

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy LLC**

150 N Main Ste 801  
Wichita KS 67202-1383

ATTN: Monica Turner

**24 19S 26W Ness KS**

**Vogel #1-24**

Start Date: 2007.04.12 @ 09:29:37

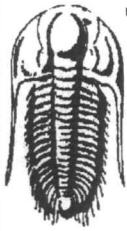
End Date: 2007.04.12 @ 17:02:16

Job Ticket #: 27661                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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# DRILL STEM TEST REPORT

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150 N Main Ste 801  
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ATTN: Monica Turner

**Vogel #1-24**

**24 19S 26W Ness KS**

Job Ticket: 27661

**DST#: 1**

Test Start: 2007.04.12 @ 09:29:37

## GENERAL INFORMATION:

Formation: **Cherokee-Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:33:47

Time Test Ended: 17:02:16

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 23

Interval: **4492.00 ft (KB) To 4595.00 ft (KB) (TVD)**

Total Depth: 4595.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2621.00 ft (KB)

2617.00 ft (CF)

KB to GR/CF: 4.00 ft

**Serial #: 6755 Inside**

Press@RunDepth: 71.62 psig @ 4498.00 ft (KB)

Start Date: 2007.04.12

End Date: 2007.04.12

Start Time: 09:29:37

End Time: 17:02:16

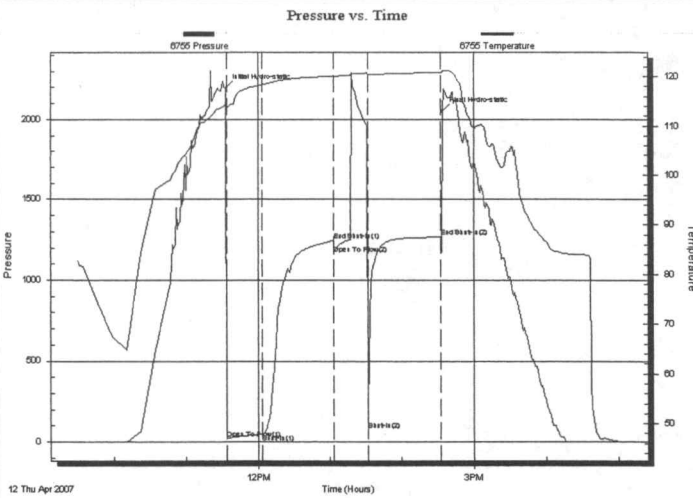
Capacity: 7000.00 psig

Last Calib.: 2007.04.12

Time On Btm: 2007.04.12 @ 11:33:32

Time Off Btm: 2007.04.12 @ 14:34:16

**TEST COMMENT:** IF BOB in 11 mins.  
IS Surface blow built to 1/4 inch died in 27 mins.  
FF No blow flushed tool no blow.  
FS Surface blow died in 8 mins.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2196.75	114.21	Initial Hydro-static
1	21.08	113.77	Open To Flow (1)
30	46.83	118.34	Shut-In(1)
90	1244.30	120.10	End Shut-In(1)
90	1161.18	120.09	Open To Flow (2)
119	71.62	120.25	Shut-In(2)
179	1267.59	120.89	End Shut-In(2)
181	2051.56	121.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	Very heavy O&G spotted M 10%G 35%O	0.56M
20.00	Heavy O&G spotted M 20%G 20%O 60%	0.28
30.00	O spotted M 100%M	0.42
	GIP 270	

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy LLC

**Vogel #1-24**

150 N Main Ste 801  
Wichita KS 67202-1383

**24 19S 26W Ness KS**

Job Ticket: 27661

**DST#: 1**

ATTN: Monica Turner

Test Start: 2007.04.12 @ 09:29:37

### Tool Information

Drill Pipe:	Length: 4485.00 ft	Diameter: 3.80 inches	Volume: 62.91 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
		<u>Total Volume:</u>	<u>62.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4492.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	103.00 ft			
Tool Length:	126.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4470.00	
Shut In Tool	5.00			4475.00	
Hydraulic tool	5.00			4480.00	
Safety Joint	3.00			4483.00	
Packer	5.00			4488.00	23.00 Bottom Of Top Packer
Packer	4.00			4492.00	
Stubb	1.00			4493.00	
Perforations	4.00			4497.00	
Change Over Sub	1.00			4498.00	
Recorder	0.00	6755	Inside	4498.00	
Drill Pipe	91.00			4589.00	
Change Over Sub	1.00			4590.00	
Recorder	0.00	2607	Inside	4590.00	
Bullnose	5.00			4595.00	103.00 Bottom Packers & Anchor

**Total Tool Length: 126.00**



**TRILOBITE  
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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abercrombie Energy LLC

**Vogel #1-24**

150 N Main Ste 801  
Wichita KS 67202-1383

**24 19S 26W Ness KS**

Job Ticket: 27661

**DST#: 1**

ATTN: Monica Turner

Test Start: 2007.04.12 @ 09:29:37

### 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:

bbbl

Water Loss: 8.72 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Very heavy O&G spotted M 10%G 35%O 55%	0.561
20.00	Heavy O&G spotted M 20%G 20%O 60%M	0.281
30.00	O spotted M 100%M	0.421
	GIP 270	

Total Length: -999909.00 ft

Total Volume: 1.263 bbl

Num Fluid Samples: 0

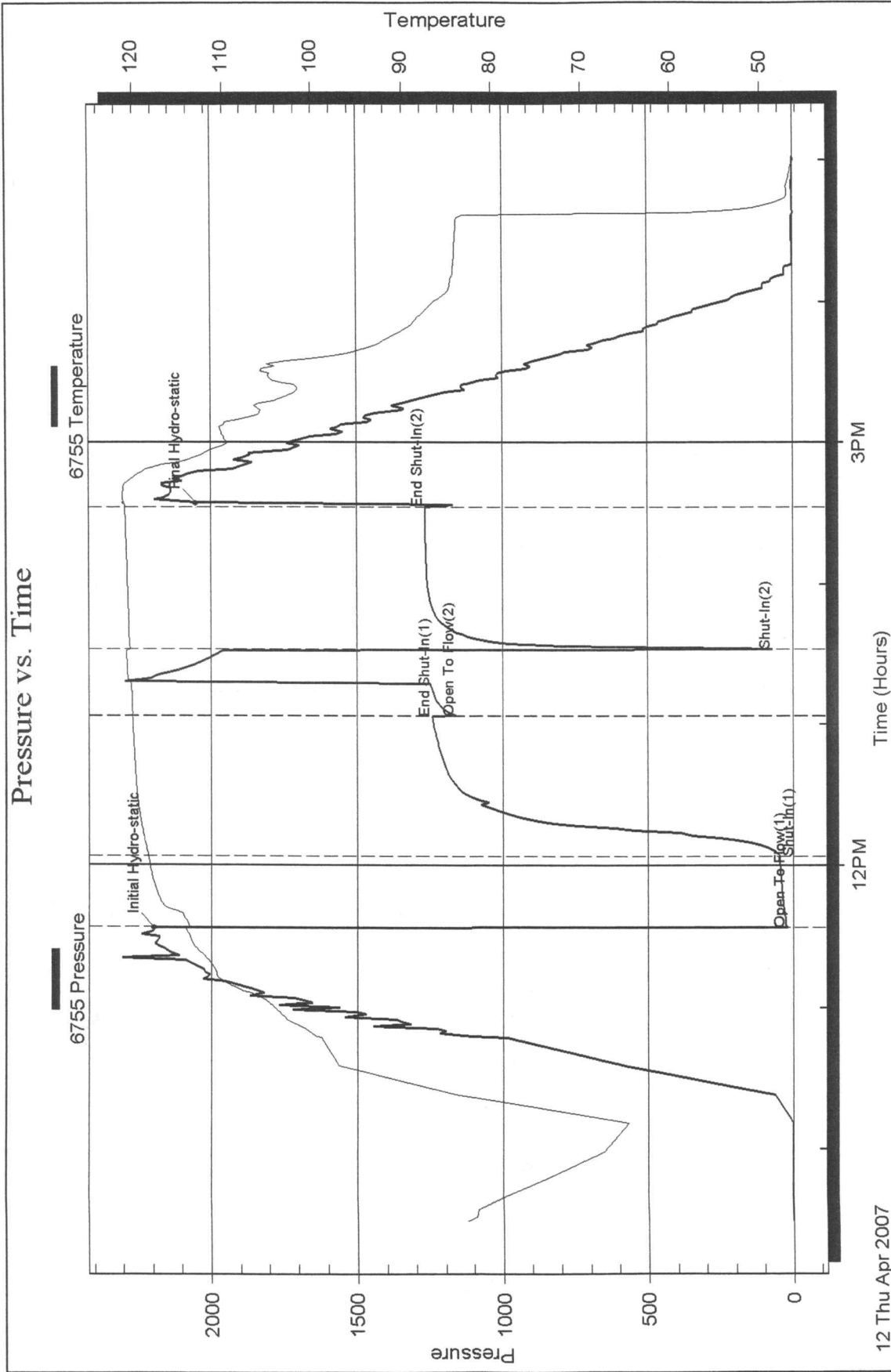
Num Gas Bombs: 0

Serial #:

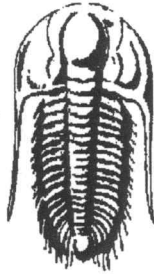
Laboratory Name:

Laboratory Location:

Recovery Comments:



12 Thu Apr 2007



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**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy LLC**

150 N Main Ste 801  
Wichita KS 67202-1383

ATTN: Monica Turner

**24 19S 26W Ness KS**

**Vogel #1-24**

Start Date: 2007.04.13 @ 01:01:39

End Date: 2007.04.13 @ 10:06:04

Job Ticket #: 27662                      DST #: 2

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# DRILL STEM TEST REPORT

Abercrombie Energy LLC

150 N Main Ste 801  
Wichita KS 67202-1383

ATTN: Monica Turner

**Vogel #1-24**

**24 19S 26W Ness KS**

Job Ticket: 27662

**DST#: 2**

Test Start: 2007.04.13 @ 01:01:39

## GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:54:19  
 Time Test Ended: 10:06:04

Test Type: Conventional Bottom Hole  
 Tester: Brandon Domsch  
 Unit No: 23

Interval: **4591.00 ft (KB) To 4600.00 ft (KB) (TVD)**  
 Total Depth: 4595.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2621.00 ft (KB)  
 2617.00 ft (CF)  
 KB to GR/CF: 4.00 ft

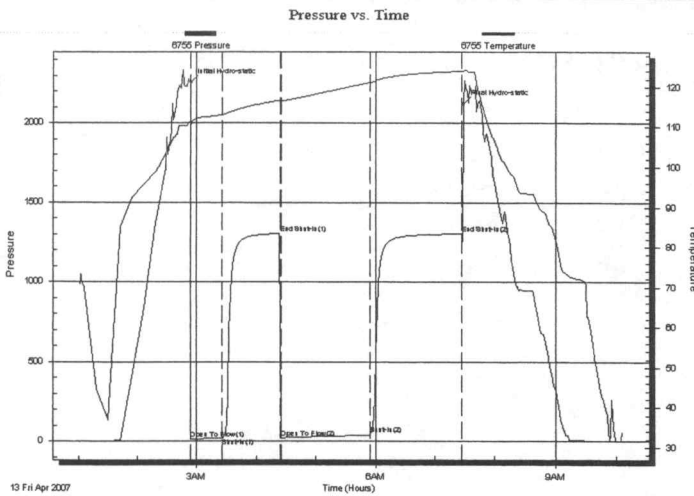
## Serial #: 6755

Inside

Press@RunDepth: 41.98 psig @ 4592.00 ft (KB)  
 Start Date: 2007.04.13 End Date: 2007.04.13  
 Start Time: 01:01:39 End Time: 10:06:04

Capacity: 7000.00 psig  
 Last Calib.: 2007.04.13  
 Time On Btm: 2007.04.13 @ 02:54:04  
 Time Off Btm: 2007.04.13 @ 07:28:48

TEST COMMENT: IF Surface blow built to 2 1/4 inches.  
 IS No return  
 FF Surface blow built to 4 1/4 inches.  
 FS No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2254.28	111.32	Initial Hydro-static
1	13.17	110.15	Open To Flow (1)
32	19.77	113.09	Shut-In (1)
90	1303.30	116.72	End Shut-In (1)
92	20.20	116.47	Open To Flow (2)
181	41.98	121.18	Shut-In (2)
273	1302.57	124.06	End Shut-In (2)
275	2120.90	124.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 20%O 80%M	0.42
30.00	OCM 25%O 75%M	0.42
20.00	O&WCM 5%O 30%W 65%M	0.28
15.00	Slightly M&GCO 10%G 85%O 5%M	0.21

## Gas Rates

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy LLC

**Vogel #1-24**

150 N Main Ste 801  
Wichita KS 67202-1383

**24 19S 26W Ness KS**

Job Ticket: 27662

**DST#: 2**

ATTN: Monica Turner

Test Start: 2007.04.13 @ 01:01:39

**Tool Information**

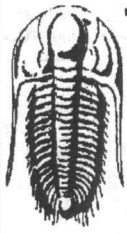
Drill Pipe:	Length: 4574.00 ft	Diameter: 3.80 inches	Volume: 64.16 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
		<u>Total Volume:</u>	64.16 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4591.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	32.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4569.00	
Shut In Tool	5.00			4574.00	
Hydraulic tool	5.00			4579.00	
Safety Joint	3.00			4582.00	
Packer	5.00			4587.00	23.00 Bottom Of Top Packer
Packer	4.00			4591.00	
Stubb	1.00			4592.00	
Recorder	0.00	6755	Inside	4592.00	
Perforations	3.00			4595.00	
Recorder	0.00	2607	Inside	4595.00	
Bullnose	5.00			4600.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 32.00**



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**FLUID SUMMARY**

Abercrombie Energy LLC

**Vogel #1-24**

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**24 19S 26W Ness KS**

Job Ticket: 27662

**DST#: 2**

ATTN: Monica Turner

Test Start: 2007.04.13 @ 01:01:39

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.69 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 20%O 80%M	0.421
30.00	OCM 25%O 75%M	0.421
20.00	O&WCM 5%O 30%W 65%M	0.281
15.00	Sightly M&GCO 10%G 85%O 5%M	0.210

Total Length: 95.00 ft

Total Volume: 1.333 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

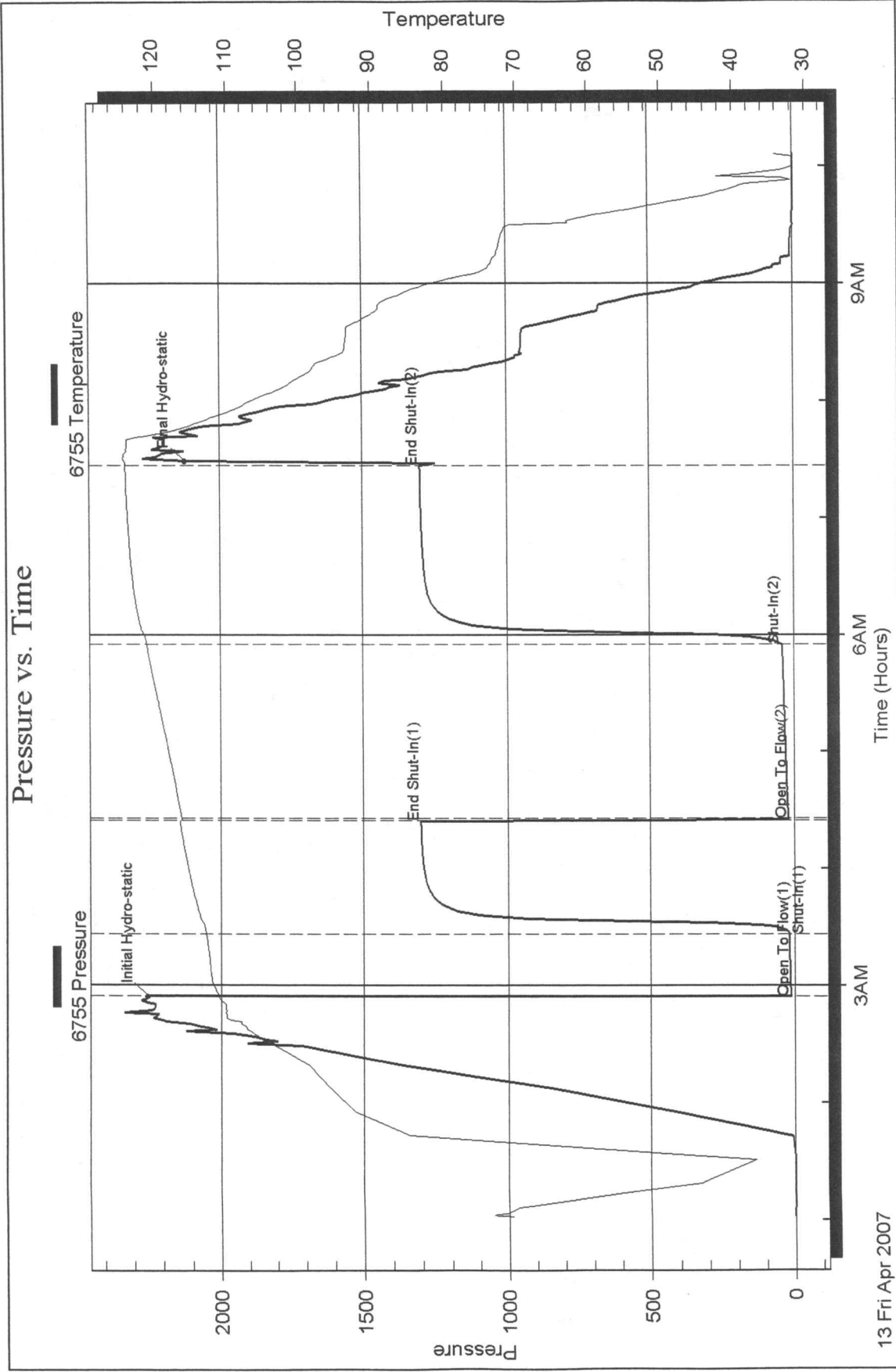
Serial #: 6755

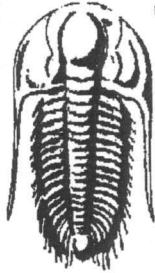
Inside

Abercrombie Energy LLC

24 19S 26W Ness KS

DST Test Number: 2





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## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy LLC**

150 N Main Ste 801  
Wichita KS 67202-1383

ATTN: Monica Turner

**24 19S 26W Ness KS**

**Vogel #1-24**

Start Date: 2007.04.13 @ 20:32:33

End Date: 2007.04.14 @ 06:18:13

Job Ticket #: 27663                      DST #: 3

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# DRILL STEM TEST REPORT

Abercrombie Energy LLC

150 N Main Ste 801  
Wichita KS 67202-1383

ATTN: Monica Turner

**Vogel #1-24**

**24 19S 26W Ness KS**

Job Ticket: 27663

**DST#: 3**

Test Start: 2007.04.13 @ 20:32:33

## GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:54:43

Time Test Ended: 06:18:13

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 23

Interval: **4600.00 ft (KB) To 4610.00 ft (KB) (TVD)**

Total Depth: 4610.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2621.00 ft (KB)

2617.00 ft (CF)

KB to GR/CF: 4.00 ft

**Serial #: 6755**

**Inside**

Press@RunDepth: 126.22 psig @ 4601.00 ft (KB)

Start Date: 2007.04.13

End Date:

2007.04.14

Start Time: 20:32:33

End Time:

06:18:13

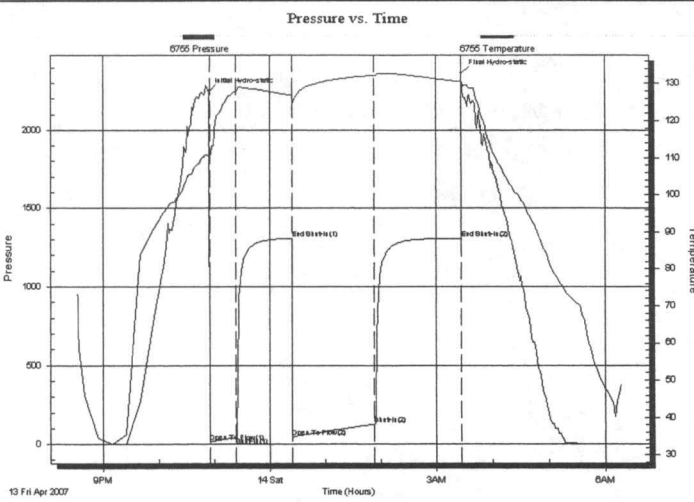
Capacity: 7000.00 psig

Last Calib.: 2007.04.14

Time On Btm: 2007.04.13 @ 22:53:58

Time Off Btm: 2007.04.14 @ 03:27:13

**TEST COMMENT:** IF Surface blow built to 6 inches.  
IS No return  
FF BOB in 71 mins.  
FS No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2245.97	110.27	Initial Hydro-static
1	13.74	110.64	Open To Flow (1)
30	43.45	127.78	Shut-In(1)
90	1304.49	126.82	End Shut-In(1)
90	46.83	125.81	Open To Flow (2)
179	126.22	132.21	Shut-In(2)
273	1304.27	130.47	End Shut-In(2)
274	2361.86	128.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW 95%W 5%M	1.68
60.00	WCM 10%W 90%M	0.84
25.00	O spotted WCM 5%W 95%M	0.35
45.00	SGCO 25%G 75%O	0.63

## Gas Rates

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



**TRILOBITE  
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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy LLC

**Vogel #1-24**

150 N Main Ste 801  
Wichita KS 67202-1383

**24 19S 26W Ness KS**

Job Ticket: 27663

**DST#: 3**

ATTN: Monica Turner

Test Start: 2007.04.13 @ 20:32:33

### Tool Information

Drill Pipe:	Length: 4606.00 ft	Diameter: 3.80 inches	Volume: 64.61 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 64.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4600.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4578.00	
Shut In Tool	5.00			4583.00	
Hydraulic tool	5.00			4588.00	
Safety Joint	3.00			4591.00	
Packer	5.00			4596.00	23.00 Bottom Of Top Packer
Packer	4.00			4600.00	
Stubb	1.00			4601.00	
Recorder	0.00	6755	Inside	4601.00	
Perforations	4.00			4605.00	
Recorder	0.00	2607	Inside	4605.00	
Bullnose	5.00			4610.00	10.00 Bottom Packers & Anchor

**Total Tool Length: 33.00**



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# DRILL STEM TEST REPORT

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**24 19S 26W Ness KS**

Job Ticket: 27663

**DST#: 3**

ATTN: Monica Turner

Test Start: 2007.04.13 @ 20:32:33

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 66.00 sec/qt

Water Loss: 8.75 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

37 deg API

8000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MCW 95%W 5%M	1.683
60.00	WCM 10%W 90%M	0.842
25.00	O spotted WCM 5%W 95%M	0.351
45.00	SGCO 25%G 75%O	0.631

Total Length: 250.00 ft

Total Volume: 3.507 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

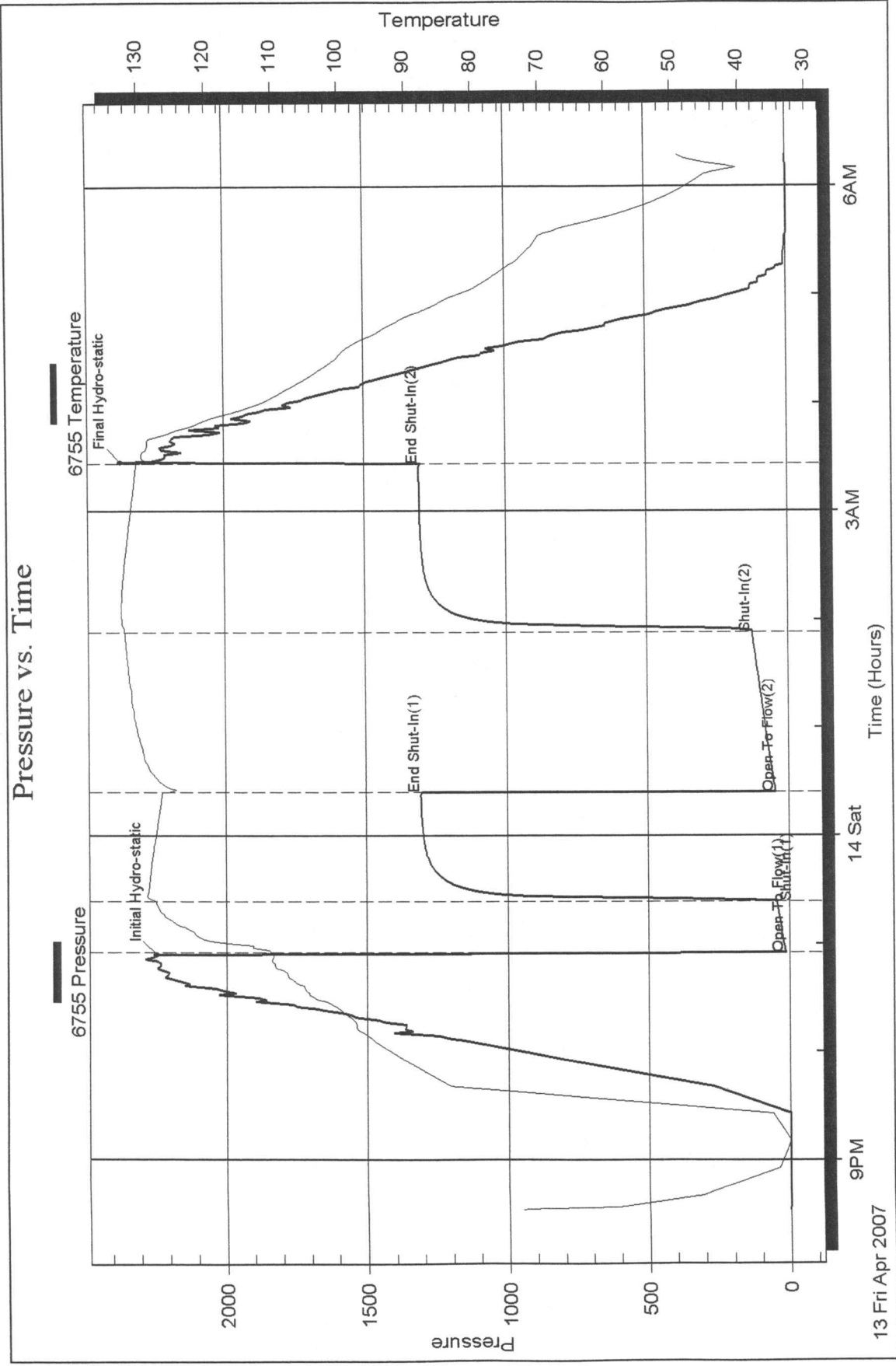
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

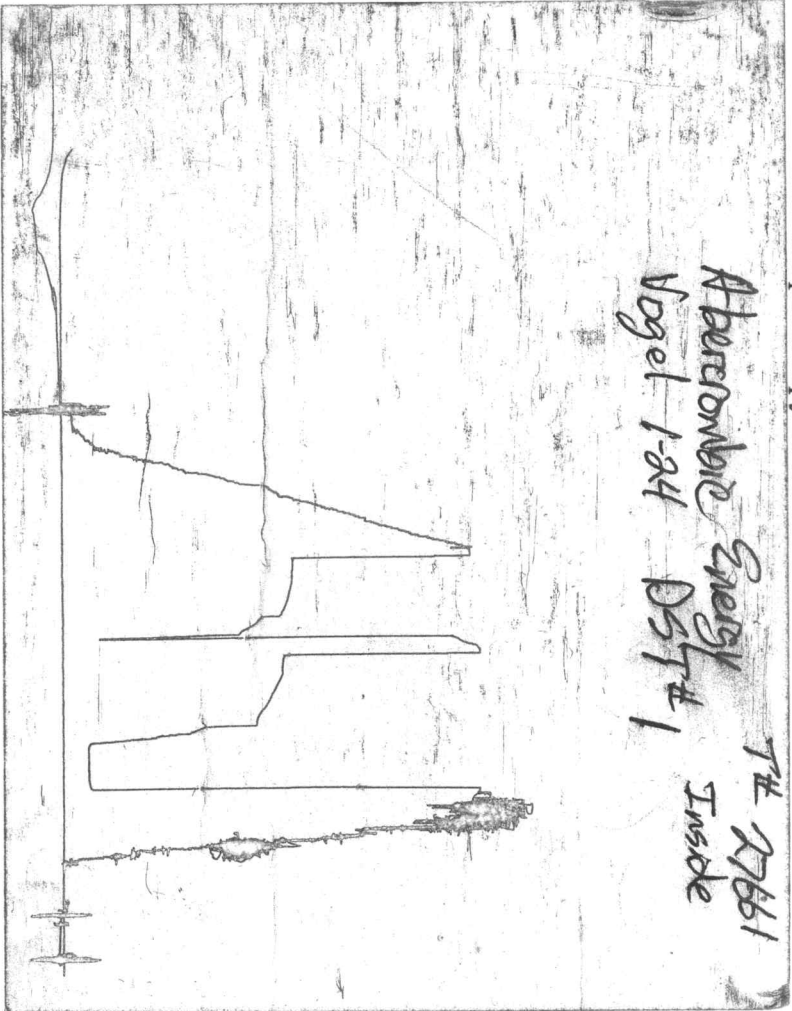
### Pressure vs. Time



**CHART PAGE**

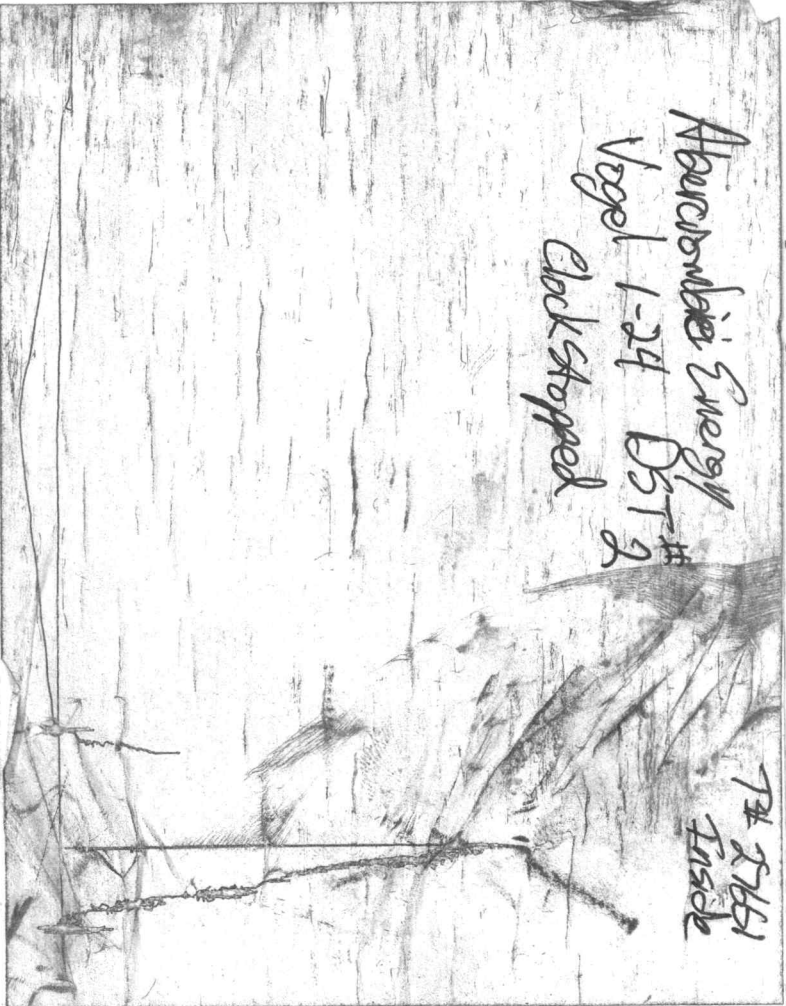
This is a photocopy of the actual AK-1 recorder chart.

Abercrombie Energy <sup>7# 27661</sup>  
Vogel 1-24 D57#1 Inside



**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.

Abercrombie Energy  
Vogel 1-24 DST # 3

T# 27653  
Inside

