

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC**

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Monica Turner

**19-19s-25w Ness, Ks**

**Wyrill Farms #3-19**

Start Date: 2009.05.10 @ 05:29:29

End Date: 2009.05.10 @ 11:29:53

Job Ticket #: 34606                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Abercrombie Energy, LLC

Wyrill Farms #3-19

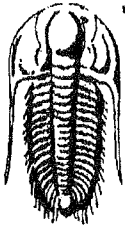
19-19s-25w Ness, Ks

DST # 1

Ft. Scott- Cherokee

2009.05.10

CONFIDENTIAL  
MAY 28 2009  
KCC



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Abercrombie Energy, LLC

**Wyrill Farms #3-19**

150 N. Main Ste 801  
Wichita, KS 67202

**19-19s-25w Ness, Ks**

ATTN: Monica Turner

Job Ticket: 34606

DST#: 1

Test Start: 2009.05.10 @ 05:29:29

## GENERAL INFORMATION:

Formation: **Ft. Scott- Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:42:39

Time Test Ended: 11:29:53

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4439.00 ft (KB) To 4492.00 ft (KB) (TVD)**

Total Depth: 4492.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2583.00 ft (KB)

2578.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6772 Inside**

Press@RunDepth: 37.32 psig @ 4440.00 ft (KB)

Start Date: 2009.05.10

End Date:

2009.05.10

Start Time: 05:29:29

End Time:

11:29:53

Capacity: 7000.00 psig

Last Calib.: 2009.05.10

Time On Btm: 2009.05.10 @ 07:41:39

Time Off Btm: 2009.05.10 @ 09:45:24

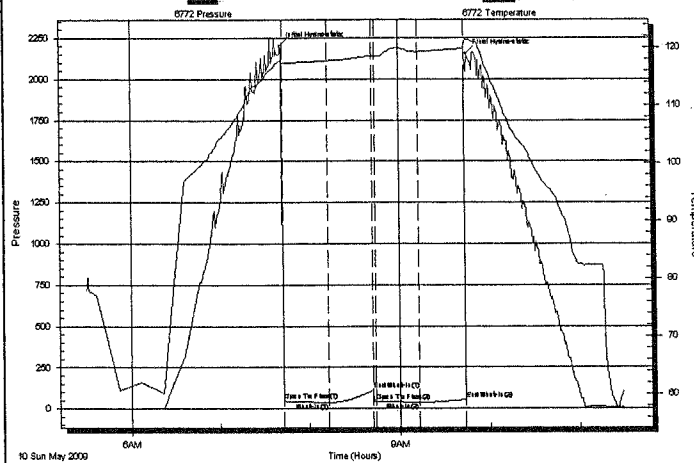
TEST COMMENT: IF: 2" blow died in 17 min.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

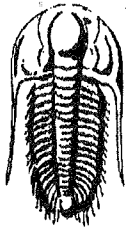
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.07	117.65	Initial Hydro-static
1	47.11	117.30	Open To Flow (1)
32	38.45	117.70	Shut-In(1)
61	114.61	118.52	End Shut-In(1)
63	41.60	118.47	Open To Flow (2)
91	37.32	119.22	Shut-In(2)
122	54.04	119.82	End Shut-In(2)
124	2155.24	121.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
31.00	mud 100%m	0.43

## Gas Rates

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



**TRILOBITE  
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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy, LLC

**Wyrill Farms #3-19**

150 N. Main Ste 801  
Wichita, KS 67202

**19-19s-25w Ness, Ks**

Job Ticket: 34606

**DST#: 1**

ATTN: Monica Turner

Test Start: 2009.05.10 @ 05:29:29

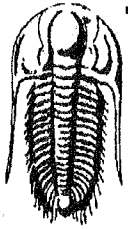
## Tool Information

Drill Pipe:	Length: 4440.00 ft	Diameter: 3.80 inches	Volume: 62.28 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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.28 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4439.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4418.00	
Shut In Tool	5.00			4423.00	
Hydraulic tool	5.00			4428.00	
Safety Joint	2.00			4430.00	
Packer	5.00			4435.00	22.00 Bottom Of Top Packer
Packer	4.00			4439.00	
Stubb	1.00			4440.00	
Recorder	0.00	6772	Inside	4440.00	
Recorder	0.00	8373	Inside	4440.00	
Perforations	14.00			4454.00	
Change Over Sub	1.00			4455.00	
Drill Pipe	31.00			4486.00	
Change Over Sub	1.00			4487.00	
Bullnose	5.00			4492.00	53.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**



**TRILOBITE**  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abercrombie Energy, LLC

**Wyrill Farms #3-19**

150 N. Main Ste 801  
Wichita, KS 67202

**19-19s-25w Ness, Ks**

Job Ticket: 34606

**DST#: 1**

ATTN: Monica Turner

Test Start: 2009.05.10 @ 05:29:29

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 41.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	mud 100%m	0.435

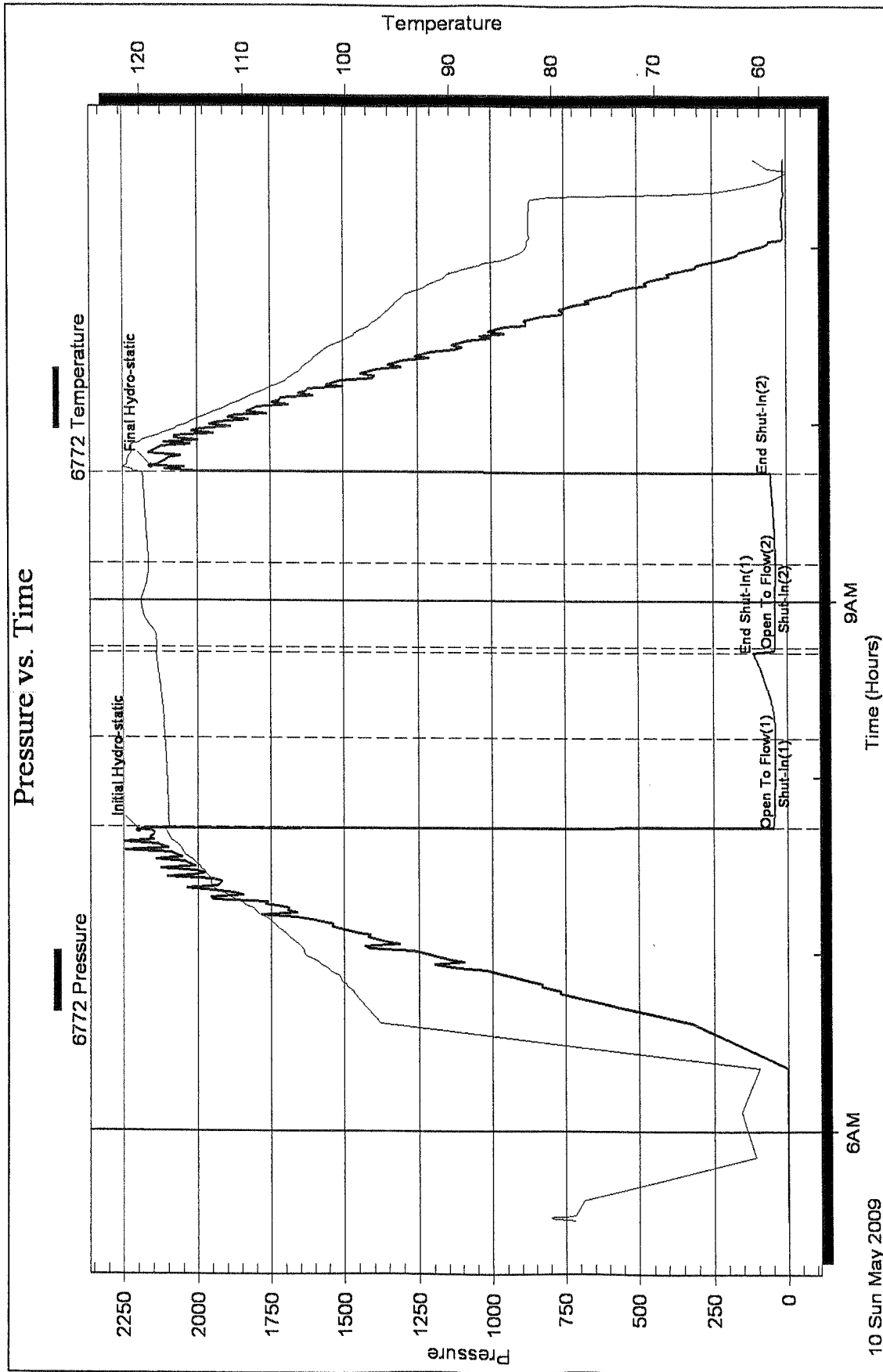
Total Length: 31.00 ft      Total Volume: 0.435 bbl

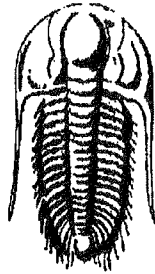
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC**

150 N. Main Ste 801  
Wichita, KS 67202

ATTN: Monica Turner

**19-19s-25w Ness, Ks**

**Wyrill Farms #3-19**

Start Date: 2009.05.11 @ 02:25:46

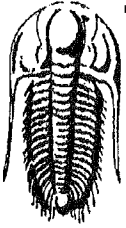
End Date: 2009.05.11 @ 11:45:11

Job Ticket #: 34607                      DST #: 2

Trilobite Testing, Inc

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# DRILL STEM TEST REPORT

Abercrombie Energy, LLC

**Wyrill Farms #3-19**

150 N. Main Ste 801  
Wichita, KS 67202

**19-19s-25w Ness, Ks**

ATTN: Monica Turner

Job Ticket: 34607

**DST#: 2**

Test Start: 2009.05.11 @ 02:25:46

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:34:36

Time Test Ended: 11:45:11

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4526.00 ft (KB) To 4558.00 ft (KB) (TVD)**

Total Depth: 4558.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2583.00 ft (KB)

2578.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6772 Inside**

Press@RunDepth: 91.30 psig @ 4527.00 ft (KB)

Start Date: 2009.05.11

End Date: 2009.05.11

Capacity: 7000.00 psig

Start Time: 02:25:26

End Time: 11:44:51

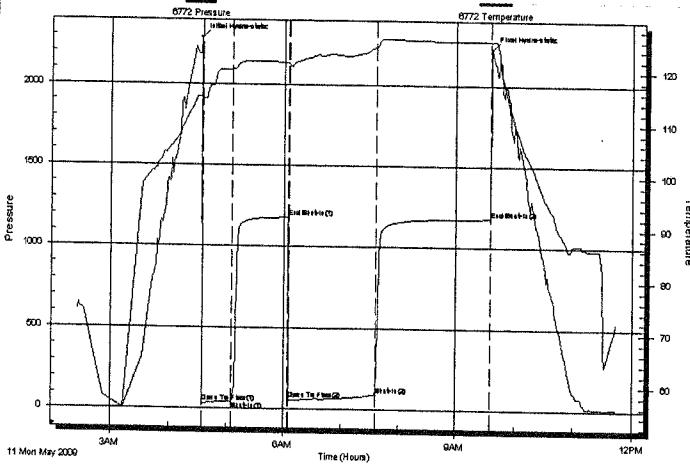
Last Calib.: 2009.05.11

Time On Btm: 2009.05.11 @ 04:33:21

Time Off Btm: 2009.05.11 @ 09:36:20

**TEST COMMENT:** IF: 1/4 blow built to 5 in 30 min.  
IS: No return.  
FF: 1/4 blow BOB in 44 min.  
FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

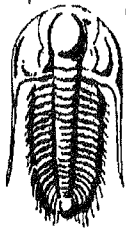
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2282.46	115.17	Initial Hydro-static
2	36.81	114.84	Open To Flow (1)
33	45.98	120.31	Shut-In(1)
91	1181.09	121.74	End Shut-In(1)
91	59.50	121.34	Open To Flow (2)
183	91.30	124.60	Shut-In(2)
302	1177.82	125.95	End Shut-In(2)
303	2219.43	125.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	gocm 10%g 10%o 80%m	0.87
62.00	go 30%g 70%o	0.87
67.00	go 20%g 80%o	0.94
0.00	248 GIP	0.00

## Gas Rates

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



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**TOOL DIAGRAM**

Abercrombie Energy, LLC

**Wyrill Farms #3-19**

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**19-19s-25w Ness, Ks**

ATTN: Monica Turner

Job Ticket: 34607

DST#: 2

Test Start: 2009.05.11 @ 02:25:46

### Tool Information

Drill Pipe:	Length: 4533.00 ft	Diameter: 3.80 inches	Volume: 63.59 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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4526.00 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		

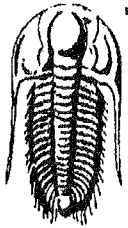
Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4505.00	
Shut In Tool	5.00			4510.00	
Hydraulic tool	5.00			4515.00	
Safety Joint	2.00			4517.00	
Packer	5.00			4522.00	22.00 Bottom Of Top Packer
Packer	4.00			4526.00	
Stubb	1.00			4527.00	
Recorder	0.00	6772	Inside	4527.00	
Recorder	0.00	8373	Inside	4527.00	
Perforations	26.00			4553.00	
Bullnose	5.00			4558.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**





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Job Ticket: 34607

**DST#: 2**

ATTN: Monica Turner

Test Start: 2009.05.11 @ 02:25:46

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

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

Resistivity: 0.00 ohm.m

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

37 deg API

Water Salinity:

0 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	gocm 10%g 10%o 80%m	0.870
62.00	go 30%g 70%o	0.870
67.00	go 20%g 80%o	0.940
0.00	248 GIP	0.000

Total Length: 191.00 ft

Total Volume: 2.680 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 38@70=37

# Pressure vs. Time

