

## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC.**

150 N. Main Suite 801  
Wichita Ks. 67202

ATTN: Jon Christensen

**12/28s/33w**

**#4-12 Cox**

Start Date: 2005.10.23 @ 16:00:46

End Date: 2005.10.24 @ 02:32:16

Job Ticket #: 20618                      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

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801  
Wichita Ks. 67202

**12/28s/33w**

ATTN: Jon Christensen

Job Ticket: 20618

DST#: 1

Test Start: 2005.10.23 @ 16:00:46

### GENERAL INFORMATION:

Formation: **Marmaton "B"**

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

Time Tool Opened: 19:21:01

Time Test Ended: 02:32:16

Test Type: **Conventional Bottom Hole**

Tester: **Harley Davidson**

Unit No: **33**

Interval: **4749.00 ft (KB) To 4775.00 ft (KB) (TVD)**

Total Depth: **4775.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **2965.00 ft (KB)**

**2957.00 ft (CF)**

KB to GR/CF: **8.00 ft**

**Serial #: 6769**

**Inside**

Press@RunDepth: **92.39 psig @ 4751.00 ft (KB)**

Start Date: **2005.10.23**

End Date:

**2005.10.24**

Start Time: **16:00:48**

End Time:

**02:32:16**

Capacity: **7000.00 psig**

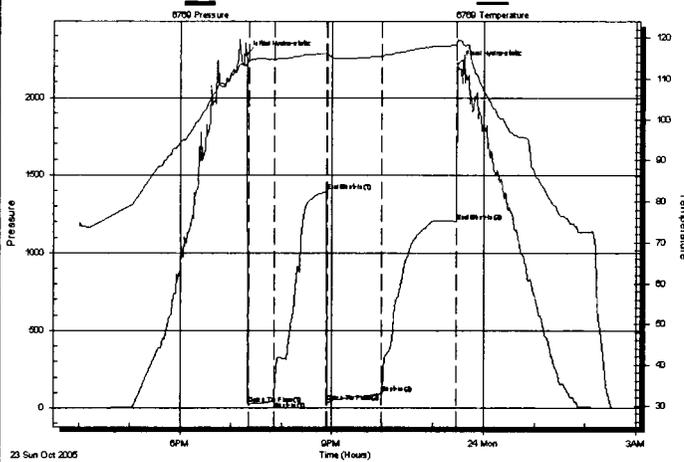
Last Calib.: **1899.12.30**

Time On Btm: **2005.10.23 @ 19:18:16**

Time Off Btm: **2005.10.23 @ 23:29:31**

TEST COMMENT: IF- Strong blow , BOB, ASAO, GTS 18min.  
IS- Took 32min. to bleed off, Blow back 1/2' in bucket.  
FF- Strong blow , BOB, GTS, ASAO  
FS- Bleed off for 70min, Still BOB blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2274.59	113.33	Initial Hydro-static
3	25.95	114.32	Open To Flow (1)
34	43.68	114.64	Shut-In(1)
95	1392.43	116.07	End Shut-In(1)
96	34.49	115.78	Open To Flow (2)
161	92.39	115.51	Shut-In(2)
250	1205.18	118.23	End Shut-In(2)
252	2215.72	119.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WGCM TR-1% W,10% G,90% M	0.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.50	7.45
Last Gas Rate	0.13	38.00	19.61
Max. Gas Rate	0.13	38.00	19.61



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801  
Wichita Ks. 67202

**12/28s/33w**

Job Ticket: 20618

**DST#: 1**

ATTN: Jon Christensen

Test Start: 2005.10.23 @ 16:00:46

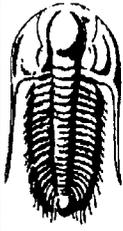
**Tool Information**

Drill Pipe:	Length: 4444.00 ft	Diameter: 3.80 inches	Volume: 62.34 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: 25000.00 lb
Drill Collar:	Length: 308.00 ft	Diameter: 2.25 inches	Volume: 1.51 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 63.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4749.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4727.00	
Shut In Tool	5.00			4732.00	
Hydraulic tool	5.00			4737.00	
Safety Joint	3.00			4740.00	
Packer	5.00			4745.00	23.00 Bottom Of Top Packer
Packer	4.00			4749.00	
Stubb	1.00			4750.00	
Perforations	1.00			4751.00	
Recorder	0.00	6769	Inside	4751.00	
Perforations	20.00			4771.00	
Recorder	0.00	6724	Outside	4771.00	
Bullnose	4.00			4775.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801  
Wichita Ks. 67202

**12/28s/33w**

Job Ticket: 20618

**DST#: 1**

ATTN: Jon Christensen

Test Start: 2005.10.23 @ 16:00:46

**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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
120.00	WGCM TR-1% W,10% G,90% M	0.590

Total Length: 120.00 ft      Total Volume: 0.590 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**

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801  
Wichita Ks. 67202

**12/28s/33w**

Job Ticket: 20618

**DST#: 1**

ATTN: Jon Christensen

Test Start: 2005.10.23 @ 16:00:46

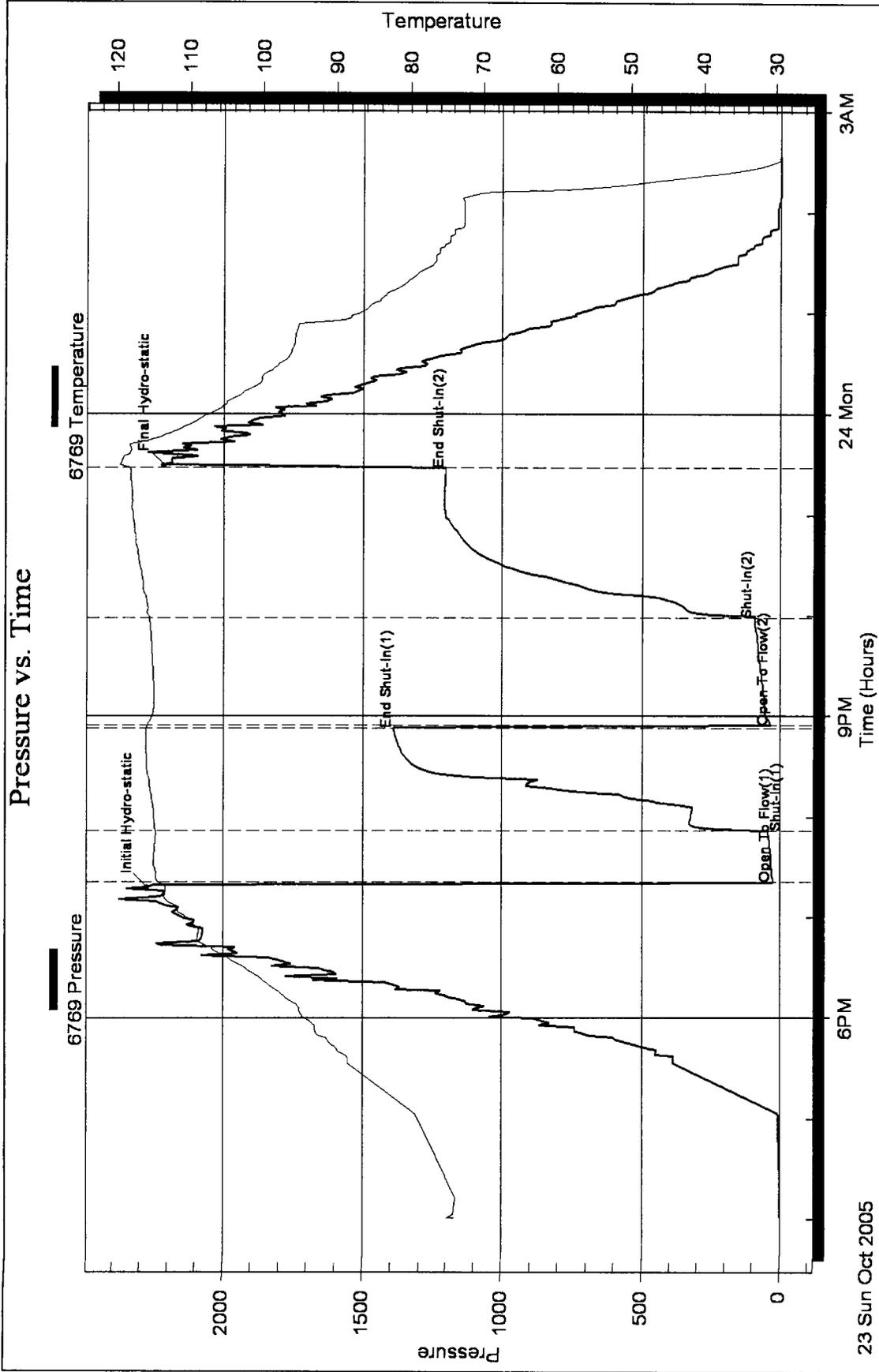
### Gas Rates Information

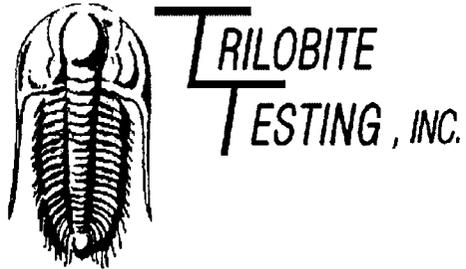
Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	20	0.13	5.50	7.45
1	30	0.13	9.00	8.76
2	10	0.13	9.00	8.76
2	20	0.13	17.00	11.75
2	30	0.13	25.00	14.75
2	40	0.13	30.00	16.62
2	50	0.13	34.00	18.11
2	60	0.13	38.00	19.61

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC.**

150 N. Main Suite 801, Wichita Ks. 67202

ATTN: Jon Christensen

**12/28s/33w**

**#4-12 Cox**

Start Date: 2005.10.24 @ 15:00:03

End Date: 2005.10.25 @ 00:10:33

Job Ticket #: 20619                      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

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801, Wichita Ks. 67202

**12/28s/33w**

Job Ticket: 20619

**DST#: 2**

ATTN: Jon Christensen

Test Start: 2005.10.24 @ 15:00:03

### GENERAL INFORMATION:

Formation: **Pawnee**

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

Time Tool Opened: 17:21:33

Time Test Ended: 00:10:33

Test Type: **Conventional Bottom Hole**

Tester: **Harley Davidson**

Unit No: **33**

Interval: **4821.00 ft (KB) To 4853.00 ft (KB) (TVD)**

Reference Elevations: **2965.00 ft (KB)**

Total Depth: **4853.00 ft (KB) (TVD)**

**2957.00 ft (CF)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

KB to GR/CF: **8.00 ft**

**Serial #: 6769**

**Inside**

Press@RunDepth: **57.79 psig @ 4823.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.10.24**

End Date:

**2005.10.25**

Last Calib.: **1899.12.30**

Start Time: **15:00:05**

End Time:

**00:10:33**

Time On Btm: **2005.10.24 @ 17:18:03**

Time Off Btm: **2005.10.24 @ 21:33:03**

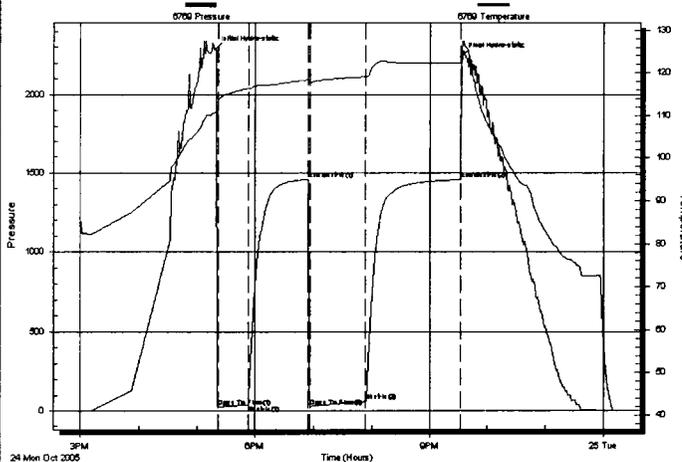
TEST COMMENT: **F- Good biding blow, BOB 3min. "NO GTS".**

**IS- No blow back.**

**FF- Strong blow, BOB ASAO, GTS 5min.**

**FS- No blow back.**

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2286.34	110.77	Initial Hydro-static
4	21.75	112.48	Open To Flow (1)
35	37.64	116.41	Shut-In(1)
97	1458.20	118.47	End Shut-In(1)
99	25.17	117.65	Open To Flow (2)
155	57.79	119.14	Shut-In(2)
255	1457.56	122.40	End Shut-In(2)
255	2238.39	125.05	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
90.00	SGCM Tr G, 100% Mud.	0.44

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.50	5.95
Last Gas Rate	0.13	11.50	9.69
Max. Gas Rate	0.13	11.50	9.69



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy, LLC.  
150 N. Main Suite 801, Wichita Ks. 67202  
ATTN: Jon Christensen

**#4-12 Cox**  
**12/28s/33w**  
Job Ticket: 20619      **DST#: 2**  
Test Start: 2005.10.24 @ 15:00:03

### Tool Information

Drill Pipe:	Length: 4509.00 ft	Diameter: 3.80 inches	Volume: 63.25 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: 25000.00 lb
Drill Collar:	Length: 308.00 ft	Diameter: 2.25 inches	Volume: 1.51 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 64.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4821.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4800.00	
Shut In Tool	5.00			4805.00	
Hydraulic tool	5.00			4810.00	
Safety Joint	2.00			4812.00	
Packer	5.00			4817.00	22.00      Bottom Of Top Packer
Packer	4.00			4821.00	
Stubb	1.00			4822.00	
Perforations	1.00			4823.00	
Recorder	0.00	6769	Inside	4823.00	
Perforations	26.00			4849.00	
Recorder	0.00	6724	Outside	4849.00	
Bullnose	4.00			4853.00	32.00      Bottom Packers & Anchor

**Total Tool Length: 54.00**



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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801, Wichita Ks. 67202

**12/28s/33w**

Job Ticket: 20619

**DST#: 2**

ATTN: Jon Christensen

Test Start: 2005.10.24 @ 15:00:03

### 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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	SGCM. Tr G, 100% Mud.	0.443

Total Length: 90.00 ft      Total Volume: 0.443 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**

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801, Wichita Ks. 67202

**12/28s/33w**

Job Ticket: 20619

**DST#: 2**

ATTN: Jon Christensen

Test Start: 2005.10.24 @ 15:00:03

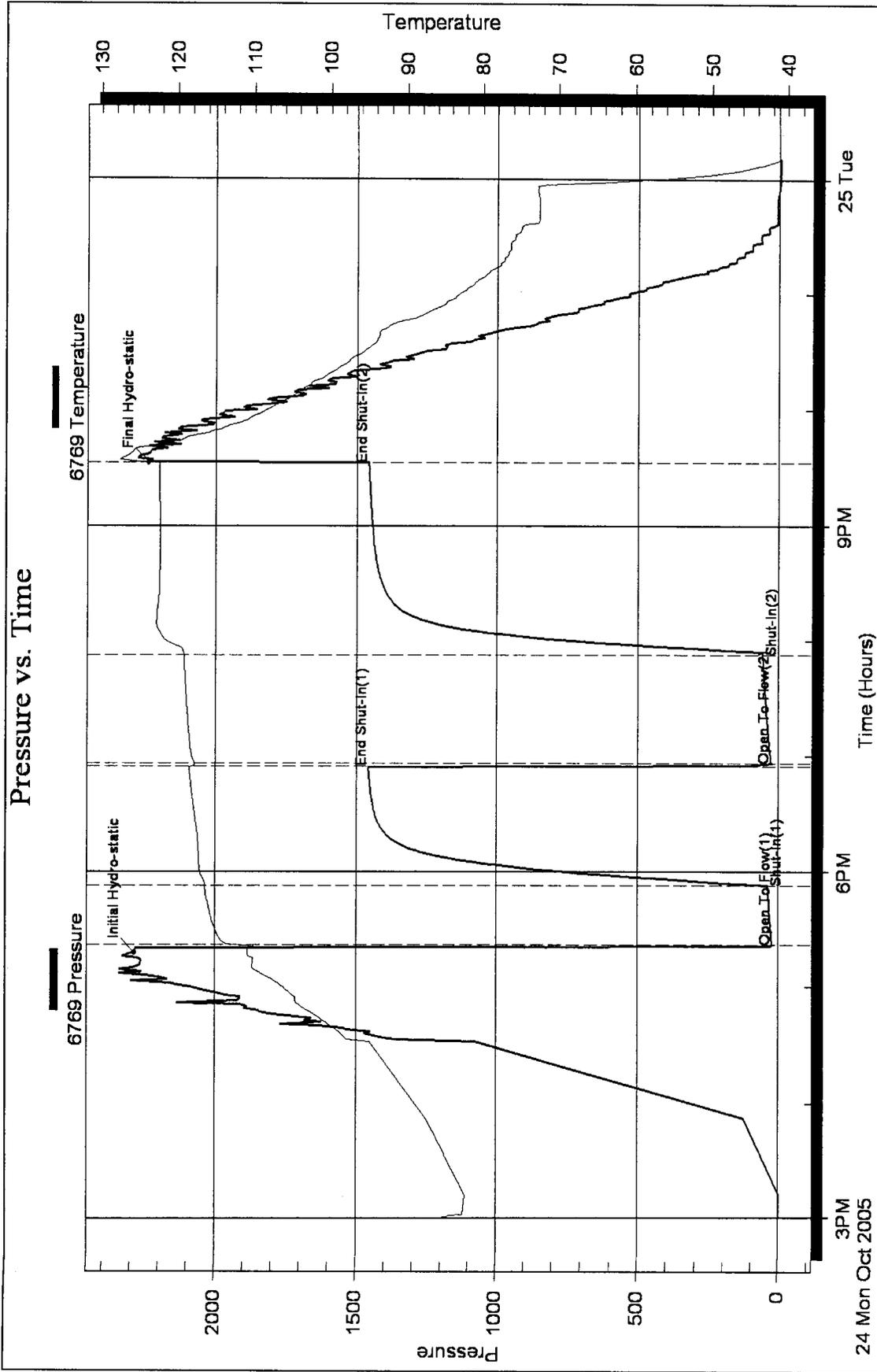
### Gas Rates Information

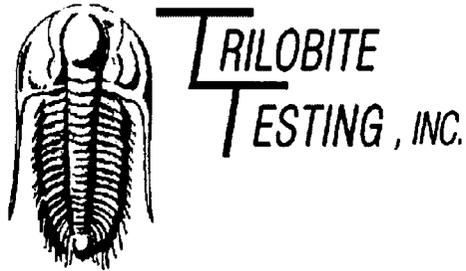
Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
2	10	0.13	1.50	5.95
2	20	0.13	4.50	7.07
2	30	0.13	6.50	7.82
2	40	0.13	8.00	8.38
2	50	0.13	10.00	9.13
2	60	0.13	11.50	9.69

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC.**

150 N. Main Suite 801, Wichita Ks. 67202

ATTN: Jon Christensen

**12/28s/33w**

**#4-12 Cox**

Start Date: 2005.10.25 @ 23:00:34

End Date: 2005.10.26 @ 09:40:19

Job Ticket #: 20620                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Abercrombie Energy, LLC.

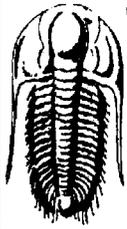
#4-12 Cox

12/28s/33w

DST # 3

Atoka

2005.10.25



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801, Wichita Ks. 67202

**12/28s/33w**

Job Ticket: 20620

**DST#: 3**

ATTN: Jon Christensen

Test Start: 2005.10.25 @ 23:00:34

### GENERAL INFORMATION:

Formation: **Atoka**

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

Time Tool Opened: 02:17:19

Time Test Ended: 09:40:19

Test Type: **Conventional Bottom Hole**

Tester: **Harley Davidson**

Unit No: **33**

Interval: **4982.00 ft (KB) To 5039.00 ft (KB) (TVD)**

Total Depth: **5039.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **2965.00 ft (KB)**

**2957.00 ft (CF)**

KB to GR/CF: **8.00 ft**

**Serial #: 6769**

**Inside**

Press@RunDepth: **32.82 psig @ 5019.00 ft (KB)**

Start Date: **2005.10.25**

End Date: **2005.10.26**

Start Time: **23:00:36**

End Time: **09:40:19**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2005.10.26 @ 02:14:19**

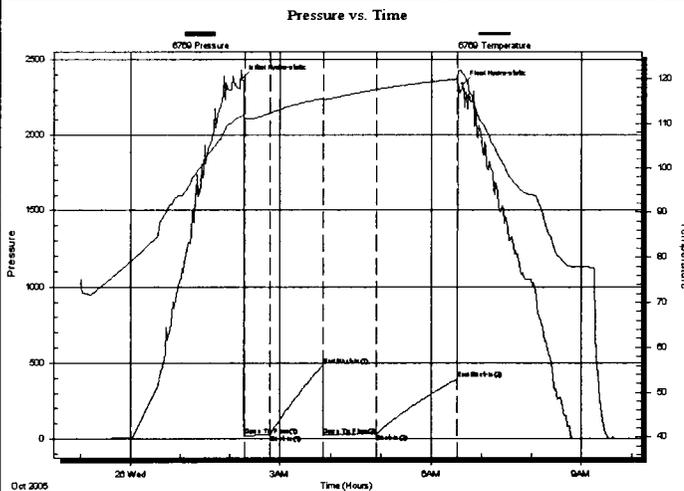
Time Off Btm: **2005.10.26 @ 06:36:49**

**TEST COMMENT: F- Good blinding blow , BOB 12min. "NO GTS"**

**IS- No blow back.**

**FF- Good blow , BOB 3min. "NO GTS"**

**FS- No blow back.**



### PRESSURE SUMMARY

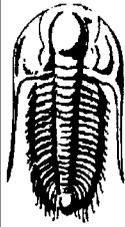
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2373.25	111.72	Initial Hydro-static
3	20.30	111.30	Open To Flow (1)
35	26.00	112.33	Shut-In(1)
97	482.89	115.57	End Shut-In(1)
98	22.32	115.34	Open To Flow (2)
161	32.82	117.55	Shut-In(2)
257	392.74	119.91	End Shut-In(2)
263	2336.86	121.12	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	G&OCM 20%gas, 30%oil, 50%mud.	0.30
0.00	1000 GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801, Wichita Ks. 67202

**12/28s/33w**

Job Ticket: 20620

**DST#: 3**

ATTN: Jon Christensen

Test Start: 2005.10.25 @ 23:00:34

### Tool Information

Drill Pipe:	Length: 4659.00 ft	Diameter: 3.80 inches	Volume: 65.35 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: 25000.00 lb
Drill Collar:	Length: 308.00 ft	Diameter: 2.25 inches	Volume: 1.51 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 66.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4982.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4961.00	
Shut In Tool	5.00			4966.00	
Hydraulic tool	5.00			4971.00	
Safety Joint	2.00			4973.00	
Packer	5.00			4978.00	22.00 Bottom Of Top Packer
Packer	4.00			4982.00	
Stubb	1.00			4983.00	
Perforations	3.00			4986.00	
Change Over Sub	1.00			4987.00	
Drill Pipe	31.00			5018.00	
Change Over Sub	1.00			5019.00	
Recorder	0.00	6769	Inside	5019.00	
Perforations	16.00			5035.00	
Recorder	0.00	6724	Outside	5035.00	
Bullnose	4.00			5039.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 79.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801, Wichita Ks. 67202

**12/28s/33w**

Job Ticket: 20620

**DST#: 3**

ATTN: Jon Christensen

Test Start: 2005.10.25 @ 23:00:34

## 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: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	G&OCM 20%gas, 30%oil, 50%mud.	0.295
0.00	1000 GIP	0.000

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

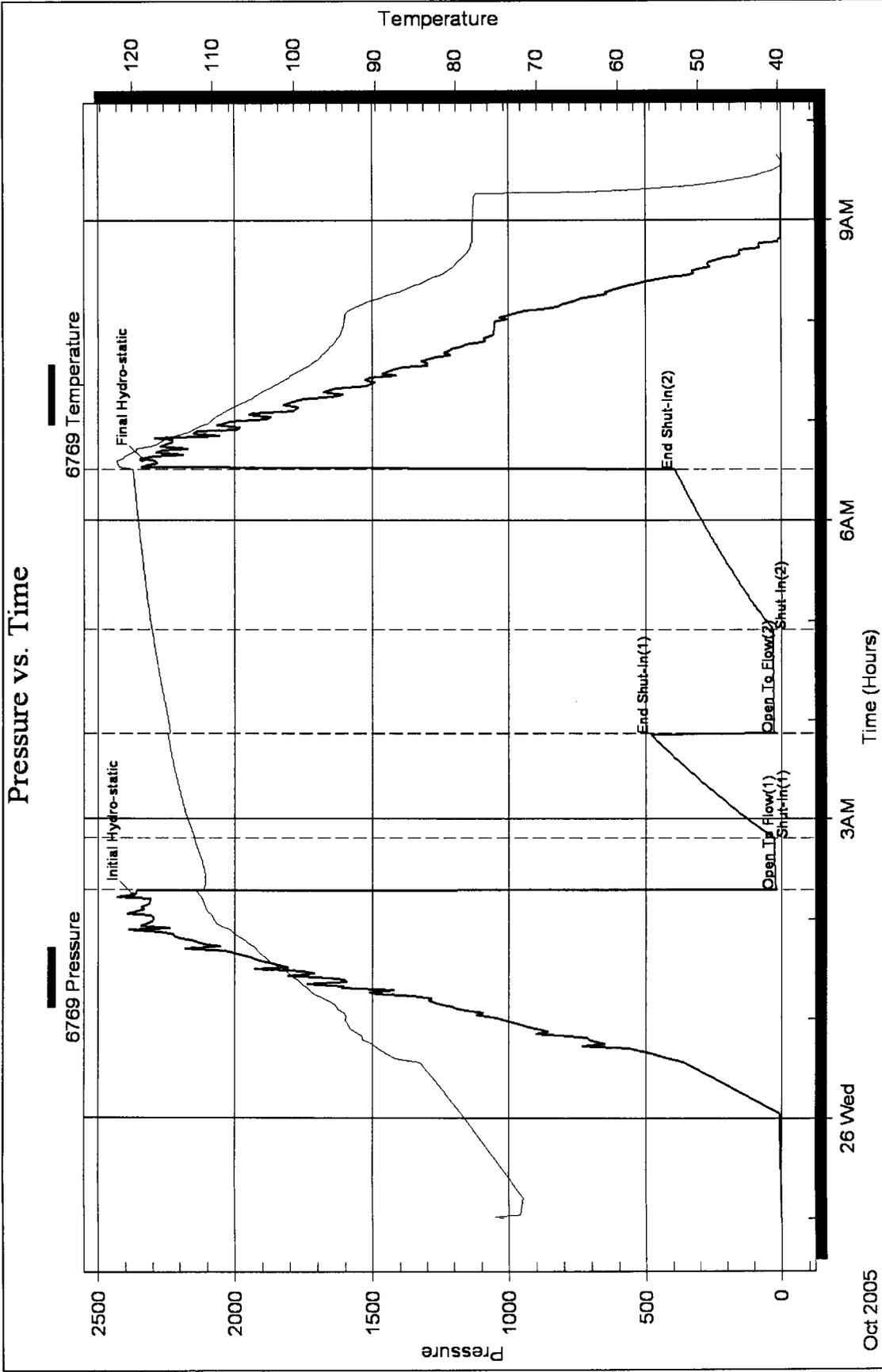
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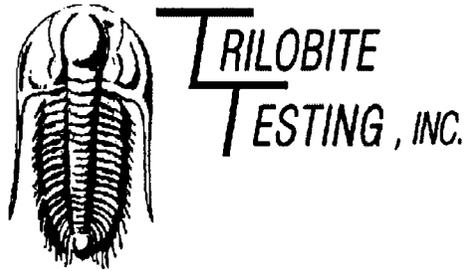
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC.**

150 N. Main Suite 801, Wichita Ks. 67202

ATTN: Jon Christensen

**12/28s/33w**

**#4-12 Cox**

Start Date: 2005.10.27 @ 04:30:51

End Date: 2005.10.27 @ 13:49:21

Job Ticket #: 20621                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Abercrombie Energy, LLC.

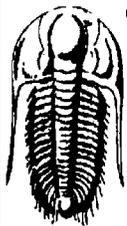
#4-12 Cox

12/28s/33w

DST # 4

Morrow Sand

2005.10.27



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Abercrombie Energy, LLC.  
150 N. Main Suite 801, Wichita Ks. 67202  
ATTN: Jon Christensen

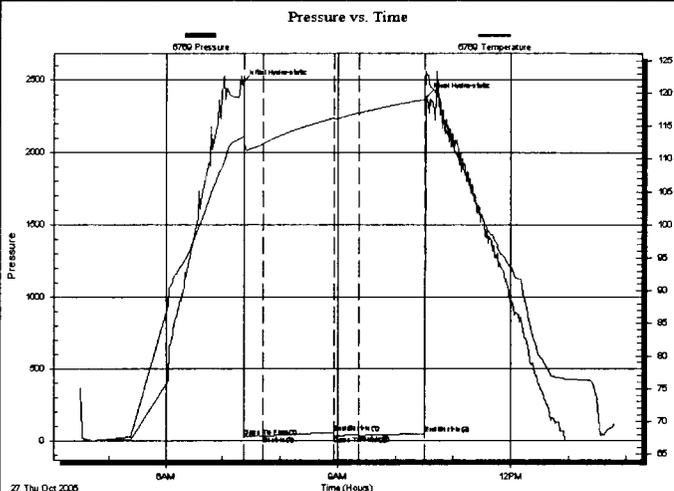
**#4-12 Cox**  
**12/28s/33w**  
Job Ticket: 20621      **DST#: 4**  
Test Start: 2005.10.27 @ 04:30:51

## GENERAL INFORMATION:

Formation: **Morrow Sand**  
Deviated: **No Whipstock:**                      ft (KB)  
Time Tool Opened: 07:22:06  
Time Test Ended: 13:49:21  
Interval: **5131.00 ft (KB) To 5220.00 ft (KB) (TVD)**  
Total Depth: **5220.00 ft (KB) (TVD)**  
Hole Diameter: **7.78 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Harley Davidson**  
Unit No: **33**  
Reference Elevations: **2965.00 ft (KB)**  
**2957.00 ft (CF)**  
KB to GR/CF: **8.00 ft**

**Serial #: 6769**      **Inside**  
Press@RunDepth: **40.00 psig @ 5198.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2005.10.27**      End Date: **2005.10.27**      Last Calib.: **1899.12.30**  
Start Time: **04:30:53**      End Time: **13:49:21**      Time On Btm: **2005.10.27 @ 07:19:51**  
Time Off Btm: **2005.10.27 @ 10:32:51**

**TEST COMMENT:** IF- Weak blow , built to 1" in bucket.  
IS- No blow back.  
FF- No blow .  
FS- No blow back.



## PRESSURE SUMMARY

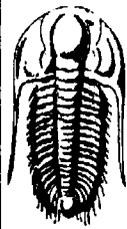
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2479.88	113.33	Initial Hydro-static
3	27.98	112.52	Open To Flow (1)
23	33.97	112.32	Shut-In(1)
96	56.66	116.22	End Shut-In(1)
97	32.99	116.14	Open To Flow (2)
122	40.00	117.01	Shut-In(2)
191	48.20	119.08	End Shut-In(2)
193	2381.84	122.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	SOCM Tr. oil. with 100% mud.	0.30

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801, Wchita Ks. 67202

**12/28s/33w**

Job Ticket: 20621

**DST#: 4**

ATTN: Jon Christensen

Test Start: 2005.10.27 @ 04:30:51

### Tool Information

Drill Pipe:	Length: 4821.00 ft	Diameter: 3.80 inches	Volume: 67.63 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: 25000.00 lb
Drill Collar:	Length: 308.00 ft	Diameter: 2.25 inches	Volume: 1.51 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 69.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	5131.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	116.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5105.00	
Shut In Tool	5.00			5110.00	
Hydraulic tool	5.00			5115.00	
Jars	5.00			5120.00	
Safety Joint	2.00			5122.00	
Packer	5.00			5127.00	27.00 Bottom Of Top Packer
Packer	4.00			5131.00	
Stubb	1.00			5132.00	
Perforations	3.00			5135.00	
Change Over Sub	1.00			5136.00	
Drill Pipe	62.00			5198.00	
Recorder	0.00	6769	Inside	5198.00	
Perforations	18.00			5216.00	
Recorder	0.00	6724	Outside	5216.00	
Bullnose	4.00			5220.00	89.00 Bottom Packers & Anchor

**Total Tool Length: 116.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abercrombie Energy, LLC.  
150 N. Main Suite 801, Wichita Ks. 67202  
ATTN: Jon Christensen

**#4-12 Cox**  
**12/28s/33w**  
Job Ticket: 20621      **DST#: 4**  
Test Start: 2005.10.27 @ 04:30:51

## 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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

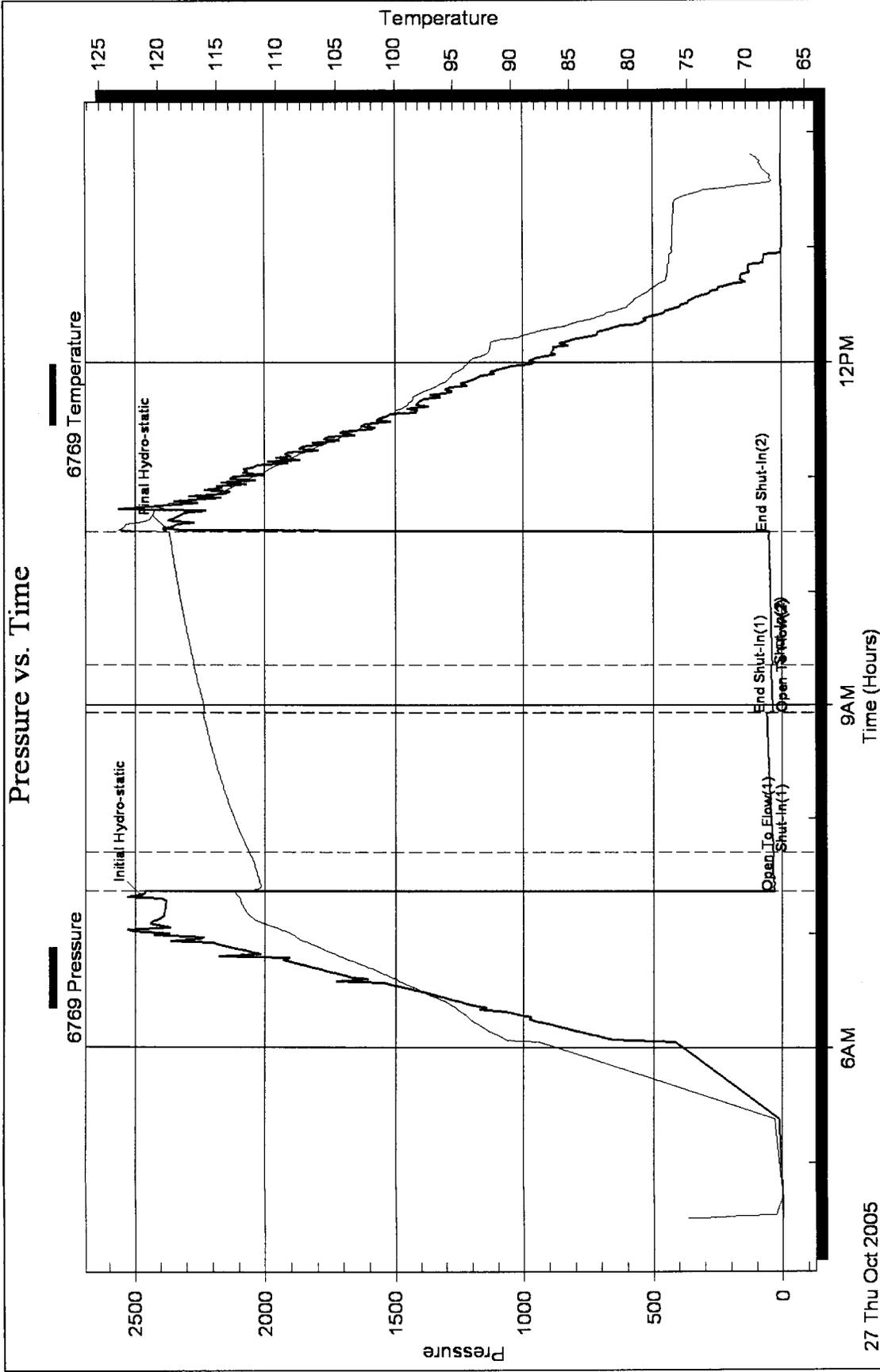
## Recovery Information

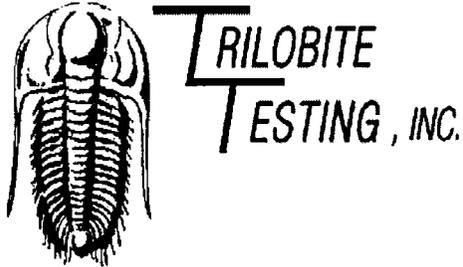
Recovery Table

Length ft	Description	Volume bbl
62.00	SOCM Tr. oil. w ith 100% mud.	0.305

Total Length: 62.00 ft      Total Volume: 0.305 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: **Abercrombie Energy, LLC.**

150 N. Main Suite 801, Wichita Ks. 67202

ATTN: Jon Christensen

**12/28s/33w**

**#4-12 Cox**

Start Date: 2005.10.28 @ 11:30:21

End Date: 2005.10.28 @ 21:10:36

Job Ticket #: 20622                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Abercrombie Energy, LLC.

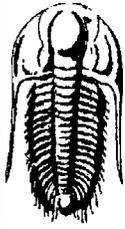
#4-12 Cox

12/28s/33w

DST # 5

Chester Sand

2005.10.28



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Abercrombie Energy, LLC.  
150 N. Main Suite 801, Wichita Ks. 67202  
ATTN: Jon Christensen

**#4-12 Cox**  
**12/28s/33w**  
Job Ticket: 20622      **DST#: 5**  
Test Start: 2005.10.28 @ 11:30:21

## GENERAL INFORMATION:

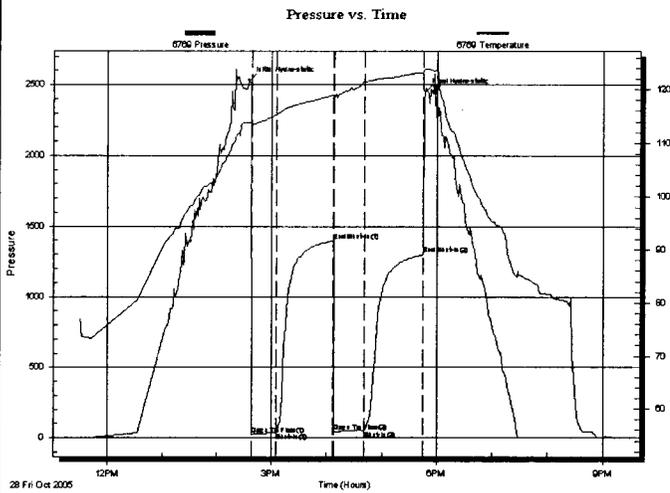
Formation: **Chester Sand**  
Deviated: **No Whipstock:**      **ft (KB)**  
Time Tool Opened: 14:38:21  
Time Test Ended: 21:10:36  
Interval: **5316.00 ft (KB) To 5360.00 ft (KB) (TVD)**  
Total Depth: **5368.00 ft (KB) (TVD)**  
Hole Diameter: **7.78 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Harley Davidson**  
Unit No: **33**  
Reference Elevations: **2965.00 ft (KB)**  
**2957.00 ft (CF)**  
KB to GR/CF: **8.00 ft**

## Serial #: 6769

Inside

Press@RunDepth: **51.48 psig @ 5319.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2005.10.28**      End Date: **2005.10.28**      Last Calib.: **1899.12.30**  
Start Time: **11:30:23**      End Time: **21:10:36**      Time On Btm: **2005.10.28 @ 14:35:21**  
Time Off Btm: **2005.10.28 @ 17:46:36**

TEST COMMENT: **F- Weak surface blow, 1" in bucket.**  
**IS- No blow back.**  
**FF- No blow.**  
**FS- No blow back.**



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2529.33	113.72	Initial Hydro-static
3	23.08	113.34	Open To Flow (1)
31	35.47	115.27	Shut-In(1)
92	1397.11	118.94	End Shut-In(1)
93	41.28	118.62	Open To Flow (2)
126	51.48	121.48	Shut-In(2)
190	1299.21	123.20	End Shut-In(2)
192	2448.49	123.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	Very small trace of oil, with 100% mud.	0.30

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy, LLC.

**#4-12 Cox**

150 N. Main Suite 801, Wichita Ks. 67202

**12/28s/33w**

Job Ticket: 20622

**DST#: 5**

ATTN: Jon Christensen

Test Start: 2005.10.28 @ 11:30:21

### Tool Information

Drill Pipe:	Length: 5002.00 ft	Diameter: 3.80 inches	Volume: 70.16 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: 25000.00 lb
Drill Collar:	Length: 308.00 ft	Diameter: 2.25 inches	Volume: 1.51 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 71.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	5316.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	2.00			5287.00	
Shut In Tool	5.00			5292.00	
Sampler	3.00			5295.00	
Hydraulic tool	5.00			5300.00	
Jars	5.00			5305.00	
Safety Joint	2.00			5307.00	
Packer	5.00			5312.00	31.00 Bottom Of Top Packer
Packer	4.00			5316.00	
Stubb	1.00			5317.00	
Recorder	0.00	16770	Inside	5317.00	
Perforations	2.00			5319.00	
Recorder	0.00	6769	Inside	5319.00	
Perforations	17.00			5336.00	34.00 Tool Interval
Packer	5.00			5341.00	
Perforations	5.00			5346.00	
Bullnose	4.00			5350.00	1000064.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>65.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Abercrombie Energy, LLC.

#4-12 Cox

150 N. Main Suite 801, Wichita Ks. 67202

12/28s/33w

Job Ticket: 20622

DST#: 5

ATTN: Jon Christensen

Test Start: 2005.10.28 @ 11:30:21

### 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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Very small trace of oil, with 100% mud.	0.305

Total Length: 62.00 ft      Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

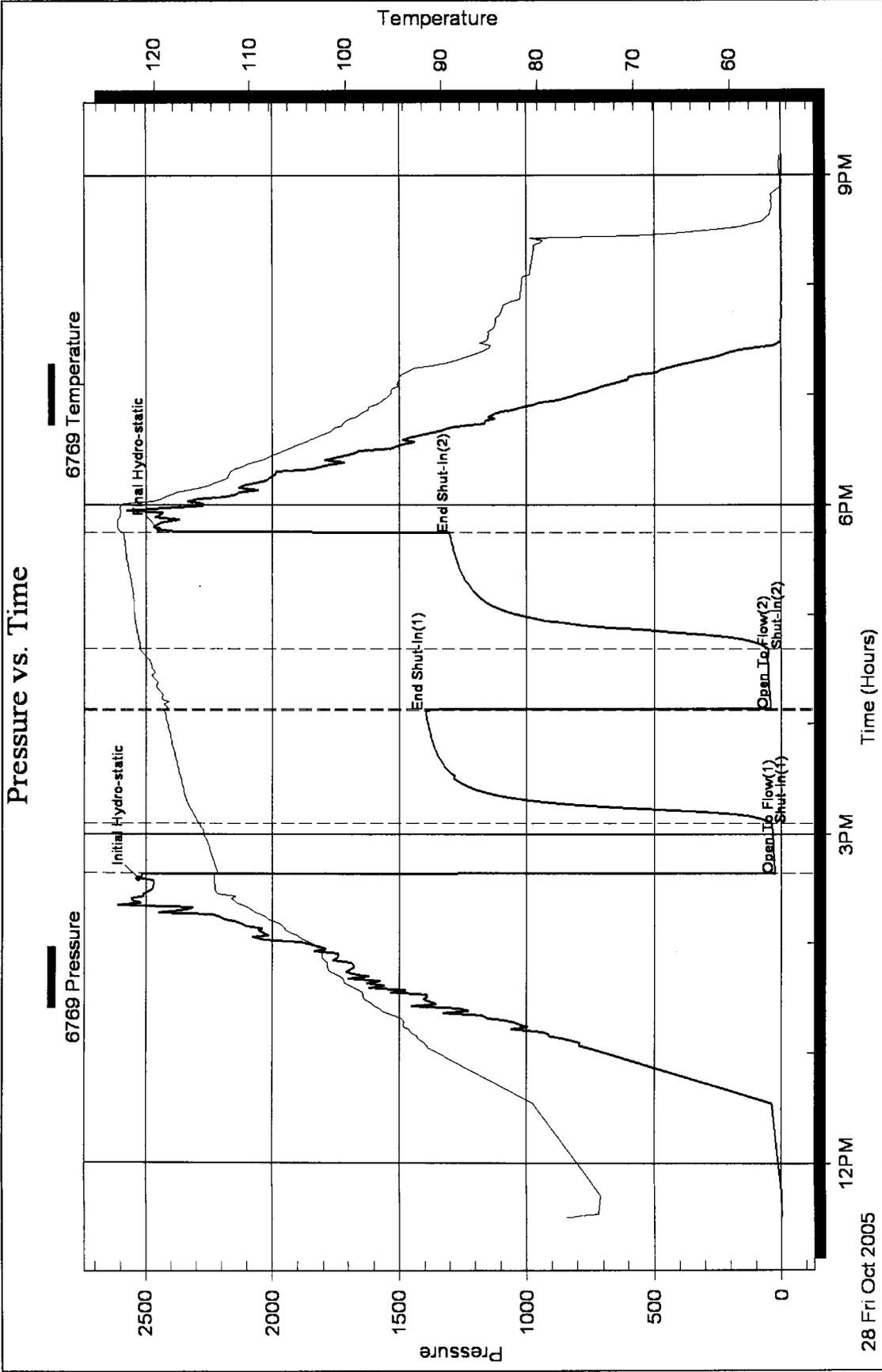
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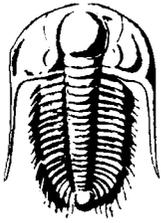
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

*TRW  
8055*

No 20618

05/03

## Test Ticket

Well Name & No. #4-12 COX Test No. 1 Date 10/23/05  
 Company Abercrombie Energy LLC Zone Tested Marmaton "B"  
 Address 150 N Main Suite 801, Wichita KS 67202 Elevation 2965 KB 2957 GL  
 Co. Rep / Geo. Jon Christensen Cont. Aber. 3 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 3012 Twp. 28S Rge. 33W Co. Haskell State Ks.  
 No. of Copies 1 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4749-4775 Initial Str Wt./Lbs. 62K Unseated Str Wt./Lbs. 62K  
 Anchor Length 26 Wt. Set Lbs. 25K Wt. Pulled Loose/Lbs. 65K  
 Top Packer Depth 4745 Tool Weight 1800  
 Bottom Packer Depth 4749 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 4775 Wt. Pipe Run 0 Drill Collar Run 308  
 Mud Wt. 8.8 LCM 5" Vis. 55 WL 7.9 Drill Pipe Size 4.5 IH Ft. Run 4444

Blow Description IF - Strong blow, BOB ASAO, GTS 18 min.  
IST - Weak blow back 1/2 inch in bucket.  
FF - Strong blow GTS, BOB, ASAO.  
EST - let blow for 70 mins, still blow off bottom of bucket

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>120'</u>	Feet of <u>WCCM</u>	<u>10</u> %gas	%oil <u>Tr-1%</u> %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 118 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 2400 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2275</u> PSI	<u>2275</u> PSI	<u>6769</u>	<u>1100<sup>00</sup> 9 hrs</u>
(B) First Initial Flow Pressure	<u>26</u> PSI	<u>26</u> PSI	(depth)	Elec. Rec. _____
(C) First Final Flow Pressure	<u>44</u> PSI	<u>44</u> PSI	Recorder No. <u>11018</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1392</u> PSI	<u>1392</u> PSI	(depth)	Safety Jt. <u>30<sup>00</sup></u>
(E) Second Initial Flow Pressure	<u>34</u> PSI	<u>34</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>92</u> PSI	<u>92</u> PSI	(depth)	Sampler _____
(G) Final Shut-In Pressure	<u>1205</u> PSI	<u>1205</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2216</u> PSI	<u>2216</u> PSI	Initial Shut-In <u>60</u>	Ext. Packer _____

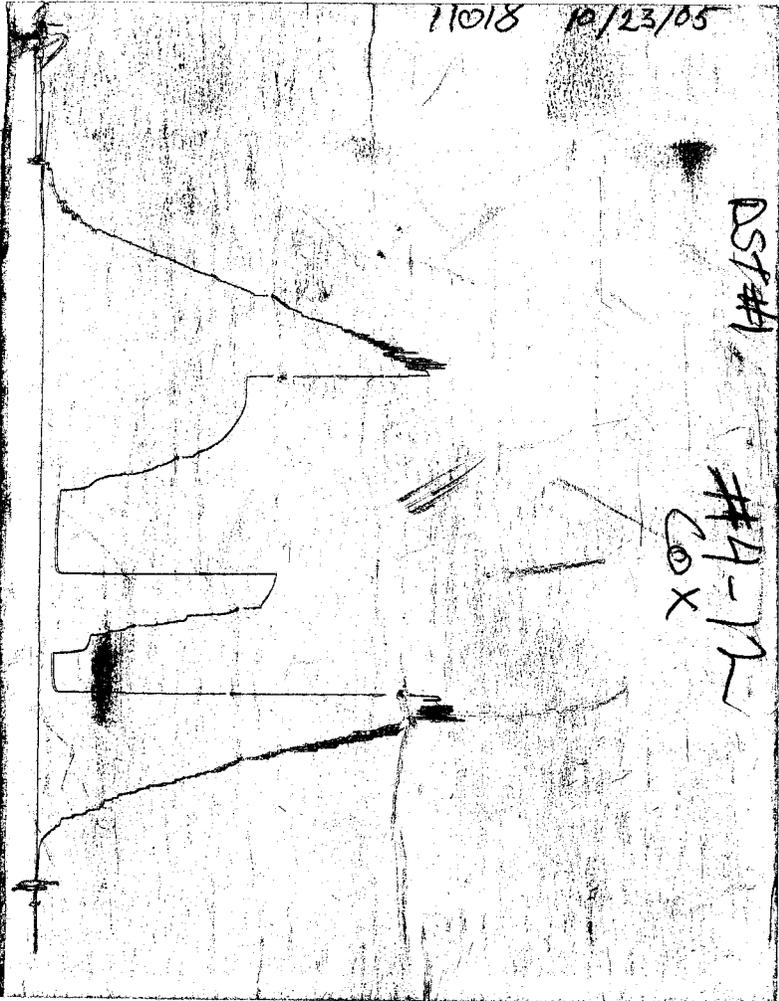
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Approved By [Signature]  
 Our Representative [Signature]

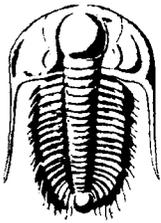
	Final Flow	Final Shut-In	T-On Location	T-Started	T-Open	T-Pulled	T-Off
	<u>60</u>	<u>60</u>	<u>230 pm</u>	<u>400 pm</u>	<u>715 pm</u>	<u>1130</u>	<u>230</u>

Mileage 100<sup>00</sup>  
 Sub Total: 1250  
 Std. By 3 hrs 150<sup>00</sup>  
 Other Acc: 150<sup>00</sup>  
 Total: 1350<sup>00</sup>





**CHART PAGE**  
This is a photocopy of the actual AK-1 recorder chart.



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20619

05/03

## Test Ticket

Well Name & No. #4-12 Cox Test No. 2 Date 10/24/05  
 Company Abercrombie Energy, LLC Zone Tested Dawnee  
 Address 150 N Main Suite 801 Wichita KS 67202 Elevation 2965 KB 2957 GL  
 Co. Rep / Geo. Jon Christensen Cont. Aber. #3 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 12 Twp. 28S Rge. 33W Co. Haskell State KS  
 No. of Copies 1 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4821-4853 Initial Str Wt./Lbs. 68K<sup>70°</sup> Unseated Str Wt./Lbs. 64K<sup>45°</sup>  
 Anchor Length 32 Wt. Set Lbs. 25K Wt. Pulled Loose/Lbs. 68K  
 Top Packer Depth 4816 Tool Weight 1800  
 Bottom Packer Depth 4821 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 4853 Wt. Pipe Run 0 Drill Collar Run 308  
 Mud Wt. 8.8 LCM 4 Vis. 38 WL 7.6 Drill Pipe Size 4.5"HT Ft. Run 4509  
 Blow Description IF - Good building blow BOB 3min "No GTS"  
ISI - No blow back  
FF - Strong blow, BOB ASAO, GTS 5min  
FSI - No blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
90	SGCM	71	100
Rec. 90	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
Rec. _____	Feet of	%gas	%oil %water %mud

BHT 122 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 2600 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	2286	PSI	6769	1100 <sup>00</sup>
(B) First Initial Flow Pressure	22	PSI	(depth) 4823	Elec. Rec. _____
(C) First Final Flow Pressure	38	PSI	Recorder No. 11018	Jars _____
(D) Initial Shut-In Pressure	1458	PSI	(depth) 4853	Safety Jt. 50 <sup>00</sup>
(E) Second Initial Flow Pressure	25	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	58	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	1458	PSI	Initial Opening 30	Straddle _____
(Q) Final Hydrostatic Mud	2238	PSI	Initial Shut-In 60	Ext. Packer _____
			Final Flow 60	Shale Packer _____
			Final Shut-In 90	Mileage 100 <sup>00</sup> 7250
			T-On Location 130 pm	Sub Total: _____
			T-Started 300 pm	Std. By hr 50 <sup>00</sup> 50
			T-Open 445 pm	Other ACC = 150 <sup>00</sup>
			T-Pulled 900 pm	Total: 1400 <sup>00</sup>
			T-Off 1130 pm	

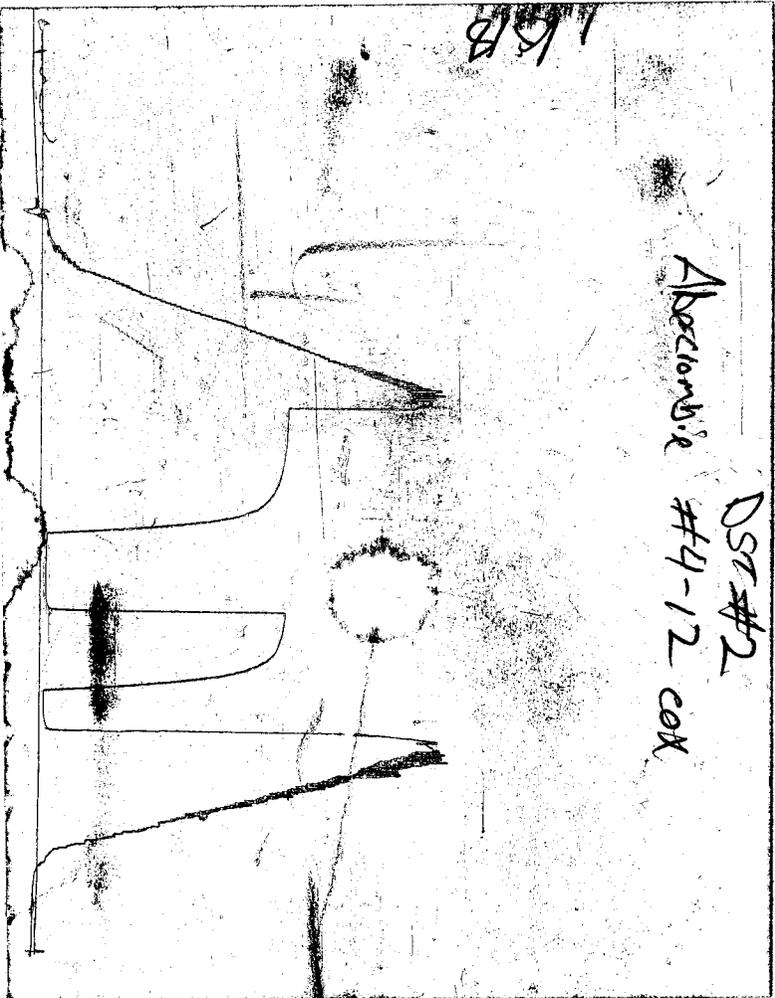
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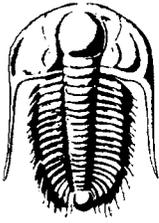
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 Our Representative [Signature]



**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20620

05/03

## Test Ticket

Well Name & No. #4-12 Cox Test No. 3 Date 10-26-05  
 Company Abercrombie Energy, LLC Zone Tested Atoka  
 Address 150 N. Main Street 801, Wichita KS 67202 Elevation 2965 KB 2957 GL  
 Co. Rep / Geo. Jon Christensen Cont. Aber. #3 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 12 Twp. 28s Rge. 33w Co. Haskell State Ks  
 No. of Copies 1 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4982 - 5039 Initial Str Wt./Lbs. 205K Unseated Str Wt./Lbs. 65K  
 Anchor Length 57 Wt. Set Lbs. 25K Wt. Pulled Loose/Lbs. 72K  
 Top Packer Depth 4977 Tool Weight 1800  
 Bottom Packer Depth 4982 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 5039 Wt. Pipe Run 0 Drill Collar Run 308  
 Mud Wt. 8.8 LCM 4 Vis. 50 WL 7.2 Drill Pipe Size 4.5 in Fr. Run 46.59  
 Blow Description IF - Good building blow 12 min BOB "10 GTS"  
ISI - No blow back  
FF - Good blow 3 min BOB, "NO GTS"  
ESI - No blow back

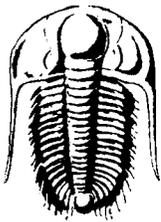
Recovery - Total Feet 60 GIP 1000 Ft. in DC 308 Ft. in DP 692  
 Rec. 60 Feet of GOCM 20 %gas 30 %oil \_\_\_\_\_ %water 50 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %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 2600 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	2373	PSI	6769	1200 <sup>00</sup> DAIS
(B) First Initial Flow Pressure	20	PSI	(depth) 4987	Elec. Rec. _____
(C) First Final Flow Pressure	26	PSI	Recorder No. 11018	Jars _____
(D) Initial Shut-In Pressure	483	PSI	(depth) 3039	Safety Jt. 50 <sup>00</sup>
(E) Second Initial Flow Pressure	22	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	33	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	393	PSI	Initial Opening 30	Straddle _____
(Q) Final Hydrostatic Mud		PSI	Initial Shut-In 60	Ext. Packer _____
			Final Flow 60	Shale Packer _____
			Final Shut-In 90	Mileage 100 <sup>00</sup>
			T-On Location 900 pm	Sub Total: 1350
			T-Started 1100 pm	Std. By 12 75 <sup>00</sup>
			T-Open 115 am	Other CC: 150 <sup>00</sup>
			T-Pulled 5:30 am	Total: _____
			T-Out 8:30 am	

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

Approved By [Signature]  
 Our Representative [Signature]





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20621

05/03

## Test Ticket

Well Name & No. 4-12 Cox Test No. 4 Date 10-27-05  
 Company Abercrombie Energy LLC Zone Tested Morrow Sand  
 Address 150 N Maine Suite 801, Wichita, KS 67202 Elevation 2965 KB 2957 GL  
 Co. Rep / Geo. Jon Christensen Cont. Abercrombie #3 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 12 Twp. 28s Rge. 33w Co. Haskell State Ks  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

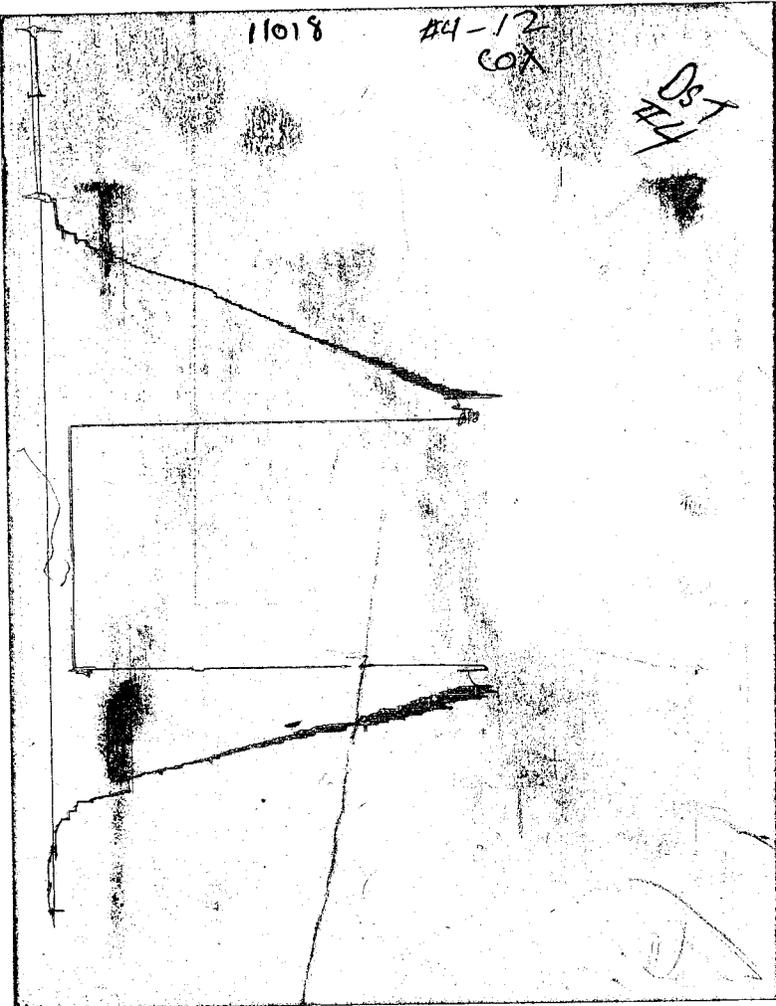
Interval Tested 5131 - 5220 Initial Str Wt./Lbs. 65K <sup>below freezing 50-60</sup> Unseated Str Wt./Lbs. 70K  
 Anchor Length 89 Wt. Set Lbs. 25K Wt. Pulled Loose/Lbs. 75K  
 Top Packer Depth 5126 Tool Weight 1800  
 Bottom Packer Depth 5131 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 5220 Wt. Pipe Run 0 Drill Collar Run 308  
 Mud Wt. 9.0 LCM 4# Vis. 60 WL 7.2 Drill Pipe Size 4.5 XH Ft. Run 4821  
 Blow Description IF - weak blow, built to 1" in bucket.  
ISI - No blow back  
FF - No blow.  
FSI - No blow back

Recovery - Total Feet 62 GIP 300 Ft. in DC 300 Ft. in DP \_\_\_\_\_  
 Rec. 62 Feet of SOCM %gas Tr. %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 119 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 2600 ppm System

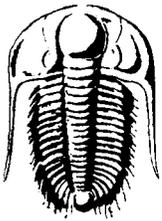
(A) Initial Hydrostatic Mud	AK-1	Alpine	2480	PSI	Recorder No.	6769	Test	1200 <sup>00</sup>
(B) First Initial Flow Pressure			28	PSI	(depth)		Elec. Rec.	
(C) First Final Flow Pressure			34	PSI	Recorder No.	11018	Jars	200 <sup>00</sup>
(D) Initial Shut-In Pressure			57	PSI	(depth)		Safety Jt.	50 <sup>00</sup>
(E) Second Initial Flow Pressure			33	PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure			40	PSI	(depth)		Sampler	
(G) Final Shut-In Pressure			48	PSI	Initial Opening	30	Straddle	
(Q) Final Hydrostatic Mud			2382	PSI	Initial Shut-In	60	Ext. Packer	
					Final Flow	30	Shale Packer	
					Final Shut-In	60	Mileage	100 <sup>00</sup>
					T-On Location	4:30 Am	Sub Total:	1350
					T-Started	5:45 Am	Std. By	25 <sup>00</sup>
					T-Open	8:30 Am	Other	ACC: 150 <sup>00</sup>
					T-Pulled	11:30 Am	Total:	1225
					T-Out	300		

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Approved By [Signature]  
 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 20622

05/03

## Test Ticket

Well Name & No. #4-12 Cox Test No. 5 Date 10-28-05  
 Company Abercrombie LLC Zone Tested Crested Sand  
 Address 150 N Main Suite 801 <sup>Wichita</sup> KS 67202 Elevation 2965 KB 2957 GL  
 Co. Rep / Geo. Jon Christensen Cont. Abercrombie #3 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 12 Twp. 28s Rge. 33w Co. Abkill State Ks  
 No. of Copies 1 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 5316 - 5350 Initial Str Wt./Lbs. 72K Unseated Str Wt./Lbs. 72K  
 Anchor Length 34 Wt. Set Lbs. 25K Wt. Pulled Loose/Lbs. 74K  
 Top Packer Depth 5311 Tool Weight 1800  
 Bottom Packer Depth 5316 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 5350 IDE 5368 HD Wt. Pipe Run 0 Drill Collar Run 368  
 Mud Wt. 8.7 LCM #3 Vis. 45 WL 9.8 Drill Pipe Size 4.5 xH Ft. Run 5002  
 Blow Description IF - weak surface blow, built @ 1" in in duct  
IST - no blow back  
FF - no blow  
EST - no blow back

Recovery - Total Feet 62 GIP no Ft. in DC \_\_\_\_\_ Ft. in DP \_\_\_\_\_  
 Rec. 62 Feet of Very small trace of oil %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 123 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2529</u>	PSI	<u>6769</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>23</u>	PSI	(depth) <u>5318</u>	Elec. Rec. _____
(C) First Final Flow Pressure	<u>35</u>	PSI	Recorder No. <u>13018</u>	Jars <u>200<sup>00</sup></u>
(D) Initial Shut-In Pressure	<u>1397</u>	PSI	(depth) <u>5346</u>	Safety Jt. <u>50<sup>00</sup></u>
(E) Second Initial Flow Pressure	<u>41</u>	PSI	Recorder No. <u>11018</u>	Circ Sub _____
(F) Second Final Flow Pressure	<u>51</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1299</u>	PSI	Initial Opening <u>30</u>	Straddle <u>250</u>
(Q) Final Hydrostatic Mud	<u>2448</u>	PSI	Initial Shut-In <u>60</u>	Ext. Packer <u>150</u>

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Approved By [Signature]  
 Our Representative Harley Davidson

Final Flow 30  
 Final Shut-In 60  
 T-On Location 1130 Am  
 T-Started 130 pm  
 T-Open 445 pm  
 T-Pulled 700 pm  
 T-Off 1030 pm

Mileage 100<sup>00</sup>  
 Sub Total: 250<sup>00</sup>  
 Std. By 1-30  
 Other ACC - 150<sup>00</sup>  
 Total: \_\_\_\_\_

2400

**CHART PAGE**

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

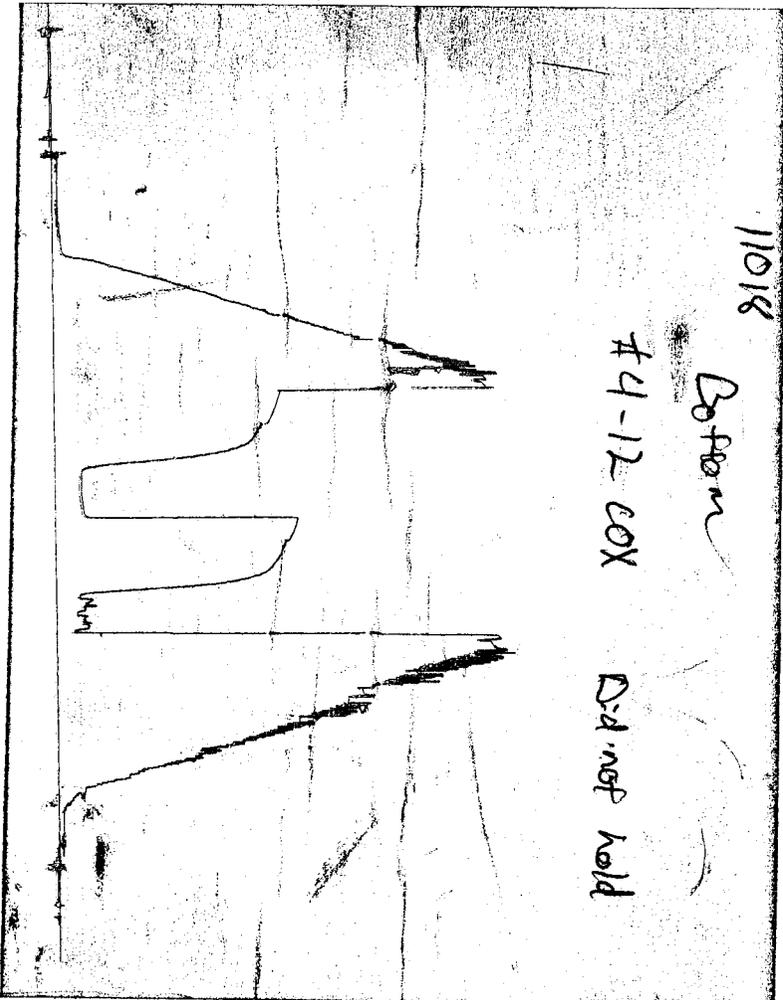


CHART PAGE

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