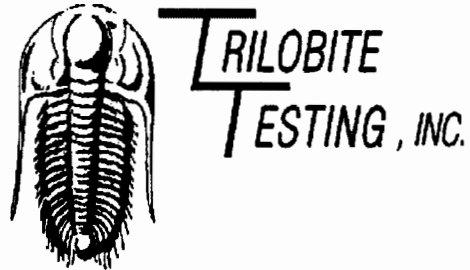


15-119-21101

13-34s-29w



## DRILL STEM TEST REPORT

Prepared For: **Great Plains Pet**

221 Circle Dr  
Wichita Ks 67218

ATTN: Brad Rine

**13 34s 29w**

**Skunkie Bluff**

Start Date: 2003.04.19 @ 05:58:20

End Date: 2003.04.19 @ 17:36:50

Job Ticket #: 17827                      DST #: 1

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Great Plains Pet

**Skunkle Bluff**

221 Circle Dr  
Wichita Ks 67218

**13 34s 29w**

Job Ticket: 17827

**DST#: 1**

ATTN: Brad Rine

Test Start: 2003.04.19 @ 05:58:20

### GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:25:20

Time Test Ended: 17:36:50

Test Type: Conventional Bottom Hole

Tester: Wenrich

Unit No: 24

Interval: **5790.00 ft (KB) To 5864.00 ft (KB) (TVD)**

Reference Elevations: 2510.00 ft (KB)

Total Depth: 5864.00 ft (KB) (TVD)

2500.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition:

KB to GR/CF: 10.00 ft

**Serial #: 3310**

Inside

Press@RunDepth: 113.69 psig @ 5794.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.04.19 End Date: 2003.04.19

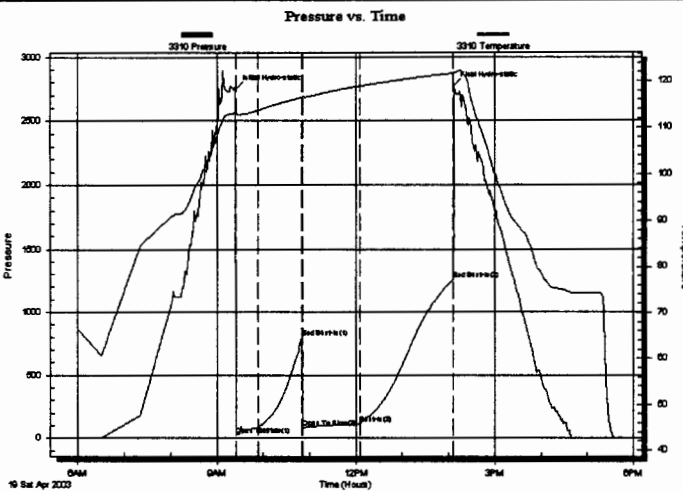
Last Calib.: 1899.12.30

Start Time: 05:58:25 End Time: 17:36:50

Time On Btm: 2003.04.19 @ 09:24:50

Time Off Btm: 2003.04.19 @ 14:07:35

**TEST COMMENT:** IF:Weak blow .1/4"-1 1/2" in bucket.  
IS:No blow  
FF:Fair blow .1/4"-6 1/2" in bucket.  
FS:No blow .



### PRESSURE SUMMARY

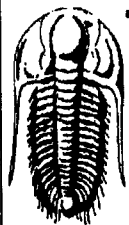
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2749.70	113.17	Initial Hydro-static
1	25.31	113.09	Open To Flow (1)
29	88.32	113.73	Shut-In(1)
86	797.06	116.51	End Shut-In(1)
87	84.71	116.64	Open To Flow (2)
160	113.69	118.89	Shut-In(2)
282	1259.29	121.64	End Shut-In(2)
283	2774.29	121.95	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	mw os	0.59
65.00	m	0.32

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Pet  
221 Circle Dr  
Wichita Ks 67218  
  
ATTN: Brad Rine

**Skunkie Bluff**  
**13 34s 29w**  
Job Ticket: 17827      **DST#: 1**  
Test Start: 2003.04.19 @ 05:58:20

### Tool Information

Drill Pipe:	Length: 5255.00 ft	Diameter: 3.80 inches	Volume: 73.71 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: 540.00 ft	Diameter: 2.25 inches	Volume: 2.66 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 76.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 100000.0 lb
Depth to Top Packer:	5790.00 ft			Final 101000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	99.00 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			5766.00	
S.I. Tool	5.00			5771.00	
HMV	5.00			5776.00	
Jars	5.00			5781.00	
Safety Joint	0.00			5781.00	
Packer	4.00			5785.00	25.00      Bottom Of Top Packer
Packer	5.00			5790.00	
Stubb	1.00			5791.00	
Recorder	3.00	3310	Inside	5794.00	
C.O. Sub	1.00			5795.00	
Blank Spacing	62.00			5857.00	
C.O. Sub	0.00			5857.00	
Perforations	5.00			5862.00	
Recorder	0.00	10242	Outside	5862.00	
Bullnose	2.00			5864.00	74.00      Bottom Packers & Anchor

**Total Tool Length: 99.00**



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Pet  
221 Circle Dr  
Wichita Ks 67218  
ATTN: Brad Rine

**Skunkie Bluff**  
**13 34s 29w**  
Job Ticket: 17827      **DST#: 1**  
Test Start: 2003.04.19 @ 05:58:20

### 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:	48.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.19 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3500.00 ppm				
Filter Cake:	0.20 inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	mw os	0.590
65.00	m	0.320

Total Length: 185.00 ft      Total Volume: 0.910 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

Serial #: 3310

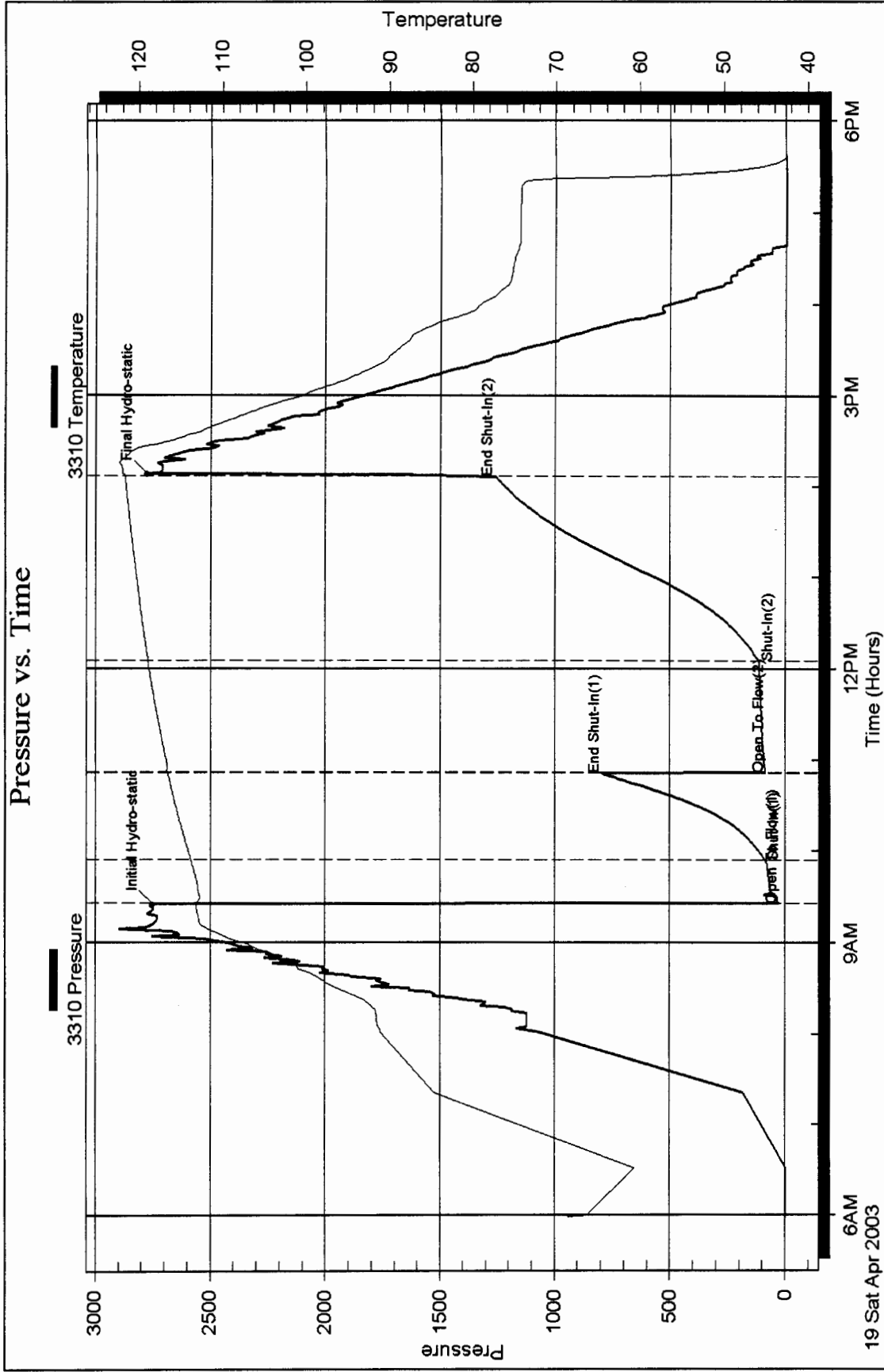
Inside

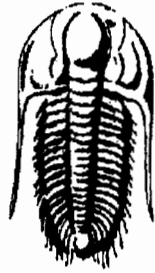
Great Plains Pet

13 34s 29w

DST Test Number: 1

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Great Plains Pet**

221 Circle Dr  
Wichita Ks 67218

ATTN: Brad Rine

**13 34s 29w**

**Skunkie Bluff**

Start Date: 2003.04.20 @ 03:28:32

End Date: 2003.04.20 @ 12:16:32

Job Ticket #: 16053                      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 Pet  
221 Circle Dr  
Wichita Ks 67218  
ATTN: Brad Rine

**Skunkie Bluff**  
**13 34s 29w**  
Job Ticket: 16053      **DST#: 2**  
Test Start: 2003.04.20 @ 03:28:32

### GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 06:27:17  
Time Test Ended: 12:16:32

Test Type: Conventional Bottom Hole  
Tester: Blake Wallace  
Unit No: 20

Interval: **5790.00 ft (KB) To 5885.00 ft (KB) (TVD)**  
Total Depth: 5885.00 ft (KB) (TVD)  
Hole Diameter: 7.79 inches      Hole Condition: Good

Reference Elevations: 2510.00 ft (KB)  
2500.00 ft (CF)  
KB to GR/CF: 10.00 ft

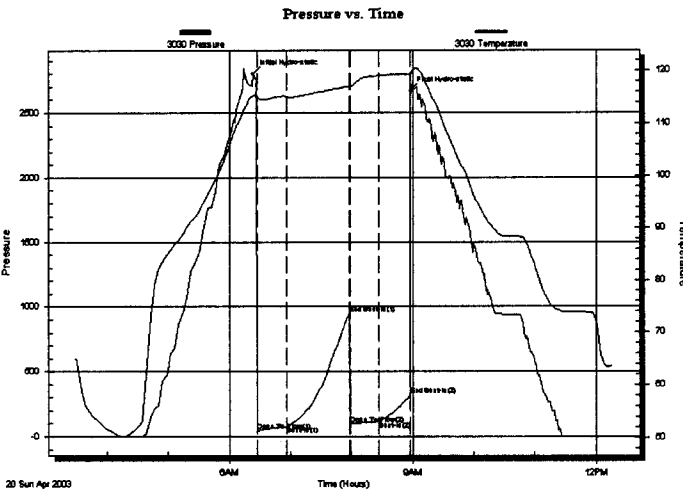
### Serial #: 3030

Inside

Press@RunDepth: 116.00 psig @ 5793.00 ft (KB)  
Start Date: 2003.04.20      End Date: 2003.04.20  
Start Time: 03:28:36      End Time: 12:16:32

Capacity: 7000.00 psig  
Last Calib.: 1899.12.30  
Time On Btm: 2003.04.20 @ 06:23:17  
Time Off Btm: 2003.04.20 @ 08:57:47

TEST COMMENT: IF-weak blow built to 4 inches  
IS-no blow back  
FF-no blow  
FSI- no blow back



### PRESSURE SUMMARY

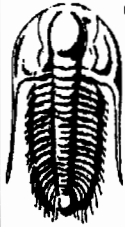
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2800.01	115.31	Initial Hydro-static
4	40.35	115.22	Open To Flow (1)
33	77.22	115.10	Shut-In(1)
95	946.87	117.06	End Shut-In(1)
96	96.23	117.08	Open To Flow (2)
124	116.00	119.11	Shut-In(2)
154	315.53	119.38	End Shut-In(2)
155	2667.13	119.40	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
196.00	100% mudh	0.96

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Great Plains Pet

**Skunkie Bluff**

221 Circle Dr  
Wichita Ks 67218

**13 34s 29w**

Job Ticket: 16053

**DST#: 2**

ATTN: Brad Rine

Test Start: 2003.04.20 @ 03:28:32

### Tool Information

Drill Pipe:	Length: 5230.00 ft	Diameter: 3.80 inches	Volume: 73.36 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: 541.00 ft	Diameter: 2.25 inches	Volume: 2.66 bbl	Weight to Pull Loose:	135000.0 lb
			<u>Total Volume: 76.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	100000.0 lb
Depth to Top Packer:	5790.00 ft			Final	100000.0 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	95.00 ft				
Tool Length:	117.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

### Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5769.00	
S.I. Tool	5.00			5774.00	
HMV	5.00			5779.00	
Safety Joint	2.00			5781.00	
Packer	5.00			5786.00	22.00 Bottom Of Top Packer
Packer	4.00			5790.00	
Stubb	1.00			5791.00	
Perforations	2.00			5793.00	
Recorder	0.00	3030	Inside	5793.00	
Perforations	25.00			5818.00	
Change Over Sub	1.00			5819.00	
Blank Spacing	62.00			5881.00	
Change Over Sub	1.00			5882.00	
Recorder	0.00	11019	Outside	5882.00	
Bullnose	3.00			5885.00	95.00 Bottom Packers & Anchor

**Total Tool Length: 117.00**



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Great Plains Pet

**Skunkie Bluff**

221 Circle Dr  
Wichita Ks 67218

**13 34s 29w**

Job Ticket: 16053

**DST#: 2**

ATTN: Brad Rine

Test Start: 2003.04.20 @ 03:28:32

### 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
196.00	100% mudh	0.964

Total Length: 196.00 ft

Total Volume: 0.964 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3030

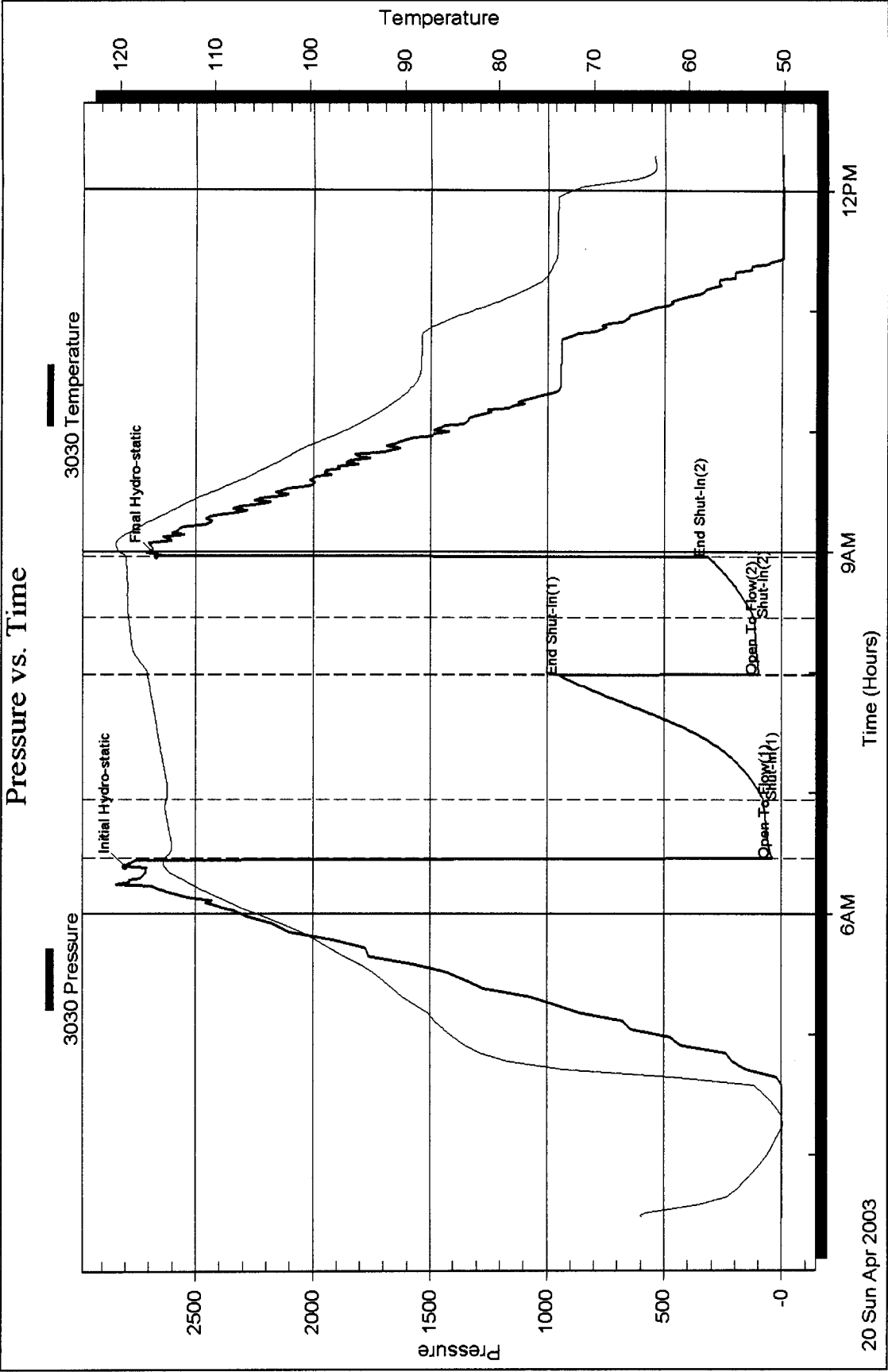
Inside

Great Plains Pet

13 34s 29w

DST Test Number: 2

### Pressure vs. Time



20 Sun Apr 2003



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV #5527

No 17827

12/02

## Test Ticket

Well Name & No. SKUNKIE BLUFF Test No. 1 Date 4/18/03  
 Company Great Plains Pet Zone Tested MORROW  
 Address 221 Circle Dr. WICHITA, KS 67218 Elevation 2510 KB 2500 GL  
 Co. Rep / Geo. BRAD RINE Cont. VAL DALY RIG #12 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 13 Twp. 34s Rge. 29W Co. MEADE State KS  
 No. of Copies 5 Distribution Sheet (Y, N) ✓ Turnkey (Y, N) ✓ Evaluation (Y, N) ✓

Interval Tested 5790 5864 Initial Str Wt./Lbs. 100,000 Unseated Str Wt/Lbs. 10,000  
 Anchor Length \_\_\_\_\_ 74 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 120,000  
 Top Packer Depth \_\_\_\_\_ 6785 Tool Weight 2100  
 Bottom Packer Depth \_\_\_\_\_ 5790 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth \_\_\_\_\_ 5864 Wt. Pipe Run 0 Drill Collar Run 540  
 Mud Wt. 9.0 LCM 2 Vis. 48 WL 8.2 Drill Pipe Size 4 1/2 X+1 Ft. Run 5255  
 Blow Description IF: Weak blow. 1/4" - 1/2" in bucket. ISF: No blow  
FF: Fair blow. 1/4" - 6 1/2" in bucket. FSI: No blow

Recovery - Total Feet 145 GIP N/A Ft. in DC 185 Ft. in DP 0  
 Rec. 65 Feet of m  
 Rec. 120 Feet of MWOS  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 BHT 122 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 3500 ppm System

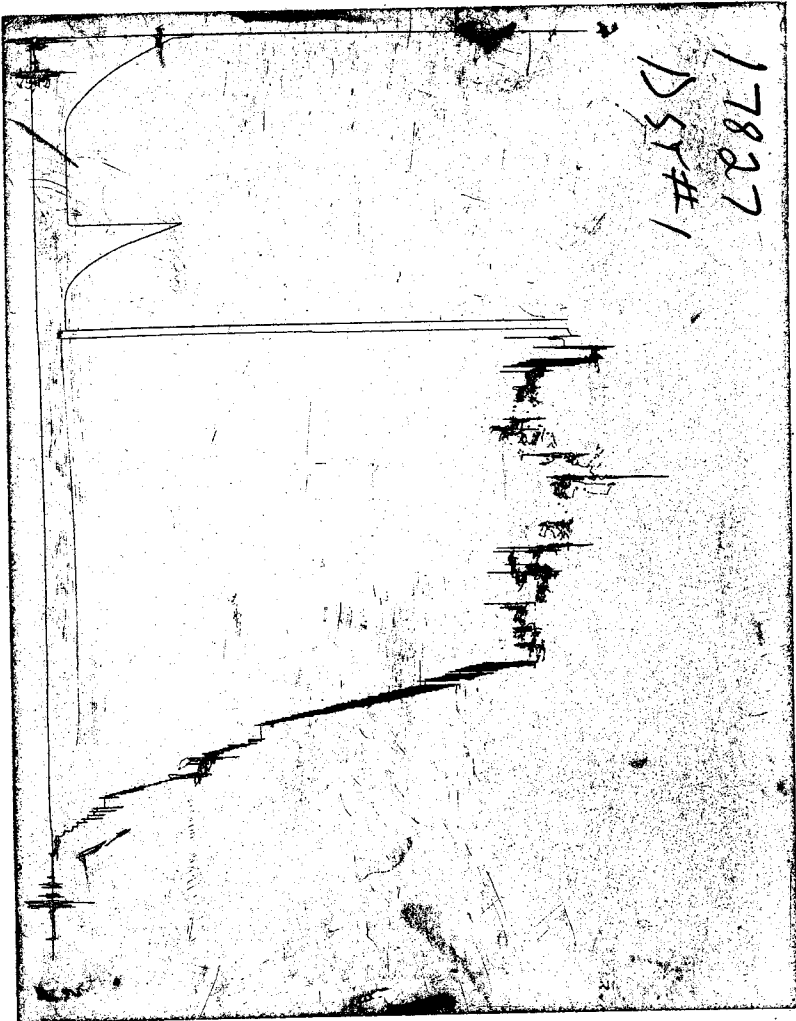
	AK-1	Alpine	Recorder No.	Test	
(A) Initial Hydrostatic Mud		<u>2750</u> PSI	<u>3310</u>	<u>900</u>	<u>900</u>
(B) First Initial Flow Pressure		<u>25</u> PSI	(depth) <u>5791</u>	Elec. Rec. <u>150</u>	<u>150</u>
(C) First Final Flow Pressure		<u>88</u> PSI	Recorder No. <u>10242</u>	Jars <u>200</u>	<u>200</u>
(D) Initial Shut-In Pressure		<u>797</u> PSI	(depth) <u>5862</u>	Safety Jt. <u>50</u>	<u>50</u>
(E) Second Initial Flow Pressure		<u>85</u> PSI	Recorder No. _____	Circ Sub _____	
(F) Second Final Flow Pressure		<u>114</u> PSI	(depth) _____	Sampler _____	
(G) Final Shut-In Pressure		<u>1259</u> PSI	Initial Opening <u>30</u>	Straddle _____	
(Q) Final Hydrostatic Mud		<u>2774</u> PSI	Initial Shut-In <u>60</u>	Ext. Packer _____	
			Final Flow <u>75</u>	Shale Packer _____	
			Final Shut-In <u>120</u>	Mileage <u>125</u>	<u>73</u>
			T-On Location <u>2330</u>	Sub Total: <u>1373</u>	
			T-Started <u>0558</u>	Std. By <u>6 hrs</u>	<u>120</u>
			T-Open <u>0925</u>	Other _____	
			T-Pulled <u>1408</u>	Total: <u>\$ 1683</u>	
			T-Out <u>1737</u>		

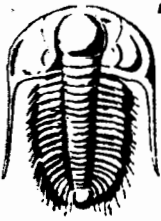
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By W. U. F. [Signature]  
 Our Representative Jim Herrick

**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16053

## Test Ticket

Well Name & No. Skunkie Bluff #1 Test No. 2 Date 4-20-03  
 Company Great Plains Petroleum Zone Tested Morrow  
 Address 221 Gillee Dr Wichita KS 67218 Elevation 2510' KB 2498' GL  
 Co. Rep / Geo. Brad Rine Cont. VAL Rig #2 Est. Ft. of Pay      Por.      %  
 Location: Sec. 13 Twp. 34 Rge. 29 Co. MEADE State KS  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 5790'-5885' Initial Str Wt./Lbs. 10000 Unseated Str Wt./Lbs. 10000  
 Anchor Length 25' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 135000  
 Top Packer Depth 5785' Tool Weight 1800  
 Bottom Packer Depth 5790' Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 5885' Wt. Pipe Run N/A Drill Collar Run 541'  
 Mud Wt. 9.0 LCM 4 Vis. 50 WL 8.8 Drill Pipe Size 4.5 X 4 Ft. Run 5230'

Blow Description IF-weak blow built to 4 inches  
ISI- No blow back  
IF- No blow  
ISI- No blow back

Recovery	Total Feet	GIP	Ft. in DC		Ft. in DP	
Rec.	<u>196'</u>	<u>Mud</u>	%gas	%oil	%water	<u>100%</u> mud
Rec.			%gas	%oil	%water	%mud
Rec.			%gas	%oil	%water	%mud
Rec.			%gas	%oil	%water	%mud
Rec.			%gas	%oil	%water	%mud

BHT 119 °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 2800 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2900</u>		<u>3030</u>	<u>02:00</u>
(B) First Initial Flow Pressure		<u>40</u>		(depth) <u>5793'</u>	T-Started <u>03:30</u>
(C) First Final Flow Pressure		<u>77</u>		PSI Recorder No. <u>11019</u>	T-Open <u>06:25</u>
(D) Initial Shut-In Pressure		<u>946</u>		(depth) <u>5882'</u>	T-Pulled <u>09:55</u>
(E) Second Initial Flow Pressure		<u>96</u>		PSI Recorder No. <u>    </u>	T-Out <u>12:15</u>
(F) Second Final Flow Pressure		<u>116</u>		(depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure		<u>315</u>		PSI Initial Opening <u>30</u>	Test <u>Conventional</u>
(Q) Final Hydrostatic Mud		<u>2667</u>		PSI Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/>
				Final Flow <u>30</u>	Safety Joint <input checked="" type="checkbox"/>
				Final Shut-in <u>30</u>	Straddle <u>    </u>
					Circ. Sub <u>    </u>
					Sampler <u>    </u>
					Extra Packer <u>    </u>
					Elec. Rec. <input checked="" type="checkbox"/>
					Mileage <u>73.00</u>
					Other <u>WHSK by</u>
					TOTAL PRICE \$ <u>1380.50</u>

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Approved By Brad Rine  
 Our Representative Bob Walker

900  
200  
50  
150  
73  
1373  
7.50  
1200.50

# CHART PAGE

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

