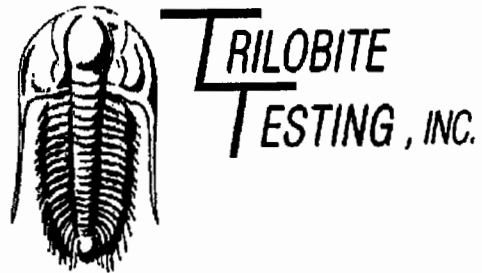


15-135-25202

14-19s-26w  
**CONFIDENTIAL**



## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC**

10209 W. Central  
Suite 2  
Wichita, KS 67212

ATTN: Roger Martin

**S14-19s-26w Ness, KS**

**Whipple 2-14**

Start Date: 2011.01.17 @ 19:19:00

End Date: 2011.01.18 @ 02:44:20

Job Ticket #: 040633      DST #: 1

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

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**MAR 07 2011**  
**KCC WICHITA**

Abercrombie Energy, LLC

Whipple 2-14

S14-19s-26w Ness, KS

DST # 1

Mississippian

2011.01.17



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Abercrombie Energy, LLC

**Whipple 2-14**

10209 W. Central  
Suite 2  
Wichita, KS 67212  
ATTN: Roger Martin

**S14-19s-26w Ness, KS**

Job Ticket: 040633      DST#: 1

Test Start: 2011.01.17 @ 19:19:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 20:57:20  
Time Test Ended: 02:44:20

Test Type: Conventional Bottom Hole  
Tester: Chuck Smith  
Unit No: 37

Interval: **4573.00 ft (KB) To 4601.00 ft (KB) (TVD)**  
Total Depth: **4601.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Good

Reference Elevations: **2635.00 ft (KB)**  
**2630.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

## Serial #: 8018

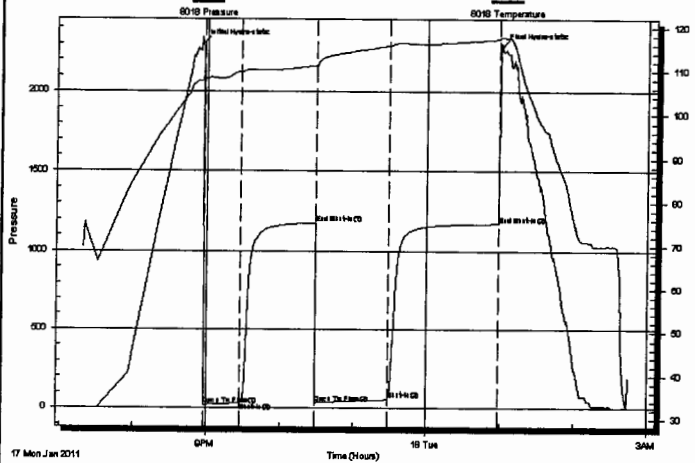
Inside

Press@RunDepth: **53.54 psig @ 4578.00 ft (KB)**  
Start Date: **2011.01.17**      End Date: **2011.01.18**  
Start Time: **19:19:05**      End Time: **02:44:20**

Capacity: **8000.00 psig**  
Last Calib.: **2011.01.18**  
Time On Btm: **2011.01.17 @ 20:55:40**  
Time Off Btm: **2011.01.18 @ 01:00:20**

TEST COMMENT: IF: 1 3/4" Building blow .  
IS: No return.  
FF: 2 1/2" Building blow .  
FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

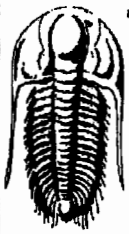
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.30	108.06	Initial Hydro-static
2	20.01	108.13	Open To Flow (1)
32	30.72	109.82	Shut-In(1)
93	1176.00	111.27	End Shut-In(1)
93	33.24	110.48	Open To Flow (2)
153	53.54	115.72	Shut-In(2)
243	1172.11	117.31	End Shut-In(2)
245	2279.28	117.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	O 100 o	0.00
82.00	OCM 20o 80m	0.40

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Abercrombie Energy, LLC

Whipple 2-14

10209 W. Central

S14-19s-26w Ness, KS

Suite 2

Job Ticket: 040633

DST#: 1

Wichita, KS 67212

ATTN: Roger Martin

Test Start: 2011.01.17 @ 19:19:00

### Tool Information

Drill Pipe:	Length: 4432.00 ft	Diameter: 3.80 inches	Volume: 62.17 bbl	Tool Weight: 2500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.50 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4573.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.50 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			4546.50	
Shut In Tool	5.00			4551.50	
Hydraulic tool	5.00			4556.50	
Jars	5.00			4561.50	
Safety Joint	2.50			4564.00	
Packer	5.00			4569.00	27.50 Bottom Of Top Packer
Packer	4.00			4573.00	
Stubb	1.00			4574.00	
Perforations	4.00			4578.00	
Recorder	0.00	8018	Inside	4578.00	
Recorder	0.00	6751	Outside	4578.00	
Perforations	20.00			4598.00	
Bullnose	3.00			4601.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 55.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abercrombie Energy, LLC

**Whipple 2-14**

10209 W. Central  
Suite 2  
Wichita, KS 67212  
ATTN: Roger Martin

**S14-19s-26w Ness, KS**

Job Ticket: 040633      DST#: 1  
Test Start: 2011.01.17 @ 19:19:00

## 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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

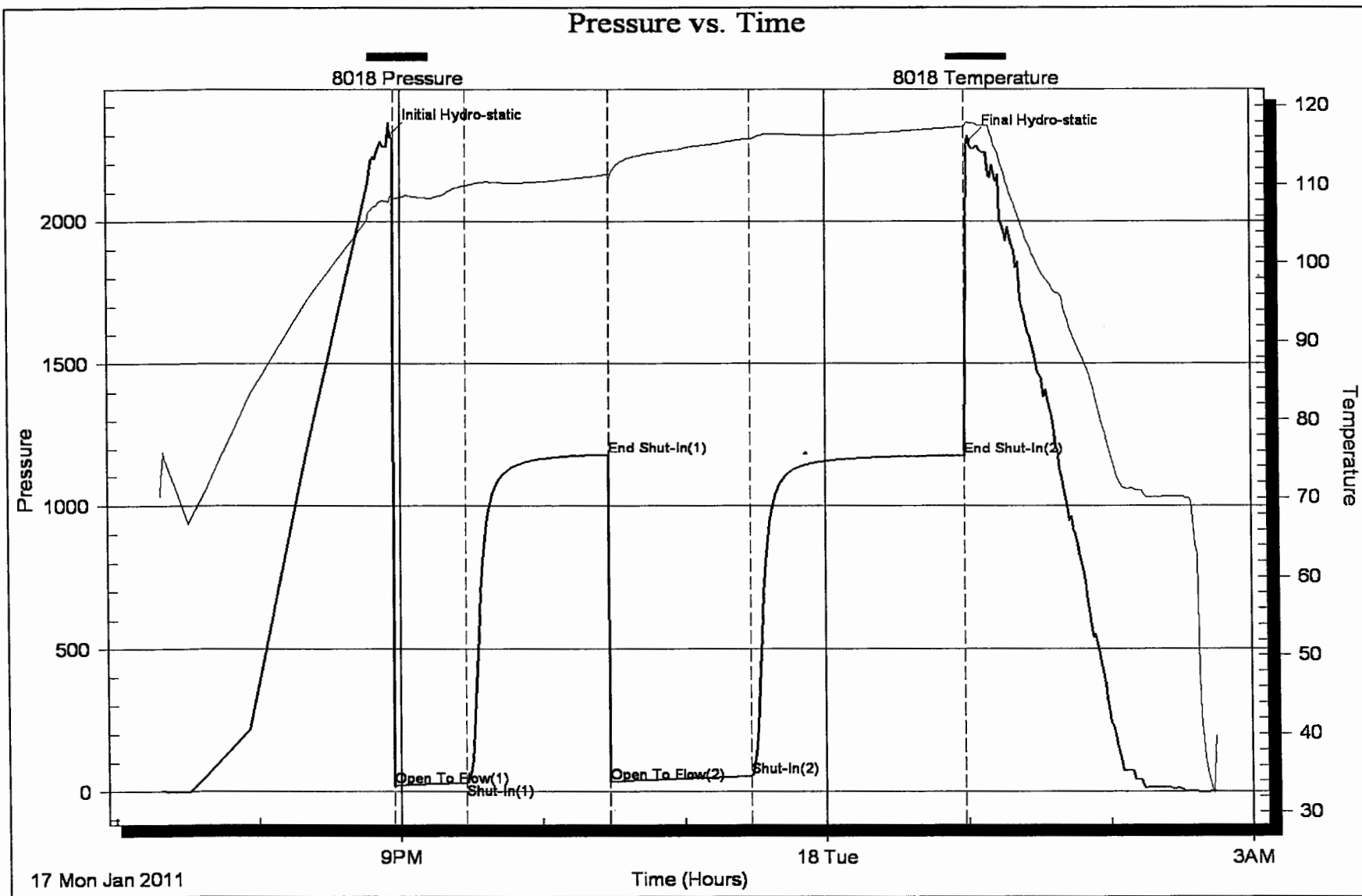
Length ft	Description	Volume bbl
1.00	O 100 o	0.005
82.00	OCM 20o 80m	0.403

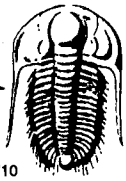
Total Length: 83.00 ft      Total Volume: 0.408 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
JAN 21 2011

## Test Ticket

NO. 04063J15321

4/10

BY: \_\_\_\_\_

Well Name & No. Whipple #2-14 Test No. 1 Date 1-17-11  
 Company Abercrombie Energy, LLC Elevation 2635 KB 2630 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Roger Martin Rig WW #10  
 Location: Sec. 14 Twp. 19d Rge. 26w Co. Ness State KS

Interval Tested 4573 - 4601 Zone Tested Mississippian  
 Anchor Length 28 Drill Pipe Run 4601 Mud Wt. 9.4  
 Top Packer Depth 4569 Drill Collars Run 124 Vis 50  
 Bottom Packer Depth 4573 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4601 Chlorides 3100 ppm System LCM 0

Blow Description IF: 1 3/4" Building blow  
ISI: No return  
FF: 2 1/2" Building blow  
FSI: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>82</u>	<u>OCM</u>	<u>20</u>	<u>0</u>	<u>80</u>	<u>0</u>
<u>+</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 82 BHT 118 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2298</u>	<input type="checkbox"/> Test <u>1,225-</u>	T-On Location <u>18:30</u>
(B) First Initial Flow <u>20</u>	<input type="checkbox"/> Jars <u>250-</u>	T-Started <u>19:19</u>
(C) First Final Flow <u>31</u>	<input type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:57</u>
(D) Initial Shut-In <u>1,176</u>	<input checked="" type="checkbox"/> Circ Sub <u>NR</u>	T-Pulled <u>00:59</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>02:44</u>
(F) Second Final Flow <u>54</u>	<input type="checkbox"/> Mileage <u>94 RT 11750</u>	Comments _____
(G) Final Shut-In <u>1,172</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2,279</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

Sub Total 11667.50

Approved By Roger Martin Our Representative Chuck Amick

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.



## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC**

10209 W. Central  
Suite 2  
Wichita, KS 67212

ATTN: Roger Martin

**S14-19s-26w Ness, KS**

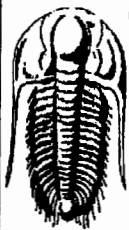
**Whipple 2-14**

Start Date: 2011.01.18 @ 08:59:00

End Date: 2011.01.18 @ 16:52:09

Job Ticket #: 040634      DST #: 2

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Abercrombie Energy, LLC

Whipple 2-14

10209 W. Central  
Suite 2  
Wichita, KS 67212  
ATTN: Roger Martin

S14-19s-26w Ness, KS

Job Ticket: 040634      DST#: 2  
Test Start: 2011.01.18 @ 08:59:00

### GENERAL INFORMATION:

Formation: **Mississippian Dolomi**

Deviated: No      Whipstock:      ft (KB)

Time Tool Opened: 10:53:40

Time Test Ended: 16:52:09

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4574.00 ft (KB) To 4604.00 ft (KB) (TVD)**

Total Depth: **4604.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Good

Reference Elevations: **2635.00 ft (KB)**

**2630.00 ft (CF)**

KB to GR/CF: **5.00 ft**

Serial #: **8018**

Inside

Press@RunDepth: **100.13 psig @ 4579.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.01.18**

End Date: **2011.01.18**

Last Calib.: **2011.01.18**

Start Time: **08:59:05**

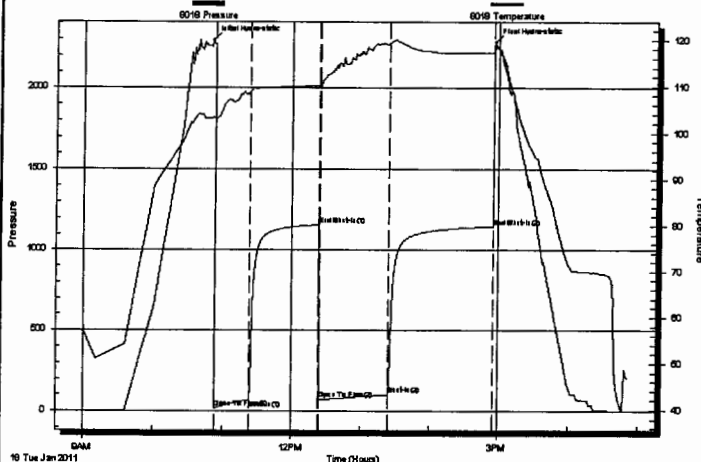
End Time: **16:52:10**

Time On Btm: **2011.01.18 @ 10:51:10**

Time Off Btm: **2011.01.18 @ 14:56:30**

TEST COMMENT: IF: 7 1/2" Building blow.  
IS: Surface return.  
FF: B.O.B. @ 37 min.  
FSI: 3" Return.

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2292.64	103.25	Initial Hydro-static
3	18.35	102.64	Open To Flow (1)
32	67.93	109.00	Shut-In(1)
93	1156.49	110.18	End Shut-In(1)
93	71.60	109.54	Open To Flow (2)
154	100.13	119.35	Shut-In(2)
244	1146.50	117.33	End Shut-In(2)
246	2281.32	118.39	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 5g 5o 90m	0.61
41.00	GMCO 15g 35m 50o	0.58
60.00	GO 25g 75o	0.84
0.00	210 Feet 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

**Whipple 2-14**

10209 W. Central

**S14-19s-26w Ness, KS**

Suite 2

Job Ticket: 040634

DST#: 2

Wichita, KS 67212

ATTN: Roger Martin

Test Start: 2011.01.18 @ 08:59:00

### Tool Information

Drill Pipe:	Length: 4462.00 ft	Diameter: 3.80 inches	Volume: 62.59 bbl	Tool Weight: 2500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 63.20 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4574.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 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			4555.00	
Shut In Tool	5.00			4560.00	
Hydraulic tool	5.00			4565.00	
Packer	5.00			4570.00	20.00 Bottom Of Top Packer
Packer	4.00			4574.00	
Stubb	1.00			4575.00	
Perforations	4.00			4579.00	
Recorder	0.00	8018	Inside	4579.00	
Recorder	0.00	6751	Outside	4579.00	
Perforations	22.00			4601.00	
Bullnose	3.00			4604.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abercrombie Energy, LLC

**Whipple 2-14**

10209 W. Central  
Suite 2  
Wichita, KS 67212  
ATTN: Roger Martin

**S14-19s-26w Ness, KS**

Job Ticket: 040634      DST#: 2  
Test Start: 2011.01.18 @ 08:59:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.79 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4500.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

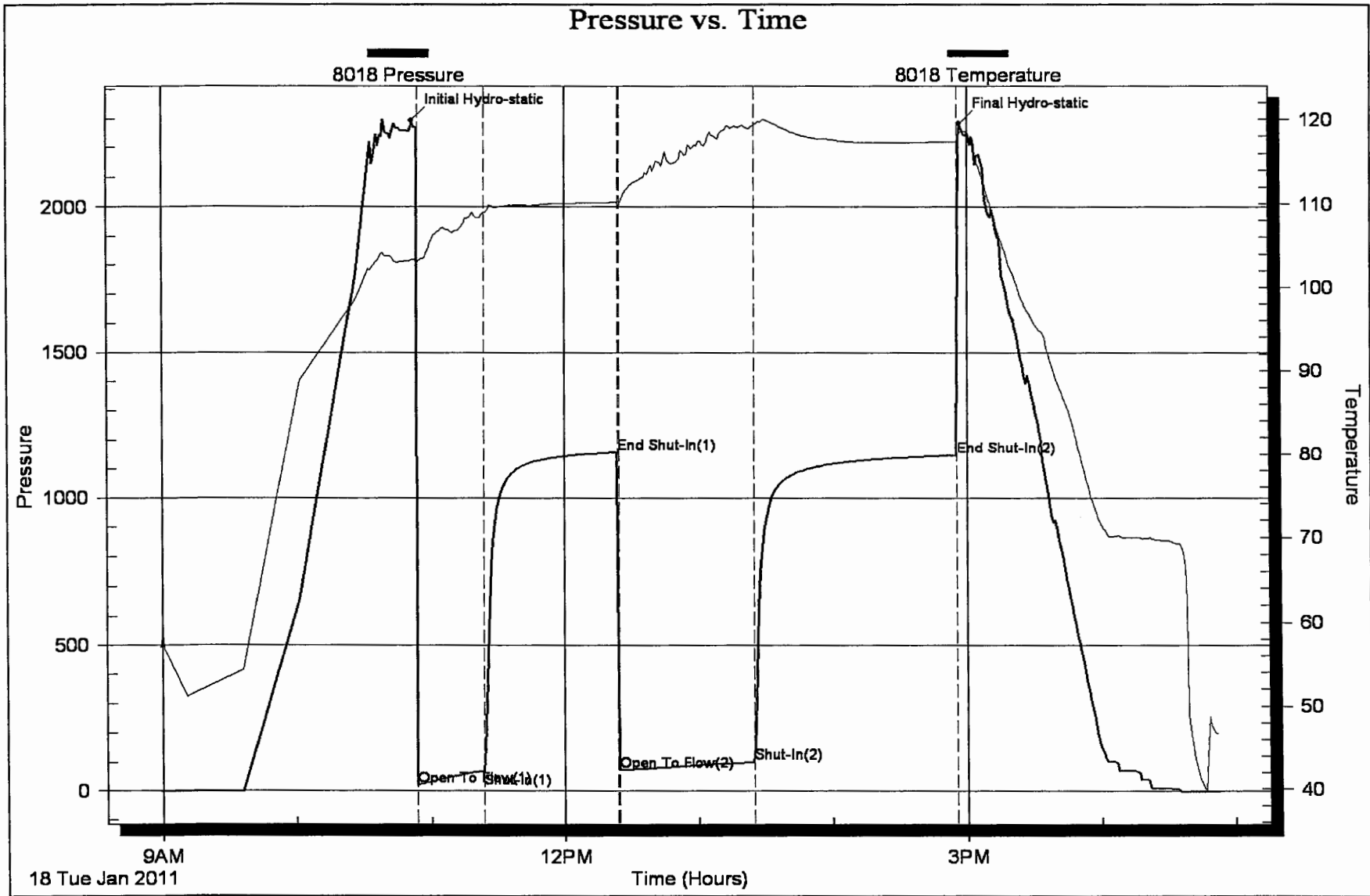
Length ft	Description	Volume bbl
124.00	GOCM 5g 5o 90m	0.610
41.00	GMCO 15g 35m 50o	0.575
60.00	GO 25g 75o	0.842
0.00	210 Feet GIP	0.000

Total Length: 225.00 ft      Total Volume: 2.027 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: API: 37 @ 50 Degrees F = 38.





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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JAN 21 2011

## Test Ticket

NO. 040634

Well Name & No. Whipple #2-14 BY: \_\_\_\_\_ Test No. 2 Date 1-18-11  
 Company Abercrombie Energy, LLC Elevation 2635 KB 2630 GL \_\_\_\_\_  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Roger Martin Rig WW #10  
 Location: Sec. 14 Twp. 19<sup>3</sup> Rge. 26w Co. Ness State KS

Interval Tested 4574-4604 Zone Tested Mississippian Dolomite  
 Anchor Length 30 Drill Pipe Run 4462 Mud Wt. 9.45  
 Top Packer Depth 4570 Drill Collars Run 124 Vis 51  
 Bottom Packer Depth 4574 Wt. Pipe Run 0 WL 6.8  
 Total Depth 4604 Chlorides 4500 ppm System LCM 0  
 Blow Description IF: 7 1/2" Building blow.  
ISI: Surface return.  
FF: B.O.B. @ 37 min.  
FST: 3" Return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>60</u>	Feet of <u>GO</u>	<u>25</u> %gas	<u>75</u> %oil	%water	%mud
Rec <u>41</u>	Feet of <u>GMCO</u>	<u>15</u> %gas	<u>50</u> %oil	%water	<u>35</u> %mud
Rec <u>124</u>	Feet of <u>GOCM</u>	<u>5</u> %gas	<u>5</u> %oil	%water	<u>90</u> %mud

Rec Total 225 BHT 117 Gravity 38 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2293  Test 1,225- T-On Location 8:45  
 (B) First Initial Flow 18  Jars \_\_\_\_\_ T-Started 8:59  
 (C) First Final Flow 68  Safety Joint \_\_\_\_\_ T-Open 10:54  
 (D) Initial Shut-In 1156  Circ Sub N/C T-Pulled 14:55  
 (E) Second Initial Flow 72  Hourly Standby \_\_\_\_\_ T-Out 16:52  
 (F) Second Final Flow 100  Mileage 94 RT 117.50 Comments 210 Feet GIP  
 (G) Final Shut-In 1147  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2281  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1342.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1342.50

Approved By Roger Martin Our Representative Chuck Smith

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.