



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1137126
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1137126

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Abercrombie Energy, LLC
Well Name	K-2 FARMS 1-17
Doc ID	1137126

Tops

Name	Top	Datum
Anhy	2271	+846
B/Anhy	2287	+831
Heebner Sh	3969	-851
Lansing	4013	-895
Muncie Creek	4217	-1099
Stark Sh	4327	-1209
BKC	4468	-1350
Marmaton	4494	-1376
Cherokee Sh	4640	-1522
Morrow Sh	4830	-1712
Mississippian	4917	-1799



DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC**

10209 W. Central STE 2
Wichita, KS 67212

ATTN: Keith Reavis

K-2 Farms #1-17

17-20s-34w Scott,KS

Start Date: 2013.04.18 @ 10:03:00

End Date: 2013.04.18 @ 18:05:00

Job Ticket #: 49168 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.29 @ 09:59:36

Abercrombie Energy, LLC
17-20s-34w Scott,KS
K-2 Farms #1-17
DST # 1
LKC "K"
2013.04.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49168

DST#: 1

ATTN: Keith Reavis

Test Start: 2013.04.18 @ 10:03:00

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:04:15

Time Test Ended: 18:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4322.00 ft (KB) To 4362.00 ft (KB) (TVD)

Reference Elevations: 3118.00 ft (KB)

Total Depth: 4322.00 ft (KB) (TVD)

3109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 781.19 psig @ 4323.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.18

End Date:

2013.04.18

Last Calib.:

2013.04.18

Start Time: 10:03:05

End Time:

18:04:59

Time On Btm:

2013.04.18 @ 13:03:45

Time Off Btm:

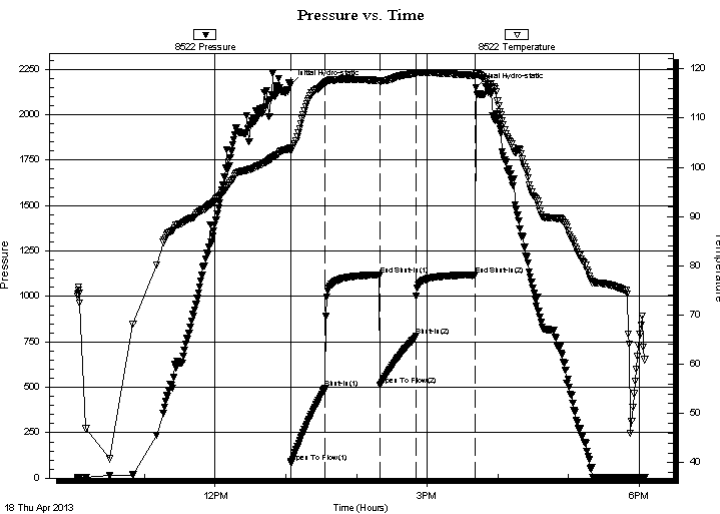
2013.04.18 @ 15:41:45

TEST COMMENT: IF: BOB @ 1 3/4 min.

IS: No return.

FF: BOB @ 3 min.

FS: No return.



PRESSURE SUMMARY

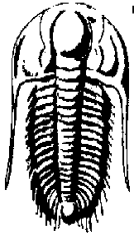
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.12	103.89	Initial Hydro-static
1	84.71	103.38	Open To Flow (1)
30	495.46	117.10	Shut-In(1)
76	1118.06	117.57	End Shut-In(1)
76	509.36	117.32	Open To Flow (2)
107	781.19	119.03	Shut-In(2)
158	1119.31	118.60	End Shut-In(2)
158	2148.34	118.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1620.00	mcw 5m 95w (Oil specs on top)	15.96

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49168 **DST#: 1**

ATTN: Keith Reavis

Test Start: 2013.04.18 @ 10:03:00

GENERAL INFORMATION:

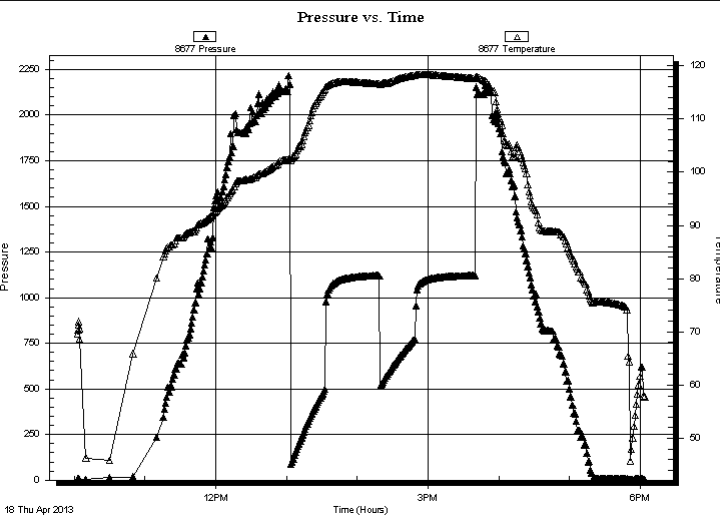
Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:04:15
 Tester: Bradley Walter
 Time Test Ended: 18:05:00
 Unit No: 53
Interval: 4322.00 ft (KB) To 4362.00 ft (KB) (TVD)
 Reference Elevations: 3118.00 ft (KB)
 Total Depth: 4322.00 ft (KB) (TVD)
 3109.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 9.00 ft

Serial #: 8677

Inside

Press @ Run Depth:	psig @	4323.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2013.04.18	End Date:	2013.04.18	Last Calib.:
Start Time:	10:03:05	End Time:	18:03:44	Time On Btm:
				Time Off Btm:

TEST COMMENT: IF: BOB @ 1 3/4 min.
 IS: No return.
 FF: BOB @ 3 min.
 FS: No rereturn.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1620.00	mcw 5m 95w (Oil specs on top)	15.96

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Abercrombie Energy, LLC

17-20s-34w Scott,KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49168

DST#: 1

ATTN: Keith Reavis

Test Start: 2013.04.18 @ 10:03:00

Tool Information

Drill Pipe:	Length: 4288.00 ft	Diameter: 3.20 inches	Volume: 42.65 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 42.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4322.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	67.00 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			4296.00	
Shut In Tool	5.00			4301.00	
Hydraulic tool	5.00			4306.00	
Jars	5.00			4311.00	
Safety Joint	2.00			4313.00	
Packer	5.00			4318.00	27.00 Bottom Of Top Packer
Packer	4.00			4322.00	
Stubb	1.00			4323.00	
Recorder	0.00	8677	Inside	4323.00	
Recorder	0.00	8522	Outside	4323.00	
Perforations	3.00			4326.00	
Change Over Sub	1.00			4327.00	
Drill Pipe	31.00			4358.00	
Change Over Sub	1.00			4359.00	
Bullnose	3.00			4362.00	40.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49168

DST#: 1

ATTN: Keith Reavis

Test Start: 2013.04.18 @ 10:03:00

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:

49000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1620.00	mcw 5m 95w (Oil specs on top)	15.964

Total Length: 1620.00 ft Total Volume: 15.964 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .180 @ 59F = 49,000ppm

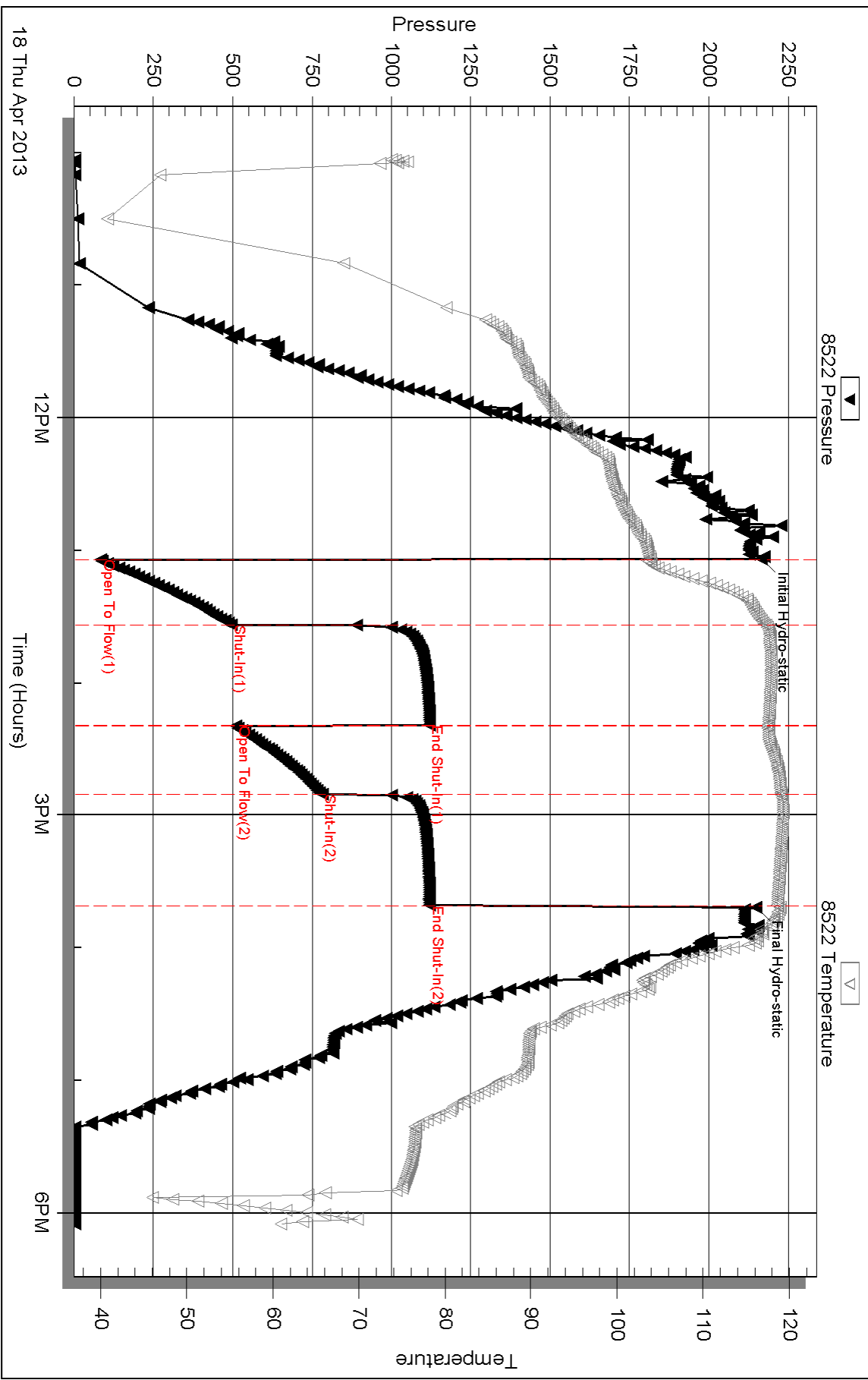
Serial #: 8522

Outside Abercrombie Energy, LLC

K-2 Farms #1-17

DST Test Number: 1

Pressure vs. Time



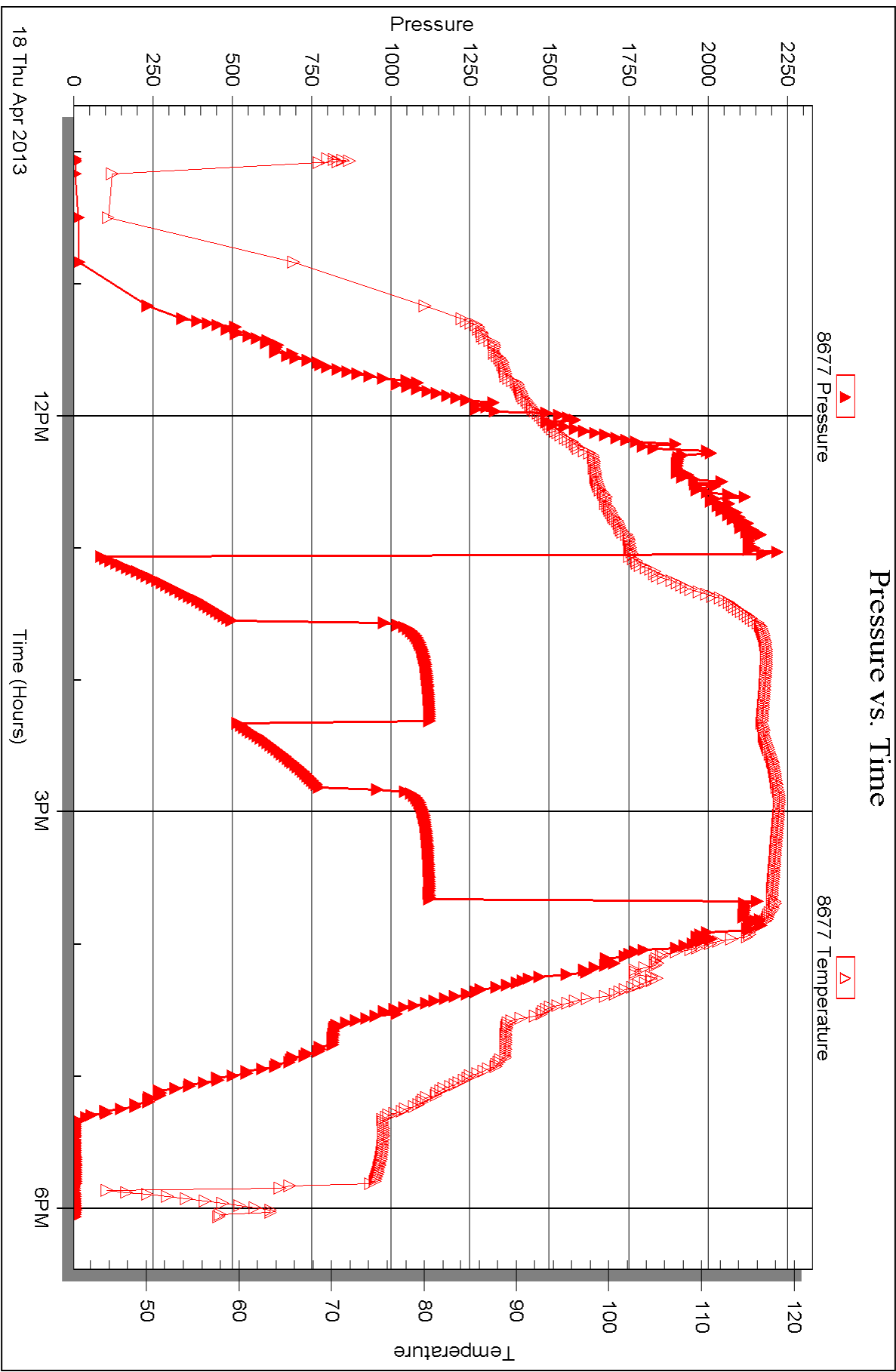
Serial #: 8677

Inside

Abercrombie Energy, LLC

K-2 Farms #1-17

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC**

10209 W. Central STE 2
Wichita, KS 67212

ATTN: Keith Reavis

K-2 Farms #1-17

17-20s-34w Scott,KS

Start Date: 2013.04.19 @ 15:55:00

End Date: 2013.04.19 @ 23:57:30

Job Ticket #: 49169 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.29 @ 09:58:46



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

ATTN: Keith Reavis

Job Ticket: 49169

DST#: 2

Test Start: 2013.04.19 @ 15:55:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:13:15

Time Test Ended: 23:57:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4515.00 ft (KB) To 4541.00 ft (KB) (TVD)

Reference Elevations: 3118.00 ft (KB)

Total Depth: 4541.00 ft (KB) (TVD)

3109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 109.25 psig @ 4516.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.19

End Date:

2013.04.19

Last Calib.:

2013.04.19

Start Time: 15:55:05

End Time:

23:57:29

Time On Btm:

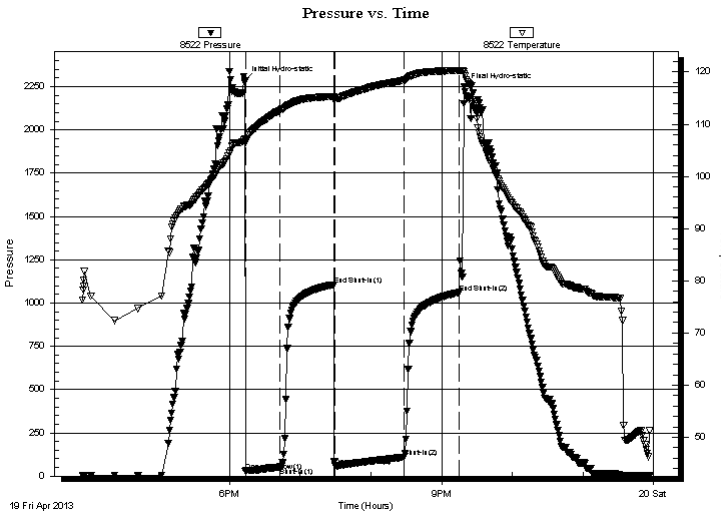
2013.04.19 @ 18:13:00

Time Off Btm:

2013.04.19 @ 21:19:15

TEST COMMENT: IF: BOB @ 8 min.
IS: 5" return.
FF: BOB @ 5 min.
FS: 3" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2286.01	107.14	Initial Hydro-static
1	26.68	106.47	Open To Flow (1)
30	53.38	112.63	Shut-In(1)
76	1105.99	115.30	End Shut-In(1)
77	58.52	115.01	Open To Flow (2)
135	109.25	118.43	Shut-In(2)
182	1060.41	120.24	End Shut-In(2)
187	2246.95	119.57	Final Hydro-static

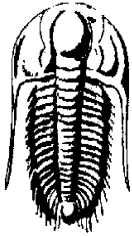
Recovery

Length (ft)	Description	Volume (bbl)
120.00	gmco 35g 15m 50o	1.04
115.00	gsmco 35g 5m 60o	1.14
0.00	1150 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17-20s-34w **Scott, KS**

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

ATTN: Keith Reavis

Job Ticket: 49169

DST#: 2

Test Start: 2013.04.19 @ 15:55:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:13:15

Time Test Ended: 23:57:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4515.00 ft (KB) To 4541.00 ft (KB) (TVD)

Reference Elevations: 3118.00 ft (KB)

Total Depth: 4541.00 ft (KB) (TVD)

3109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8677 **Inside**

Press @ RunDepth: psig @ 4516.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.19

End Date:

2013.04.19

Last Calib.:

2013.04.20

Start Time:

15:55:05

End Time:

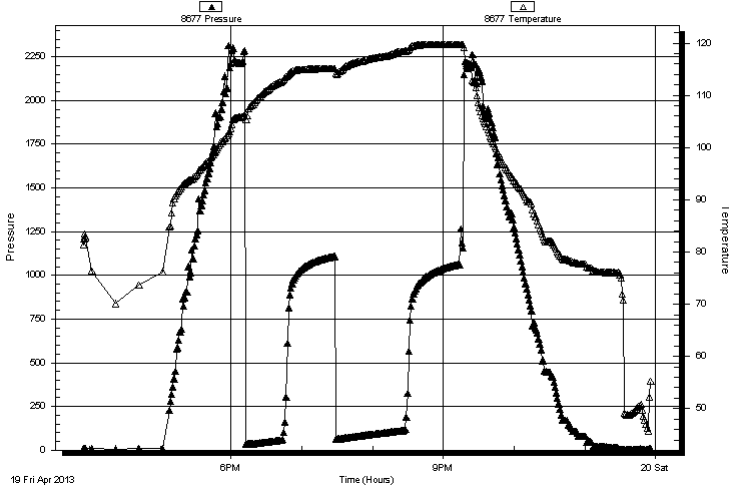
23:55:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 8 min.
IS: 5" return.
FF: BOB @ 5 min.
FS: 3" return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gmco 35g 15m 50o	1.04
115.00	gsmco 35g 5m 60o	1.14
0.00	1150 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49169

DST#: 2

ATTN: Keith Reavis

Test Start: 2013.04.19 @ 15:55:00

Tool Information

Drill Pipe:	Length: 4475.00 ft	Diameter: 3.20 inches	Volume: 44.51 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 44.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4515.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 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			4489.00	
Shut In Tool	5.00			4494.00	
Hydraulic tool	5.00			4499.00	
Jars	5.00			4504.00	
Safety Joint	2.00			4506.00	
Packer	5.00			4511.00	27.00 Bottom Of Top Packer
Packer	4.00			4515.00	
Stubb	1.00			4516.00	
Recorder	0.00	8677	Inside	4516.00	
Recorder	0.00	8522	Outside	4516.00	
Perforations	22.00			4538.00	
Bullnose	3.00			4541.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Abercrombie Energy, LLC

17-20s-34w Scott,KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49169

DST#: 2

ATTN: Keith Reavis

Test Start: 2013.04.19 @ 15:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	gmco 35g 15m 50o	1.043
115.00	gsmco 35g 5m 60o	1.144
0.00	1150 GIP	0.000

Total Length: 235.00 ft

Total Volume: 2.187 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

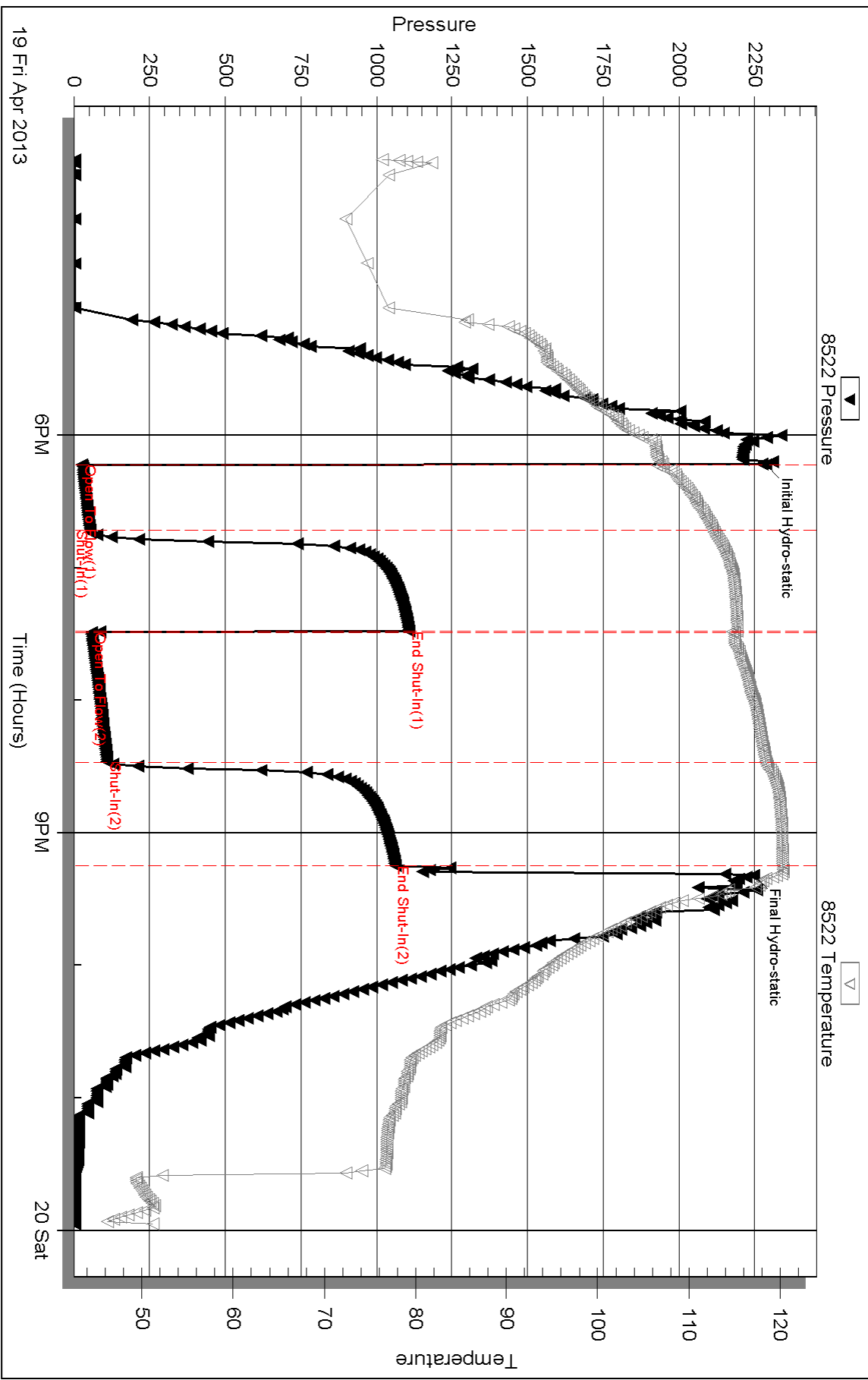
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



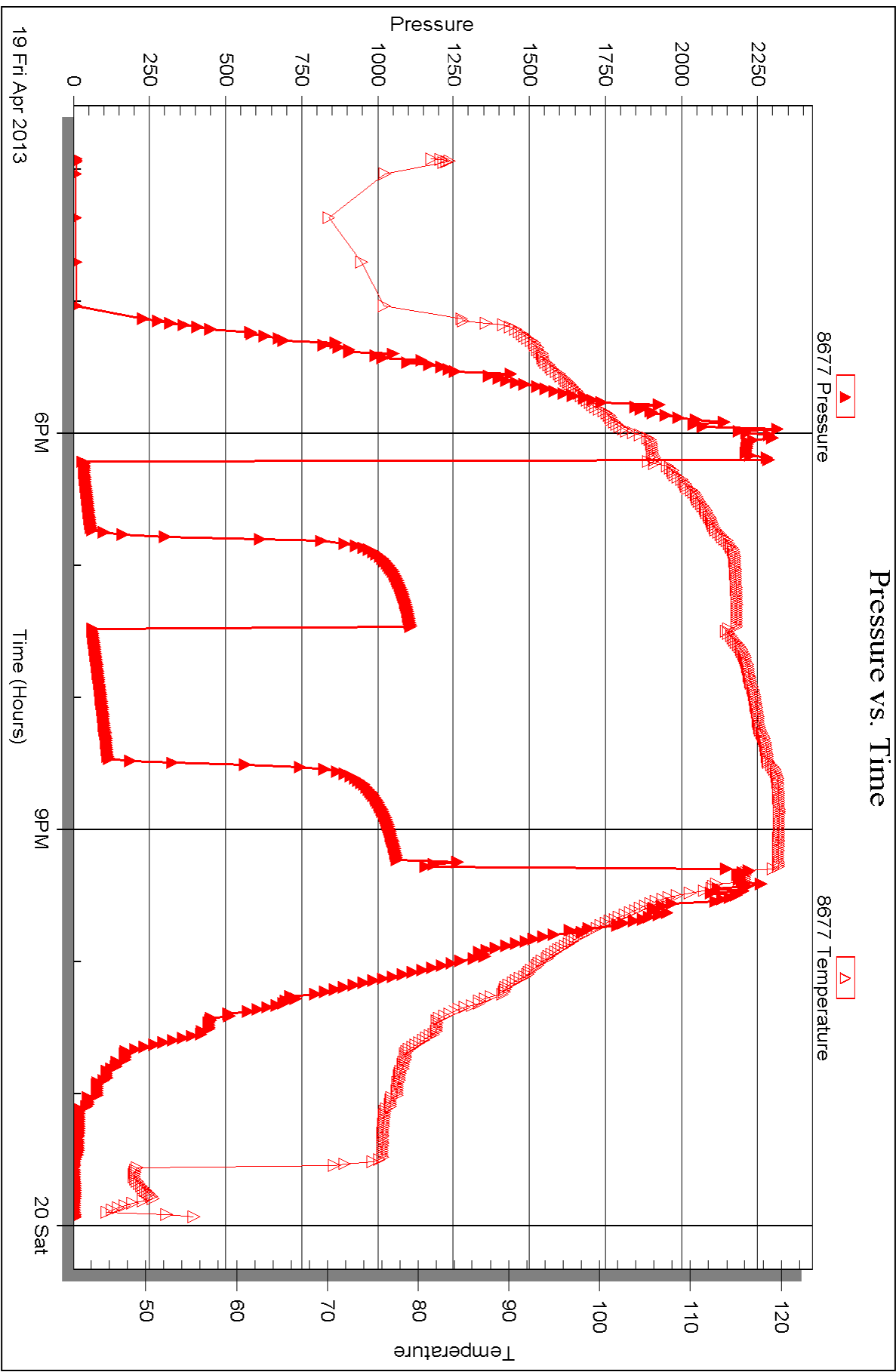
Serial #: 8677

Inside

Abercrombie Energy, LLC

K-2 Farms #1-17

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC**

10209 W. Central STE 2
Wichita, KS 67212

ATTN: Keith Reavis

K-2 Farms #1-17

17-20s-34w Scott,KS

Start Date: 2013.04.20 @ 08:23:00

End Date: 2013.04.20 @ 16:00:00

Job Ticket #: 49170 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.29 @ 09:57:58



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49170

DST#: 3

ATTN: Keith Reavis

Test Start: 2013.04.20 @ 08:23:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:50:45

Time Test Ended: 16:00:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4552.00 ft (KB) To 4574.00 ft (KB) (TVD)

Reference Elevations: 3118.00 ft (KB)

Total Depth: 4574.00 ft (KB) (TVD)

3109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 44.29 psig @ 4543.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.20

End Date: 2013.04.20

Last Calib.: 2013.04.20

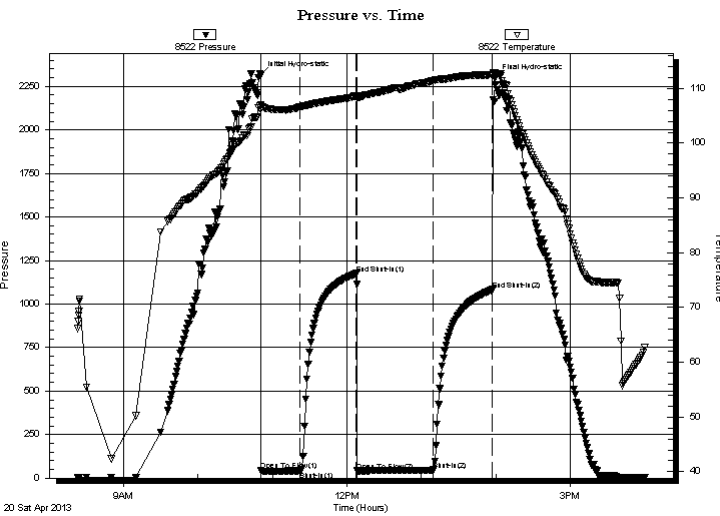
Start Time: 08:23:05

End Time: 15:59:59

Time On Btm: 2013.04.20 @ 10:50:30

Time Off Btm: 2013.04.20 @ 13:59:00

TEST COMMENT: IF: 1 1/2" blow .
IS: No return.
FF: Surface blow .
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2314.37	106.93	Initial Hydro-static
1	43.75	106.14	Open To Flow (1)
32	40.97	106.69	Shut-In(1)
77	1174.47	108.64	End Shut-In(1)
78	41.84	108.32	Open To Flow (2)
139	44.29	111.40	Shut-In(2)
187	1082.99	112.49	End Shut-In(2)
189	2294.55	112.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100m (oil spots)	0.35

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49170

DST#: 3

ATTN: Keith Reavis

Test Start: 2013.04.20 @ 08:23:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:50:45

Time Test Ended: 16:00:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4552.00 ft (KB) To 4574.00 ft (KB) (TVD)

Total Depth: 4574.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3118.00 ft (KB)

3109.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8677 Inside

Press @ Run Depth: psig @ 4543.00 ft (KB)

Start Date: 2013.04.20 End Date: 2013.04.20

Start Time: 08:23:05 End Time: 15:57:59

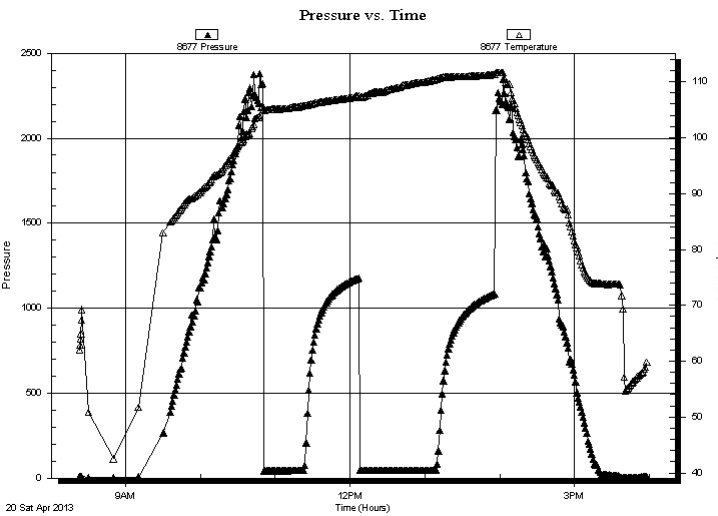
Capacity: 8000.00 psig

Last Calib.: 2013.04.20

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1 1/2" blow .
IS: No return.
FF: Surface blow .
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100m (oil spots)	0.35

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49170

DST#: 3

ATTN: Keith Reavis

Test Start: 2013.04.20 @ 08:23:00

Tool Information

Drill Pipe:	Length: 4506.00 ft	Diameter: 3.20 inches	Volume: 44.82 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 44.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4542.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4521.00	
Shut In Tool	5.00			4526.00	
Hydraulic tool	5.00			4531.00	
Jars	5.00			4536.00	
Safety Joint	2.00			4538.00	
Packer	4.00			4542.00	22.00 Bottom Of Top Packer
Stubb	1.00			4543.00	
Recorder	0.00	8677	Inside	4543.00	
Recorder	0.00	8522	Outside	4543.00	
Perforations	28.00			4571.00	
Bullnose	3.00			4574.00	32.00 Anchor Tool

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49170

DST#: 3

ATTN: Keith Reavis

Test Start: 2013.04.20 @ 08:23:00

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:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Mud 100m (oil spots)	0.346

Total Length: 50.00 ft Total Volume: 0.346 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

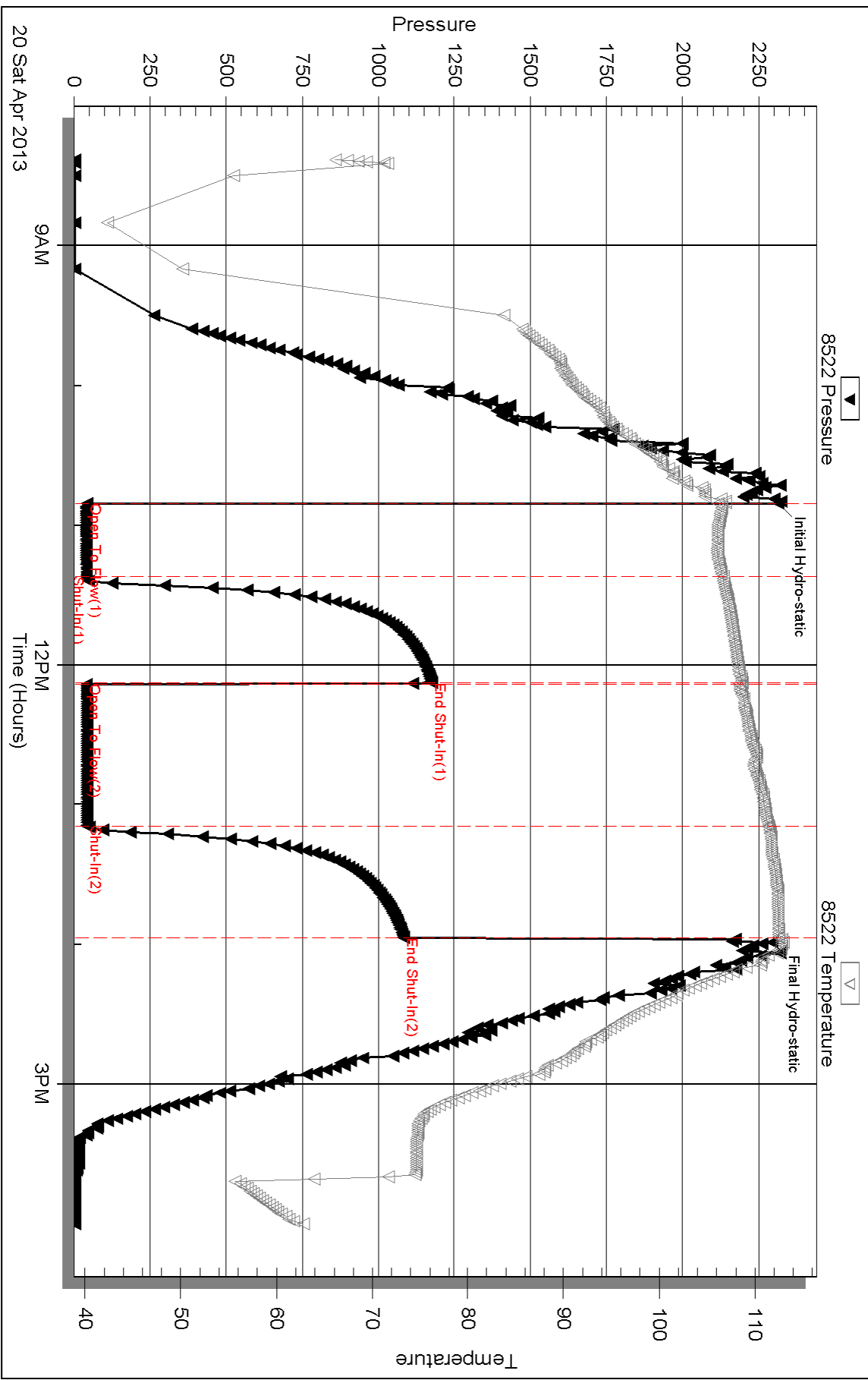
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



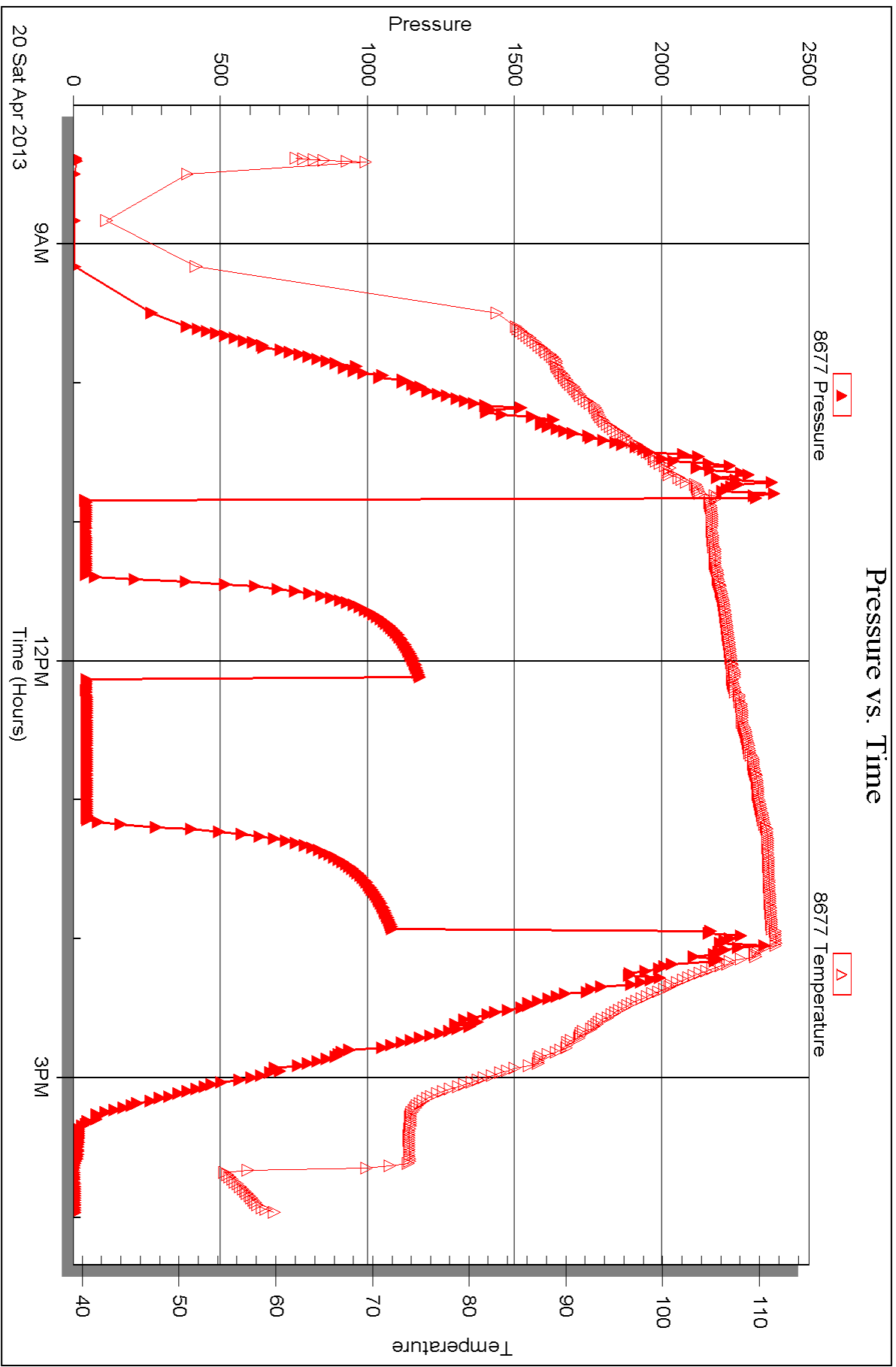
Serial #: 8677

Inside

Abercrombie Energy, LLC

K-2 Farms #1-17

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 49170

Printed: 2013.04.29 @ 09:58:02



DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC**

10209 W. Central STE 2
Wichita, KS 67212

ATTN: Keith Reavis

K-2 Farms #1-17

17-20s-34w Scott,KS

Start Date: 2013.04.21 @ 01:32:00

End Date: 2013.04.21 @ 08:38:30

Job Ticket #: 49171 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.29 @ 09:57:01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49171

DST#: 4

ATTN: Keith Reavis

Test Start: 2013.04.21 @ 01:32:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:49:45

Time Test Ended: 08:38:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4578.00 ft (KB) To 4607.00 ft (KB) (TVD)

Reference Elevations: 3118.00 ft (KB)

Total Depth: 4607.00 ft (KB) (TVD)

3109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

Press @ RunDepth: 41.50 psig @ 4579.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.21

End Date:

2013.04.21

Last Calib.:

2013.04.21

Start Time: 01:32:05

End Time:

08:38:29

Time On Btm:

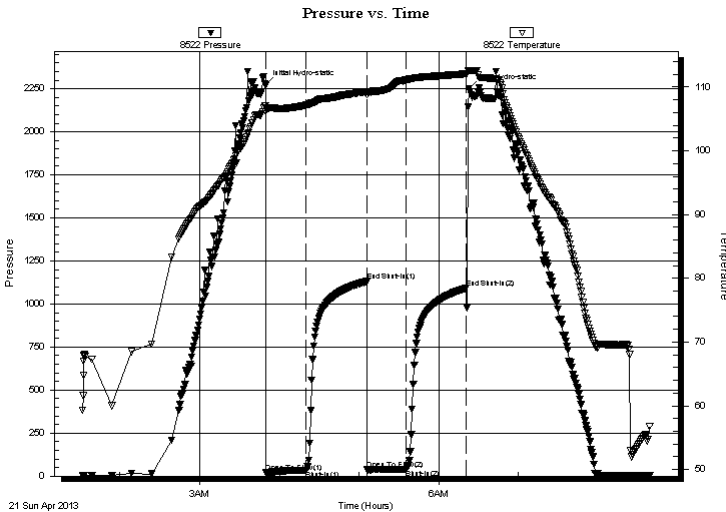
2013.04.21 @ 03:49:30

Time Off Btm:

2013.04.21 @ 06:22:45

TEST COMMENT: IF: 1" blow.
IS: No return.
FF: No blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.24	107.10	Initial Hydro-static
1	21.53	106.16	Open To Flow (1)
31	35.22	107.18	Shut-In(1)
77	1131.25	109.28	End Shut-In(1)
77	37.03	108.78	Open To Flow (2)
106	41.50	111.11	Shut-In(2)
151	1091.20	112.11	End Shut-In(2)
154	2249.40	112.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud 100m (oil spots)	0.30

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17-20s-34w Scott,KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49171

DST#: 4

ATTN: Keith Reavis

Test Start: 2013.04.21 @ 01:32:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:49:45

Time Test Ended: 08:38:30

Interval: 4578.00 ft (KB) To 4607.00 ft (KB) (TVD)

Total Depth: 4607.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Reference Elevations: 3118.00 ft (KB)

3109.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8677 Inside

Press @ Run Depth: psig @ 4579.00 ft (KB)

Start Date: 2013.04.21

End Date:

2013.04.21

Start Time: 01:32:05

End Time:

08:37:29

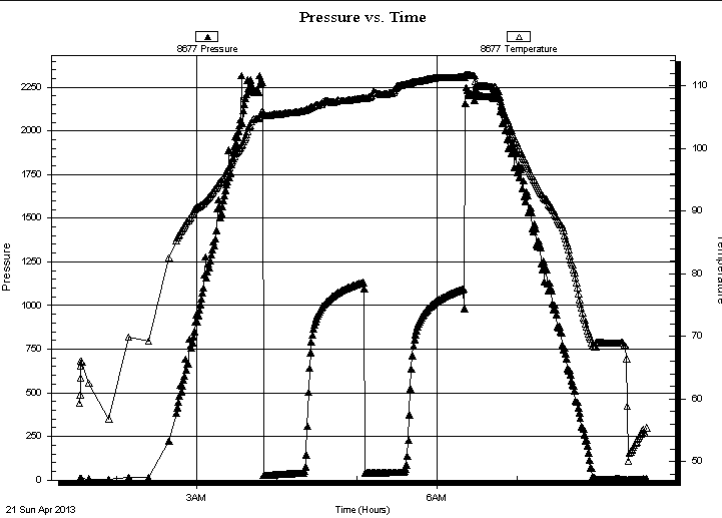
Capacity: 8000.00 psig

Last Calib.: 2013.04.21

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1" blow.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud 100m (oil spots)	0.30

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49171

DST#: 4

ATTN: Keith Reavis

Test Start: 2013.04.21 @ 01:32:00

Tool Information

Drill Pipe:	Length: 4536.00 ft	Diameter: 3.20 inches	Volume: 45.12 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 45.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4578.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 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	1.00			4552.00	
Shut In Tool	5.00			4557.00	
Hydraulic tool	5.00			4562.00	
Jars	5.00			4567.00	
Safety Joint	2.00			4569.00	
Packer	5.00			4574.00	27.00 Bottom Of Top Packer
Packer	4.00			4578.00	
Stubb	1.00			4579.00	
Recorder	0.00	8677	Inside	4579.00	
Recorder	0.00	8522	Outside	4579.00	
Perforations	25.00			4604.00	
Bullnose	3.00			4607.00	29.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49171

DST#: 4

ATTN: Keith Reavis

Test Start: 2013.04.21 @ 01:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud 100m (oil spots)	0.297

Total Length: 45.00 ft Total Volume: 0.297 bbl

Num Fluid Samples: 0

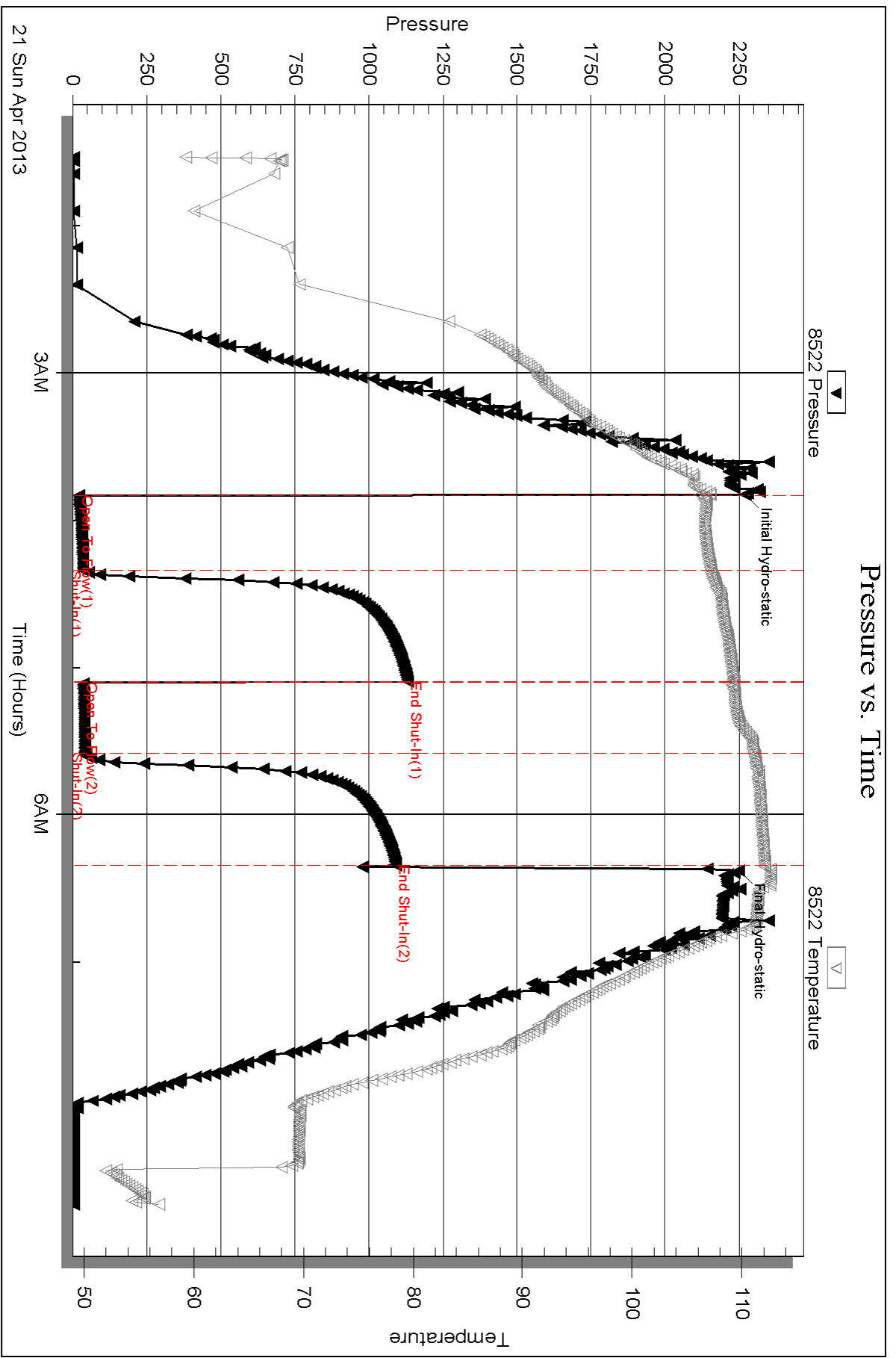
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



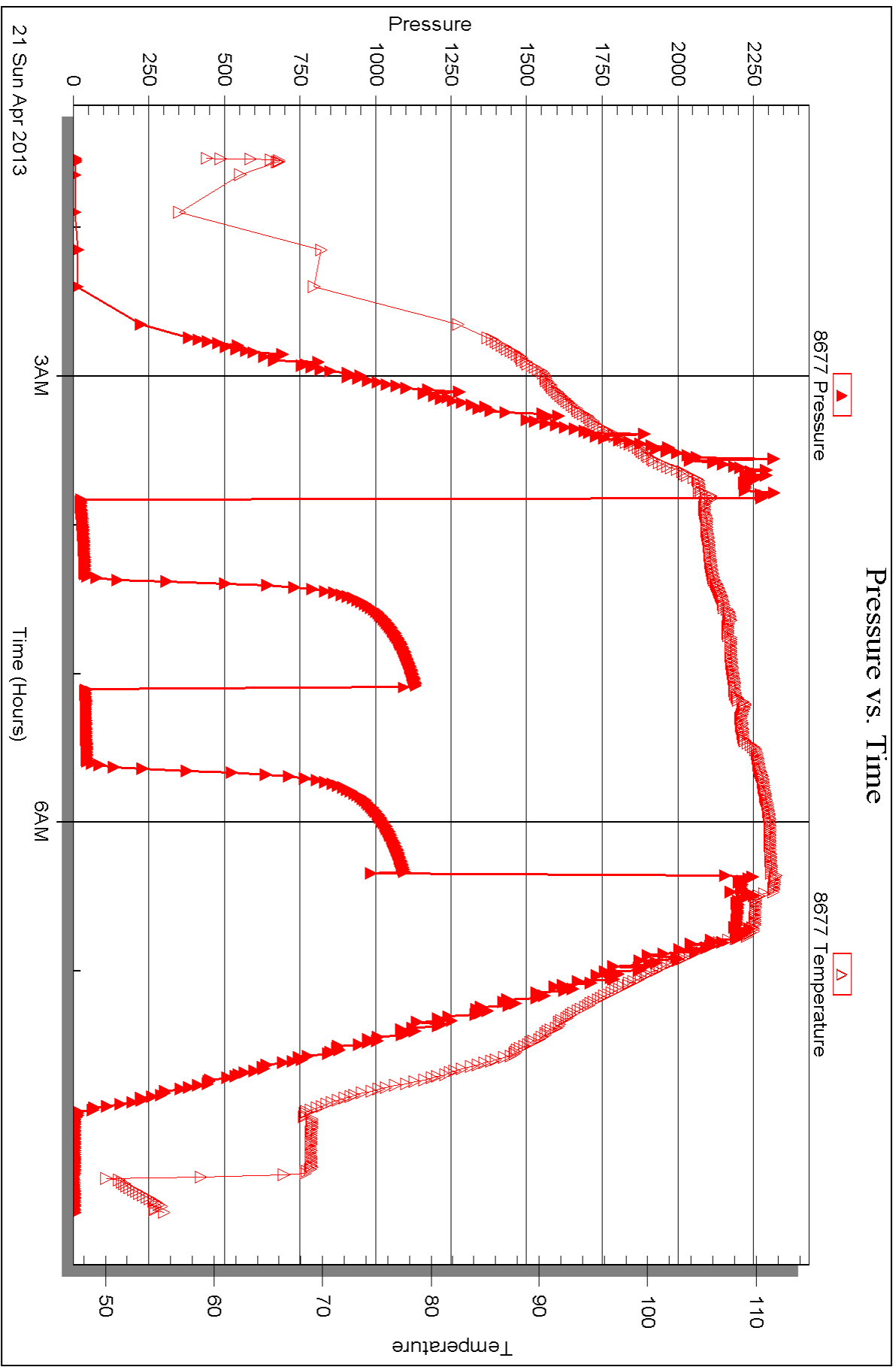
Serial #: 8677

Inside

Abercrombie Energy, LLC

K-2 Farms #1-17

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy, LLC**

10209 W. Central STE 2
Wichita, KS 67212

ATTN: Keith Reavis

K-2 Farms #1-17

17-20s-34w Scott,KS

Start Date: 2013.04.21 @ 16:33:00

End Date: 2013.04.21 @ 23:21:15

Job Ticket #: 49172 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.29 @ 09:50:35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17-20s-34w Scott,KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49172

DST#: 5

ATTN: Keith Reavis

Test Start: 2013.04.21 @ 16:33:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:48:45

Time Test Ended: 23:21:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4607.00 ft (KB) To 4630.00 ft (KB) (TVD)

Reference Elevations: 3118.00 ft (KB)

Total Depth: 4630.00 ft (KB) (TVD)

3109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 34.12 psig @ 4608.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.21

End Date:

2013.04.21

Last Calib.: 2013.04.21

Start Time: 16:33:05

End Time:

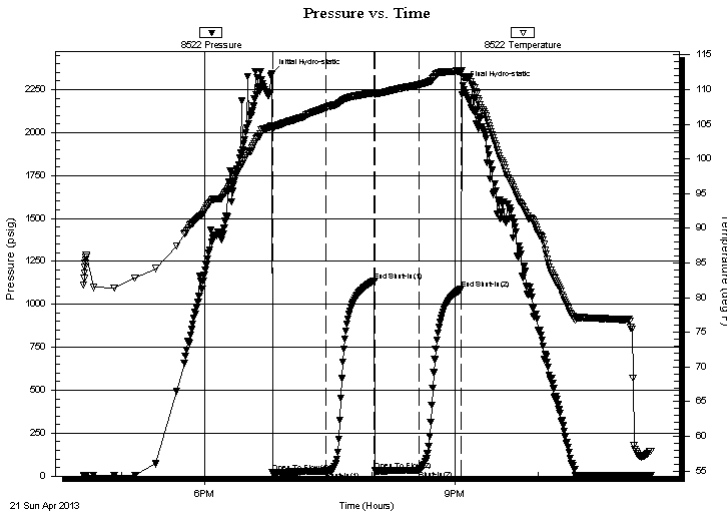
23:21:14

Time On Btm: 2013.04.21 @ 18:48:30

Time Off Btm: 2013.04.21 @ 21:05:45

TEST COMMENT: IF: No blow , Flushed tool, Surge died.
IS: No return.
FF: No blow .
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2341.33	104.80	Initial Hydro-static
1	20.14	104.20	Open To Flow (1)
39	29.24	107.40	Shut-In(1)
74	1137.42	109.54	End Shut-In(1)
74	32.21	109.29	Open To Flow (2)
106	34.12	110.71	Shut-In(2)
136	1087.60	112.69	End Shut-In(2)
138	2274.70	111.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	w cm 30w 70m (oil spots)	0.10

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

ATTN: Keith Reavis

Job Ticket: 49172

DST#: 5

Test Start: 2013.04.21 @ 16:33:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 18:48:45

Tester: Bradley Walter

Time Test Ended: 23:21:15

Unit No: 53

Interval: **4607.00 ft (KB) To 4630.00 ft (KB) (TVD)**

Reference Elevations: 3118.00 ft (KB)

Total Depth: 4630.00 ft (KB) (TVD)

3109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8677

Inside

Press @ Run Depth: psig @ 4608.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.21

End Date: 2013.04.21

Last Calib.: 2013.04.21

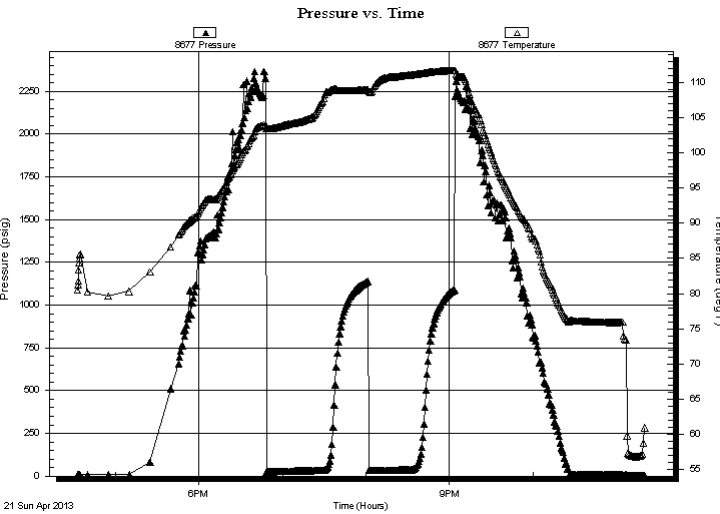
Start Time: 16:33:05

End Time: 23:19:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: No blow , Flushed tool, Surge died.
IS: No return.
FF: No blow .
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	w cm 30w 70m (oil spots)	0.10

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Abercrombie Energy, LLC

17-20s-34w Scott,KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49172

DST#: 5

ATTN: Keith Reavis

Test Start: 2013.04.21 @ 16:33:00

Tool Information

Drill Pipe:	Length: 4570.00 ft	Diameter: 3.20 inches	Volume: 45.46 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 45.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4607.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4581.00	
Shut In Tool	5.00			4586.00	
Hydraulic tool	5.00			4591.00	
Jars	5.00			4596.00	
Safety Joint	2.00			4598.00	
Packer	5.00			4603.00	27.00 Bottom Of Top Packer
Packer	4.00			4607.00	
Stubb	1.00			4608.00	
Recorder	0.00	8677	Inside	4608.00	
Recorder	0.00	8522	Outside	4608.00	
Perforations	19.00			4627.00	
Bullnose	3.00			4630.00	23.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Abercrombie Energy, LLC

17-20s-34w Scott, KS

10209 W. Central STE 2
Wichita, KS 67212

K-2 Farms #1-17

Job Ticket: 49172

DST#: 5

ATTN: Keith Reavis

Test Start: 2013.04.21 @ 16:33:00

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:

34000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	w cm 30w 70m (oil spots)	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

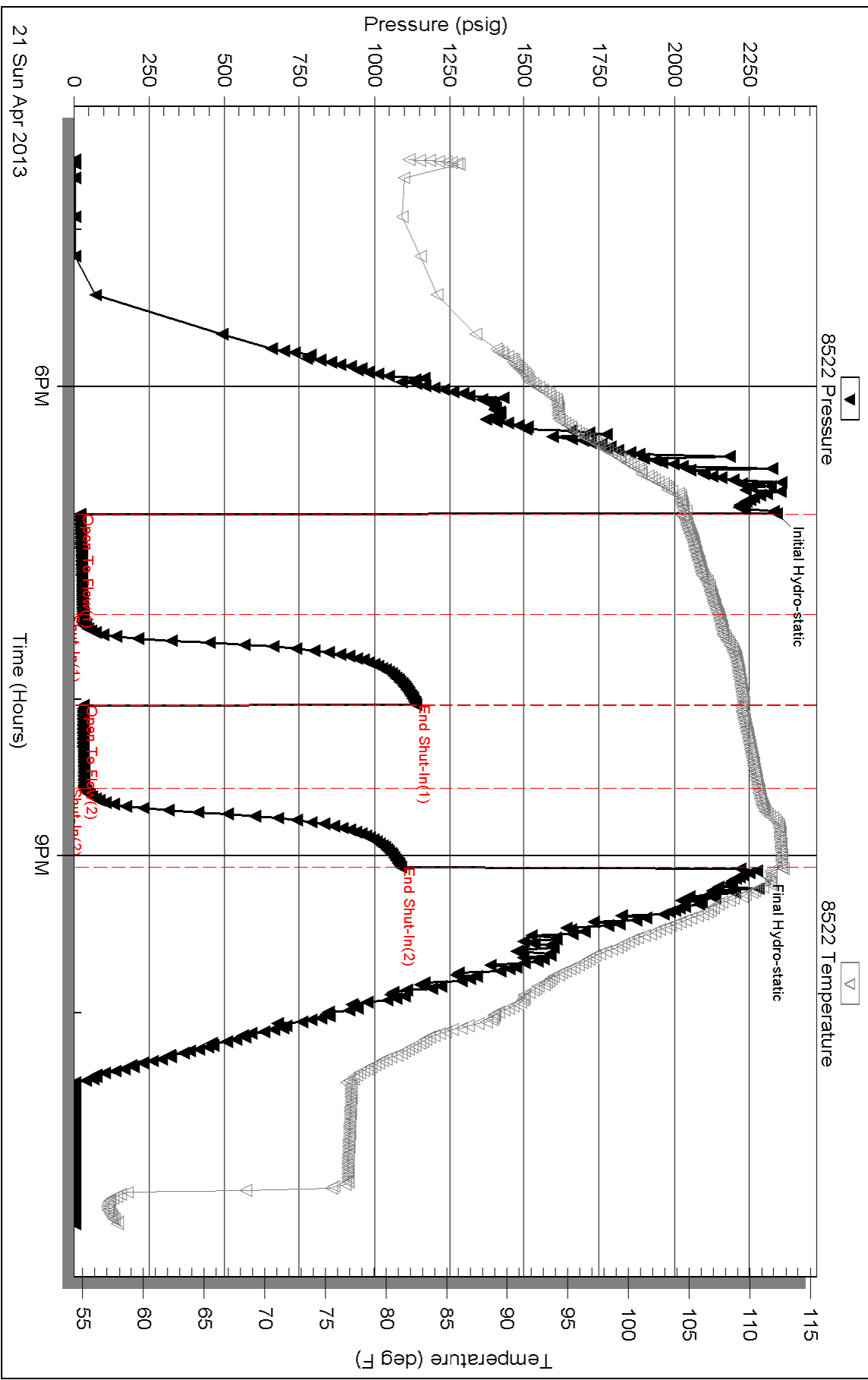
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .238 @ 58F = 34000ppm

Pressure vs. Time



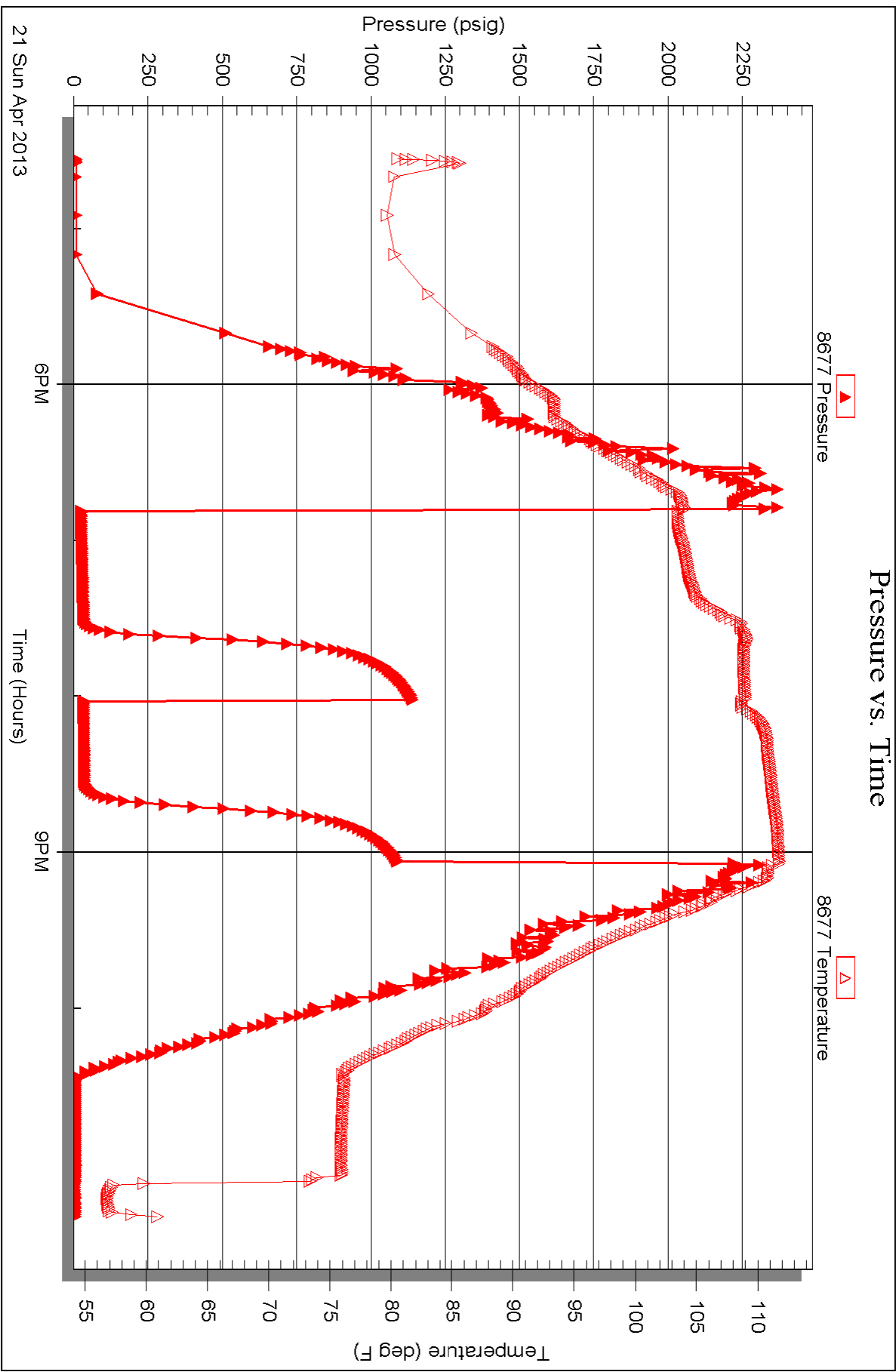
Serial #: 8677

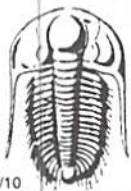
Inside

Abercrombie Energy, LLC

K-2 Farms #1-17

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49168

Well Name & No. Abercrombie K-2 Farms 1-17 Test No. 1 Date 4/18/13
 Company Abercrombie Energy, LLC Elevation 3118 KB 3109 GL
 Address 10209 W. Central STE 2
 Co. Rep / Geo. Keith Reavis Rig Val #4
 Location: Sec. 17 Twp. 20s Rge. 34w Co. Scott State Ks

Interval Tested 4322 4362 Zone Tested LKC K
 Anchor Length 40 Drill Pipe Run 4288 Mud Wt. 9.3
 Top Packer Depth 4317 Drill Collars Run 30 Vis 53
 Bottom Packer Depth 4322 Wt. Pipe Run Ø WL 6.4
 Total Depth 4362 Chlorides 5800 ppm System LCM 2#
 Blow Description IF: BOB @ 1 1/4 min.
ISI: No return
FF: BOB @ 3 min.
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
2205	Water SMCW			100 <u>95</u>	5
1620	MCW (oil specs on top)			95	5

Rec Total 2205 BHT 119 Gravity — API RW 180 @ 54 °F Chlorides 49,000 ppm

(A) Initial Hydrostatic <u>1620</u> <u>2166</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>0830</u>
(B) First Initial Flow <u>65</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1003</u>
(C) First Final Flow <u>495</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1303</u>
(D) Initial Shut-In <u>1118</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1533</u>
(E) Second Initial Flow <u>509</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1805</u>
(F) Second Final Flow <u>781</u>	<input checked="" type="checkbox"/> Mileage <u>43 RT</u> 66.65	Comments
(G) Final Shut-In <u>1119</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2148</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1641.65</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1641.65</u>	

Approved By _____ 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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49169

Well Name & No. K-2 Farms 1-17 Test No. 2 Date 4/19/13
 Company Abarcrombie Energy, LLC Elevation 3118 KB 3109 GL
 Address 10209 W. Central STE 2 Wichita, Ks 67212
 Co. Rep / Geo. Keith Rawlis Rig VAL #4
 Location: Sec. 17 Twp. 20 S Rge. 34 W Co. Scott State Ks

Interval Tested 4515 - 4541 Zone Tested Marmaton
 Anchor Length 26 Drill Pipe Run 4475 Mud Wt. 9.4
 Top Packer Depth 4510 Drill Collars Run 30 Vis 50
 Bottom Packer Depth 4515 Wt. Pipe Run Ø WL 6.4
 Total Depth 4541 Chlorides 7,000 ppm System LCM 1#
 Blow Description IF: BOB@ 2 min
ISI: 5" return.
FF: BOB@ 5 min
FSI: 3" Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>GS MCO</u>	<u>35</u>	<u>60</u>	<u>5</u>	<u>0</u>
<u>120</u>	<u>6 MCO</u>	<u>35</u>	<u>50</u>	<u>15</u>	<u>0</u>
<u> </u>	<u>1150 GIP</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total 235 BHT 120 Gravity 30 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2286 Test 1250 T-On Location 1500
 (B) First Initial Flow 27 Jars 250 T-Started 1553
 (C) First Final Flow 53 Safety Joint 75 T-Open 1812
 (D) Initial Shut-In 1106 Circ Sub N/C T-Pulled 2112
 (E) Second Initial Flow 59 Hourly Standby T-Out
 (F) Second Final Flow 109 Mileage 43 R/T 66.65 Comments
 (G) Final Shut-In 1060 Sampler
 (H) Final Hydrostatic 2247 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1641.65
 Accessibility MP/DST Disc't
 Sub Total 1641.65

Approved By Keith Rawlis Our Representative
 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.

TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

NO. 49170

Well Name & No. K-2 Farms 1-17 Test No. 3 Date 4/20/13
 Company Abercrombie Energy, LLC Elevation 3118 KB 3109 GL
 Address ~~Keith Reavis~~ 10209 W. Central STE 2 Wichita, Ks 67212
 Co. Rep / Geo. Keith Reavis Rig VAL #4
 Location: Sec. 17 Twp. 20s Rge. 34w Co. Scott State Ks

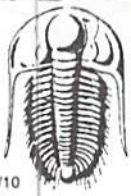
Interval Tested 4542 4574 Zone Tested Marmaton
 Anchor Length 32 Drill Pipe Run 4506 Mud Wt. 9.4
 Top Packer Depth 4542 Drill Collars Run 30 Vis 50
 Bottom Packer Depth — Wt. Pipe Run 0 WL 6.4
 Total Depth 4574 Chlorides 7000 ppm System LCM 7000
 Blow Description IF: 1 1/2" blow
ISI: No return.
FF: Surface blow
FSI: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>MUD (oil spots)</u>				

Rec Total 50 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2314</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0745</u>
(B) First Initial Flow <u>44</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0823</u>
(C) First Final Flow <u>41</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1052</u>
(D) Initial Shut-In <u>1174</u>	<input checked="" type="checkbox"/> Circ Sub <u>NE</u>	T-Pulled <u>1352</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1600</u>
(F) Second Final Flow <u>44</u>	<input checked="" type="checkbox"/> Mileage <u>43 RT</u> <u>66.65</u>	Comments
(G) Final Shut-In <u>1083</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2295</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1641.65</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1641.65</u>	

Approved By _____ Our Representative [Signature]
 Tribotite 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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49171

4/10

Well Name & No. K-2 Farms 1-17 Test No. 4 Date 4/21/13
 Company Abercrombe Energy, LLC Elevation 3118 KB 3109 GL
 Address 10209 W Central STE #2 Wichita, KS 67212
 Co. Rep / Geo. Keith Reavis Rig VAL #4
 Location: Sec. 17 Twp. 20S Rge. 34W Co. Scott State KS

Interval Tested 4578 - 4607 Zone Tested Pawnee
 Anchor Length 29 Drill Pipe Run 4536 Mud Wt. 9.5
 Top Packer Depth 4573 Drill Collars Run 30 Vis 42
 Bottom Packer Depth 4578 Wt. Pipe Run Ø WL 80
 Total Depth 4607 Chlorides 9,000 ppm System LCM 2#
 Blow Description IF: 1" blow
ISI: No Return.
FF: No blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>MUD (OIL SPOTS)</u>			<u>100</u>	
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

Rec Total 45 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2271</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0045</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0132</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0352</u>
(D) Initial Shut-In <u>1131</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>0622</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0839</u>
(F) Second Final Flow <u>42</u>	<input checked="" type="checkbox"/> Mileage <u>43 RT</u> 66.65	Comments
(G) Final Shut-In <u>1091</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2249</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1641.65</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1641.65</u>	

Approved By Keith Reavis 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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49172

Well Name & No. K-2 Farms #1-17 Test No. 5 Date 4/21/13
 Company Abercrombie Energy, LLC Elevation 3118 KB 3109 GL
 Address 10209 W. Central STE #2 Wichita, KS 67212
 Co. Rep / Geo. Keith Reavis Rig VAL #4
 Location: Sec. 17 Twp. 20s Rge. 34w Co. Scott State Ks

Interval Tested 457 4607 4630 Zone Tested Ft. Scott
 Anchor Length 23 Drill Pipe Run 4570 Mud Wt. 9.5
 Top Packer Depth 4602 Drill Collars Run 30 Vis 51
 Bottom Packer Depth 4607 Wt. Pipe Run Ø WL 5# 6.4
 Total Depth 4630 Chlorides 6500 ppm System LCM 3#
 Blow Description IF: Surface blow died FLUSHED tool blow died.
ISI: No return
FF: No blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Wcm (oil spots)</u>				
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

Rec Total 20 BHT 113 Gravity — API RW 1238 @ 58 ° F Chlorides 34,000 ppm

(A) Initial Hydrostatic 2341 Test 1250 T-On Location 1600
 (B) First Initial Flow 20 Jars 250 T-Started 1633
 (C) First Final Flow 29 Safety Joint 75 T-Open 2046
 (D) Initial Shut-In 1137 Circ Sub N/C T-Pulled 2158
 (E) Second Initial Flow 32 Hourly Standby _____ T-Out 2320
 (F) Second Final Flow 34 Mileage 43RT 133.30 Comments _____
 (G) Final Shut-In 1098 Sampler _____ loaded tools @ 18:00 on 4/23
 (H) Final Hydrostatic 2275 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 FLUSH Extra Recorder _____ Sub Total 800
 Initial Shut-In 30 Day Standby 1d 18.75h Total 2508.30
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1708.30

Approved By _____

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.

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 135677
Invoice Date: Apr 12, 2013
Page: 1

APR 23 2013



Bill To:

Abercrombie Energy, LLC
5510 Oil Center RD South
Great Bend, KS 67530



Customer ID	Field Ticket #	Payment Terms	
Aber	60198	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Apr 12, 2013	5/12/13

Quantity	Item	Description	Unit Price	Amount
235.00	MAT	K-2 Farms #1-17 Class A Common	17.90	4,206.50
4.00	MAT	Gel	23.40	93.60
8.00	MAT	Chloride	64.00	512.00
254.12	SER	Cubic Feet	2.48	630.22
754.00	SER	Ton Mileage	2.60	1,960.40
1.00	SER	Surface	1,512.25	1,512.25
65.00	SER	Pump Truck Mileage	7.70	500.50
1.00	SER	Manifold Head Rental	275.00	275.00
65.00	SER	Light Vehicle Mileage	4.40	286.00
1.00	EQP	8.5/8 Wooden Plug	107.64	107.64
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		
1.00	CEMENTER	John Robinson		

VENDOR NUMBER _____
VOUCHER NUMBER _____
VERIFY OF RECEIPT _____
CODE NUMBER _____
1352062
K-2 FARMS #1-17
CEMENT SURFACE CSG
APPROVAL _____
VERIFIED ACCURACY _____

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2,016.82

Subtotal	10,084.11
Sales Tax	408.34
Total Invoice Amount	10,492.45
Payment/Credit Applied	
TOTAL	10,492.45

ONLY IF PAID ON OR BEFORE
May 7, 2013

ALLIED OIL & GAS SERVICES, LLC 060198

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Carley

DATE <u>4-12-13</u>	SEC <u>17</u>	TWP <u>20</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>3:30 PM</u>	JOB FINISH <u>4:50 PM</u>
LEASE <u>H-2 Farms</u>		WELL # <u>1-17</u>	LOCATION <u>Scott City 115-100-1/25</u>		COUNTY <u>Scott</u>	STATE <u>K.</u>	
OLD OR <u>NEW</u> (Circle one)				Winto			



CONTRACTOR Val #4 **OWNER** Same

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>356'</u>	CEMENT AMOUNT ORDERED <u>235 sks Com 3% CC 2% Gel</u>
CASING SIZE <u>8 3/8</u>	DEPTH <u>370.12'</u>	
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT	

COMMON 235 sks @ \$17.92 \$4206.50

POZMIX _____ @ _____

GEL 4 sks @ \$23.40 \$93.60

CHLORIDE 8 sks @ \$64.00 \$512.00

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING 258.12 cf x @ \$2.40 \$630.28

MILEAGE 11.60 x 65 x \$2.00 \$1960.00

TOTAL \$7402.78

DISPLACEMENT 22.72

EQUIPMENT

PUMP TRUCK # 120 CEMENTER Drewen Ricette

HELPER Tyler Flipse

BULK TRUCK # 566-525 DRIVER Brandon Wilkinson

BULK TRUCK # _____ DRIVER John Robinson

REMARKS:

Mix 235 sks Cement

Displace with water

Cement Did Circulate

SERVICE

DEPTH OF JOB <u>370.12'</u>	
PUMP TRUCK CHARGE _____	<u>\$1512.35</u>
EXTRA FOOTAGE _____ @ _____	
MILEAGE <u>65</u> @ <u>\$7.72</u>	<u>\$500.50</u>
MANIFOLD <u>Head</u> @ _____	<u>\$275.00</u>
<u>LV mileage</u> @ <u>\$4.42</u>	<u>\$286.00</u>
_____ @ _____	
TOTAL	<u>\$2573.75</u>

CHARGE TO: Abercrombie

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>1 Wooden Plug</u>	@ _____	<u>\$107.64</u>
_____	@ _____	
_____	@ _____	
_____	@ _____	
_____	@ _____	
TOTAL		<u>\$107.64</u>

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE Jerry H. [Signature]

SALES TAX (if Any) _____

TOTAL CHARGES 10,084.11

DISCOUNT 2016.82 IF PAID IN 30 DAYS

8,067.28 Net.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

April 30, 2013

Gary Misak
Abercrombie Energy, LLC
10209 W. CENTRAL, STE 2
WICHITA, KS 67212

Re: ACO1
API 15-171-20940-00-00
K-2 FARMS 1-17
SW/4 Sec.17-20S-34W
Scott County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Gary Misak

ALLIED

OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

COPY

INVOICE

Invoice Number: 135999
Invoice Date: Apr 29, 2013
Page: 1

Bill To:
Abercrombie Energy, LLC
5510 Oil Center RD South
Great Bend, KS 67530



Now Includes:

Customer ID	Field Ticket #	Payment Terms	
Aber	60247	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Apr 29, 2013	5/29/13

Quantity	Item	Description	Unit Price	Amount
350.00	MAT	K 2 Farms #1-17		
10.00	MAT	Lightweight	15.95	5,582.50
88.00	MAT	Cottonseed Hulls	35.00	350.00
519.13	SER	Flo Seal	2.97	261.36
1,361.75	SER	Cubic Feet	2.48	1,287.44
1.00	SER	Ton Mileage	2.60	3,540.55
65.00	SER	Port Collar	2,483.59	2,483.59
65.00	SER	Pump Truck Mileage	7.70	500.50
1.00	SER	Light Vehicle Mileage	4.40	286.00
1.00	CEMENTER	LaRene Wentz		
1.00	OPER ASSIST	Paul Beaver		
1.00	OPER ASSIST	David Scariano		
		VENDOR NUMBER		
		VOUCHER NUMBER		
		DATE RECEIPT		
		COLL NUMBER	AMOUNT	
		1352062		
		K-FARMS#1-17		
		CEMENT PORT COLLAR		
		APPROVAL <i>[Signature]</i>		
		VERIFIED ACCURACY		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 2,858.38

ONLY IF PAID ON OR BEFORE

May 24, 2013

Subtotal	14,291.94
Sales Tax	514.09
Total Invoice Amount	14,806.03
Payment/Credit Applied	
TOTAL	14,806.03

ALLIED OIL & GAS SERVICES, LLC

060247

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Dakley, KS

DATE <u>4-29-13</u>	SEC. <u>17</u>	TWP. <u>20</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>12:00 p.</u>	JOB START <u>2:30 pm</u>	JOB FINISH <u>3:30 pm</u>
LEASE <u>K2 Farms</u>	WELL # <u>1-17</u>	LOCATION <u>Scott City 115, 10w,</u>	COUNTY <u>Scott</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one)	<u>V25, Winto</u>						

CONTRACTOR Friteler OWNER same

TYPE OF JOB Port Collar

HOLE SIZE _____ T.D. _____ CEMENT _____

CASING SIZE 8 1/2 DEPTH _____ AMOUNT ORDERED 450 sks Lite 1/4" closed

TUBING SIZE _____ DEPTH _____ 500# Hull on side

DRILL PIPE _____ DEPTH _____

TOOL port collar DEPTH 2273.91

PRES. MAX _____ MINIMUM _____ COMMON _____ @ _____

MEAS. LINE _____ SHOE JOINT _____ POZMIX _____ @ _____

CEMENT LEFT IN CSG. _____ GEL _____ @ _____

PERFS. _____ CHLORIDE _____ @ _____

DISPLACEMENT 8.87661 ASC _____ @ _____

EQUIPMENT Lite 350 sks @ 15.95 5582.50

cottonseed hulls 150 sks @ 25.00 3750.00

Pro-seal 88# @ 2.97 261.36

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING 519.13 543 @ 2.48 1287.44

MILEAGE 20.95 tax 65 x 2.60 3590.55

TOTAL 11026.85

REMARKS:

mix 350 sks cement

Displace with water

Lock in port collar

Cement did circulate.

Thank you

CHARGE TO: Abercrombie.

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 3272.09

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES 14,291.94

DISCOUNT 2,858.38 IF PAID IN 30 DAYS

11,433.55 Net

PRINTED NAME _____

SIGNATURE _____

CC3

ALLIED

OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

COPY

INVOICE

Invoice Number: 135933
Invoice Date: Apr 24, 2013
Page: 1

Bill To:
Abercrombie Energy, LLC
5510 Oil Center RD South
Great Bend, KS 67530



Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Aber	60161	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Apr 24, 2013	5/24/13

Quantity	Item	Description	Unit Price	Amount
295.00	MAT	K 2 #1-17	20.90	6,165.50
31.00	MAT	ASC	26.35	816.85
1,475.00	MAT	Salt	0.98	1,445.50
12.00	MAT	Gilsonite	58.70	704.40
378.79	SER	WFR-2	2.48	939.41
1,070.81	SER	Cubic Feet	2.60	2,784.11
1.00	SER	Ton Mileage	2,765.75	2,765.75
65.00	SER	Production	7.70	500.50
1.00	SER	Pump Truck Mileage	275.00	275.00
65.00	SER	Manifold & Head Rental	4.40	286.00
1.00	SER	Light Vehicle Mileage	3,042.00	3,042.00
1.00	EQP	5.5 Port Collar	324.09	324.09
1.00	EQP	5.5 Latch Down Assembly	408.35	408.35
1.00	EQP	5.5 AFU Float Shoe	57.33	630.63
11.00	EQP	5.5 Centralizer	394.29	1,182.87
3.00	EQP	5.5 Basket		
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	David Scariano		

VENDOR NUMBER
1352062
K-2 FARMS #1-17
CEMENT PRODUCTION CSG
APPROVAL
VERIFIED ACCURACY

Subtotal	22,270.96
Sales Tax	1,221.78
Total Invoice Amount	23,492.74
Payment/Credit Applied	
TOTAL	23,492.74

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 4,454.19

ONLY IF PAID ON OR BEFORE
May 19, 2013

ALLIED OIL & GAS SERVICES, LLC 060161

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakley

DATE <u>4/24/13</u>	SEC. <u>17</u>	TWP. <u>20</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>10:30 AM</u>	JOB FINISH <u>11:30 AM</u>
LEASE <u>K2</u>	WELL# <u>1-17</u>	LOCATION <u>Scott City 11S 10 W 12S</u>				COUNTY <u>Scott</u>	STATE <u>Ks</u>
OLD OR NEW (Circle one)		<u>Windo</u>					

CONTRACTOR Val 4
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 4998
CASING SIZE 5 1/2 DEPTH 4994
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL Part Collar DEPTH 2273.91
PRES. MAX 2700 MINIMUM
MEAS. LINE SHOE JOINT 42.16
CEMENT LEFT IN CSG. 42.16
PERFS.
DISPLACEMENT 119 BBL

OWNER Same
CEMENT AMOUNT ORDERED 295 SK ASC
1076 cts 5th Gilsonite 270 gal
WFR II
COMMON @
POZMIX @
GEL @
CHLORIDE @
ASC 295 SK @ 20.90 6165.50
Salt 31 SK @ 26.35 816.85
Gilsonite 1425 lb @ 0.98 1445.50
WFR II 12 BBL @ 58.20 704.40
HANDLING 378.793 CF @ 2.48 939.41
MILEAGE 2.62 Ton/mile 16.474 Ton 2284.11
TOTAL 12855.22

REMARKS: 15 SK M H
30 SK R H

Run Cg, Circulate Mix WFR II, Mix Cement
Work up, Displace Plug w/ 119 BBL H₂O
VT 500 Start 6:57 PST - 2200 Final 0:57
PST, Leak Plug @ 2200 PST.
Released - did not dry eye, measured
to 800 PST & started in.
250 SK down 5 1/2
Thank You

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE 2765.25
EXTRA FOOTAGE @
MILEAGE 65 @ 7.20 500.00
MANIFOLD Head @ 225.00
Site Vehicle 65 @ 4.40 286.00
TOTAL 3827.25

PLUG & FLOAT EQUIPMENT

Part Collar @ 3042.00 3042.00
Latch Down Assembly - 1013 @ 324.09 324.09
APU Float 5, hat @ 408.25 408.25
18 - Control lines @ 57.22 630.60
3 Baskets @ 394.24 1182.72
TOTAL 5587.94

SALES TAX (if Any)
TOTAL CHARGES 22,270.96
DISCOUNT 4,454.19 IF PAID IN 30 DAYS
17,816.76 Net

CHARGE TO: Alexcombie
STREET
CITY STATE ZIP

Marker Return 14-15
mt. 1, 2, 5, 8, 9, 10, 11, 15 62, 63, 65
baskets 5, 63, 64

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Jason Schuler
SIGNATURE Jason Schuler

OPERATOR

Company: Abercrombie Energy, LLC
 Address: 10209 W. Central
 Suite 2
 Wichita, KS 67212
 Contact Geologist: Mark Galyon
 Contact Phone Nbr: 316-262-1841
 Well Name: K-2 Farms #1-17
 Location: Sec. 17-T20S-R34W
 Pool:
 State: Kansas
 API: 15-171-20940-0000
 Field: Wildcat
 Country: USA

Scale 1:240 Imperial

Well Name: K-2 Farms #1-17
 Surface Location: Sec. 17-T20S-R34W
 Bottom Location:
 API: 15-171-20940-0000
 License Number: 32457
 Spud Date: 4/12/2013 Time: 00:00
 Region: Scott County
 Drilling Completed: 4/23/2013 Time: 06:30
 Surface Coordinates: 1500' FSL & 2301' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 3109.00ft
 K.B. Elevation: 3118.00ft
 Logged Interval: 3600.00ft To: 4997.00ft
 Total Depth: 4997.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1500' FSL
 E/W Co-ord: 2301' FWL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530
 Phone Nbr: 620-617-4091
 Logged By: KLG #136 Name: Keith Reavis

CONTRACTOR

Contractor: Val Energy, Inc.
 Rig #: 4
 Rig Type: mud rotary
 Spud Date: 4/12/2013 Time: 00:00
 TD Date: 4/23/2013 Time: 06:30
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 3118.00ft Ground Elevation: 3109.00ft
 K.B. to Ground: 9.00ft

NOTES

Due to the results of DST #2 and electrical log evaluation, it was determined by the operator that 5 1/2 inch production casing be set and cemented and the Marmaton be further tested through perforations and stimulation.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS

Respectfully submitted,
Keith Reavis

Abercrombie Energy, LLC

daily drilling report






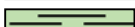


DATE	7:00 AM DEPTH	REMARKS
04/16/2013	3670	Geologist Keith Reavis on location @ 0145 hrs, 3562 ft., drilling ahead Topeka, Lecompton, Heebner, Toronto - bit trip @ 4009 ft, 2215 hrs
04/17/2013	4048	complete bit trip, very tight first 10 stands, resume drilling @ 0450 hrs, drilling ahead, LKC group
04/18/2013	4362	drilling ahead, lower LKC, Stark, show in K zone warrants DST, short trip, ctch, TOH for DST #1, complete DST #1, successful test, TIH w/bit, resume drilling 2135 hrs
04/19/2013	4498	drilling ahead, lower LKC, BKC, Marmaton, show in "C" bench warrants test, TOH for DST #2, conduct and complete DST #2, successful test
04/20/2013	4574	TIH w/bit, resume drilling, show in "D" bench warrants test, TOH for DST #3, conduct DST #3, successful test, back in hole w/bit, resume drilling, Pawnee, show warrants test, start out of hole for DST #4
04/21/2013	4607	TOH for DST #4, conduct and complete DST #4, successful test, back in hole with bit, drill Ft. Scott, show warrants test, TOH for DST #5, conduct and complete DST #5, successful test
04/22/2013	4690	in hole w/bit, resume drilling, Cherokee, Morrow
04/23/2013	4997	drilling ahead, Morrow, Mississippian, TD @ 4997', short trip, ctch, TOH for logs, conduct logging operations, geologist off location 1900 hrs

Abercrombie Engery, LLC

well comparison sheet

DRILLING WELL				COMPARISON WELL				COMPARISON WELL				
K-2 Farms				Trans-Western Minnix #1				Abercrombie 1-9 Moore				
1500' FSL & 2301' FWL				SE NE NW				1800' FSL & 1390' FEL				
Sec 17-20S-34W				Sec 20-20S-34W				Sec 9-20S-34W				
3118 KB				3110 KB				3069 KB				
				Structural Relationship				Structural Relationship				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
King Hill	3823	-705	3823	-705	3813	-703	-2	-2	3795	-726	21	21
Heebner	3969	-851	3969	-851	3965	-855	4	4	3940	-871	20	20
Lansing	4016	-898	4012	-894	4010	-900	2	6	3986	-917	19	23
Muncie Creek	4218	-1100	4216	-1098	4212	-1102	2	4	4186	-1117	17	19
Stark	4330	-1212	4327	-1209	4326	-1216	4	7	4299	-1230	18	21
Base KC	4465	-1347	4468	-1350	4464	-1354	7	4	4436	-1367	20	17
Marmaton	4491	-1373	4493	-1375	4491	-1381	8	6	4462	-1393	20	18
Pawnee	4589	-1471	4600	-1482	4595	-1485	14	3	4554	-1485	14	3
Cherokee	4625	-1507	4640	-1522	4631	-1521	14	-1	4590	-1521	14	-1
Morrow	4817	-1699	4830	-1712	4820	-1710	11	-2	4776	-1707	8	-5
Mississippian	4923	-1805	4917	-1799	4889	-1779	-26	-20	4881	-1812	7	13
Total Depth	4997	-1879	4998	-1880	5052	-1942	63	62	4982	-1913	34	33

ROCK TYPES

 sdymst	 Lmst fw7>	 shale, gr	 shale, red
 Lmst fw<7	 shale, grn	 Carbon Sh	 Ss

ACCESSORIES

MINERAL

- Argillaceous
- ▲ Chert, dark
- ∟ Dolomitic
- P Pyrite
- △ Chert White

FOSSIL

- ∩ Bioclastic or Fragmental
- F Fossils < 20%
- ∅ Oolite
- ♣ Pellets
- ♣ Oomoldic

STRINGER










- Sandstone
- Shale
- green shale
- red shale
- carb shale

TEXTURE

- C Chalky
- CX Cryptocrystalline
- L Lithogr

OTHER SYMBOLS

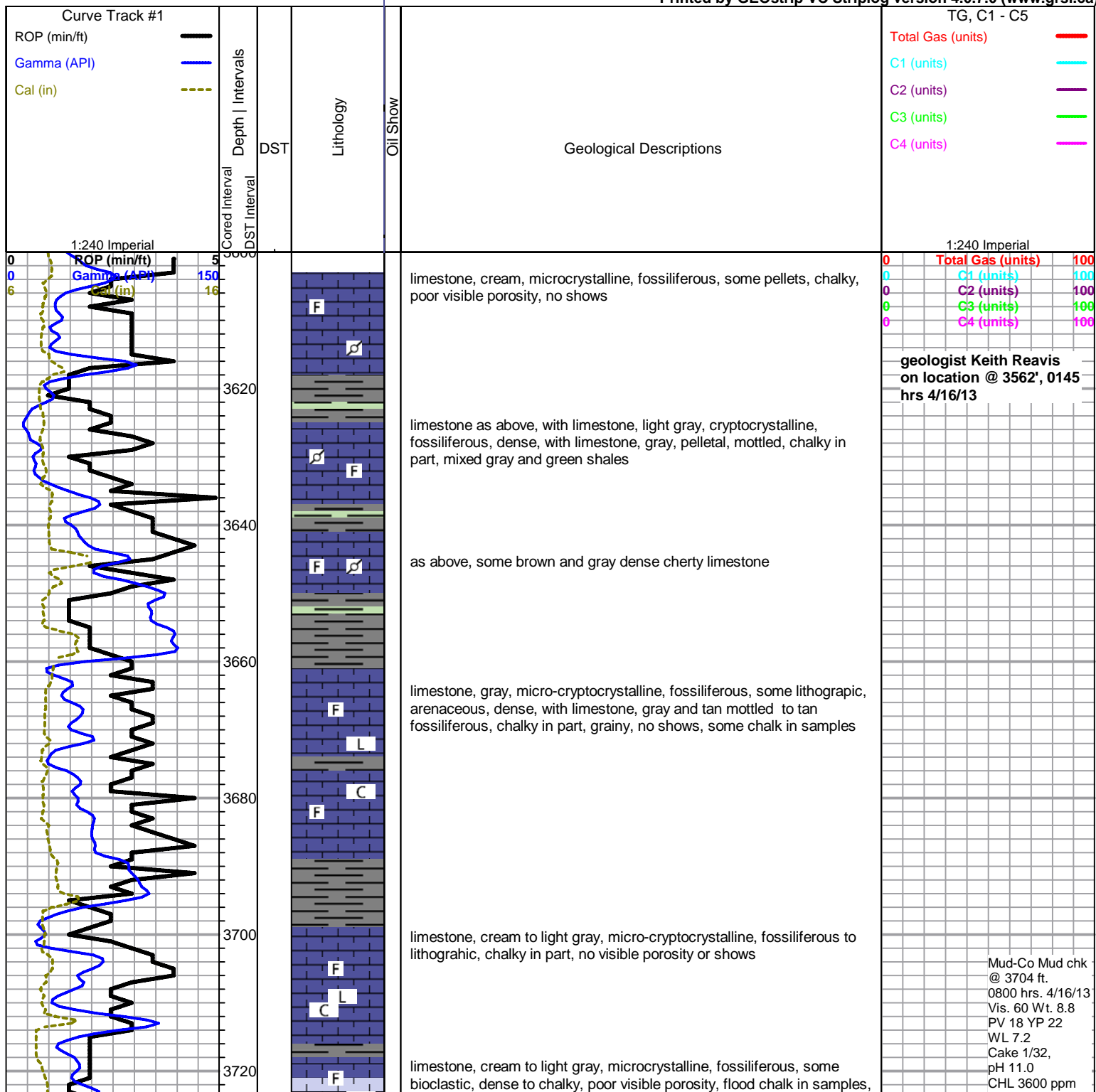
MISC

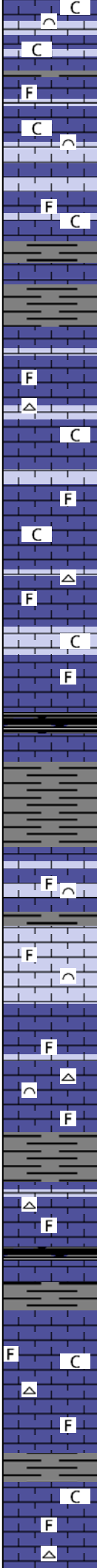
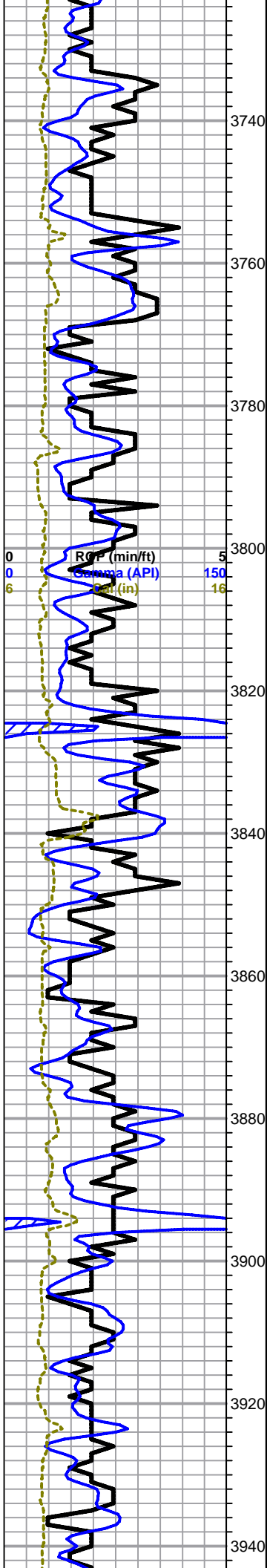
-  Daily Report
-  Digital Photo
-  Document
-  Folder
-  Link
-  Vertical Log File
-  Horizontal Log File
-  Core Log File
-  Drill Cuttings Rpt

DST

-  DST Int
-  DST alt
-  Core
-  tail pipe

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





no shows

as above

limestone, mixed gray to cream and tan, microcrystalline, mostly grainy fossiliferous, chalky, some scattered pinpoint porosity, no shows, abundant chalk in samples, some scattered light gray-gray mottled fossiliferous chert

as above

King Hill 3823 -705 (log 3823 -705)

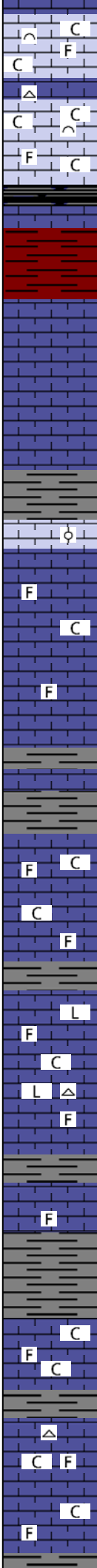
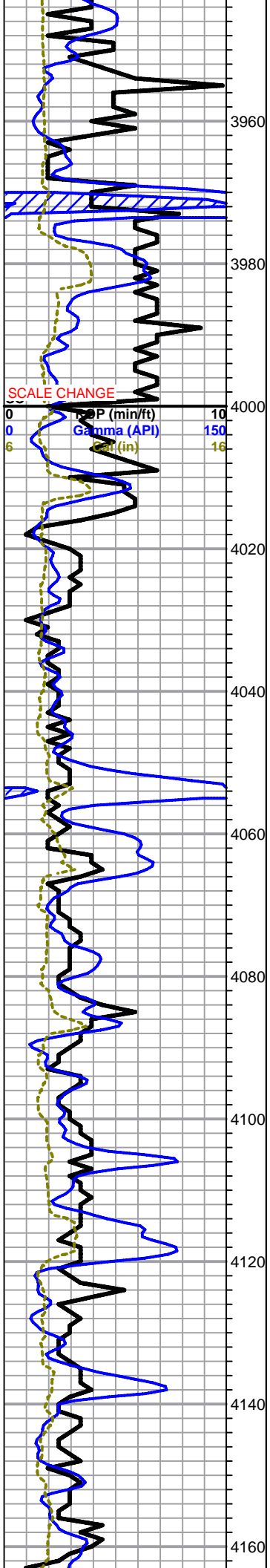
limestone, light gray to cream, microcrystalline, fossiliferous to bioclastic, grainy, chalky, poor overall porosity, abundant chalk, no shows

grades to limestone, light gray, cryptocrystalline, fossiliferous to lithographic, dense, with some scattered light gray chert, no shows

as above, still carrying abundant grainy fossiliferous to bioclastic limestones as from 3840-3860, no shows

limestone, light gray, mixed micro-cryptocrystalline, fossiliferous, dense to chalky, poor visible porosity, some scattered light gray cherts, no shows, moderate chalk in samples

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



limestone, gray to tan and light brown, microcrystalline, grainy fossiliferous to bioclastic, poor visible porosity, flood chalk, appx 40-50% of sample, trace chert, no shows

Heebner 3969 -851 (log 3969 -851)

shale, black carbonaceous, trace gray shale, pyritic, some pyrite replaced fossil frags

4000' sample, flood shale, bright brick red/orange, blocky

poor samples after bit trip @ 4009' - no cfs samples here

Lansing 4016 -898 (log 4012 -894)

limestone, some cream oolitic, poor visible porosity, chalky to dense cemented recrystallized oolites, no shows, grades to limestone, mixed cream to gray, microcrystalline, fossiliferous, abundant chalk in samples, no shows

limestone, light gray, microcrystalline, fossiliferous, chalky, no visible porosity, fairly homogeneous, abundant chalk, trace chert, no shows

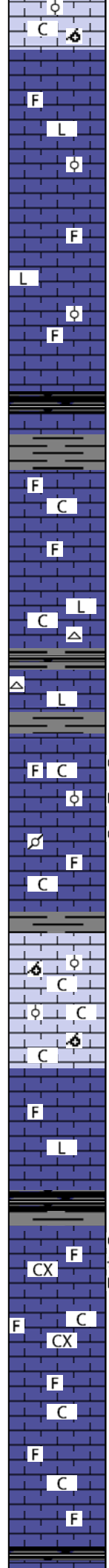
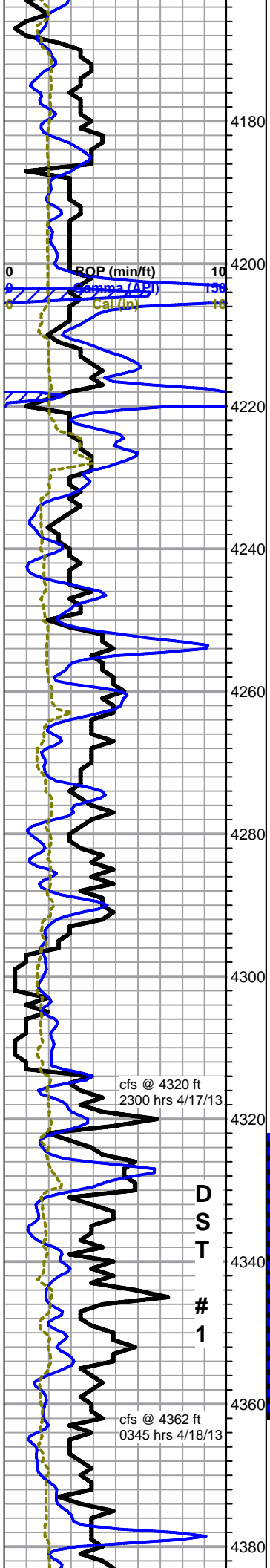
limestone, light gray to cream, micro-cryptocrystalline, fossiliferous to smooth lithographic, chalky in part, no visible porosity or shows

as above

limestone, light gray, micro-cryptocrystalline, fossiliferous, dense to chalky, abundant chalk, trace chert, no shows

0	Total Gas (units)	100
0	bit trip @ 4009 ft	100
0	2215 hrs 4/16/13	100
0	strap .04 ft STB	100
0	deviation 1/4 deg	100

Mud-Co Mud chk @ 4065 ft. 0815 hrs. 4/17/13 Vis. 51 Wt. 9.2 PV 16 YP 18 WL 6.4 Cake 1/32, pH 11.0 CHL 5800 ppm Ca 40 ppm Sol 6.1 LCM 2# DMC \$186.75 CMC \$10490.95



limestone, light gray, oolitic to oomoldic, trace pyritic, some fair mold porosity, abundant chalk, barren

limestone, gray to light gray, cryptocrystalline, fossiliferous to lithographic, dense, limestone, cream, micro-cryptocrystalline, fossiliferous to lithographic, some oolitic, chalky, no shows

as above

Muncie Creek 4218 -1100 (log 4216 -1098)

shale, black carbonaceous

limestone, gray, microcrystalline, fossiliferous, some large clasts, dense, some slight sucrosic texture (not dolomitic), dense, with limestone, cream, microcrystalline, fossiliferous, chalky, no visible porosity, no shows

grades to limestone, cream to white, cryptocrystalline, slightly fossiliferous, fairly chalky, no porosity, some scattered white fresh chert, no shows

mixed limestones, cream to light gray, micro-cryptocrystalline, fossiliferous to lithographic, limestone, light gray, chalky, arenaceous, limestone, gray, grainy fossiliferous to pelletal, scattered show in limestone, gray-cream grainy foss to oolitic, some pinpoint porosity, mostly chalk filled, slight film on water, slight stain, some heavy/scaley oil on break, faint odor, few specimens with slow milky blueish/white cut, some with no cut, overall fairly even mineral fluorescence in tray, abundant chalk

limestone, light gray to tan and cream, oomoldic, some oolitic, good large oomold porosity, some interconnecting, some chalk filled, flood chalk in samples, barren, good even yellow/green mineral fluorescence, strong sour odor

limestone, gray to cream, cryptocrystalline, fossiliferous to lithographic, dense, carrying abundant oom/ool limestone and chalk from above

Stark Shale 4330 -1212 (log 4327 -1209)

limestone, light gray to gray, crypto-microcrystalline, fossiliferous, fairly dense, variable solution etching to large solution vugs, secondary calcite in vug walls, brown staining along etching and through vugs, bleeding gas, show heavy free oil on break, fair-weak odor, good even green mineral fluorescence, slow to fast bright white streaming cut with halo

4360 sample and cfs, a.a., decreasing show, influx cream chalky limestone, trace staining, abundant chalk, some staining in chalk, still faint to fleeting odor

limestone, mixed gray to cream and white, fossiliferous, chalky to dense, abundant chalk, abundant red shale and trip trash

limestone, light gray, cryptocrystalline, lithographic to fossiliferous

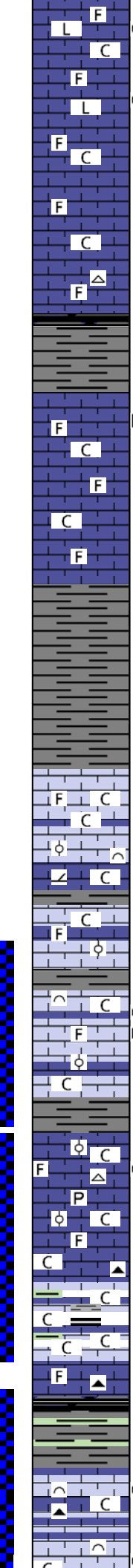
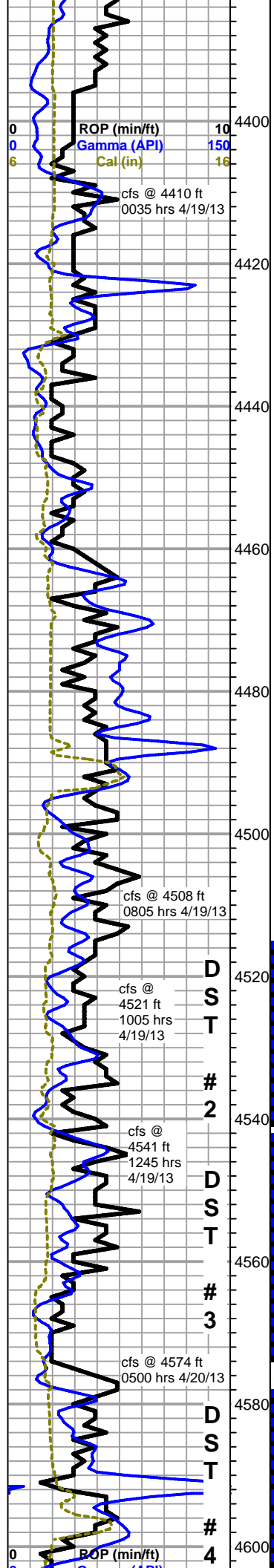
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

questionable drill time from 4320-29' - weight indicator not working, water in lines, shut down at 4329' and fix

K-2 Farms 1-17 dst 1.jpg

NOTE: DST results and charts printed at bottom of report

Mud-Co Mud chk @ 4362 ft. 1445 hrs. 4/18/13 Vis. 47 Wt. 9.4 PV 12 YP 16 WL 8.0 Cake 1/32, pH 10.0 CHL 4000 ppm Ca 40 ppm



limestone, light gray, cryptocrystalline, micrographic to fossiliferous, 2 pieces with light brown stain, no show free oil, faint sour brackish odor

Sol 7.6 LCM 1#
DMC \$995.85
CMC \$11486.80

4410 sample, a.a. with limestone, gray to tan mottled, microcrystalline, fossiliferous, some large clasts, very dense, found 2 pieces with some small stained vugs, trace gas bubbles, 1 piece had a dark tarry oil on break (very dense), overall good mineral fluorescence in tray, 2 show pieces had light fluorescence, fair slow streaming white cut, no odor in wet cup

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

cfs samples grades back to limestone, light gray, cryptocrystalline, lithographic to fossiliferous, limestone, light gray to cream, chalky fossiliferous, poor visible porosity, abundant chalk, no show or odor

as above, some light gray fossiliferous chert

limestone, mixed cream to gray, micro-cryptocrystalline, chalky fossiliferous, some mottled pelletal, 1 small cryptocrystalline chip and one partial ammonite clast with clingy tarry oil in 4470 sample, no other shows, no odor in wet cups, poor overall visible porosity, abundant chalk

Base KC 4465 -1347 (log 4468 -1350)

only some scattered shales in samples, slight gray wash

Marmaton 4491 -1373 (log 4493 -1375)

limestone, light gray to cream and white, fossiliferous to oolitic/bioclastic, chalky, some gray chalky pelletal, some dense brown microcrystalline oolitic, light gray soft arenaceous limestone, abundant chalk, no shows

cfs samples, a.a., flood chalk, heavy chalky wash, some gray fine crystalline dolomitic limestone, dense, no shows

limestone, mixed, cream to white and light gray, bioclastic to oolitic, tan to cream cryptocrystalline fossiliferous, dense, gray microcrystalline to arenaceous dolomitic limestone, some pyritic, poor porosity, abundant chalk in samples, no shows

as above with chalky weathered white-cream fossiliferous, lt. brown sat. stain, slight show free oil on break, trace oolitic, white, some interoolite porosity, black inter oolite stain, some light gray cryptocrystalline with edge etching and stain, slight show free oil in wet cup, fleeting odor, fair mineral fluorescence, variable cut -excellent bright white with halo to fair slow

4550 sample, trip trash, poor samples

4560 sample, mixed, tan-cream-white, microcrystalline, chalky fossiliferous to oolitic, limestone, gray, microcrystalline, dense fossiliferous to arenaceous, gray cryptocrystalline lithographic, brown dense fossiliferous - 2 pieces light gray cryptocrystalline, fractured with solution etching and stain along fractures, breaks easy, sl. show oil, 1 large piece white oolitic, good inter-oolite porosity, good inter-oolite stain, bleeding oil, good to excellent bright milky white cut - fleeting odor in wet cup, abundant chalk, some pyrite nodules and tan and gray opaque chert

4570 and 74 samples, as above, no shows found

30 min cfs marked influx light gray/black, green and brown shale, 60 min sample flood chalk, appx 70% sample

limestone, gray to light brown, dense cherty fossiliferous, some brown chert

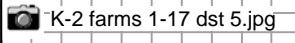
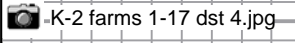
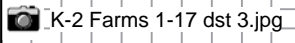
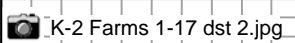
4600 samp, shale, gray, grainy to silty, dense, some green and black carb, 4607 almost all shale in cup

Pawnee 4589 -1471 (log 4600 -1482)

limestone, white to light gray, bioclastic, chalky, grainy, some fair interclast porosity, limestone, gray, cryptocrystalline, dense bioclastic, some gray fossiliferous chert, abundant chalk, some small pieces of chalky bioclastic with dark interclast stain, free oil on break, fair slow milky/green cut with halo, trace free oil in tray, fair green mineral

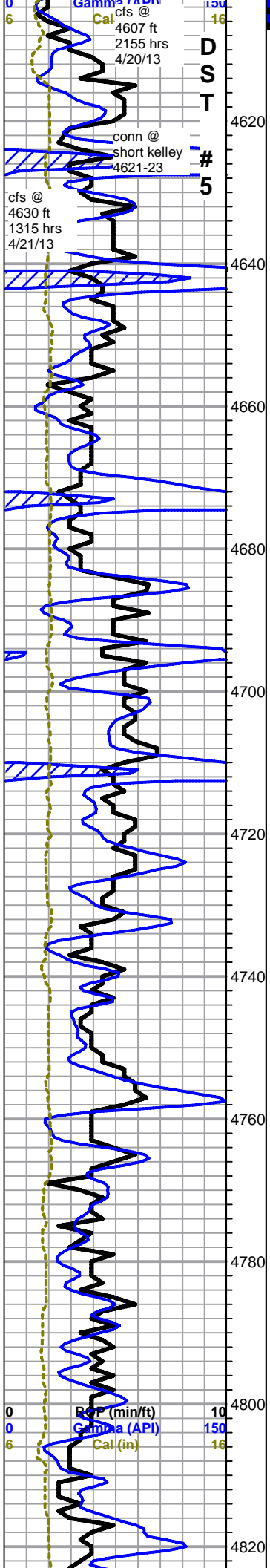
NOTE: DST results and charts printed at bottom of report

Mud-Co Mud chk @ 4504 ft.
0730 hrs. 4/19/13
Vis. 50 Wt. 9.4
PV 10 YP 14
WL 6.4
Cake 1/32,
pH 10.5
CHL 7000 ppm
Ca 80 ppm
Sol 7.4 LCM 1#
DMC \$1759.20
CMC \$13246.00



Mud-Co Mud chk @ 4574 ft.
1425 hrs. 4/20/13
Vis. 42 Wt. 9.5
PV 10 YP 12
WL 8.0
Cake 1/32,
pH 10.5
CHL 9000 ppm
Ca 80 ppm
Sol 8.0 LCM 2#
DMC \$132.30
CMC \$13378.30

0	Total Gas (units)	100
---	-------------------	-----



fluorescence, no odor in wet cup

Fort Scott 4611-1493 (log 4626 -1508)

limestone, tan to gray, homogeneous mature oolitic, cryptocrystalline matrix, dense to chalky, poor visible porosity, trace interoolite stain, chalky pieces almost all have many small oil droplets on break, faint fluorescence, good to fair milky cut with halo, no odor in wet cup - see side column ---->>>

Cherokee 4625 -1507 (log 4640 -1522)

cfs samples, black carbonaceous shale, tan-gry fossiliferous limestone, some gray mottled pelletal, cream chalky fossiliferous, dense gray fossiliferous, no shows

samples after DST, poor, trip trash, mixed limestones and shales, no shows

4660 samp, increase mixed limestone, cream to gray, dense to chalky, fossiliferous, some gray oblong oolitic, abundant black gray and green shale, abundant chalk, some pyrite, no shows

limestone, cream to light gray, microcrystalline, fossiliferous, chalky but dense, mixed very dense gray limestone, fossiliferous to pelletal in part, some grainy, scattered fair mineral fluorescence, scattered cherts, some chalk, mixed black, gray and green shales

as above, increasing shales

limestone, mixed, mostly cream to light gray chalky grainy oolitic to fossiliferous, light gray to tan, cryptocrystalline, dense fossiliferous, mixed shales, some chalk - some gray argillaceous fossiliferous limestone

4740 sample, limestone as above, flood shales

4750 sample, shale and limestones as above, influx black obsidian like chert and brown fossiliferous cherts

limestone, light gray, chalky mixed fossiliferous to oolitic and bioclastic, no visible porosity, limestone, gray to tan, cryptocrystalline, fossiliferous, dense, mixed black, brown and tan cherts, still abundant shales

limestones as above, with influx limestone, gray, cryptocrystalline, lithographic, and dense fossiliferous limestone, gray and brown, some large clasts, slight increase in cherts, some mixed shales

Morrow 4817 -1699 (log 4830 -1712)

still carrying mostly limestone and cherts, 4830 sample, influx some shale. variable pale to bright green. pale gray. light brown. some

0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

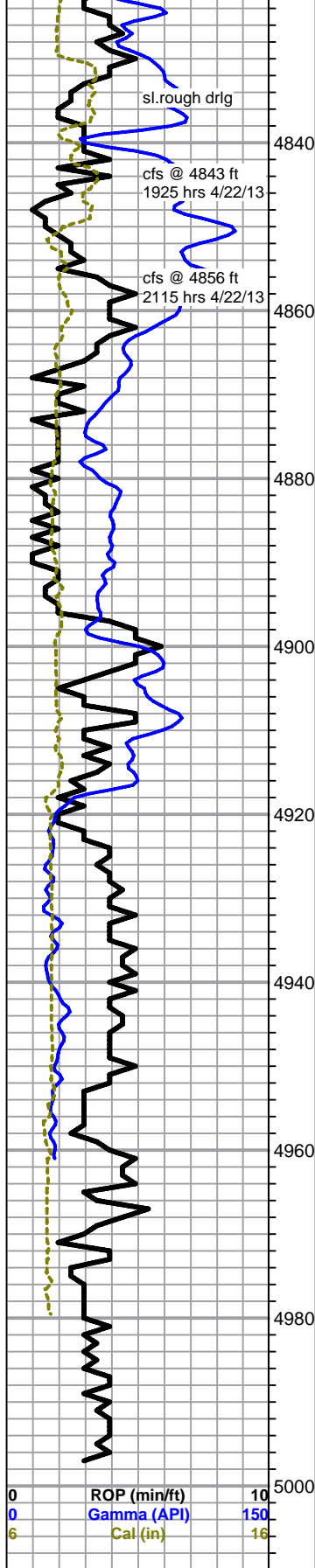
4630 sample - lower Ft. Scott grades to limestone, gray mottled bioclastic, chalky in part, no visible porosity, no show

Mud-Co Mud chk @ 4607 ft.
0745 hrs. 4/21/13
Vis. 42 Wt. 9.2
PV 10 YP 12
WL 6.4
Cake 1/32,
pH 10.5
CHL 6500 ppm
Ca 80 ppm
Sol 6.6 LCM 1#
DMC \$713.65
CMC \$14091.95

NOTE: DST results and charts printed at bottom of report

Mud-Co Mud chk @ 4744 ft.
1230 hrs. 4/22/13
Vis. 52 Wt. 9.3
PV 16 YP 18
WL 7.2
Cake 1/32,
pH 10.5
CHL 6000 ppm
Ca 80 ppm
Sol 6.8 LCM 2#
DMC \$866.55
CMC \$14958.50

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



weathered gray mottled fossiliferous limestone, speckled gray fossiliferous/spiculitic cherts

increasing shales, pale green, silty, dark green mottled, gray, light brown and black, still mostly limestone and chert as above in samples

shales as above, some fossiliferous, some laminated green/black, some pyrite, still carrying mostly limestones as above and abundant black chert

shales as above, abundant pyrite nodules

4910 samp influx sandstone, dirty gray, very fine grain, sub-round to sub-angular, fair sorting, silty, dolomitic, fairly cemented, no shows

4920 sample slight increase in sandstone, increase pyrite nodules, note some bryozoan stems

Mississippian 4923 -1805 (log 4917 -1799)

limestone, white to light gray, sandy micro-oolitic, chalky to very chalky, no shows

as above with limestone, light gray to cream, sub-mature to mature medium oolitic, some sand grains, chalky, poor visible porosity, no shows

as above, abundant chalk

grades to mix of appx 50/50 above limestone facies with influx of some tan to light gray, fine mature oolitic, very dense, some light gray cryptocrystalline flattened oolitic, abundant chalk, flood shale in 60 min sample, no shows

Rotary TD 4997 ft @ 0630 hrs, 4/23/13
Nabors Log TD 4998 ft.
Complete Logging Operations 1800 hrs 4/23/13

Mud-Co Mud chk @ 4993 ft.
0615 hrs. 4/23/13
Vis. 56 Wt. 9.4
PV 17 YP 21
WL 8.8
Cake 1/32,
pH 10.0
CHL 5800 ppm
Ca 60 ppm
Sol 7.4 LCM 3#
DMC \$1363.10
CMC \$16321.60

deviation survey 1/2 deg

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100

DRILL STEM TEST REPORT

Abercrombie Energy, LLC
 10209 W. Central STE 2
 Wichita, Ks 67212
 ATTN: Keith Reavis

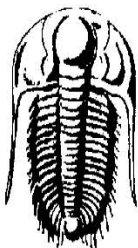
17 20s 34w Scott Ks

K-2 Farms 1-17

Job Ticket: 49168

DST#: 1

Test Start: 2013.04.18 @ 10:03:00



**TRILOBITE
 TESTING, INC.**

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:04:15

Time Test Ended: 18:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4322.00 ft (KB) To 4362.00 ft (KB) (TVD)

Total Depth: 4322.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3118.00 ft (KB)

3109.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

Press@RunDepth: 781.19 psig @ 4323.00 ft (KB)

Start Date: 2013.04.18

End Date: 2013.04.18

Start Time: 10:03:05

End Time: 18:04:59

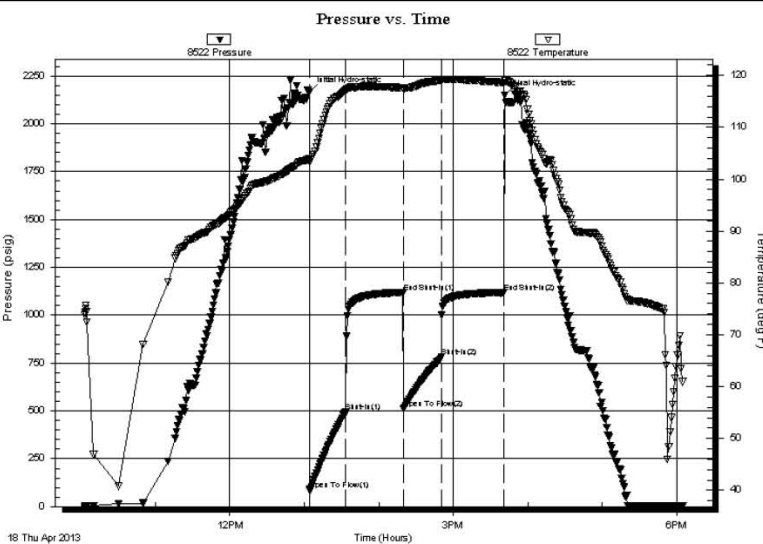
Capacity: 8000.00 psig

Last Calib.: 2013.04.18

Time On Btm: 2013.04.18 @ 13:03:45

Time Off Btm: 2013.04.18 @ 15:41:45

TEST COMMENT: IF: BOB @ 1 3/4 min.
 IS: No return.
 FF: BOB @ 3 min.
 FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.12	103.89	Initial Hydro-static
1	84.71	103.38	Open To Flow (1)
30	495.46	117.10	Shut-in(1)
76	1118.06	117.57	End Shut-in(1)
76	509.36	117.32	Open To Flow (2)
107	781.19	119.03	Shut-in(2)
158	1119.31	118.60	End Shut-in(2)
158	2148.34	118.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1620.00	mcw 5m 95w	15.96

Gas Rates

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

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17 20s 34w Scott Ks

10209 W. Central STE 2
Wichita, Ks 67212

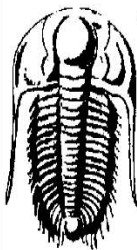
K-2 Farms 1-17

Job Ticket: 49169

DST#: 2

ATTN: Keith Reavis

Test Start: 2013.04.19 @ 15:55:00



TRILOBITE
TESTING, INC

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:13:15

Time Test Ended: 23:57:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: **4515.00 ft (KB) To 4541.00 ft (KB) (TVD)**

Total Depth: 4541.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3118.00 ft (KB)

3109.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **8522** Outside

Press@RunDepth: 109.25 psig @ 4516.00 ft (KB)

Start Date: 2013.04.19

End Date: 2013.04.19

Start Time: 15:55:05

End Time: 23:57:29

Capacity: 8000.00 psig

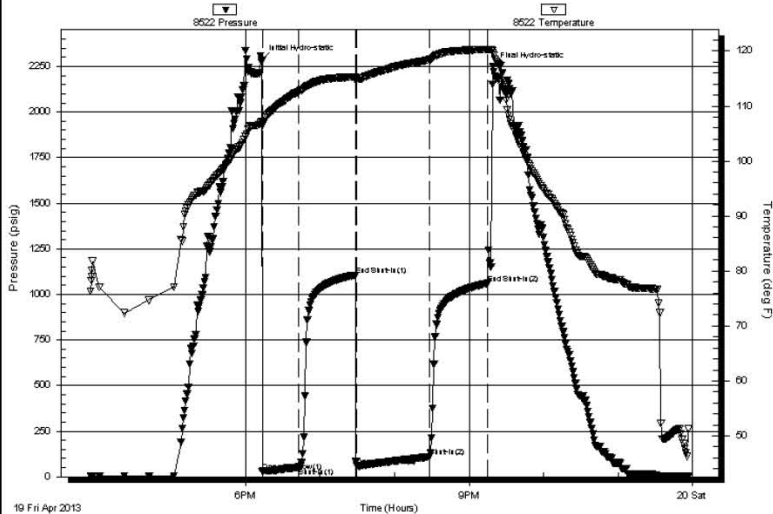
Last Calib.: 2013.04.19

Time On Btm: 2013.04.19 @ 18:13:00

Time Off Btm: 2013.04.19 @ 21:19:15

TEST COMMENT: IF: BOB @ 8 min.
IS: 5" return.
FF: BOB @ 5 min.
FSI: 3" return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2286.01	107.14	Initial Hydro-static
1	26.68	106.47	Open To Flow (1)
30	53.38	112.63	Shut-In(1)
76	1105.99	115.30	End Shut-In(1)
77	58.52	115.01	Open To Flow (2)
135	109.25	118.43	Shut-In(2)
182	1060.41	120.24	End Shut-In(2)
187	2246.95	119.57	Final Hydro-static

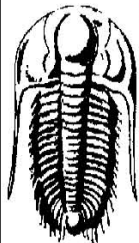
Recovery

Length (ft)	Description	Volume (bbl)
120.00	gmco 35g 15m 50o	1.04
115.00	gsmco 35g 5m 60o	1.14
0.00	1150 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Abercrombie Energy, LLC

17 20s 34w Scott Ks

10209 W. Central STE 2
Wichita, Ks 67212

K-2 Farms 1-17

ATTN: Keith Reavis

Job Ticket: 49170

DST#: 3

Test Start: 2013.04.20 @ 08:23:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:50:45

Time Test Ended: 16:00:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4552.00 ft (KB) To 4574.00 ft (KB) (TVD)

Reference Elevations: 3118.00 ft (KB)

Total Depth: 4574.00 ft (KB) (TVD)

3109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

Press@RunDepth: 44.29 psig @ 4543.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.20

End Date: 2013.04.20

Last Calib.: 2013.04.20

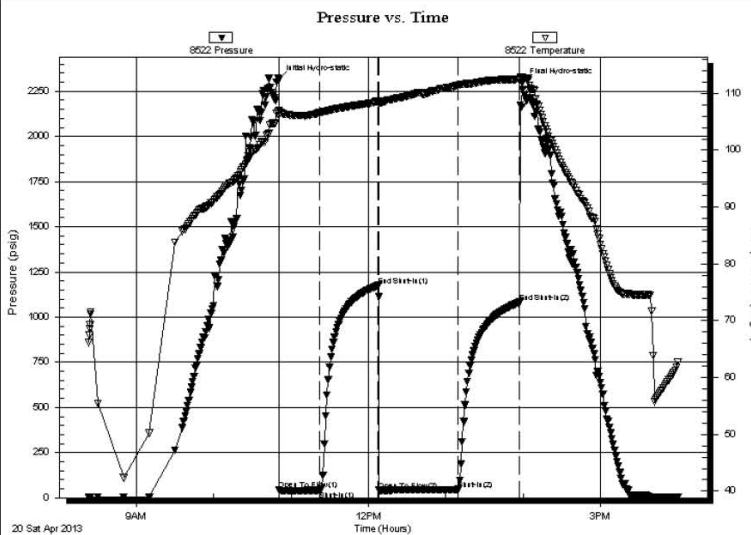
Start Time: 08:23:05

End Time: 15:59:59

Time On Btm: 2013.04.20 @ 10:50:30

Time Off Btm: 2013.04.20 @ 13:59:00

TEST COMMENT: IF: 1 1/2" blow.
IS: No return.
FF: Surface blow.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2314.37	106.93	Initial Hydro-static
1	43.75	106.14	Open To Flow (1)
32	40.97	106.69	Shut-In(1)
77	1174.47	108.64	End Shut-In(1)
78	41.84	108.32	Open To Flow (2)
139	44.29	111.40	Shut-In(2)
187	1082.99	112.49	End Shut-In(2)
189	2294.55	112.92	Final Hydro-static

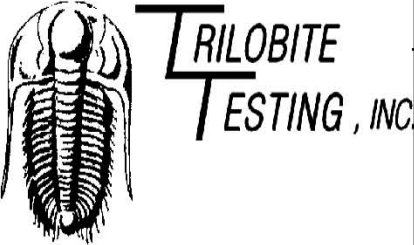
Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100m (oil spots)	0.35

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Abercrombie Energy, LLC

10209 W. Central STE 2
Wichita, Ks 67212

ATTN: Keith Reavis

17 20s 34w Scott Ks

K-2 Farms 1-17

Job Ticket: 49171 **DST#: 4**

Test Start: 2013.04.21 @ 01:32:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:49:45

Time Test Ended: 08:38:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4578.00 ft (KB) To 4607.00 ft (KB) (TVD)

Reference Elevations: 3118.00 ft (KB)
3109.00 ft (CF)

Total Depth: 4607.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

Press@RunDepth: 41.50 psig @ 4579.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.21 End Date: 2013.04.21

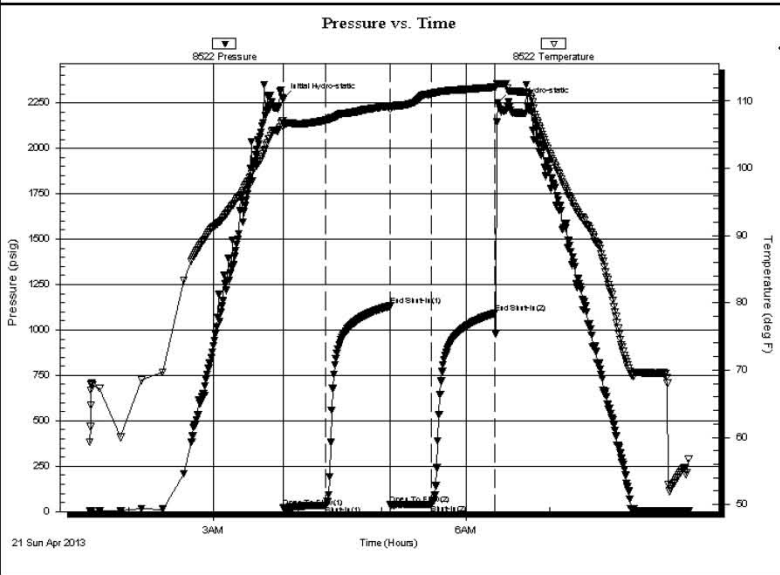
Start Time: 01:32:05 End Time: 08:38:29

Last Calib.: 2013.04.21

Time On Btm: 2013.04.21 @ 03:49:30

Time Off Btm: 2013.04.21 @ 06:22:45

TEST COMMENT: IF: 1" blow .
ISI: No return.
FF: No blow .
FSI: No return.

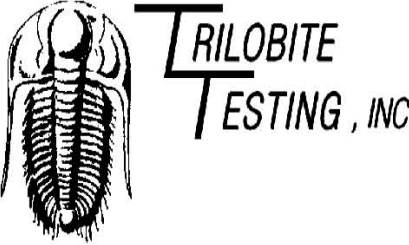


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.24	107.10	Initial Hydro-static
1	21.53	106.16	Open To Flow (1)
31	35.22	107.18	Shut-In(1)
77	1131.25	109.28	End Shut-In(1)
77	37.03	108.78	Open To Flow (2)
106	41.50	111.11	Shut-In(2)
151	1091.20	112.11	End Shut-In(2)
154	2249.40	112.62	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
45.00	Mud 100m (oil spots)	0.30

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Abercrombie Energy, LLC

10209 W. Central STE2
Wichita, Ks 67212

ATTN: Keith Reavis

17 20s 34w Scott Ks

K-2 Farms 1-17

Job Ticket: 49172 **DST#: 5**

Test Start: 2013.04.21 @ 16:33:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:48:45

Time Test Ended: 23:21:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4607.00 ft (KB) To 4630.00 ft (KB) (TVD)

Reference Elevations: 3118.00 ft (KB)

Total Depth: 4630.00 ft (KB) (TVD)

3109.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

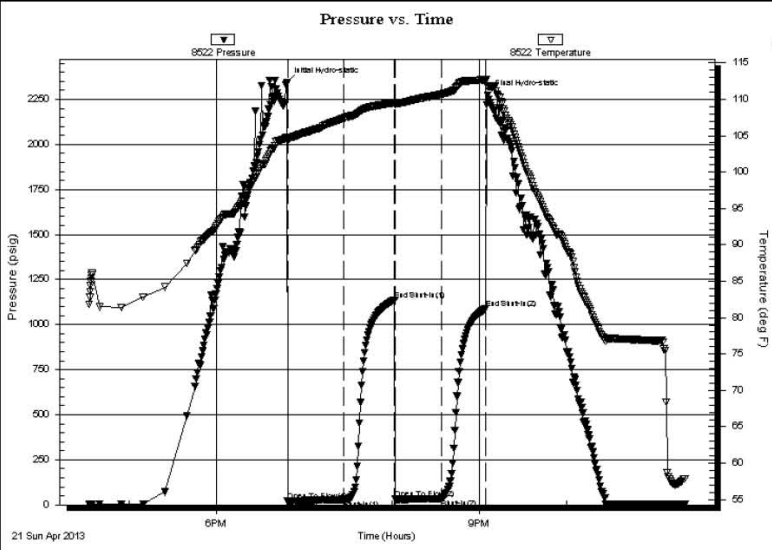
Press@RunDepth: 34.12 psig @ 4608.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2013.04.21 End Date: 2013.04.21 Last Calib.: 2013.04.21

Start Time: 16:33:05 End Time: 23:21:14 Time On Btm: 2013.04.21 @ 18:48:30

Time Off Btm: 2013.04.21 @ 21:05:45

TEST COMMENT: IF: No blow , Flushed tool, Surge died.
 IS: No return.
 FF: No blow .
 FS: No return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2341.33	104.80	Initial Hydro-static
1	20.14	104.20	Open To Flow (1)
39	29.24	107.40	Shut-In(1)
74	1137.42	109.54	End Shut-In(1)
74	32.21	109.29	Open To Flow (2)
106	34.12	110.71	Shut-In(2)
136	1087.60	112.69	End Shut-In(2)
138	2274.70	111.75	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	w cm 30w 70m (oil spots)	0.10

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

* Recovery from multiple tests