

## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy Llc.**

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Jon Christenson

**14-28s-33w Haskell**

**1-14 Barber-Granger**

Start Date: 2004.12.21 @ 09:11:29

End Date: 2004.12.21 @ 23:38:04

Job Ticket #: 20547                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Abercrombie Energy Llc.

1-14 Barber-Granger

14-28s-33w Haskell

DST # 1

Lanseing A

2004.12.21



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

ATTN: Jon Christenson

Job Ticket: 20547

DST#: 1

Test Start: 2004.12.21 @ 09:11:29

## GENERAL INFORMATION:

Formation: **Lanseing A**

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

Time Tool Opened: 16:59:49

Time Test Ended: 23:38:04

Test Type: **Conventional Bottom Hole**

Tester: **Kevin Webster**

Unit No: **#15**

Interval: **4142.00 ft (KB) To 4203.00 ft (KB) (TVD)**

Total Depth: **4203.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Good**

Reference Elevations: **2967.00 ft (KB)**

**2955.00 ft (CF)**

KB to GR/CF: **12.00 ft**

**Serial #: 6752**

**Inside**

Press@RunDepth: **497.85 psig @ 4145.00 ft (KB)**

Start Date: **2004.12.21**

End Date:

**2004.12.21**

Start Time: **09:13:29**

End Time:

**23:38:04**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2004.12.21 @ 16:57:07**

Time Off Btm: **2004.12.21 @ 21:07:20**

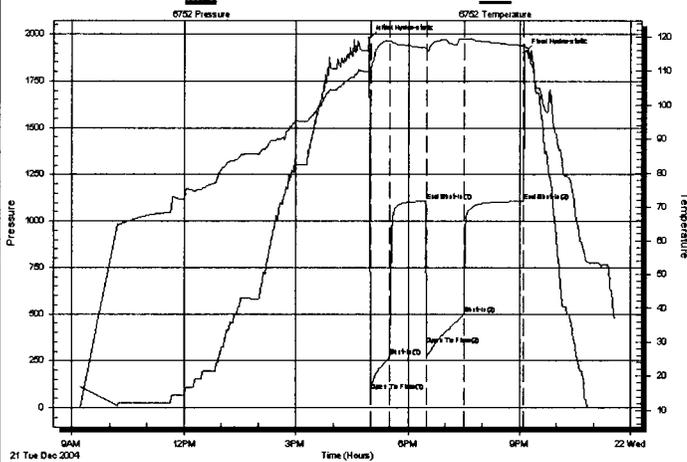
TEST COMMENT: **IF- bob asao gts 27 min**

**IS- blew back 3 in**

**FF- bob asao**

**FS- blew back 2 in**

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1975.31	109.70	Initial Hydro-static
3	90.85	110.13	Open To Flow (1)
34	273.81	119.00	Shut-In(1)
92	1107.74	116.68	End Shut-In(1)
93	334.42	116.38	Open To Flow (2)
154	497.85	119.44	Shut-In(2)
250	1106.16	117.49	End Shut-In(2)
251	1901.21	117.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
93.00	5% gas 25% water 70% mud	0.46
93.00	5% gas 75% water 20% mud	0.46
896.00	5% gas 95% water	10.88

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20547

**DST#: 1**

ATTN: Jon Christenson

Test Start: 2004.12.21 @ 09:11:29

### Tool Information

Drill Pipe:	Length: 3768.00 ft	Diameter: 3.80 inches	Volume: 52.86 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: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4142.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	84.00 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			4121.00	
Shut In Tool	5.00			4126.00	
Hydraulic tool	5.00			4131.00	
Safety Joint	2.00			4133.00	
Packer	5.00			4138.00	23.00 Bottom Of Top Packer
Packer	4.00			4142.00	
Stubb	1.00			4143.00	
Perforations	2.00			4145.00	
Recorder	0.00	6752	Inside	4145.00	
Drill Pipe	31.00			4176.00	
Perforations	23.00			4199.00	
Recorder	0.00	6724	Outside	4199.00	
Bullnose	4.00			4203.00	61.00 Bottom Packers & Anchor

**Total Tool Length: 84.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

ATTN: Jon Christenson

Job Ticket: 20547

**DST#: 1**

Test Start: 2004.12.21 @ 09:11:29

**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:

90000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.70 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
93.00	5% gas 25% water 70% mud	0.457
93.00	5% gas 75% water 20% mud	0.457
896.00	5% gas 95% water	10.883

Total Length: 1082.00 ft

Total Volume: 11.797 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

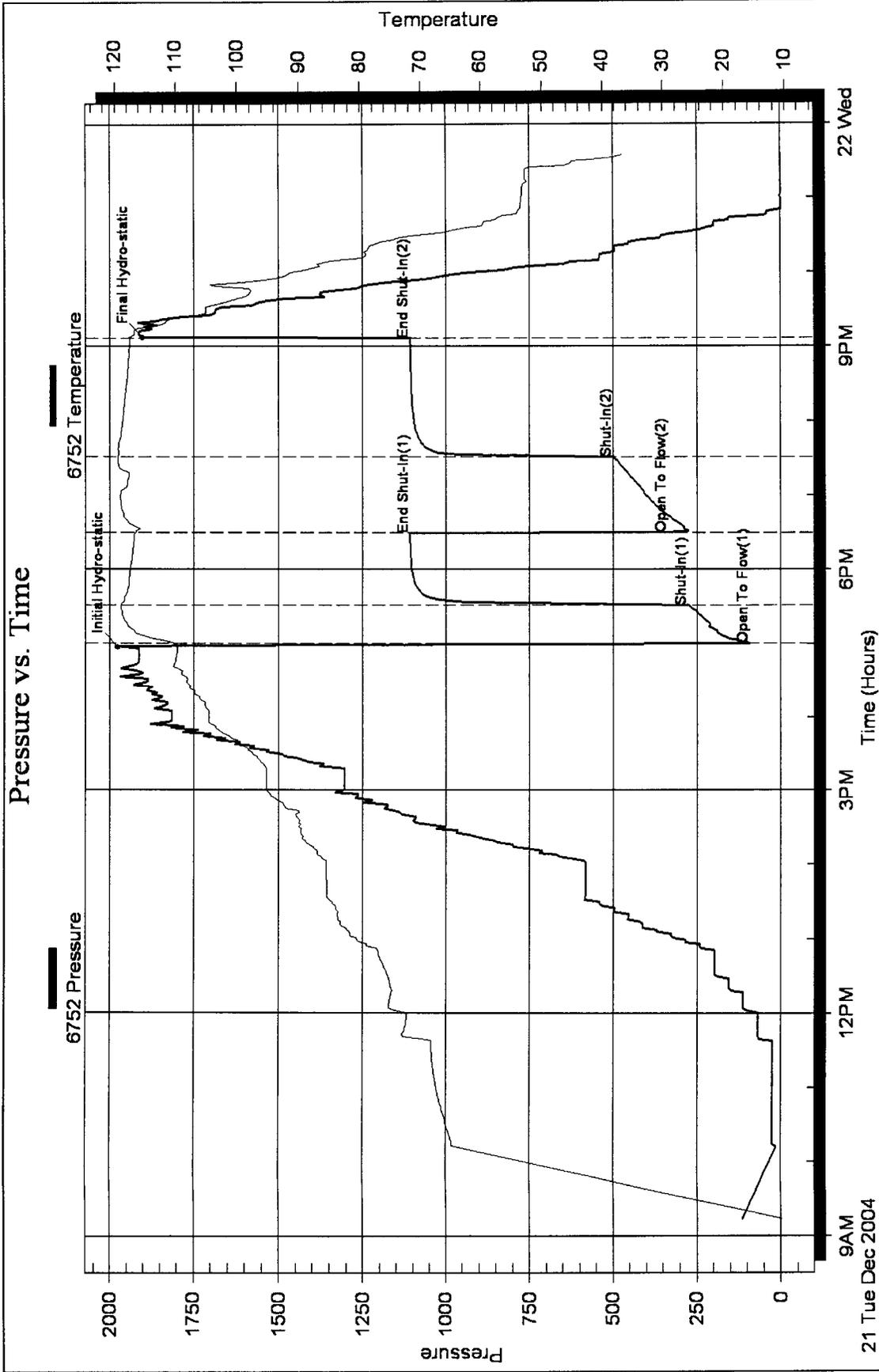
Serial #: 6752

Inside

Abercrombie Energy Lic.

14-28s-33w Haskell

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy Llc.**

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Jon Christenson

**14-28s-33w Haskell**

**1-14 Barber-Granger**

Start Date: 2004.12.27 @ 09:17:53

End Date: 2004.12.27 @ 17:06:08

Job Ticket #: 20585                      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.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

ATTN: Jon Christenson

Job Ticket: 20585      **DST#: 2**

Test Start: 2004.12.27 @ 09:17:53

### GENERAL INFORMATION:

Formation: **L. Landsing**

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

Time Tool Opened: 11:43:08

Time Test Ended: 17:06:08

Test Type: **Conventional Bottom Hole**

Tester: **Harley Davidson**

Unit No: **#15**

Interval: **4416.00 ft (KB) To 4460.00 ft (KB) (TVD)**

Total Depth: **4203.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Good**

Reference Elevations: **2967.00 ft (KB)**

**2955.00 ft (CF)**

**KB to GR/CF: 12.00 ft**

**Serial #: 6769**

**Inside**

Press@RunDepth: **1152.99 psig @ 4423.00 ft (KB)**

Start Date: **2004.12.27**

End Date:

**2004.12.27**

Start Time: **09:17:55**

End Time:

**17:06:08**

Capacity: **7000.00 psig**

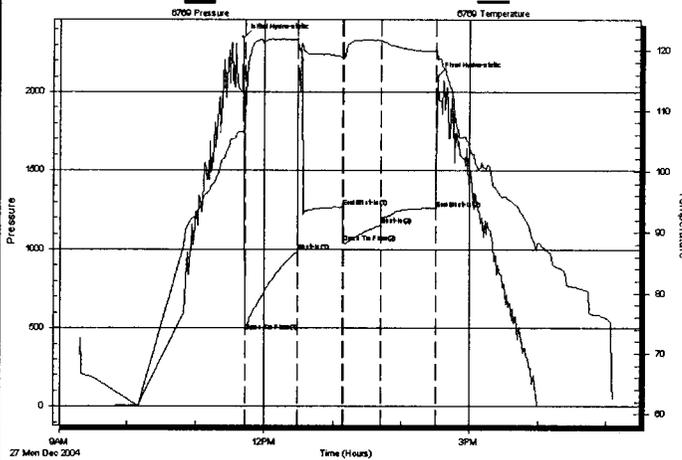
Last Calib.: **1899.12.30**

Time On Btrn: **2004.12.27 @ 11:41:23**

Time Off Btrn: **2004.12.27 @ 14:31:38**

**TEST COMMENT:** IF- Good blow , BOB 1min. No GTS.  
Got stuck on w all, had to pull lose and reset.  
IS- No blow back.  
FF- Good blow , BOB 2 1/2min. No GTS.

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2348.18	106.61	Initial Hydro-static
2	476.77	109.09	Open To Flow (1)
48	989.33	121.74	Shut-In(1)
87	1267.96	118.98	End Shut-In(1)
87	1042.82	118.78	Open To Flow (2)
120	1152.99	121.68	Shut-In(2)
170	1259.55	119.78	End Shut-In(2)
171	2103.02	118.43	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
80.00	1% g, 29%w, 70%m, Few spots oil in tub.0.39	
1600.00	5%G 5%M 90%W Few spots oil in tube. 19.73	

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy LLC.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20585

**DST#: 2**

ATTN: Jon Christenson

Test Start: 2004.12.27 @ 09:17:53

## Tool Information

Drill Pipe:	Length: 4040.00 ft	Diameter: 3.80 inches	Volume: 56.67 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: 378.00 ft	Diameter: 2.25 inches	Volume: 1.86 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4416.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	67.00 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			4395.00	
Shut In Tool	5.00			4400.00	
Hydraulic tool	5.00			4405.00	
Safety Joint	2.00			4407.00	
Packer	5.00			4412.00	23.00 Bottom Of Top Packer
Packer	4.00			4416.00	
Stubb	5.00			4421.00	
Perforations	2.00			4423.00	
Recorder	0.00	6769	Inside	4423.00	
Perforations	33.00			4456.00	
Recorder	0.00	6724	Outside	4456.00	
Bullnose	4.00			4460.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20585

**DST#: 2**

ATTN: Jon Christenson

Test Start: 2004.12.27 @ 09:17:53

### 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:	125000 ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.68 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 700.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	1% g, 29%w, 70%m, Few spots oil in tube	0.393
1600.00	5%G 5%M 90%W Few spots oil in tube.	19.729

Total Length: 1680.00 ft      Total Volume: 20.122 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

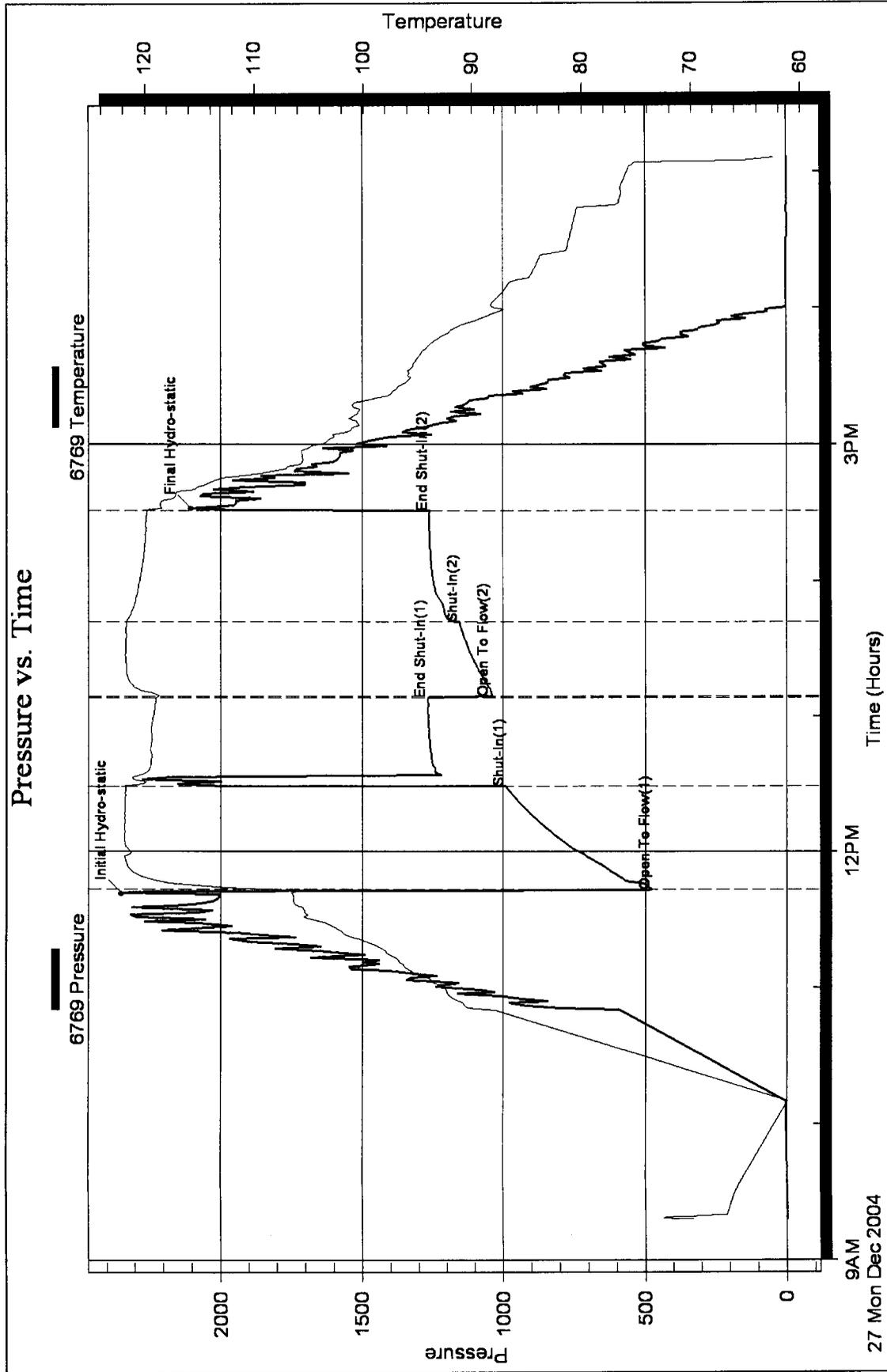
Serial #:

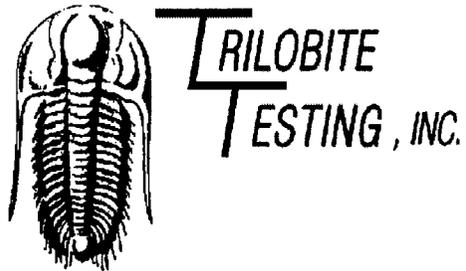
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy Llc.**

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Jon Christenson

**14-28s-33w Haskell**

**1-14 Barber-Granger**

Start Date: 2004.12.28 @ 17:02:55

End Date: 2004.12.29 @ 04:06:25

Job Ticket #: 20586                      DST #: 3

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.

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Jon Christenson

**1-14 Barber-Granger**

**14-28s-33w Haskell**

Job Ticket: 20586

DST#: 3

Test Start: 2004.12.28 @ 17:02:55

### GENERAL INFORMATION:

Formation: **Marmaton B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:19:40

Time Test Ended: 04:06:25

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: #15

Interval: **4751.00 ft (KB) To 4783.00 ft (KB) (TVD)**

Total Depth: 4203.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 2967.00 ft (KB)

2955.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 6769**

Inside

Press@RunDepth: 269.52 psig @ 4754.00 ft (KB)

Start Date: 2004.12.28

End Date:

2004.12.29

Start Time: 17:02:57

End Time:

04:06:25

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.12.28 @ 20:17:25

Time Off Btm: 2004.12.29 @ 00:09:55

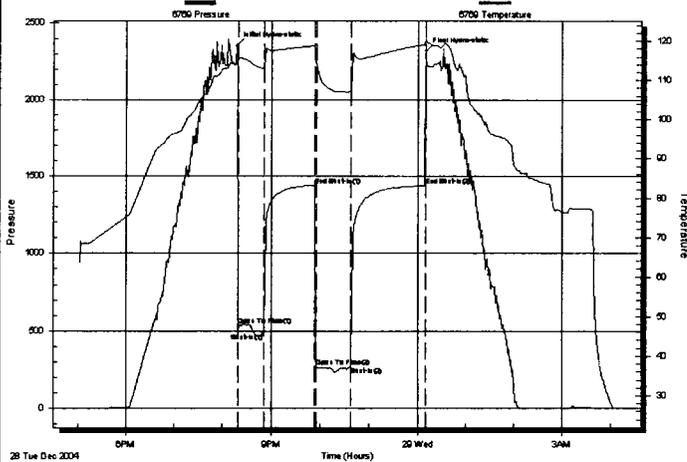
TEST COMMENT: IF- BOB ASAO, GTS 2min.

IS- No blow back.

FF- BOB ASAO, GTS ASAO, Leveled off at 20.5 on 3/4 choke.

FS- No blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2350.61	114.39	Initial Hydro-static
3	537.87	115.37	Open To Flow (1)
34	487.48	113.14	Shut-In(1)
96	1440.65	118.82	End Shut-In(1)
98	268.64	114.23	Open To Flow (2)
141	269.52	107.05	Shut-In(2)
233	1438.51	119.15	End Shut-In(2)
233	2316.86	120.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
278.00	40% m 60% WRW .114 @ 30F=20000	1.37

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	15.00	459.22
Last Gas Rate	0.75	20.50	545.13
Max. Gas Rate	0.75	20.50	545.13



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20586

**DST#: 3**

ATTN: Jon Christenson

Test Start: 2004.12.28 @ 17:02:55

### Tool Information

Drill Pipe:	Length: 4482.00 ft	Diameter: 3.80 inches	Volume: 62.87 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: 278.00 ft	Diameter: 2.25 inches	Volume: 1.37 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 64.24 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4751.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	55.00 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			4730.00	
Shut In Tool	5.00			4735.00	
Hydraulic tool	5.00			4740.00	
Safety Joint	2.00			4742.00	
Packer	5.00			4747.00	23.00 Bottom Of Top Packer
Packer	4.00			4751.00	
Stubb	1.00			4752.00	
Perforations	2.00			4754.00	
Recorder	0.00	6769	Inside	4754.00	
Perforations	25.00			4779.00	
Recorder	0.00	6724	Outside	4779.00	
Bullnose	4.00			4783.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20586

**DST#: 3**

ATTN: Jon Christenson

Test Start: 2004.12.28 @ 17:02:55

**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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.10 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 43000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
278.00	40% m 60% WRW .114 @ 30F=200000ppm	1.367

Total Length: 278.00 ft

Total Volume: 1.367 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: xxx

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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

# DRILL STEM TEST REPORT

**GAS RATES**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20586

**DST#: 3**

ATTN: Jon Christenson

Test Start: 2004.12.28 @ 17:02:55

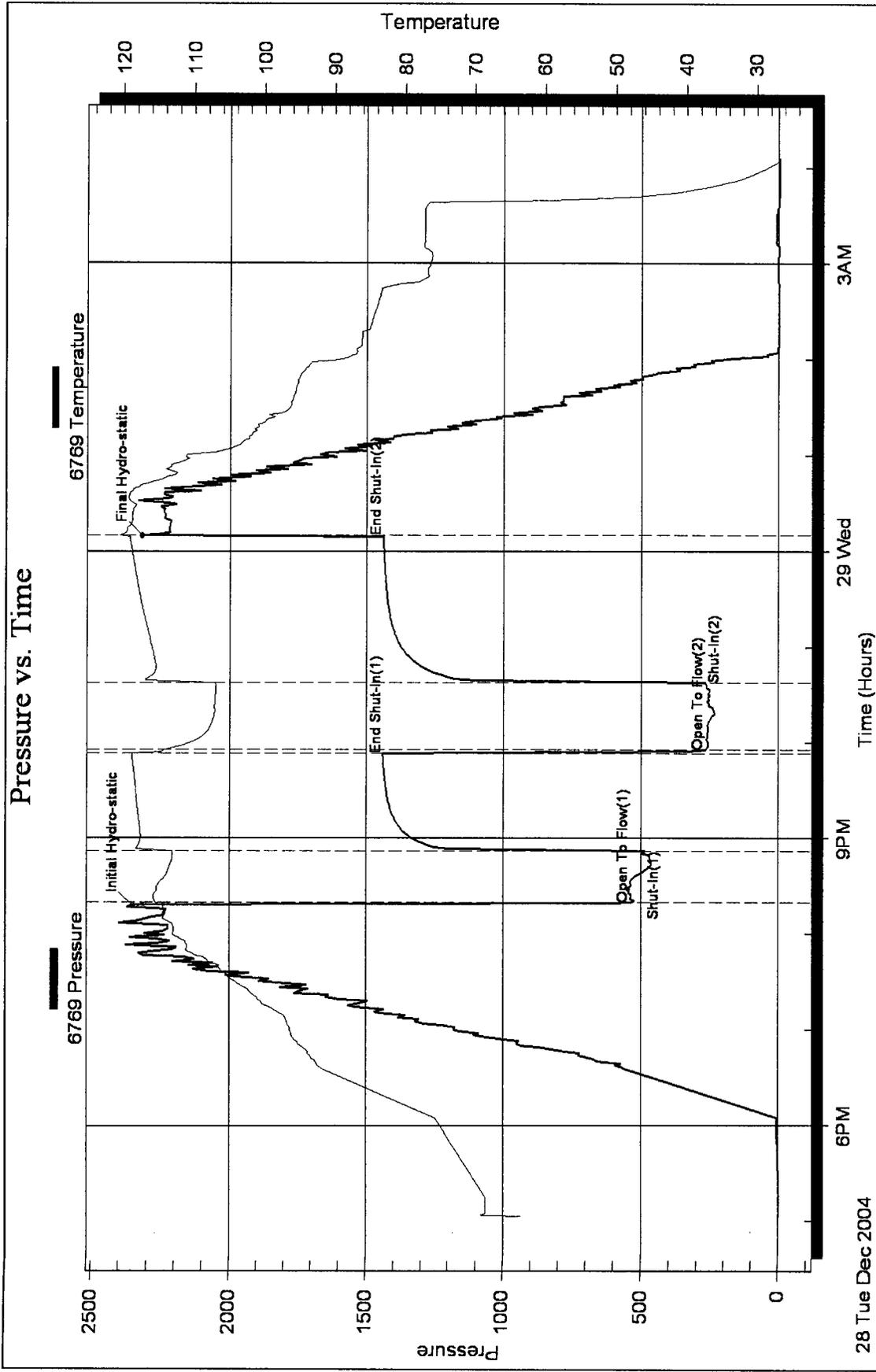
## Gas Rates Information

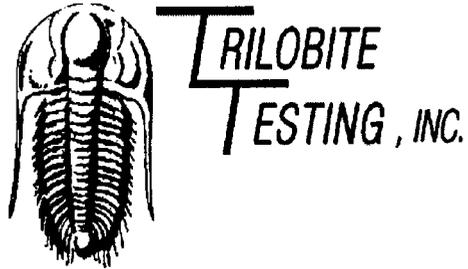
Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	18	0.75	15.00	459.22
1	28	0.75	16.50	482.65
2	10	0.75	17.00	490.46
2	20	0.75	20.50	545.13
2	30	0.75	20.50	545.13
2	40	0.75	20.50	545.13
2	5	0.75	20.50	545.13

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy Llc.**

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Jon Christenson

**14-28s-33w Haskell**

**1-14 Barber-Granger**

Start Date: 2004.12.29 @ 15:48:53

End Date: 2004.12.30 @ 02:06:08

Job Ticket #: 20587                      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

Abercrombie Energy Llc.

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Jon Christenson

**1-14 Barber-Granger**

**14-28s-33w Haskell**

Job Ticket: 20587

DST#: 4

Test Start: 2004.12.29 @ 15:48:53

## GENERAL INFORMATION:

Formation: **Pawnee**

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

Time Tool Opened: 18:49:23

Time Test Ended: 02:06:08

Test Type: **Conventional Bottom Hole**

Tester: **Harley Davidson**

Unit No: **#15**

Interval: **4810.00 ft (KB) To 4843.00 ft (KB) (TVD)**

Reference Elevations: 2967.00 ft (KB)

Total Depth: **4843.00 ft (KB) (TVD)**

2955.00 ft (CF)

Hole Diameter: **7.78 inches** Hole Condition: **Good**

KB to GR/CF: **12.00 ft**

**Serial #: 6769**

**Inside**

Press@RunDepth: 224.02 psig @ 4846.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.12.29

End Date:

2004.12.30

Last Calib.: 1899.12.30

Start Time: 15:48:55

End Time:

02:06:08

Time On Btrt 2004.12.29 @ 18:46:23

Time Off Btrt 2004.12.29 @ 22:41:23

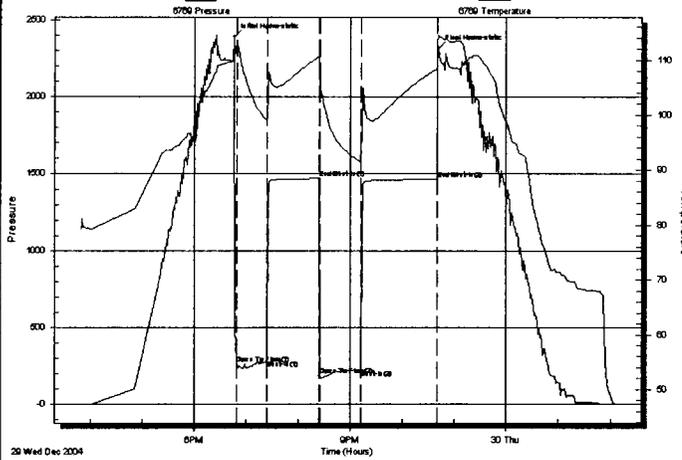
TEST COMMENT: IF- BOB ASAO, GTS 2min.

IS- No blow back.

FF- BOB GTS ASAO, leveled off @ 110 psi on 1/2 in. choke.

FS- No blow bsck.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2389.55	109.83	Initial Hydro-static
3	260.72	112.72	Open To Flow (1)
38	286.00	98.95	Shut-in(1)
98	1468.76	110.57	End Shut-in(1)
100	190.62	104.37	Open To Flow (2)
146	224.02	91.47	Shut-in(2)
234	1464.17	108.37	End Shut-in(2)
235	2313.56	114.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	5% gas 95% mud	0.91

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	80.00	636.79
Last Gas Rate	0.50	110.00	839.16
Max. Gas Rate	0.50	115.00	872.89



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20587

**DST#: 4**

ATTN: Jon Christenson

Test Start: 2004.12.29 @ 15:48:53

## Tool Information

Drill Pipe:	Length: 4479.00 ft	Diameter: 3.80 inches	Volume: 62.83 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: 30000.00 lb
Drill Collar:	Length: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 64.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4843.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	56.00 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			4822.00	
Shut In Tool	5.00			4827.00	
Hydraulic tool	5.00			4832.00	
Safety Joint	2.00			4834.00	
Packer	5.00			4839.00	23.00 Bottom Of Top Packer
Packer	4.00			4843.00	
Stubb	1.00			4844.00	
Perforations	2.00			4846.00	
Recorder	0.00	6769	Inside	4846.00	
Perforations	26.00			4872.00	
Recorder	0.00	6724	Outside	4872.00	
Bullnose	4.00			4876.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Abercrombie Energy Llc.

1-14 Barber-Granger

150 N. Main Ste 801  
Wichita, KS 67202

14-28s-33w Haskell

Job Ticket: 20587

DST#: 4

ATTN: Jon Christenson

Test Start: 2004.12.29 @ 15:48:53

### 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.73 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 41000.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	5% gas 95% mud	0.915

Total Length: 186.00 ft      Total Volume: 0.915 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.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20587

**DST#: 4**

ATTN: Jon Christenson

Test Start: 2004.12.29 @ 15:48:53

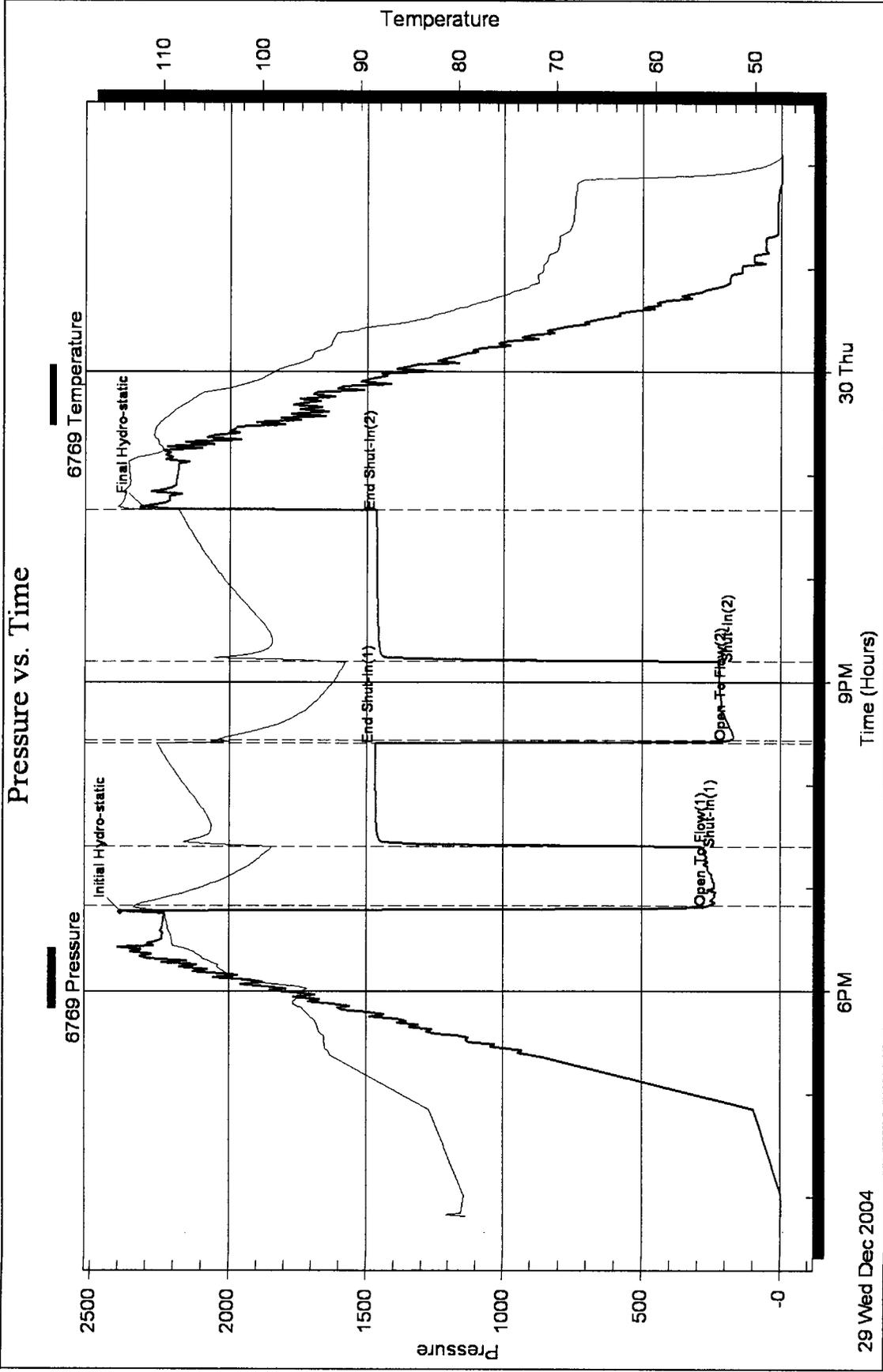
### Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	8	0.50	80.00	636.79
1	10	0.50	100.00	771.71
1	10	0.50	115.00	872.89
2	5	0.50	70.00	569.34
2	15	0.50	100.00	771.71
2	25	0.50	110.00	839.16
2	35	0.50	110.00	839.16
2	45	0.50	110.00	839.16

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy Llc.**

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Jon Christenson

**14-28s-33w Haskell**

**1-14 Barber-Granger**

Start Date: 2004.12.30 @ 22:18:30

End Date: 2004.12.31 @ 08:15:15

Job Ticket #: 20588                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Abercrombie Energy Llc.

1-14 Barber-Granger

14-28s-33w Haskell

DST # 5

Atoka

2004.12.30



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Abercrombie Energy Llc.

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Jon Christenson

**1-14 Barber-Granger**

**14-28s-33w Haskell**

Job Ticket: 20588

DST#: 5

Test Start: 2004.12.30 @ 22:18:30

### GENERAL INFORMATION:

Formation: **Atoka**

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

Time Tool Opened: 01:55:00

Time Test Ended: 08:15:15

Test Type: **Conventional Bottom Hole**

Tester: **Harley Davidson**

Unit No: **#15**

Interval: **4981.00 ft (KB) To 5023.00 ft (KB) (TVD)**

Total Depth: **4203.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Good**

Reference Elevations: **2967.00 ft (KB)**

**2955.00 ft (CF)**

KB to GR/CF: **12.00 ft**

**Serial #: 6769**

**Inside**

Press@RunDepth: **21.65 psig @ 4984.00 ft (KB)**

Start Date: **2004.12.30**

End Date:

**2004.12.31**

Start Time: **22:18:32**

End Time:

**08:15:15**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btrn: **2004.12.31 @ 01:53:30**

Time Off Btrn: **2004.12.31 @ 05:57:15**

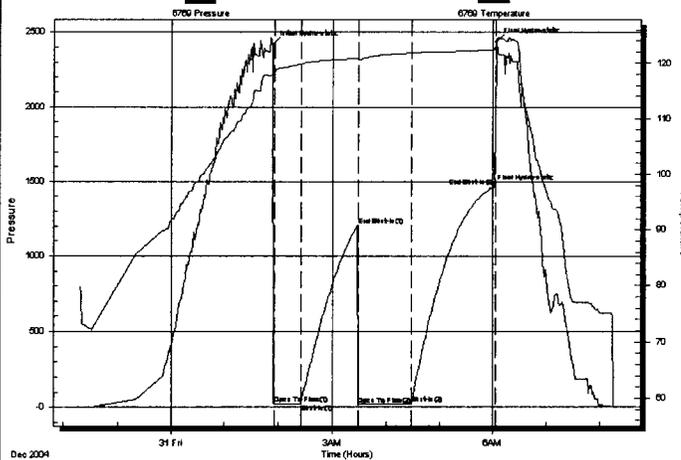
**TEST COMMENT:** IF- Good blow , BOB 9 min, NO GTS.

IS- No blow back.

FF- BOB ASAO, No GTS.

FS- No blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2417.30	117.99	Initial Hydro-static
2	21.80	118.22	Open To Flow (1)
31	23.19	119.80	Shut-In(1)
94	1206.05	120.82	End Shut-In(1)
95	15.13	120.56	Open To Flow (2)
155	21.65	121.74	Shut-In(2)
244	1450.47	122.37	Final Hydro-static
249	1464.20	122.42	End Shut-In(2)
251	2437.88	124.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20588

**DST#: 5**

ATTN: Jon Christenson

Test Start: 2004.12.30 @ 22:18:30

**Tool Information**

Drill Pipe:	Length: 4605.00 ft	Diameter: 3.80 inches	Volume: 64.60 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: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 66.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4981.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 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			4960.00	
Shut In Tool	5.00			4965.00	
Hydraulic tool	5.00			4970.00	
Safety Joint	2.00			4972.00	
Packer	5.00			4977.00	23.00 Bottom Of Top Packer
Packer	4.00			4981.00	
Stubb	1.00			4982.00	
Perforations	2.00			4984.00	
Recorder	0.00	6769	Inside	4984.00	
Perforations	35.00			5019.00	
Recorder	0.00	6724	Outside	5019.00	
Bullnose	4.00			5023.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20588

DST#: 5

ATTN: Jon Christenson

Test Start: 2004.12.30 @ 22:18:30

### 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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.56 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0

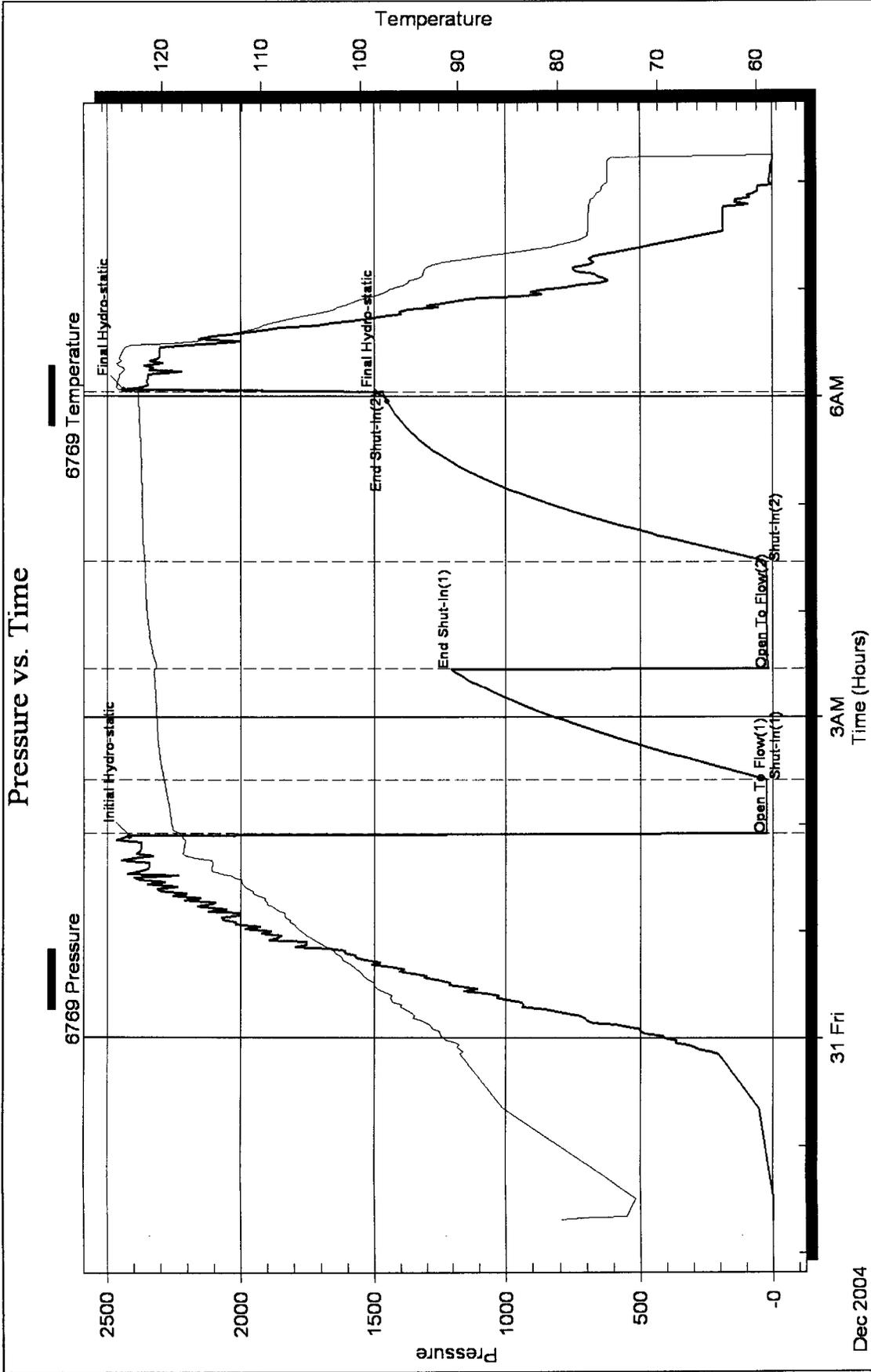
Num Gas Bombs: 0

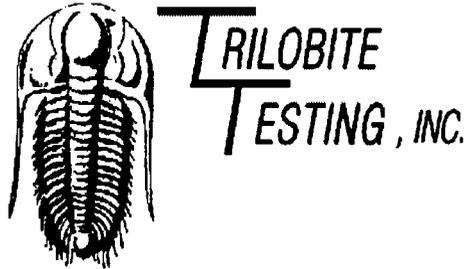
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy Llc.**

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Jon Christenson

**14-28s-33w Haskell**

**1-14 Barber-Granger**

Start Date: 2005.01.01 @ 12:56:50

End Date: 2005.01.01 @ 21:30:50

Job Ticket #: 20589                      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

Abercrombie Energy Llc.

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Jon Christenson

**1-14 Barber-Granger**

**14-28s-33w Haskell**

Job Ticket: 20589

DST#: 6

Test Start: 2005.01.01 @ 12:56:50

## GENERAL INFORMATION:

Formation: **Morrow Sand**

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

Time Tool Opened: 15:30:05

Time Test Ended: 21:30:50

Test Type: **Conventional Bottom Hole**

Tester: **Harley Davidson**

Unit No: **#15**

Interval: **5134.00 ft (KB) To 5328.00 ft (KB) (TVD)**

Total Depth: **4203.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Good**

Reference Elevations: **2967.00 ft (KB)**

**2955.00 ft (CF)**

KB to GR/CF: **12.00 ft**

**Serial #: 6769**

**Inside**

Press@RunDepth: **58.84 psig @ 5330.00 ft (KB)**

Start Date: **2005.01.01**

End Date: **2005.01.01**

Start Time: **12:56:52**

End Time: **21:30:50**

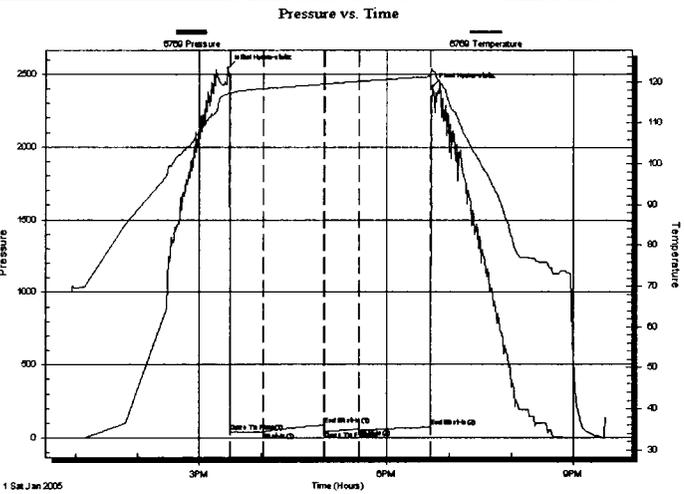
Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btrr: **2005.01.01 @ 15:27:50**

Time Off Btrr: **2005.01.01 @ 18:43:50**

**TEST COMMENT:** IF- Weak surface blow , 2in into bucket.  
IS- No blow back.  
FF- Weak surface blow 1 1/2in into bucket and died.  
FS- No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2541.08	117.16	Initial Hydro-static
3	37.03	117.30	Open To Flow (1)
34	40.89	118.33	Shut-In(1)
93	85.09	119.43	End Shut-In(1)
93	43.69	119.43	Open To Flow (2)
126	58.84	120.11	Shut-In(2)
194	72.94	121.30	End Shut-In(2)
196	2416.53	122.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	100% mud.	0.20

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20589

**DST#: 6**

ATTN: Jon Christenson

Test Start: 2005.01.01 @ 12:56:50

## Tool Information

Drill Pipe:	Length: 4934.00 ft	Diameter: 3.80 inches	Volume: 69.21 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: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 71.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 76.00 lb
Depth to Top Packer:	5328.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	205.00 ft			
Tool Length:	233.00 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			5302.00	
Shut In Tool	5.00			5307.00	
Hydraulic tool	5.00			5312.00	
Jars	5.00			5317.00	
Safety Joint	2.00			5319.00	
Packer	5.00			5324.00	28.00 Bottom Of Top Packer
Packer	4.00			5328.00	
Stubb	1.00			5329.00	
Perforations	1.00			5330.00	
Recorder	0.00	6769	Inside	5330.00	
Drill Pipe	184.00			5514.00	
Perforations	15.00			5529.00	
Recorder	0.00	6724	Outside	5529.00	
Bullnose	4.00			5533.00	205.00 Bottom Packers & Anchor

**Total Tool Length: 233.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20589

**DST#: 6**

ATTN: Jon Christenson

Test Start: 2005.01.01 @ 12:56:50

## 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 700.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	100% mud.	0.197

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6769

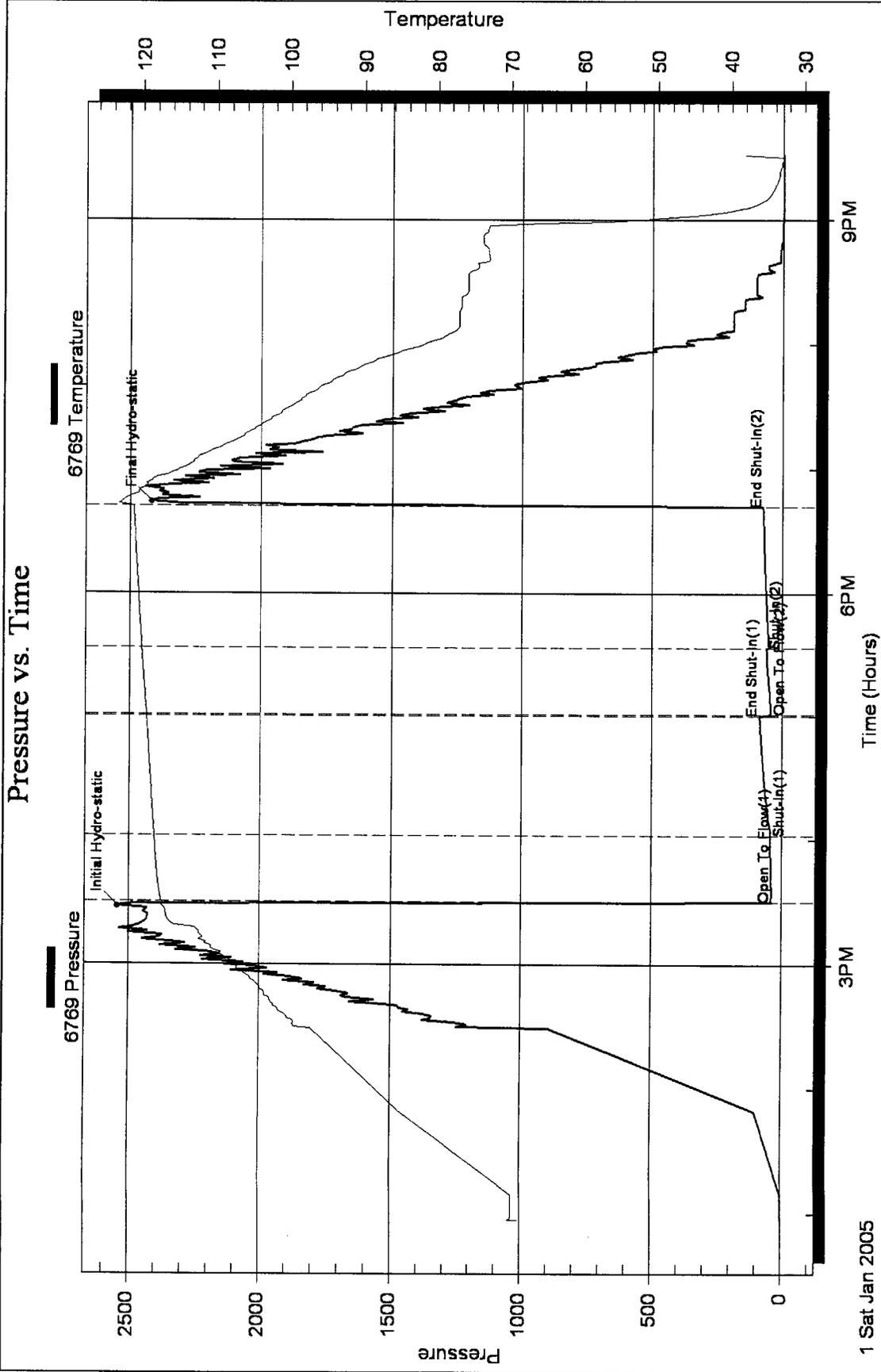
Inside

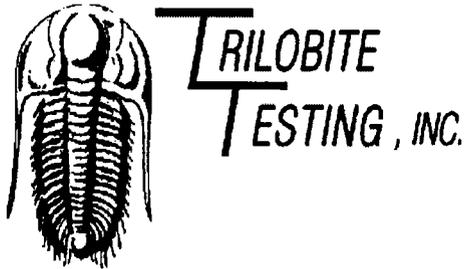
Abercrombie Energy Lc.

14-28s-33w Haskell

DST Test Number: 6

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy Llc.**

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Jon Christenson

**14-28s-33w Haskell**

**1-14 Barber-Granger**

Start Date: 2005.01.03 @ 00:47:36

End Date: 2005.01.03 @ 09:35:06

Job Ticket #: 20590                      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

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

ATTN: Jon Christenson

Job Ticket: 20590 **DST#: 7**

Test Start: 2005.01.03 @ 00:47:36

## GENERAL INFORMATION:

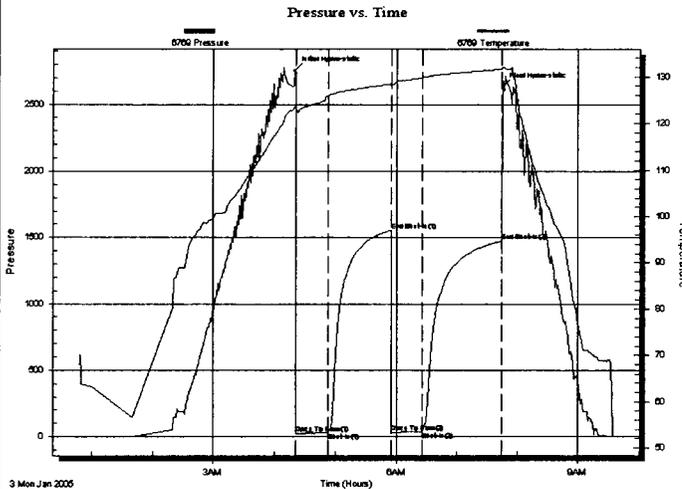
Formation: **St. Louis "B"**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 04:21:06  
 Time Test Ended: 09:35:06  
 Interval: **5504.00 ft (KB) To 5537.00 ft (KB) (TVD)**  
 Total Depth: 4203.00 ft (KB) (TVD)  
 Hole Diameter: 7.78 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Harley Davidson  
 Unit No: #15  
 Reference Elevations: 2967.00 ft (KB)  
 2955.00 ft (CF)  
 KB to GR/CF: 12.00 ft

## Serial #: 6769

Inside

Press@RunDepth: 36.94 psig @ 5506.00 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2005.01.03 End Date: 2005.01.03 Last Calib.: 1899.12.30  
 Start Time: 00:47:38 End Time: 09:35:06 Time On Btm: 2005.01.03 @ 04:19:36  
 Time Off Btm: 2005.01.03 @ 07:45:36

**TEST COMMENT:** F- Weak surface blow 1/2 in. into bucket, Died to nothing in 24 min.  
 IS- No blow back.  
 FF- No blow.  
 FS- No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2755.99	123.54	Initial Hydro-static
2	21.45	122.95	Open To Flow (1)
33	29.18	125.84	Shut-In(1)
95	1553.86	128.45	End Shut-In(1)
96	32.51	128.23	Open To Flow (2)
126	36.94	129.82	Shut-In(2)
205	1473.73	131.65	End Shut-In(2)
206	2637.53	132.05	Final Hydro-static

## Recovery

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

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

Job Ticket: 20590

**DST#: 7**

ATTN: Jon Christenson

Test Start: 2005.01.03 @ 00:47:36

### Tool Information

Drill Pipe:	Length: 5135.00 ft	Diameter: 3.80 inches	Volume: 72.03 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: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 128000.0 lb
			<u>Total Volume: 73.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	5504.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 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
Change Over Sub	2.00			5478.00	
Shut In Tool	5.00			5483.00	
Hydraulic tool	5.00			5488.00	
Safety Joint	2.00			5490.00	
Jars	5.00			5495.00	
Packer	5.00			5500.00	28.00 Bottom Of Top Packer
Packer	4.00			5504.00	
Stubb	1.00			5505.00	
Perforations	1.00			5506.00	
Recorder	0.00	6769	Inside	5506.00	
Perforations	27.00			5533.00	
Recorder	0.00	6724	Outside	5533.00	
Bullhose	4.00			5537.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Abercrombie Energy Llc.

**1-14 Barber-Granger**

150 N. Main Ste 801  
Wichita, KS 67202

**14-28s-33w Haskell**

ATTN: Jon Christenson

Job Ticket: 20590

DST#: 7

Test Start: 2005.01.03 @ 00:47:36

**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:

bbbl

Water Loss: 7.19 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
30.00	100% mud	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

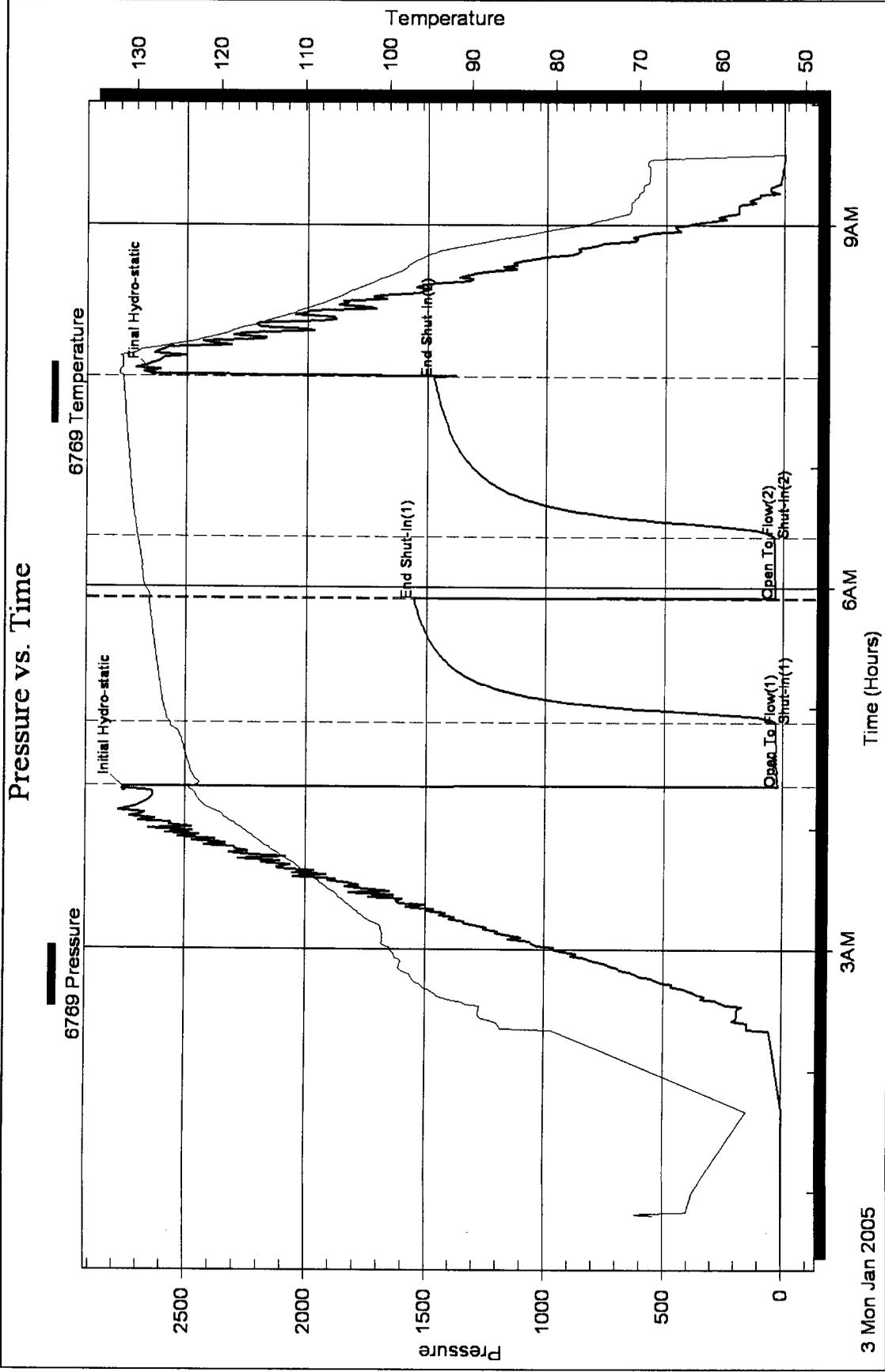
Serial #:

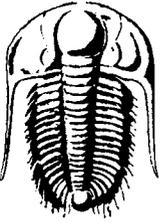
Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV 7088

No 20547

05/03

## Test Ticket

Well Name & No. 1-14 Barber-Granger Test No. 1 Date 12/23/04  
 Company Abercrombie Energy LLC Zone Tested Lansing A  
 Address 150 N main street wichita, KS 67202 Elevation 2967 KB 2955 GL  
 Co. Rep / Geo. John Christenson Cont. Abercrombie # Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 14 Twp. 280S Rge. 33W Co. Seward Haskell State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4142 4203 Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 65,000  
 Anchor Length 61' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth 4137 Tool Weight 1800  
 Bottom Packer Depth 4142 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 4203 Wt. Pipe Run 40 Drill Collar Run 371  
 Mud Wt. 8.9 LCM 3# Vis. 44 WL 4.4 Drill Pipe Size 4.5 Ft. Run 3768  
 Blow Description FF - Bab asad Gts 27 min TSTM  
FSI - Blew back 3"  
FF - Bab asad GTS TSTM  
FSI - Blew back 2"  
 Recovery - Total Feet 1080 GIP GTS Ft. in DC 371 Ft. in DP 709  
 Rec. 93 Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil 25 %water 70 %mud  
 Rec. 93 Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil 75 %water 20 %mud  
 Rec. 896 Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil 95 %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 BHT 116° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 150 @ 41 °F Chlorides 90,000 ppm Recovery \_\_\_\_\_ Chlorides 700 ppm System

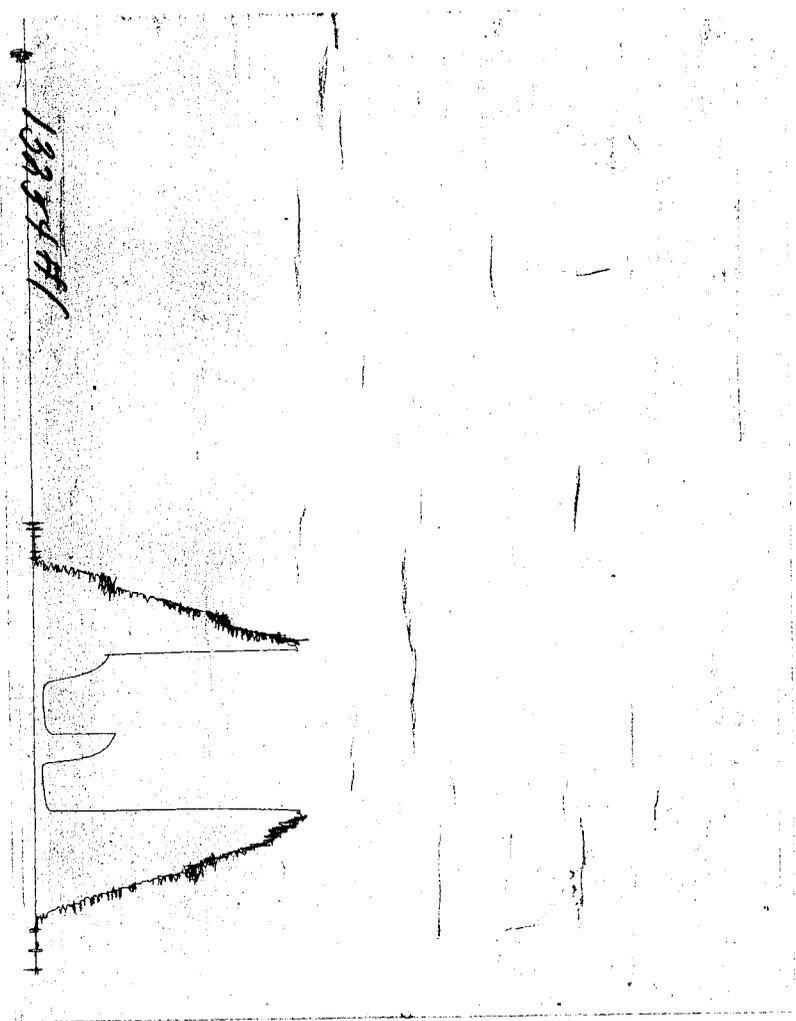
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		1975	6752	1000 1000
(B) First Initial Flow Pressure		90	7144	Elec. Rec.
(C) First Final Flow Pressure		273	10420	Jars 50 50
(D) Initial Shut-In Pressure		1107	4203	Safety Jt.
(E) Second Initial Flow Pressure		314		Circ Sub
(F) Second Final Flow Pressure		497		Sampler
(G) Final Shut-In Pressure		1106		Straddle
(Q) Final Hydrostatic Mud		1901		Ext. Packer
			Initial Opening	Shale Packer
			Final Flow	Mileage 96 RT 96
			Final Shut-In	Sub Total: 1146
			T-On Location	Std. By
			T-Started	Other
			T-Open	Total:
			T-Pulled	
			T-Out	

Approved By [Signature]  
 Our Representative [Signature]

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.

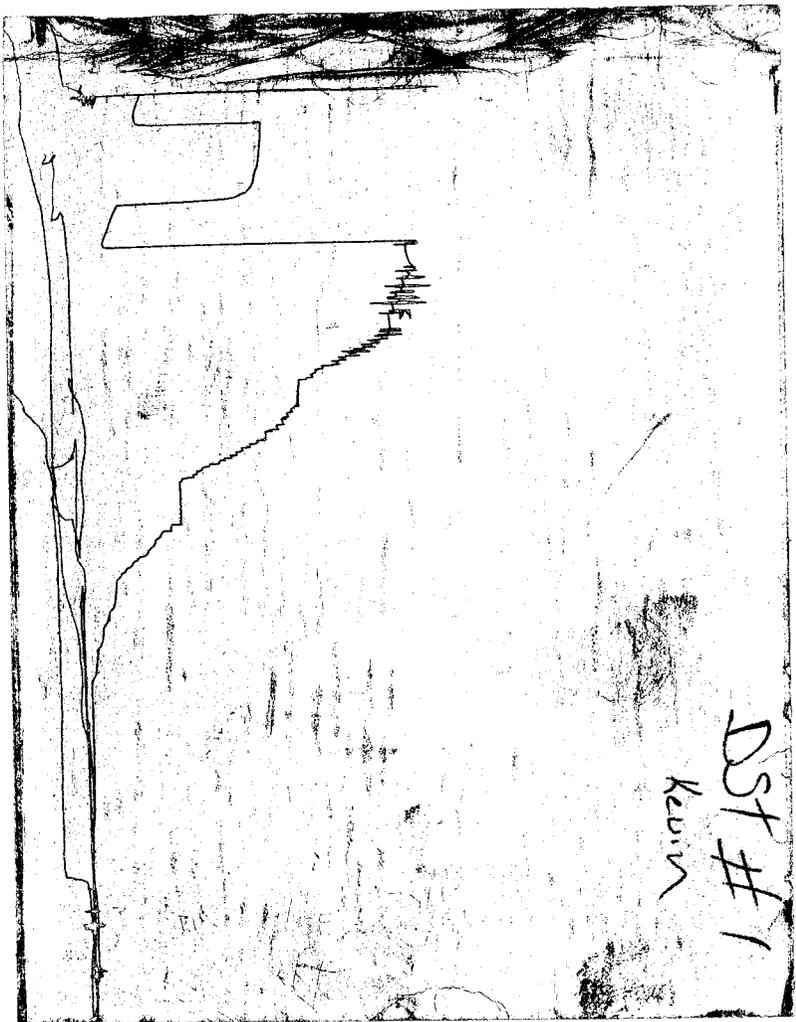
**CHART PAGE**

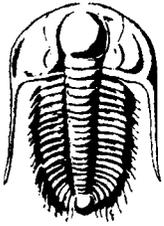
This is a photocopy of the actual AK-1 recorder chart



**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

SENT 12-27-04 No 20585

05/03

## Test Ticket

Well Name & No. Abercrombie Energy LLC Test No. 2 Date 12-27-04  
 Company Barbee-Granger # 1-14 Zone Tested Lansing G  
 Address 150 N. Main, Suite 801 Wichita KS 67202-1383 Elevation 2969 KB 2957 GL  
 Co. Rep / Geo. Jon Christensen Cont. \_\_\_\_\_ Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 14 Twp. 28s Rge. 33W Co. Haskell State KS.  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4416 - 4460 Initial Str Wt./Lbs. 78 K Unseated Str Wt./Lbs. 85 K  
 Anchor Length 44 Wt. Set Lbs. 30 K Wt. Pulled Loose/Lbs. 90 K  
 Top Packer Depth 4411 Tool Weight 1800  
 Bottom Packer Depth 4416 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 4460 Wt. Pipe Run 0 Drill Collar Run 278  
 Mud Wt. 9.0 LCM 3# Vis. 47 WL 11.2 Drill Pipe Size 4 1/2 Ft. Run 40 40  
 Blow Description IF - Good blow BOB 1 min. No GTS  
ISI - No blow back  
FF - Good blow BOB 2 1/2 min. No GTS  
FSI - No blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>80</u> Feet of _____	<u>0</u>	<u>1</u> %gas <u>Few spots</u> %oil <u>29</u> %water <u>70</u> %mud	
Rec. <u>1600</u> Feet of <u>5</u>		%gas <u>Few spots</u> %oil <u>90</u> %water <u>5</u> %mud	
Rec. _____ Feet of _____		%gas _____ %oil _____ %water _____ %mud	
Rec. _____ Feet of _____		%gas _____ %oil _____ %water _____ %mud	
Rec. _____ Feet of _____		%gas _____ %oil _____ %water _____ %mud	

BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .085 @ 63 °F Chlorides 125000 ppm Recovery \_\_\_\_\_ Chlorides 2160 ppm System

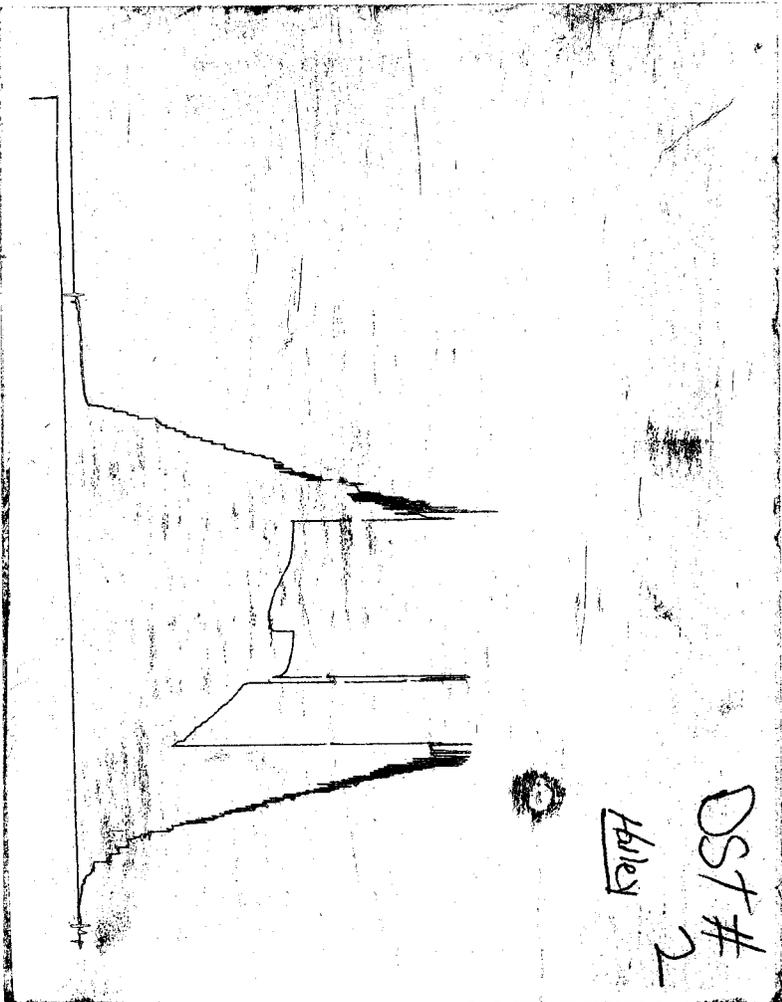
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2348</u> PSI	<u>2348</u> PSI	<u>6769</u>	<u>1000<sup>00</sup></u>
(B) First Initial Flow Pressure	<u>477</u> PSI	<u>477</u> PSI	(depth) <u>4411</u>	Elec. Rec. _____
(C) First Final Flow Pressure	<u>989</u> PSI	<u>989</u> PSI	Recorder No. <u>10242</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1267</u> PSI	<u>1267</u> PSI	(depth) <u>4460</u>	Safety Jt. <u>50<sup>00</sup></u>
(E) Second Initial Flow Pressure	<u>1042</u> PSI	<u>1042</u> PSI	Recorder No. <u>Had to reset tool</u>	Circ Sub _____
(F) Second Final Flow Pressure	<u>1152</u> PSI	<u>1152</u> PSI	(depth) <u>got hung up on side</u>	Sampler _____
(G) Final Shut-In Pressure	<u>1259</u> PSI	<u>1259</u> PSI	Initial Opening <u>30-50</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2103</u> PSI	<u>2103</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>45</u>	Mileage <u>96<sup>00</sup></u>
			T-On Location <u>08 30</u>	Sub Total: <u>1146<sup>00</sup></u>
			T-Started <u>1015</u>	Std. By/hr <u>30</u>
			T-Open <u>1140</u>	Other _____
			T-Pulled <u>10:30 - 2:30</u>	Total: <u>1176</u>
			T-Out <u>3 1730</u>	

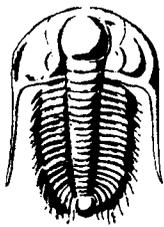
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20586

sent 12-29

05/03

## Test Ticket

Well Name & No. Barbee Granger 1-14 Test No. 3 Date 12-28-04  
 Company Abercrombie Energy LLC Zone Tested Marm B  
 Address 150 N. Main, Suite 801 Wichita Ks 67202-1383 Elevation 2969 KB 2957 GL  
 Co. Rep / Geo. Jon Christensen Cont. \_\_\_\_\_ Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 14 Twp. 28s Rge. 33w Co. Haskell State Ks  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4751-4783 Initial Str Wt./Lbs. 70K Unseated Str Wt./Lbs. 70K  
 Anchor Length 32 Wt. Set Lbs. 30K Wt. Pulled Loose/Lbs. 85K  
 Top Packer Depth 4746 Tool Weight 1800  
 Bottom Packer Depth 4751 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 4783 Wt. Pipe Run 0 Drill Collar Run 278  
 Mud Wt. 9.2 LCM 3# Vis. 49 WL 11.2 Drill Pipe Size 4.5 Ft. Run 4482

Blow Description IF - BOB, ASOA, GTS 2min  
ISI - No blow back  
FF - BOB ASAO GTS ASAO Levelled off at 20 PSI @ 3/4 choke  
FSI - No blow back

Recovery - Total Feet 278 GIP \_\_\_\_\_ Ft. in DC \_\_\_\_\_ Ft. in DP \_\_\_\_\_  
 Rec. 278 Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil 60 %water 40 %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 .114 @ 30 °F Chlorides 200000 ppm Recovery \_\_\_\_\_ Chlorides 4300 ppm System

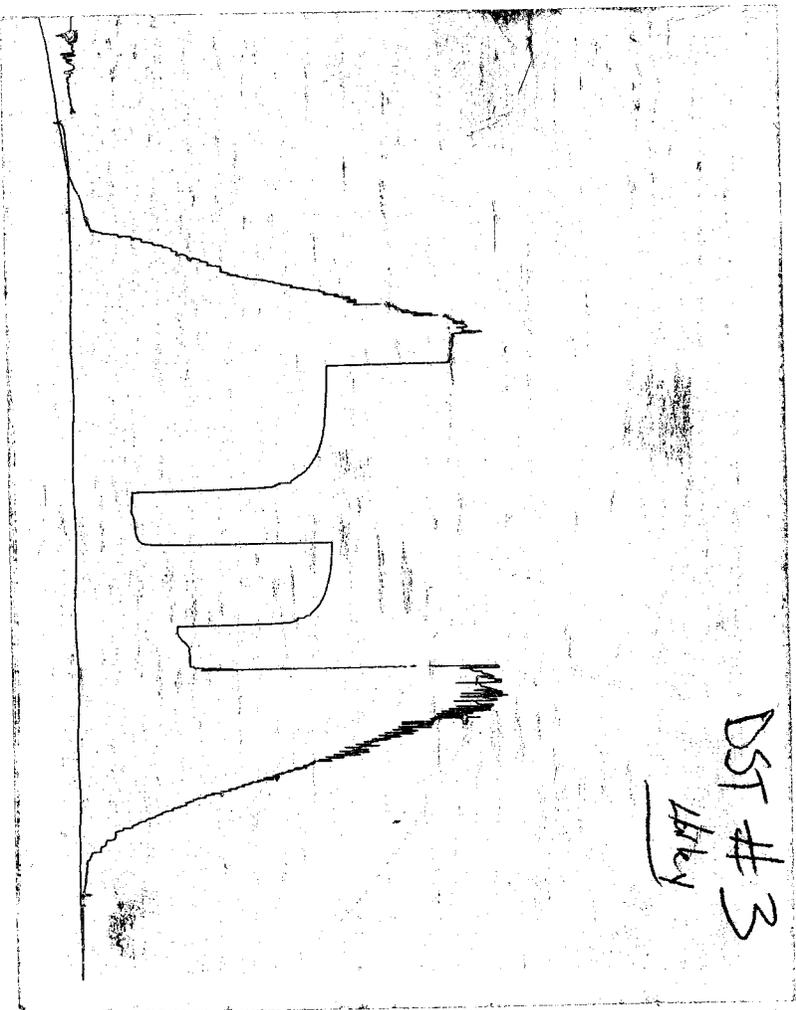
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2350</u> PSI	<u>6769</u>	<u>1000<sup>00</sup></u>
(B) First Initial Flow Pressure		<u>537</u> PSI	(depth) <u>4750</u>	Elec. Rec. _____
(C) First Final Flow Pressure		<u>487</u> PSI	Recorder No. <u>10242</u>	Jars _____
(D) Initial Shut-In Pressure		<u>1440</u> PSI	(depth) <u>4783</u>	Safety Jt. <u>50<sup>00</sup></u>
(E) Second Initial Flow Pressure		<u>268</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		<u>269</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>1438</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>2316</u> PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
			Final Flow <u>45</u>	Shale Packer _____
			Final Shut-In <u>90</u>	Mileage <u>96<sup>00</sup></u>
			T-On Location <u>430-1630</u>	Sub Total: <u>1146<sup>00</sup></u>
			T-Started <u>530 1730</u>	Std. By <u>3.5x30 105<sup>00</sup></u>
			T-Open <u>8-40 2040</u>	Other _____
			T-Pulled <u>1215</u>	Total: <u>1251<sup>00</sup></u>
			T-Out <u>2400</u>	

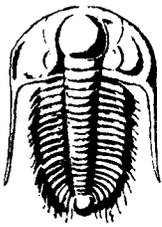
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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



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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20587

05/03

## Test Ticket

Well Name & No. Barbee Granger #1-14 Test No. 4 Date 12-29-04  
 Company Abercrombie Energy LLC Zone Tested Rawnee  
 Address 1501 N. Main Suite 801 Wichita KS 67202-1383 Elevation 2969 KB 2957 GL  
 Co. Rep / Geo. Jon Christenson Cont. Aber #4 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 14 Twp. 28s Rge. 33w Co. Osage State Ks  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4810 - 4843 Initial Str Wt./Lbs. 72K Unseated Str Wt./Lbs. 72 K  
 Anchor Length 33 Wt. Set Lbs. 30K Wt. Pulled Loose/Lbs. 85 K  
 Top Packer Depth 4805 Tool Weight 1800  
 Bottom Packer Depth 4810 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 4843 Wt. Pipe Run 0 Drill Collar Run 371  
 Mud Wt. 8.9 LCM 3# Vis. 52 WL 8.8 Drill Pipe Size 4.5 Ft. Run 4479

Blow Description IF-BOB ASAO, GTS 2min  
ISI - No blow back  
IF-BOB GTS ASAO,  
FSI - No blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>186</u>	Feet of <u>5</u>	%gas _____ %oil _____	%water <u>95</u> %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
BHT <u>110</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____ °API _____
RW _____	@ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides <u>4100</u> ppm System _____

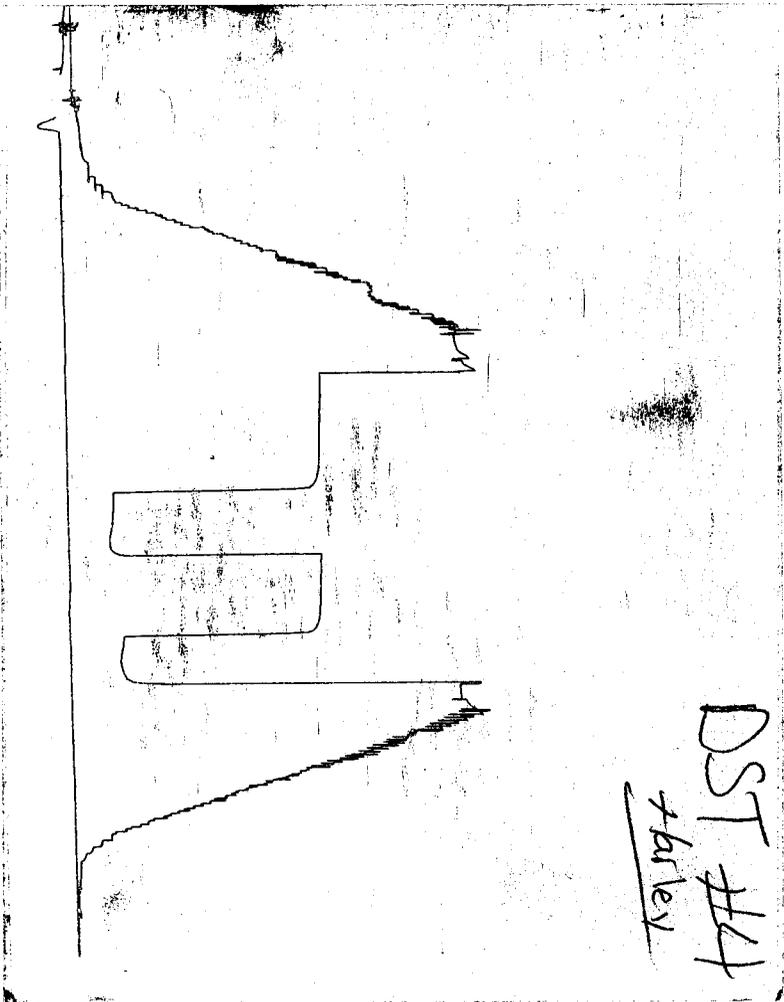
	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2389</u>	<u>2389</u>		<u>6769</u>	<u>1000<sup>00</sup></u>
(B) First Initial Flow Pressure	<u>260</u>	<u>260</u>		<u>4812</u>	Elec. Rec. _____
(C) First Final Flow Pressure	<u>286</u>	<u>1468</u>		<u>10242</u>	Jars _____
(D) Initial Shut-In Pressure	<u>1468</u>	<u>190</u>		<u>4843</u>	Safety Jt. <u>50<sup>00</sup></u>
(E) Second Initial Flow Pressure	<u>190</u>	<u>224</u>			Circ Sub _____
(F) Second Final Flow Pressure	<u>224</u>				Sampler _____
(G) Final Shut-In Pressure	<u>1464</u>		PSI	<b>Initial Opening</b>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2313</u>		PSI	Initial Shut-In	Ext. Packer _____
				Final Flow	Shale Packer _____
				Final Shut-In	Mileage <u>96<sup>00</sup></u>
				<b>T-On Location</b>	Sub Total: <u>1146<sup>00</sup></u>
				T-Started	Std. By <u>3x30 90<sup>00</sup></u>
				T-Open	Other _____
				T-Pulled	Total: <u>1236<sup>00</sup></u>
				T-Out	

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]

**CHART PAGE**

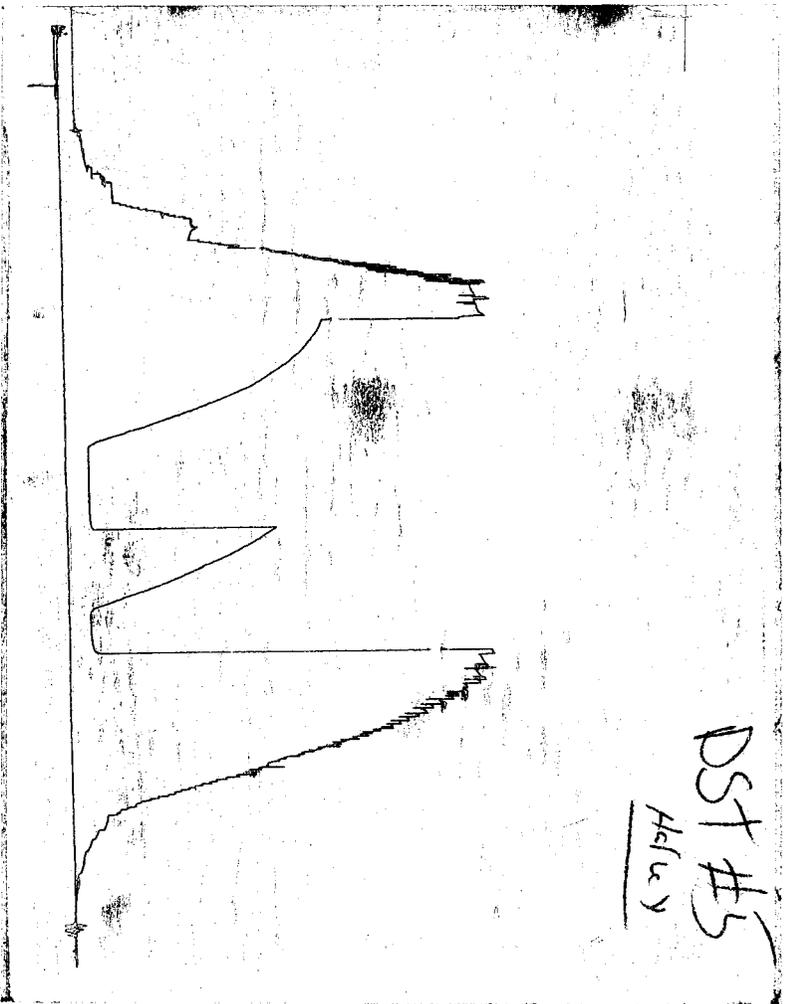
This is a photocopy of the actual AK-1 recorder chart

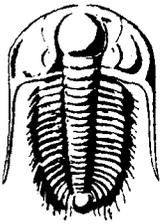




**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20589

05/03

## Test Ticket

Well Name & No. Babe Granger #1-14 Test No. 6 Date 1-1-05  
 Company Abercrombie Energy LLC Zone Tested Morrow Sand  
 Address 150N main suite 801 Wichita ks. 67202 Elevation 2969 KB 2957 GL  
 Co. Rep / Geo. Jon Christenson Cont. Adel #4 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 14 Twp. 28 Rge. 33 Co. Haskell State KS.  
 No. of Copies 1 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 5134 - 5328 Initial Str Wt./Lbs. 76 K Unseated Str Wt./Lbs. 85 K  
 Anchor Length 194 Wt. Set Lbs. 30 K Wt. Pulled Loose/Lbs. 76 K  
 Top Packer Depth 5130 Tool Weight 2000  
 Bottom Packer Depth 5134 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 5328 Wt. Pipe Run 0 Drill Collar Run 371  
 Mud Wt. 9.2 LCM 4# Vis. 52 WL 7.6 Drill Pipe Size 4.5 Ft. Run 4939 4934

Blow Description IF - Surface blow 2 in into bucket  
IS2 - No blow back  
FF - Weak surface blow 1 1/2 in into bucket and died.  
FS1 - No blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>40</u>	Feet of _____	%gas _____ %oil _____	%water <u>100</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 \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm System

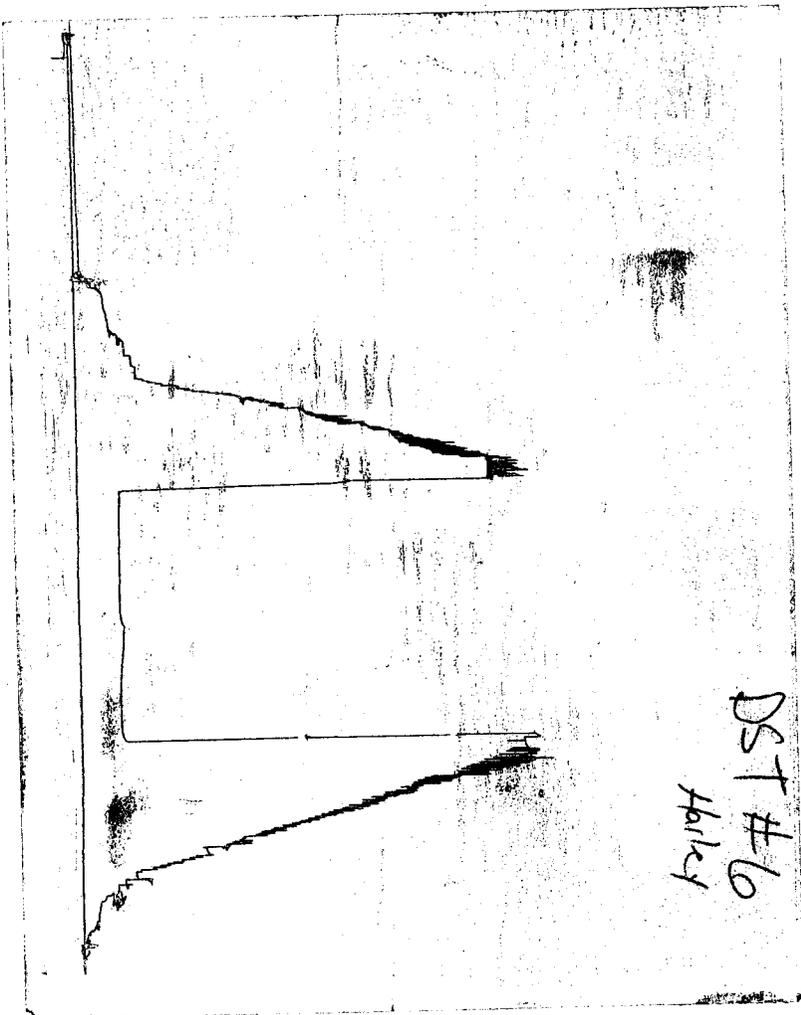
AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2541</u> PSI	<u>6769</u>	<u>1100°</u>
(B) First Initial Flow Pressure	<u>37</u> PSI	(depth) <u>5335</u>	Elec. Rec. _____
(C) First Final Flow Pressure	<u>40</u> PSI	Recorder No. <u>10242</u>	Jars <u>200°</u>
(D) Initial Shut-In Pressure	<u>85</u> PSI	(depth) <u>5328</u>	Safety Jt. <u>50°</u>
(E) Second Initial Flow Pressure	<u>43</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>58</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>72</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2416</u> PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
		Final Flow <u>30</u>	Shale Packer _____
		Final Shut-In <u>60</u>	Mileage <u>96°</u>
		T-On Location <u>100 - 1300</u>	Sub Total: <u>1446°</u>
		T-Started <u>230 - 1430</u>	Std. B <sub>2</sub> <u>15°</u>
		T-Open <u>440 - 1640</u>	Other _____
		T-Pulled <u>750 - 1950</u>	Total: <u>1461°</u>
		T-Out <u>1030 - 2230</u>	

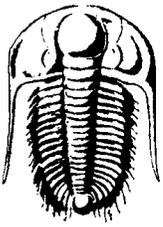
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST, TOOLS LOST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

**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Sent 1-3-05

No 20590

## Test Ticket

Well Name & No. Barbee Granger 1-14 Test No. 7 Date 1-3-05  
 Company Abercrombie Energy LLC Zone Tested St. Louis "B"  
 Address 150 N main suite 801 Wichita Ks 67202 Elevation 2969 KB 2957 GL  
 Co. Rep / Geo. Jon Christenson Cont. Aber. #4 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 14 Twp. 28 Rge. 33 Co. Haskell State Ks  
 No. of Copies 1 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 5504 - 5537 Initial Str Wt./Lbs. 72K Unseated Str Wt./Lbs. 128K  
 Anchor Length 33 Wt. Set Lbs. 30K Wt. Pulled Loose/Lbs. 74K  
 Top Packer Depth 5499 Tool Weight 2000  
 Bottom Packer Depth 5504 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 5537 Wt. Pipe Run 0 Drill Collar Run 371  
 Mud Wt. 9.2 LCM 4# Vis. 60 WL 7.2 Drill Pipe Size 4.5 Ft. Run 5135  
 Blow Description IF - Weak surface blow, died in 24 min. from 1/2 in into bucket  
ISI - No blow back  
FF - No blow  
FSI - No blow back

Recovery - Total Feet 30 GIP \_\_\_\_\_ Ft. in DC \_\_\_\_\_ Ft. in DP \_\_\_\_\_  
 Rec. 30 Feet of \_\_\_\_\_ %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 \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 2900 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2755	PSI	Recorder No.	6769	Test	1100 <sup>00</sup>
(B) First Initial Flow Pressure			21 <sup>0</sup>	PSI	(depth)	5503	Elec. Rec.	
(C) First Final Flow Pressure			29	PSI	Recorder No.	10247	Jars	200 <sup>00</sup>
(D) Initial Shut-In Pressure			1553	PSI	(depth)	5536	Safety Jt.	50 <sup>00</sup>
(E) Second Initial Flow Pressure			32	PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure			36	PSI	(depth)		Sampler	
(G) Final Shut-In Pressure			1473	PSI	Initial Opening	30	Straddle	
(Q) Final Hydrostatic Mud			2637	PSI	Initial Shut-In	60	Ext. Packer	
					Final Flow	30	Shale Packer	
					Final Shut-In	60	Mileage	96 <sup>00</sup>
					T-On Location	1200 - 2400	Sub Total:	
					T-Started	130 - 0130	Std. By	1 hr 30 <sup>00</sup>
					T-Open	420 - 0428	Other	
					T-Pulled	730 - 0730	Total:	1476 <sup>00</sup>
					T-Out	1000		

TRILLOBITE 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 Harley Davidson

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

