10%gas \_\_\_\_\_ %oil \_\_\_\_\_ %water 90%mud  
 Rec. 60' Feet Of 50C Gassy mud 25%gas \_\_\_\_\_ %oil \_\_\_\_\_ %water 75%mud  
 Rec. 60' Feet Of 50C muddy gas 90%gas \_\_\_\_\_ %oil \_\_\_\_\_ %water 10%mud  
 Rec. \_\_\_\_\_ Feet Of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 2900 ppm System

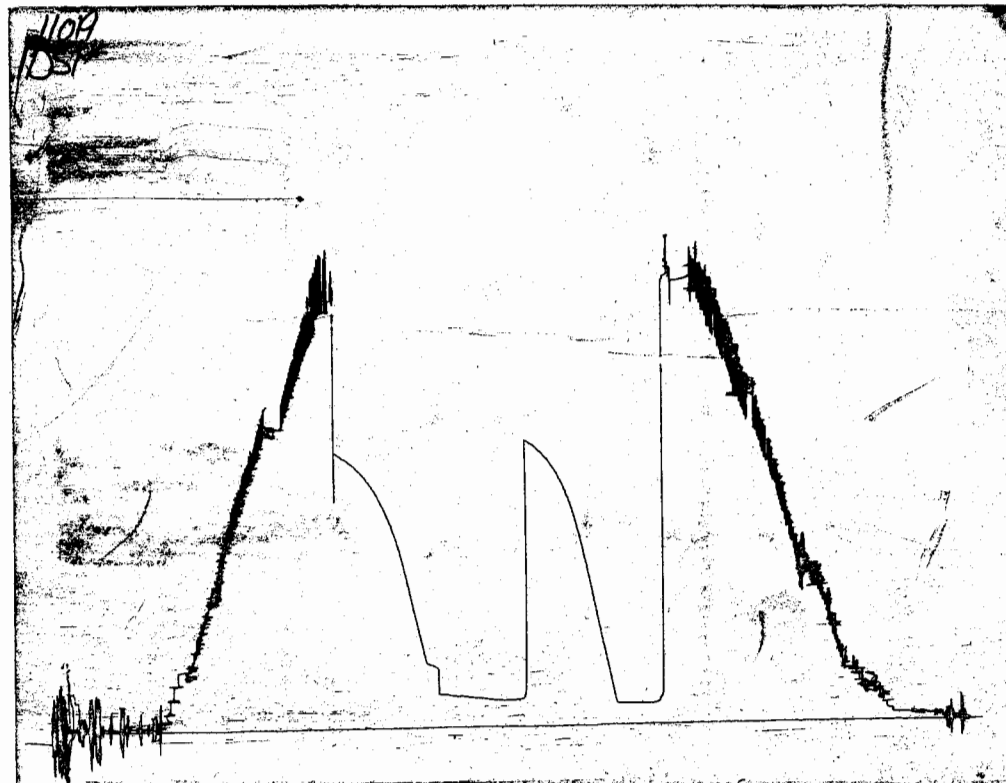
	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2681</u>	<u>3027</u>	<u>18:45</u>
(B) First Initial Flow Pressure		<u>91</u>	(depth) <u>5212'</u>	T-Started <u>21:00</u>
(C) First Final Flow Pressure		<u>86</u>	PSI Recorder No. <u>11019</u>	T-Open <u>23:50</u> 11:15
(D) Initial Shut-In Pressure		<u>1627</u>	(depth) <u>5291'</u>	T-Pulled <u>03:20</u>
(E) Second Initial Flow Pressure		<u>97</u>	PSI Recorder No. _____	T-Out <u>06:00</u>
(F) Second Final Flow Pressure		<u>162</u>	(depth) _____	T-Off Location _____
(G) Final Shut-in Pressure		<u>1587</u>	PSI Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> Conventional / 900
(Q) Final Hydrostatic Mud		<u>2534</u>	PSI Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> 200
			Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> 50
			Final Shut-in <u>60</u>	Straddle _____
				Circ. Sub _____
				Sampler _____
				Extra Packer _____
				Elec. Rec. <input checked="" type="checkbox"/> 150
				Mileage <input checked="" type="checkbox"/> 65.00 70
				Other <u>1/4 hrs std by 30</u>
				TOTAL PRICE \$ <u>1400.50</u> 1400

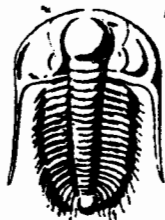
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Approved By Rod A. Phares  
 Our Representative Brian L. Wallack

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14574

## Test Ticket

Well Name & No. CIMARRON BLUFF #1 Test No. 9 Date 01-10-02  
 Company GREAT PLAINS PETRO Zone Tested MARLOW  
 Address 281 Circle Drive Wichita, KS 67218 Elevation 2481 KB 2492 GL  
 Co. Rep / Geo. John Christensen, Allen Rig 6 Est. Ft. of Pay      Por.      %  
 Location: Sec. 23 Twp. 34S Rge. 29W Co. Meade State Ks  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 5709-5834 Initial Str Wt./Lbs. 100000 Unseated Str Wt./Lbs. 118000  
 Anchor Length 125 Wt. Set Lbs. 30000 Wt. Pulled Loose/Lbs. 122,000  
 Top Packer Depth 5705 Tool Weight 1800  
 Bottom Packer Depth 5709 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth 5834 Wt. Pipe Run      Drill Collar Run 588  
 Mud Wt. 9.0 LCM 2 Vis. 46 WL 7.2 Drill Pipe Size 4 1/2 IF Ft. Run 5110  
 Blow Description IF - Very Strong blow BOP 1min, GTS 4min, "Gas will burn"  
ISI - Bled off pressure then shut in  
FF - Gungging Gas. "Gas will burn"  
FSTI - Bled off pressure & Blow back built to 1 1/2

Recovery — Total Feet 30 GIP      Ft. in DC 30 Ft. in DP       
 Rec. 30 Feet Of GCM %gas      %oil      %water 100 %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 121 °F Gravity      °API D@      °F Corrected Gravity      °API       
 RW      @      °F Chlorides      ppm Recovery Chlorides 2100 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2993</u>	<u>2993</u>	<u>2341</u>	<u>0130</u>
(B) First Initial Flow Pressure	<u>1122</u>	<u>1122</u>	(depth) <u>5711</u>	T-Started <u>0356</u>
(C) First Final Flow Pressure	<u>751</u>	<u>751</u>	PSI Recorder No. <u>13423</u>	T-Open <u>0634</u>
(D) Initial Shut-In Pressure	<u>1981</u>	<u>1981</u>	(depth) <u>5834</u>	T-Pulled <u>1005</u>
(E) Second Initial Flow Pressure	<u>767</u>	<u>767</u>	PSI Recorder No. <u>    </u>	T-Out <u>1315</u>
(F) Second Final Flow Pressure	<u>742</u>	<u>742</u>	(depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure	<u>1967</u>	<u>1967</u>	PSI Initial Opening <u>15</u>	Test <u>✓</u> <u>900</u>
(Q) Final Hydrostatic Mud	<u>2636</u>	<u>2636</u>	PSI Initial Shut-in <u>45</u>	Jars <u>✓</u> <u>200</u>
			Final Flow <u>60</u>	Safety Joint <u>✓</u> <u>50</u>
			Final Shut-in <u>90</u>	Straddle <u>    </u>

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Approved By John Christensen  
 Our Representative John Kublay

Extra Packer       
 Elec. Rec. ✓ 150  
 Mileage 70  
 Other 2 hrs 60  
 TOTAL PRICE \$ 1430



# NATURAL GAS ANALYSIS REPORT

**Sampled by:**  
 Trilobite Testing, Inc.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 785-625-5620

**Analyzed by:**  
 Caraway Analytical, Inc  
 P. O. Box 2137  
 Liberal, Kansas 67905  
 Phone: 620-624-5389  
 Fax: 620-626-7108

**Lab Number:** 2002008      **Analyzed:** 01/11/02

**Sample From:** Cimarron Bluff #1 DST 9      **Pressure:**  
**Producer:** Great Plains Petroleum      **Temperature:**

**Date:** 28-34-29

**Time:**      **County:** Meade  
**Sampler:**      **State:** Kansas  
**Source:**      **Formation:** Morrow

	Mole %	GPM
Helium	He: 0.156	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 5.460	0.000
Carbon Dioxide	CO2: 0.118	0.000
Methane	C1: 82.487	0.000
Ethane	C2: 6.176	1.652
Propane	C3: 3.519	0.970
Iso Butane	iC4: 0.447	0.146
Normal Butane	nC4: 0.897	0.283
Iso Pentane	iC5: 0.227	0.083
Normal Pentane	nC5: 0.262	0.095
Hexanes Plus	C6+: 0.251	0.110

**TOTAL:** 100.000      3.338

**Z Fact:** 0.9973

**SP.GR.:** 0.6787

**BTU (SAT):** 1093.3 @ 14.73 psia

**BTU (DRY):** 1112.7 @ 14.73 psia

**OCTANE RATING: 118.7**

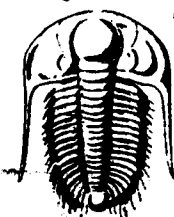
**COMMENTS:**

0.000

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15372

## Test Ticket

Well Name & No. CIMARRON Bluff #1 Test No. 10 Date 1/12/02  
 Company GREAT PLAINS Petroleum Zone Tested St. Louis  
 Address 221 Circle Dr. WICHITA KS 67218 Elevation 2481 KB 2470 GL  
 Co. Rep / Geo. Jon Christensen Cont. Allen Daly Est. Ft. of Pay      Por.      %  
 Location: Sec. 23 Twp. 34S Rge. 29W Co. MEADE State KS  
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 6383-6424 Initial Str Wt./Lbs. 102,000 Unseated Str Wt./Lbs. 103,000  
 Anchor Length 41 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 150,000  
 Top Packer Depth 6378 Tool Weight 2100  
 Bottom Packer Depth 6383 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth 6424 Wt. Pipe Run 0 Drill Collar Run 630  
 Mud Wt. 9.0 LCM 3# Vis. 63 WL 6.4 Drill Pipe Size 4 1/2 IF Ft. Run 5795  
 Blow Description IF: Strong below. CTS in 2 mins. (see gas volume report) ISI: No blow back.  
FF: Strong below. (see gas volume report) FSI: No blow back.

Recovery — Total Feet 61 GIP yes Ft. in DC 61 Ft. in DP 0  
 Rec. 61 Feet Of Clean oil %gas 100 %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 123 °F Gravity 36 @ 56°F API D @ 56 °F Corrected Gravity 35 °API  
 RW N/O @      °F Chlorides N/A ppm Recovery Chlorides 2000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>3416</u>		<u>3289</u>	<u>1350</u>
(B) First Initial Flow Pressure		<u>670</u>		(depth) <u>6384</u>	T-Started <u>1428</u>
(C) First Final Flow Pressure		<u>618</u>		Recorder No. <u>10742</u>	T-Open <u>1742</u>
(D) Initial Shut-In Pressure		<u>2162</u>		(depth) <u>6384</u>	T-Pulled <u>2148</u>
(E) Second Initial Flow Pressure		<u>611</u>		Recorder No. <u>    </u>	T-Out <u>0035</u>
(F) Second Final Flow Pressure		<u>600</u>		(depth) <u>    </u>	T-Off Location <u>0150</u>
(G) Final Shut-in Pressure		<u>2103</u>		Initial Opening <u>15</u>	Test <u>✓</u> <u>1000<sup>00</sup></u>
(Q) Final Hydrostatic Mud		<u>3005</u>		Initial Shut-in <u>45</u>	Jars <u>✓</u> <u>200<sup>00</sup></u>
				Final Flow <u>60</u>	Safety Joint <u>✓</u> <u>50<sup>00</sup></u>
				Final Shut-in <u>90</u>	Straddle <u>    </u>
					Circ. Sub <u>    </u>
					Sampler <u>    </u>
					Extra Packer <u>    </u>
					Elec. Rec. <u>✓</u> <u>150<sup>00</sup></u>
					Mileage <u>✓</u> <u>70</u> ?
					Other <u>    </u>

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Approved By [Signature] Our Representative [Signature]  
 TOTAL PRICE \$ 1470



# CHART PAGE

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

