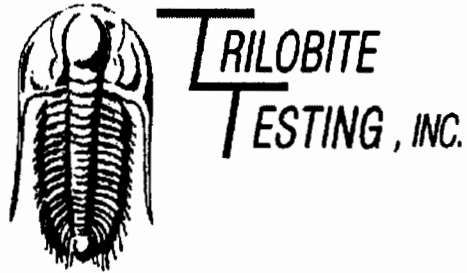


15-047-21477

30-26s-20w



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petl.Corp.**

P.O.Box 780208  
Wichita Ks. 67278

ATTN: Chris Peters

**30-26s-20w Edwards K**

**Speirs A #4-30**

Start Date: 2003.04.12 @ 16:13:57

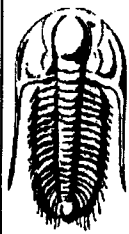
End Date: 2003.04.12 @ 23:57:12

Job Ticket #: 16867                      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

McCoy Petl. Corp.

**Speirs A #4-30**

P.O.Box 780208  
Wichita Ks. 67278

**30-26s-20w Edwards K**

Job Ticket: 16867

**DST#: 1**

ATTN: Chris Peters

Test Start: 2003.04.12 @ 16:13:57

### GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 18:06:12

Time Test Ended: 23:57:12

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4736.00 ft (KB) To 4793.00 ft (KB) (TVD)**

Reference Elevations: **2268.00 ft (KB)**

Total Depth: **4793.00 ft (KB) (TVD)**

**2259.00 ft (CF)**

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

KB to GR/CF: **9.00 ft**

**Serial #: 2342** **Inside**

Press@RunDepth: **140.61 psig @ 4737.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2003.04.12**

End Date:

**2003.04.12**

Last Calib.: **2003.04.13**

Start Time: **16:13:58**

End Time:

**23:57:12**

Time On Btm: **2003.04.12 @ 17:55:57**

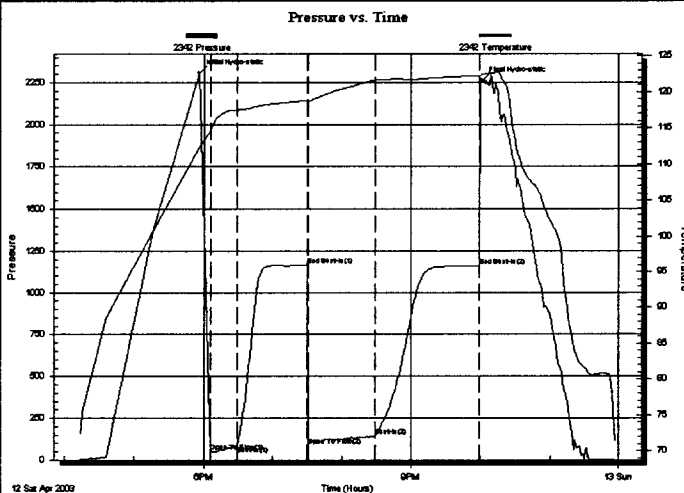
Time Off Btm: **2003.04.12 @ 22:01:12**

TEST COMMENT: **F:Strong blow . B.O.B. in 1 min.**

**IS:No blow .**

**FF:Strong blow . B.O.B. in 1 min.**

**FS:No blow .**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2307.97	112.40	Initial Hydro-static
11	51.06	114.60	Open To Flow (1)
33	85.64	117.51	Shut-In(1)
94	1161.93	118.83	End Shut-In(1)
95	86.06	118.81	Open To Flow (2)
153	140.61	121.69	Shut-In(2)
244	1157.65	122.29	End Shut-In(2)
246	2261.97	122.41	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCWM 4%g 4%o 46%w 46%m Rw	.380.31
0.00	ohms @ 59 deg. F	0.00
62.00	GOCWM 10%g 2%o 28%w 60%m	0.30
175.00	GCM with a trace of oil 12%g 88%m	1.33
0.00	2670 ft. of gas in pipe	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petl. Corp.

**Speirs A #4-30**

P.O.Box 780208  
Wichita Ks. 67278

**30-26s-20w Edwards K**

Job Ticket: 16867

**DST#: 1**

ATTN: Chris Peters

Test Start: 2003.04.12 @ 16:13:57

### Tool Information

Drill Pipe:	Length: 4498.00 ft	Diameter: 3.80 inches	Volume: 63.10 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 64.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4736.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	77.00 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			4717.00	
S.I. Tool	5.00			4722.00	
HMV	5.00			4727.00	
Packer	4.00			4731.00	20.00 Bottom Of Top Packer
Packer	5.00			4736.00	
Stubb	1.00			4737.00	
Recorder	0.00	2342	Inside	4737.00	
Perforations	3.00			4740.00	
C.O. Sub	1.00			4741.00	
Blank Spacing	31.00			4772.00	
C.O. Sub	1.00			4773.00	
Perforations	15.00			4788.00	
Recorder	0.00	13222	Outside	4788.00	
Bullnose	5.00			4793.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 77.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

McCoy Petr. Corp.

**Speirs A #4-30**

P.O. Box 780208  
Wichita Ks. 67278

**30-26s-20w Edwards K**

Job Ticket: 16867

**DST#: 1**

ATTN: Chris Peters

Test Start: 2003.04.12 @ 16:13:57

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	GOCWM 4%g 4%o 46%w 46%m Rw .38	0.310
0.00	ohms @ 59 deg. F	0.000
62.00	GOCWM 10%g 2%o 28%w 60%m	0.305
175.00	GCM with a trace of oil 12%g 88%m	1.334
0.00	2670 ft. of gas in pipe	0.000

Total Length: 300.00 ft

Total Volume: 1.949 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 2342

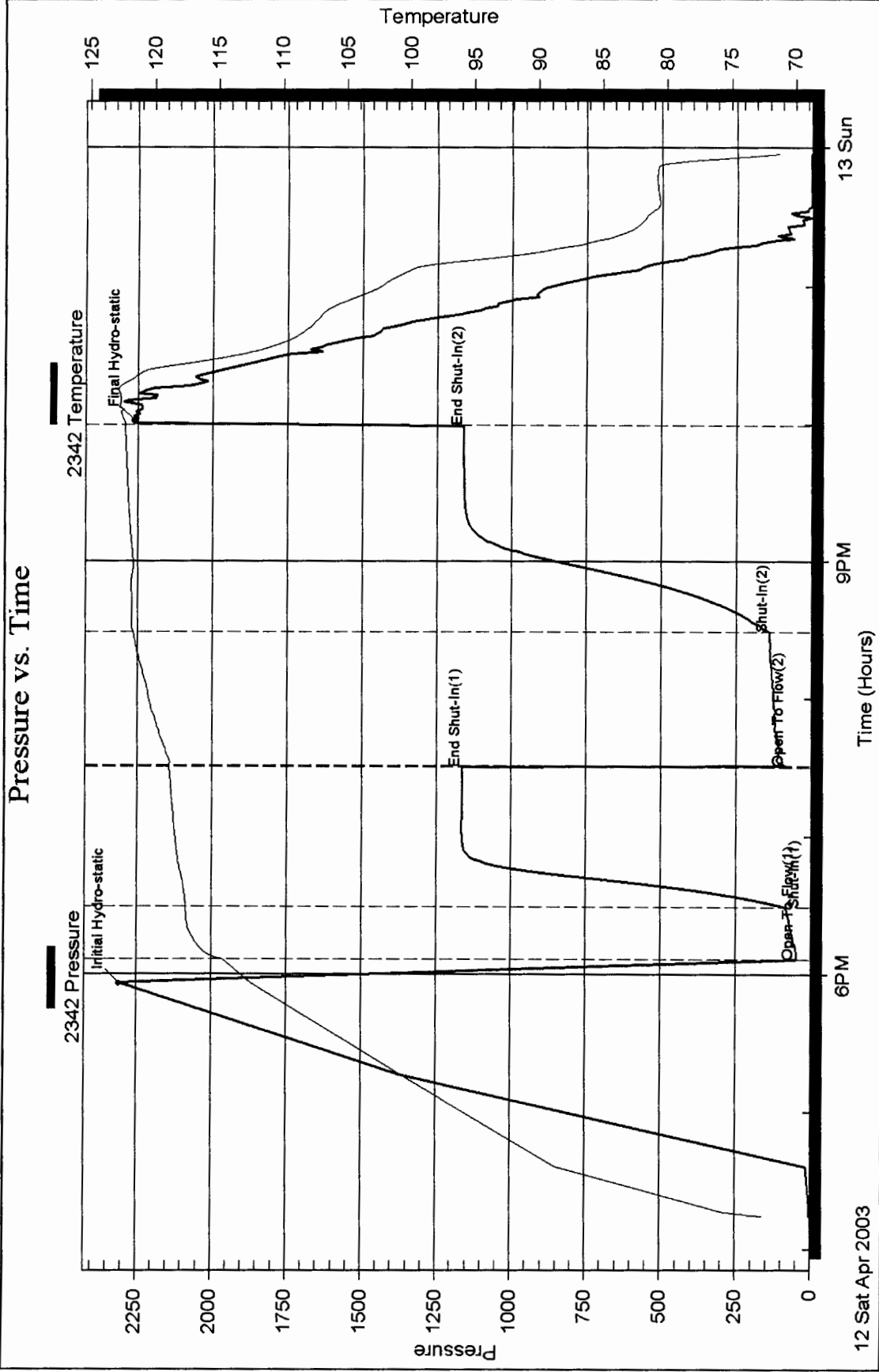
Inside

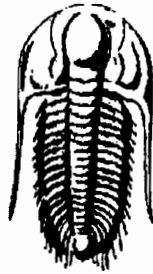
McCoy Petl. Corp.

30-26s-20w Edwards K

DST Test Number: 1

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **McCoy Petl.Corp.**

P.O.Box 780208  
Wichita Ks. 67278

ATTN: Chris Peters

**30-26s-20w Edwards K**

**Speirs A #4-30**

Start Date: 2003.04.13 @ 06:42:01

End Date: 2003.04.13 @ 14:59:46

Job Ticket #: 16868                      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

McCoy Petr. Corp.

**Speirs A #4-30**

P.O.Box 780208  
Wichita Ks. 67278

**30-26s-20w Edwards K**

Job Ticket: 16868

**DST#: 2**

ATTN: Chris Peters

Test Start: 2003.04.13 @ 06:42:01

## GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 08:35:46

Time Test Ended: 14:59:46

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4735.00 ft (KB) To 4798.00 ft (KB) (TVD)**

Total Depth: **4798.00 ft (KB) (TVD)**

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

Reference Elevations: **2268.00 ft (KB)**

**2259.00 ft (CF)**

KB to GR/CF: **9.00 ft**

**Serial #: 2342**

**Inside**

Press@RunDepth: **419.59 psig @ 4736.00 ft (KB)**

Start Date: **2003.04.13**

End Date: **2003.04.13**

Capacity: **7000.00 psig**

Last Calib.: **2003.04.13**

Start Time: **06:42:02**

End Time: **14:59:46**

Time On Btrm: **2003.04.13 @ 08:33:31**

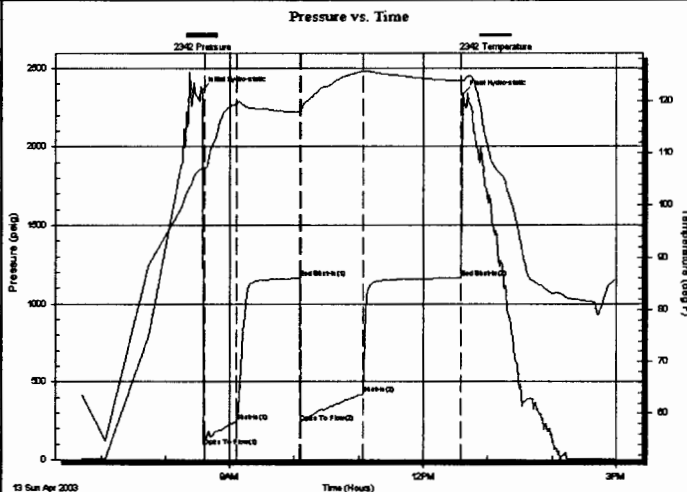
Time Off Btrm: **2003.04.13 @ 12:36:46**

TEST COMMENT: **IF: Strong blow . B.O.B. in 1 1/2 mins.**

**IS: Weak blow . 1/2 - 2".**

**FF: Strong blow . B.O.B. in 1 min. GTS in 55 mins. TSTM**

**FS: Fair to strong blow . B.O.B.**



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2359.83	107.05	Initial Hydro-static
3	85.81	107.21	Open To Flow (1)
32	242.17	119.38	Shut-In (1)
92	1160.51	118.00	End Shut-In (1)
93	237.22	118.02	Open To Flow (2)
150	419.59	125.62	Shut-In (2)
242	1162.43	123.73	End Shut-In (2)
244	2331.72	123.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
435.00	Salt water with oil specs 1%o 99%w	3.84
0.00	Rw .21 ohms @76 deg. F	0.00
185.00	GOCMW 10%g 15%o 30%m 45%w	2.60
180.00	GCWM 12%g 23%w 65%m	2.52
130.00	GCM with a trace of oil	1.82

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petl. Corp.

Speirs A #4-30

P.O.Box 780208  
Wichita Ks. 67278

30-26s-20w Edwards K

Job Ticket: 16868

DST#: 2

ATTN: Chris Peters

Test Start: 2003.04.13 @ 06:42:01

### Tool Information

Drill Pipe:	Length: 4498.00 ft	Diameter: 3.80 inches	Volume: 63.10 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 90000.00 lb
		<b>Total Volume:</b>	<b>64.32 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4735.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	83.00 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			4716.00	
S.I. Tool	5.00			4721.00	
HMV	5.00			4726.00	
Packer	4.00			4730.00	20.00 Bottom Of Top Packer
Packer	5.00			4735.00	
Stubb	1.00			4736.00	
Recorder	0.00	2342	Inside	4736.00	
Perforations	4.00			4740.00	
C.O. Sub	1.00			4741.00	
Blank Spacing	31.00			4772.00	
C.O. Sub	1.00			4773.00	
Perforations	20.00			4793.00	
Recorder	0.00	13222	Outside	4793.00	
Bullnose	5.00			4798.00	63.00 Bottom Packers & Anchor

**Total Tool Length: 83.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

McCoy Petl. Corp.

**Speirs A #4-30**

P.O.Box 780208  
Wichita Ks. 67278

**30-26s-20w Edwards K**

Job Ticket: 16868      **DST#: 2**

ATTN: Chris Peters

Test Start: 2003.04.13 @ 06:42:01

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 32000 ppm	
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.56 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
435.00	Salt water with oil specs 1%o 99%w	3.843
0.00	Rw .21 ohms @76 deg. F	0.000
185.00	GOCMW 10%g 15%o 30%m 45%w	2.595
180.00	GCWM 12%g 23%w 65%m	2.525
130.00	GCM with a trace of oil	1.824

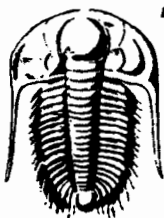
Total Length: 930.00 ft      Total Volume: 10.787 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INW #3511

No 16867

## Test Ticket

Well Name & No. Diggins A #4530 Test No. 1 Date 4-12-03  
 Company McCoy Pet. Corp. Zone Tested Miss.  
 Address PO Box 780208, Wichita Ks. 67278 Elevation 2268 KB 2259 GL  
 Co. Rep / Geo. Chris Peters Cont. Sterling Dalg. #4 Est. Ft. of Pay      Por.      %  
 Location: Sec. 30 Twp. 26S Rge. 20W Co. Edwards State Ks.  
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 4736 - 4793' Initial Str Wt./Lbs. 74,000 Unseated Str Wt./Lbs. 74,000  
 Anchor Length 57' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 84,000  
 Top Packer Depth 4731' Tool Weight 2100 #  
 Bottom Packer Depth 4736' Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 4793' Wt. Pipe Run None Drill Collar Run 248'  
 Mud Wt. 9.5 LCM — Vis. 53 WL 9.6cc. Drill Pipe Size 4 1/2" V.H. Ft. Run 4498'  
 Blow Description IF: strong below. 30.3. in 1 min. ISI: No below

FF: strong below. 30.3. in 1 min. ISI: No below.

Recovery — Total Feet 300 GIP 102670' Ft. in DC 248 Ft. in DP 52  
 Rec. 175 Feet Of GCM @ a trace of oil %gas      %oil      %water 88 %mud       
 Rec. 62' Feet Of G.O.CWM %gas 10 %oil 2 %water 60 %mud       
 Rec. 63' Feet Of G.O.CWM %gas 8 %oil 4 %water 46 %mud       
 Rec.      Feet Of      %gas      %oil      %water      %mud       
 Rec.      Feet Of      %gas      %oil      %water      %mud       
 BHT 122 °F Gravity N/A °API @      °F Corrected Gravity N/A °API       
 RW 38 @ 59 °F Chlorides 26,000 ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2308</u>	<u>2342</u>	<u>1525</u>
(B) First Initial Flow Pressure		<u>51</u>	(depth) <u>4737'</u>	T-Started <u>1613</u>
(C) First Final Flow Pressure		<u>86</u>	PSI Recorder No. <u>13222</u>	T-Open <u>1806</u>
(D) Initial Shut-In Pressure		<u>1162</u>	(depth) <u>4788'</u>	T-Pulled <u>2158</u>
(E) Second Initial Flow Pressure		<u>86</u>	PSI Recorder No. <u>    </u>	T-Out <u>2357</u>
(F) Second Final Flow Pressure		<u>141</u>	(depth) <u>    </u>	T-Off Location <u>2055</u>
(G) Final Shut-in Pressure		<u>1158</u>	PSI Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>800°</u>
(Q) Final Hydrostatic Mud		<u>2262</u>	PSI Initial Shut-in <u>60</u>	Jars <u>    </u>
			Final Flow <u>60</u>	Safety Joint <u>    </u>
			Final Shut-in <u>90</u>	Straddle <u>    </u>
			<u>    </u>	Circ. Sub <u>    </u>
			<u>    </u>	Sampler <u>    </u>

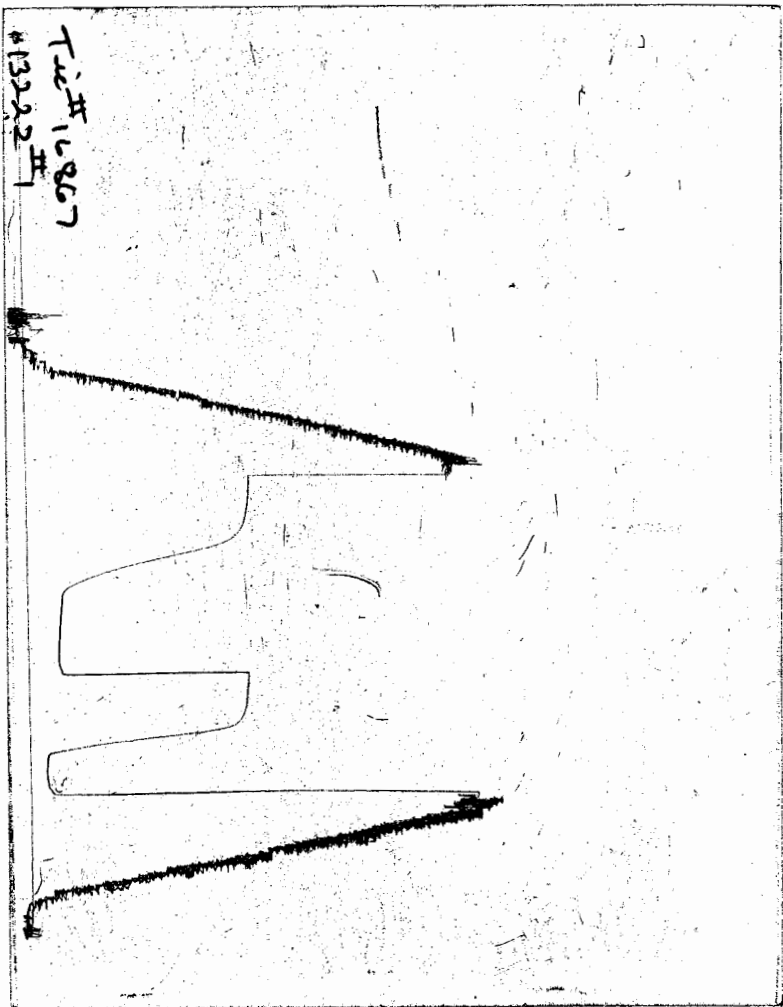
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE. OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

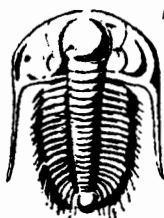
Approved By [Signature]  
Our Representative Gary Swartz

Extra Packer       
Elec. Rec.  150° 150  
Mileage  75 75  
Other Khr Sandby 15  
TOTAL PRICE \$ 1025 1040

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16868

## Test Ticket

Well Name & No. Spains A #4-30 Test No. 2 Date 4-13-03  
 Company McCoy Pugh Corp. Zone Tested Miss.  
 Address P.O. Box 780208, Wichita, Ks. 67278 Elevation 2268 KB 2259 GL  
 Co. Rep / Geo. Chris Peters Cont. Stirling Drlg. #4 Est. Ft. of Pay      Por.      %  
 Location: Sec. 30 Twp. 26 S Rge. 20 W Co. Edwards State Ks.  
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 4735 - 4798' Initial Str Wt./Lbs. 16,000 Unseated Str Wt./Lbs. 81,000  
 Anchor Length 63' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 90,000  
 Top Packer Depth 4730' Tool Weight 2100 II  
 Bottom Packer Depth 4735' Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 4798' Wt. Pipe Run None Drill Collar Run 248

Mud Wt. 9.5 LCM — Vis. 53 WL 9.6cc. Drill Pipe Size 4 1/2" x 14' Ft. Run 4498'  
 Blow Description IF: Strong blow. B.O.B. in 1 1/2 mins.  
ISI: Weak blow. 1/2 - 2"  
FF: Strong blow. B.O.B. in 1 min. GTS in 55 mins. TSTM  
FSL: Fair to strong blow. B.O.B.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
130	yes	248	682
180			
185			
435			

Rec.	Feet Of	%gas	%oil	%water	%mud
130	GCM @ surface of oil	12		23	65
180	GCWM @ oil spec.	12		23	65
185	GOCMW	10	15	45	30
435	Salt Water @ oil spec.		1	99	

BHT 124 °F Gravity N/A °API @      °F Corrected Gravity N/A °API  
 RW 0.21 @ 76 °F Chlorides 32,000 ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		2360	2342	0622
(B) First Initial Flow Pressure		86	4736'	0642
(C) First Final Flow Pressure		242	13222	0835
(D) Initial Shut-in Pressure		1161	4793'	1231
(E) Second Initial Flow Pressure		237		1459
(F) Second Final Flow Pressure		420		1630
(G) Final Shut-in Pressure		1162	30	800 <sup>00</sup> 800
(Q) Final Hydrostatic Mud		2332	60	

Final Flow 60 Safety Joint       
 Final Shut-in 90 Straddle       
 Circ. Sub       
 Sampler       
 Extra Packer     

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 [Signature]  
 Our Representative Chris Peters

Elec. Rec.  150<sup>00</sup> 150  
 Mileage  75 1025  
 Other 5 hrs Stirling 15  
 TOTAL PRICE \$ 1025<sup>00</sup> 1040

**CHART PAGE**

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

