



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1079385  
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
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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: \_\_\_\_\_

1079385

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Abercrombie Energy, LLC
Well Name	Vogel 3-24
Doc ID	1079385

Tops

Name	Top	Datum
Anhydrite	1885	+742
Base/Anhydrite	1925	+702
Heebner Shale	3931	-1304
Lansing	3974	-1343
Stark Shale	4231	-1604
Base/Kansas City	4305	-1678
Marmatohn	4346	-1719
Pawnee	4430	-1803
Ft. Scott	4485	-1858
Cherokee Shale	4508	-1881
Mississippi Lime	4576	-1949
Mississippi Dolomite	4580	-1953

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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

May 10, 2012

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

Re: ACO1  
API 15-135-25373-00-00  
Vogel 3-24  
NW/4 Sec.24-19S-26W  
Ness 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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Abercrombie Energy  
 10209 W Central Ste 2  
 Wichita, Ks 67212  
 ATTN: Mike Maune

**24-19-26 Ness, Ks**  
**Vogel 3-24**  
 Job Ticket: 45050      **DST#: 1**  
 Test Start: 2012.04.19 @ 04:44:44

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 07:29:54  
 Tester: Brandon Turley  
 Time Test Ended: 14:23:54  
 Unit No: 60  
 Interval: **4528.00 ft (KB) To 4585.00 ft (KB) (TVD)**  
 Reference Elevations: 2632.00 ft (KB)  
 Total Depth: 4585.00 ft (KB) (TVD)  
 2622.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 10.00 ft

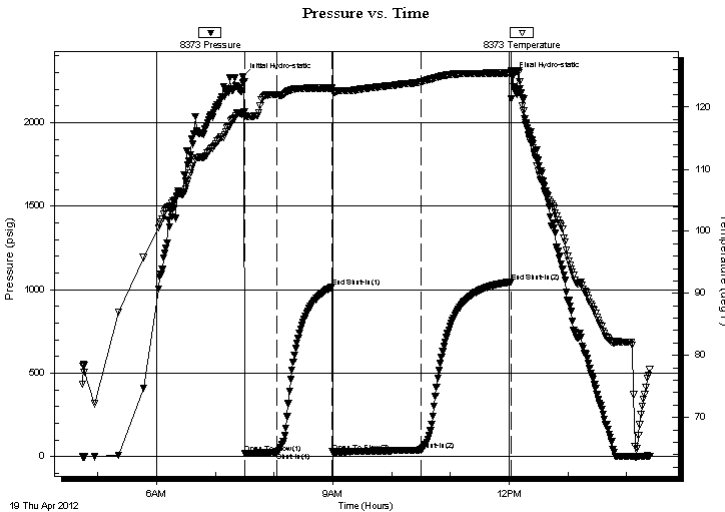
## Serial #: 8373

Inside

Press @ Run Depth: 40.89 psig @ 4529.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.04.19      End Date: 2012.04.19      Last Calib.: 2012.04.19  
 Start Time: 04:44:44      End Time: 14:23:54      Time On Btm: 2012.04.19 @ 07:28:09  
 Time Off Btm: 2012.04.19 @ 12:03:23

TEST COMMENT: IF: Surface blow built to 1 1/2.  
 IS: No return.  
 FF: Surface blow built to 3 1/2.  
 FS: No retrun.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.99	118.93	Initial Hydro-static
2	19.30	118.55	Open To Flow (1)
35	26.56	122.01	Shut-In(1)
91	1014.82	123.04	End Shut-In(1)
92	27.47	122.55	Open To Flow (2)
182	40.89	124.05	Shut-In(2)
274	1046.18	125.51	End Shut-In(2)
276	2273.05	125.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	gocm 5%g 35%o 60%m	0.87
0.00	31 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abercrombie Energy

**24-19-26 Ness, Ks**

10209 W Central Ste 2  
Wichita, Ks 67212

**Vogel 3-24**

Job Ticket: 45050

**DST#: 1**

ATTN: Mike Maune

Test Start: 2012.04.19 @ 04:44:44

## 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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	gocm 5%g 35%o 60%m	0.870
0.00	31 GIP	0.000

Total Length: 62.00 ft      Total Volume: 0.870 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

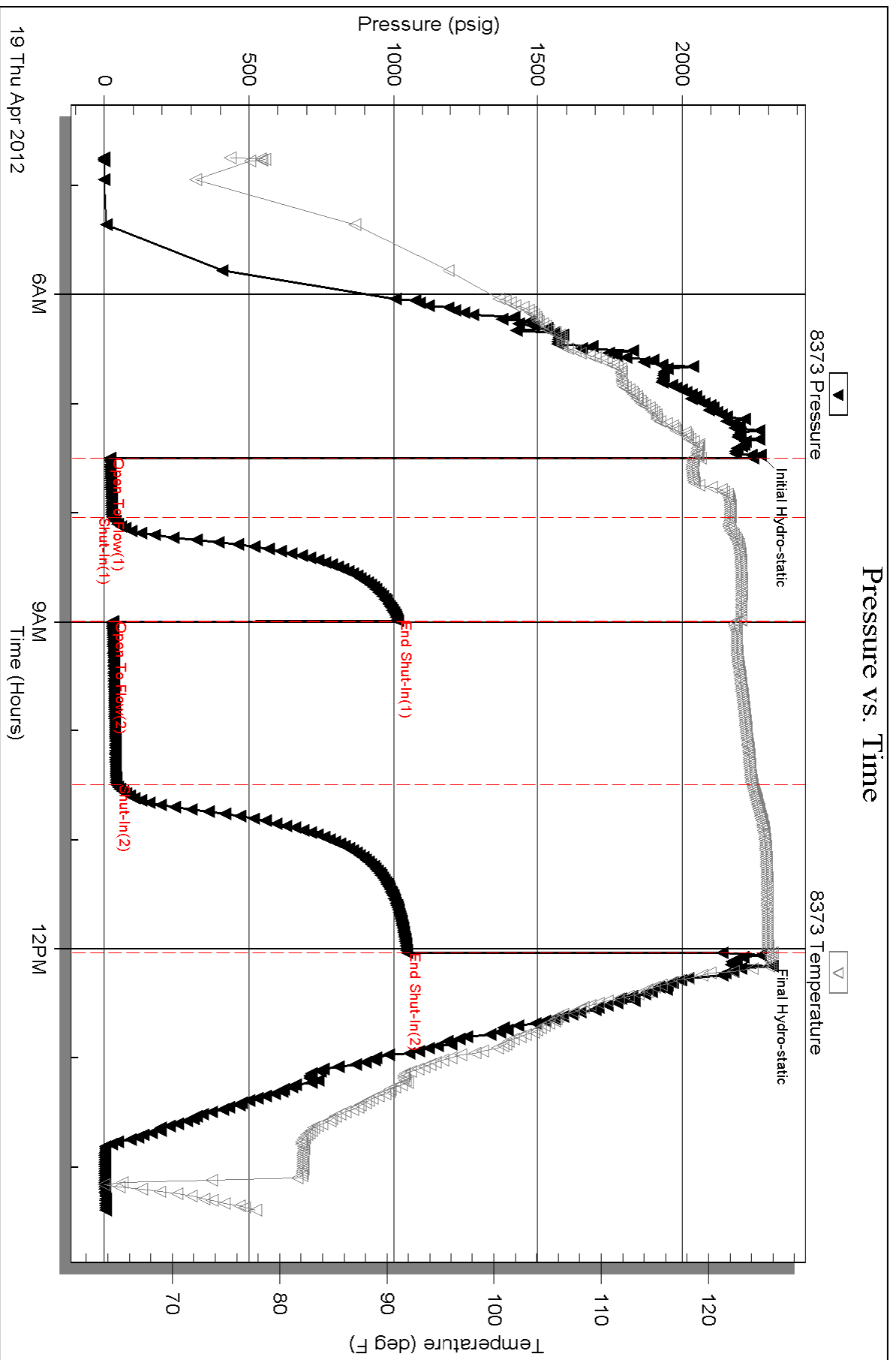
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Abercrombie Energy  
 10209 W Central Ste 2  
 Wichita, Ks 67212  
 ATTN: Mike Maune

**24-19-26 Ness, Ks**  
**Vogel 3-24**  
 Job Ticket: 46501      **DST#: 2**  
 Test Start: 2012.04.19 @ 22:22:16

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:12:11  
 Time Test Ended: 07:05:11  
 Interval: **4584.00 ft (KB) To 4590.00 ft (KB) (TVD)**  
 Total Depth: 4590.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2632.00 ft (KB)  
 2622.00 ft (CF)  
 KB to GR/CF: 10.00 ft

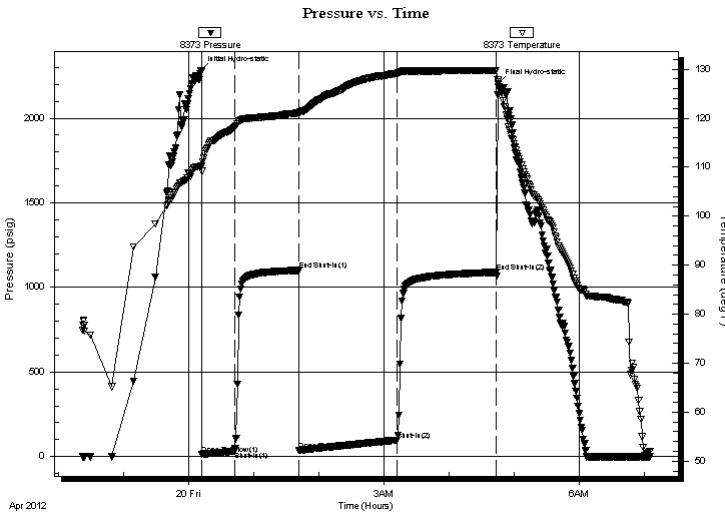
## Serial #: 8373

Inside

Press @ Run Depth: 97.54 psig @ 4585.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.04.19 End Date: 2012.04.20 Last Calib.: 2012.04.20  
 Start Time: 22:22:16 End Time: 07:05:11 Time On Btm: 2012.04.20 @ 00:10:56  
 Time Off Btm: 2012.04.20 @ 04:44:55

TEST COMMENT: IF: BOB in 24 min.  
 IS: No return.  
 FF: BOB in 25 min.  
 FS: Surface blow died in 30 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2282.31	110.18	Initial Hydro-static
2	15.14	109.14	Open To Flow (1)
32	33.60	118.14	Shut-In(1)
91	1100.68	121.08	End Shut-In(1)
91	37.67	120.78	Open To Flow (2)
182	97.54	129.18	Shut-In(2)
273	1089.48	129.74	End Shut-In(2)
274	2202.19	127.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	mco 10%g 50%o 40%m	0.87
144.00	go 10%g 90%o	2.02
0.00	310 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abercrombie Energy

**24-19-26 Ness, Ks**

10209 W Central Ste 2  
Wichita, Ks 67212

**Vogel 3-24**

Job Ticket: 46501

**DST#: 2**

ATTN: Mike Maune

Test Start: 2012.04.19 @ 22:22:16

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	mcgo 10%g 50%o 40%m	0.870
144.00	go 10%g 90%o	2.020
0.00	310 GIP	0.000

Total Length: 206.00 ft      Total Volume: 2.890 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

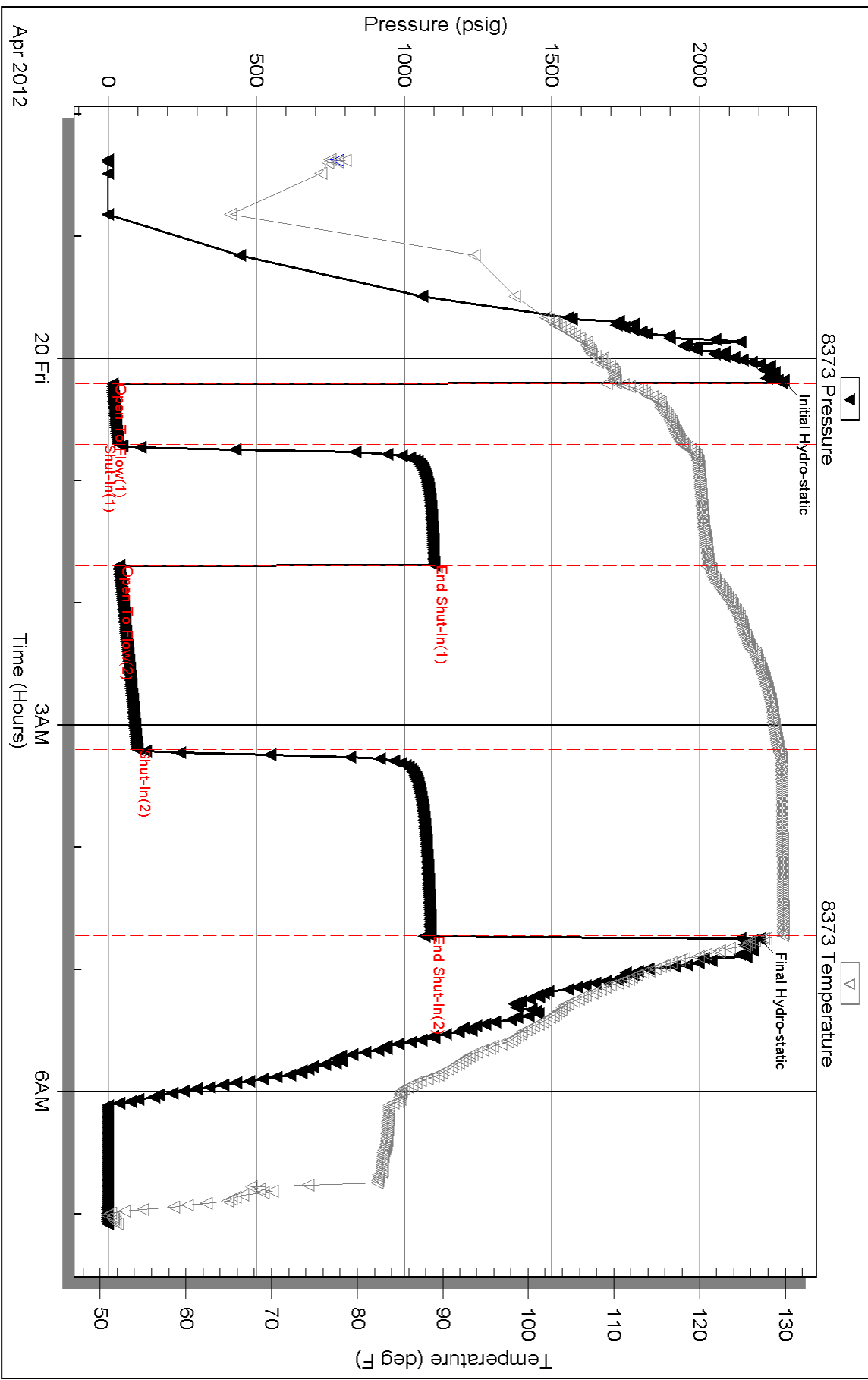
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 38@50=39

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Abercrombie Energy  
10209 W Central Ste 2  
Wichita, Ks 67212  
ATTN: Mike Maune

**24-19-26 Ness, Ks**

**Vogel 3-24**

Job Ticket: 46502

**DST#: 3**

Test Start: 2012.04.20 @ 16:12:39

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:47:34  
 Time Test Ended: 01:25:34  
 Interval: **4589.00 ft (KB) To 4595.00 ft (KB) (TVD)**  
 Total Depth: 4595.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2632.00 ft (KB)  
 2622.00 ft (CF)  
 KB to GR/CF: 10.00 ft

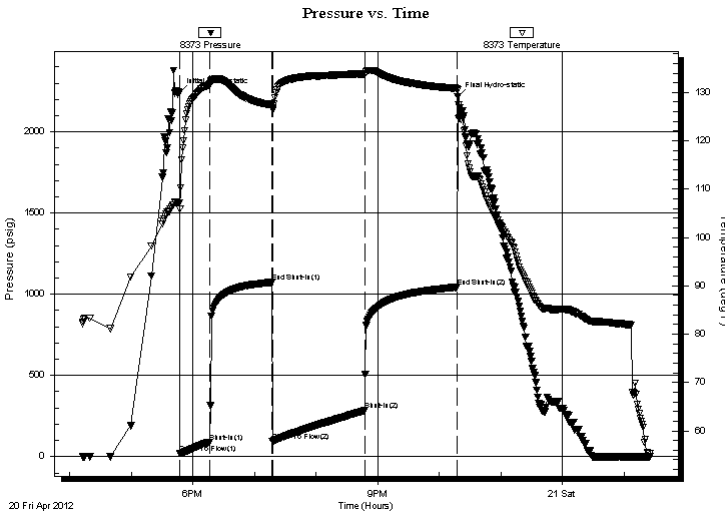
## Serial #: 8373

**Inside**

Press @ Run Depth: 284.52 psig @ 4590.00 ft (KB)  
 Start Date: 2012.04.20 End Date: 2012.04.21  
 Start Time: 16:12:39 End Time: 01:25:34  
 Capacity: 8000.00 psig  
 Last Calib.: 2012.04.21  
 Time On Btm: 2012.04.20 @ 17:47:04  
 Time Off Btm: 2012.04.20 @ 22:18:03

**TEST COMMENT:** IF: BOB in 7 1/2 min.  
 IS: Surface blow built to 4 in 60 min.  
 FF: BOB in 10 min.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.54	107.11	Initial Hydro-static
1	19.60	105.90	Open To Flow (1)
30	91.47	131.65	Shut-In(1)
90	1073.85	127.36	End Shut-In(1)
91	94.75	126.73	Open To Flow (2)
181	284.52	133.74	Shut-In(2)
271	1043.81	130.82	End Shut-In(2)
271	2217.72	130.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	gocm 20%g 20%o 60%m	0.87
692.00	go 15%g 85%o	9.71
0.00	248 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Abercrombie Energy

**24-19-26 Ness, Ks**

10209 W Central Ste 2  
Wichita, Ks 67212

**Vogel 3-24**

Job Ticket: 46502

**DST#: 3**

ATTN: Mike Maune

Test Start: 2012.04.20 @ 16:12:39

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	gocm 20%g 20%o 60%m	0.870
692.00	go 15%g 85%o	9.707
0.00	248 GIP	0.000

Total Length: 754.00 ft      Total Volume: 10.577 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 37@40=39

Serial #: 8373

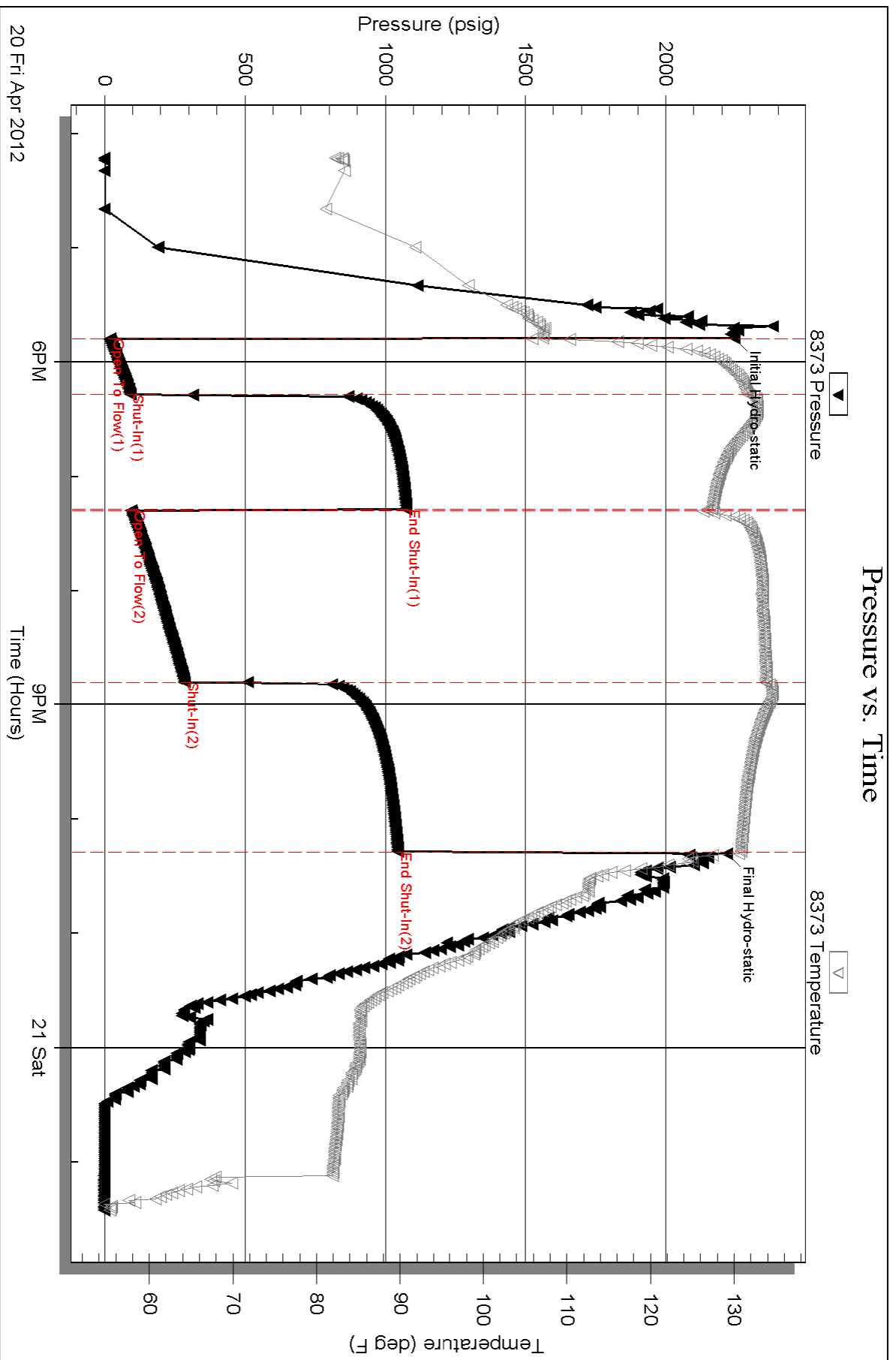
Inside

Abercrombie Energy

Vogel 3-24

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46502

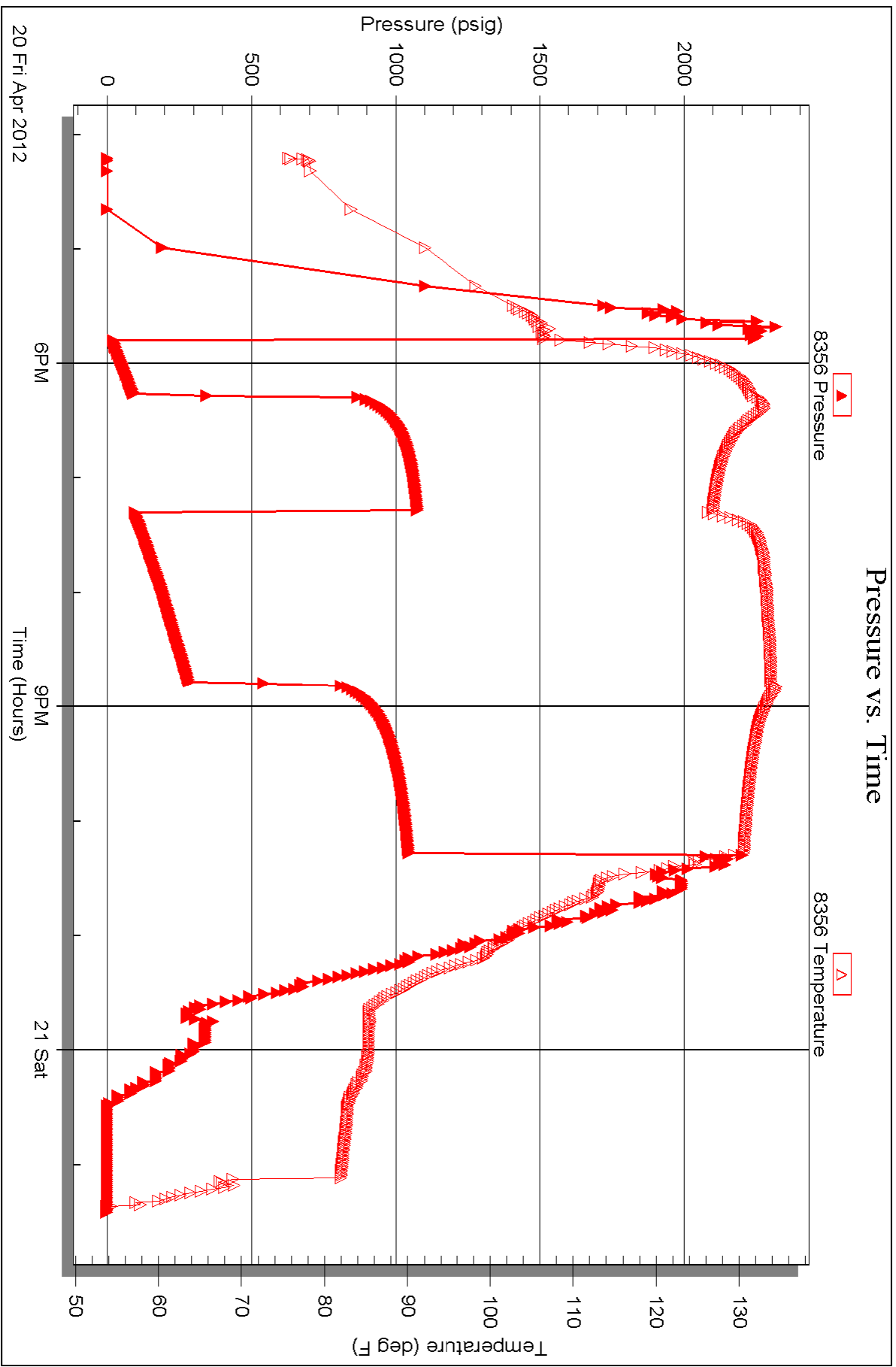
Printed: 2012.04.21 @ 08:17:38

Serial #: 8356

Abercrombie Energy

Vogel 3-24

DST Test Number: 3



# LITHOLOGY STRIP LOG

## WellSight Systems

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Abercrombie Energy, LLC. Vogel #3-24  
Location: NW NW NW Section 24-T19S-R26W  
License Number: API: 15-135-25373  
Spud Date: April 12, 2012  
Surface Coordinates: 330 FNL & 330 FWL Section 24-T19S-R26W  
Region: Ness Co, KS  
Drilling Completed: April 20, 2012

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 2618 K.B. Elevation (ft): 2627  
Logged Interval (ft): 3800 To: 4595 Total Depth (ft): 4595  
Formation: Mississippian, RTD 4595 (-1968), LTD  
Type of Drilling Fluid: Chemical. Displaced at 3626'.

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR

Company: Abercrombie Energy, LLC  
Address: 10209 W. Central, Ste 2  
Wichita, KS 67212

### GEOLOGIST

Name: Mikeal K. Maune  
Company: Consulting Petroleum Geologist - Kansas Licensed No. 210  
Address: Wichita, Kansas  
Office: 316-722-8173

### COMMENTS

Surface Casing: 8 5/8" set @ 261' w/ 170 sks. Common 3% cc, 2% gel, cement did circulate. Plug down @ 3 am 4/13/12.

Production Casing: New 15.5# 5 1/2" casing set @ 4582'. Cemented bottom stage w/150 sks. Class A ASC, 10% Salt, 5% Coal Seal, 2% Gel. Cemented top stage w/400 sks. 60/40, 8% Gel, 3% CC, 1/4# Flow seal. Rat Hole 30 sks. Mousehole 20sks. DV tool set @ 1897'. Plug down @ 12:30 am 4/22/2012. Job by Allied Cement.

Deviation Surveys: 3/4 @ 265', 3/4 @4585'.

Pipe Strap @ 4585. Board 4594.23'. Strap 4593.59'. Strap short to Board .64'.

Val Energy Rig #4 Bit Record:

#1 12 1/4" JZ Rock in @ GL, out @ 265'.

#2 7 7/8" JZ QX21 in @ 265', out @ 4595'.

Mud System: Mud-CO/Service Mud

DSTs: Trilobite Testing Inc. (3 Dsts)

OH Logs: Log Tech RAG

Correlation of the OH Log with the Drilling Time, indicates OH Log depths and the Drilling Time depths are approximately equal from 3800 to TD. The Gamma ray curve was imported directly into this log without any depth adjustment.

OH Log Formation Tops: Anhydrite 1885 (+742), Base Anhydrite 1924 (+703), Heebner 3931 (-1304), Lansing 3974 (-1347), Stark 4231 (-1604), BKC 4305 (-1678), Pawnee 4430 (-1803), Fort Scott 4485 (-1858), Cherokee 4507 (-1880), Miss Ls, 4576 (-1949), Miss Dolomite 4580 9-1953), LTD 4596 (-1969).




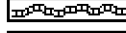
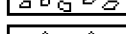
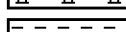



















### DSTs

**DST #1 4528-4585/30-60-90-90.** 1st Op: Surface blow build to 1 1/2". 2nd Op: Surface blow build to 3 1/2". Recover: 31' GIP, 62' GOCM (5% Gas, 35%Oil, 60%M). IH 2271#, IFP 19-26#, ISIP 1014# building, FFP 27-40#, FSIP 1046# building, FH 2273#, BHT 125 F.















































































**DST #2 4584-4590/30-60-90-90.** 1st Op: BOB/24". 2nd Op: BOB/25". Recover: 310' GIP, 144' GO, Gty 39, (10% Gas, 90% Oil), 62' MCGO (10% Gas, 50%Oil, 40%M). IH 2282#, IFP 15-33#, ISIP 1100# building, FFP 37-97#, FSIP 1089# building, FH 2202#, BHT 129 F.



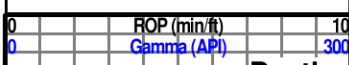
**DST #3 4589-4595/30-60-90-90.** 1st Op: BOB/7 1/2". RB build to 4" in 60 min. 2nd Op: BOB/10". No RB. Recover: 248' GIP, 692' GO, Gty 39, (15% Gas, 85% Oil), 62' GOCM (20% Gas, 20%Oil, 60%M). IH 2242#, IFP 19-91#, ISIP 1073# building, FFP 94-284#, FSIP 1043# building, FH 2217#, BHT 130 F.

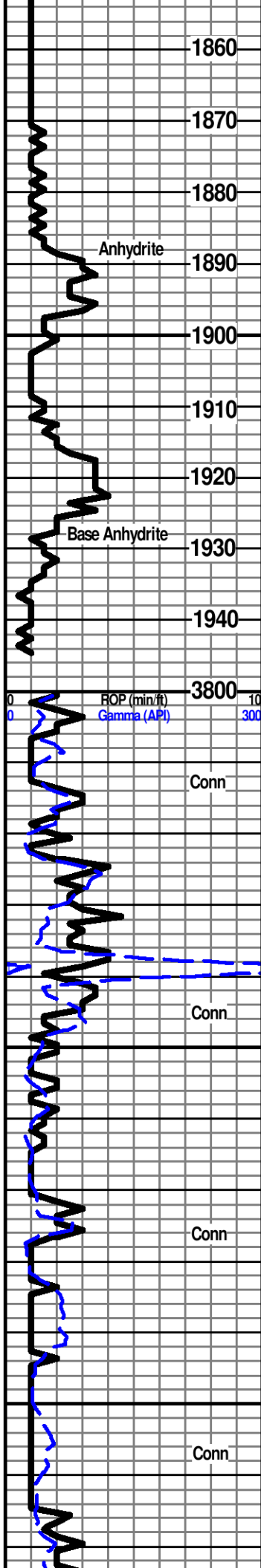
### ROCK TYPES

 Anhy  Bent  Brec  Cht  Clyst  Coal	 Congl  Sdy dolo  Shy dolo  Dol  Gyp  Sdy lmst	 Lmst  Mrlst  Salt  Shale  Sltst  Ss	 Black sh  Gry sh  Shale  Shyslstst  Sltysch
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### ACCESSORIES

<b>MINERAL</b>  Anhy  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Ferrpel  Ferr  Glau  Gyp  Marl  Nodule  Phos  Pyr  Salt  Sandy  Silt	 Chlorite  Dol  Sand  Sltly  <b>FOSSIL</b>  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra	 Pelec  Pelloidal  Pisolite  Plant  Strom  Fuss  Oomoldic  <b>STRINGER</b>  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst  Sltstrg  Ssstrg  Carbsh  Clystn  Dol	 Grysh  Gryslt  Lms  Sandylms  Sh  Sltstn  <b>TEXTURE</b>  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
--	--	---	---

Curve Track 1 ROP (min/ft)  Gamma (API) 	Depth	Lithology	Geological Descriptions	Remarks
 ROP (min/ft) 0 to 10 Gamma (API) 0 to 300 <b>Depth</b> 1850	3700			



1860  
1870  
1880  
1890  
1900  
1910  
1920  
1930  
1940  
3800  
3850  
3900

Anhydrite

Base Anhydrite

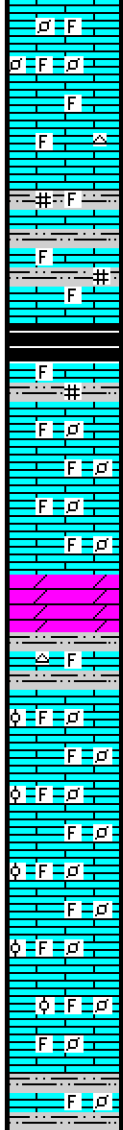
ROP (min/ft)  
Gamma (API)

Conn

Conn

Conn

Conn



Ls, wh, tan, mott, mdstn, wkestrn, foss, pell, spt chky text, pp por & tr foss moldic por. Tr Cht, milky, tan, sub op, ang.

Ls, tan, wkestrn, foss, spt chky text, tr pp & foss moldic por. Shy Sitstn, gry, foss, calc, micro pyr. Tr Cht, milky, tan, gry, semi transl, ang.

Shy Ls, tan, gry, mott wkestrn, foss, arg, tr micro pyr. Ls, tan, brn, mdstn, wkestrn, foss, dns.

Sh, blk, carb, pyr. Shy Ls, gry, tan, mott, wkestrn, foss, arg, pyr.

Ls, tan, gry, mott, wkestrn, tr pkstn, foss, pell, pp & foss moldic por, fair spt inter gran por. Shy Ls, lt gry, wkestrn, foss, arg, pp por.

Dolo Ls, tan, vfn xln, poor to fair spt suc por w/Dolo Ls, tan, vfn xln, poor inter xln por.

Shy Ls, gry, wkestrn, foss, arg. Cht, tan, gry, milky, transl, ang.

Ls, lt gry, wkestrn, pkstn, foss, pell, fn ool in part, pp & foss moldic por (fuss), poor to fair oom por, few frag tr vug por, spt intergran por.

Ls, tan, lt gry, blk to brn flaky spks, wkestrn, pkstn, foss, pell, fn ool in part, pp & foss moldic por (fuss), poor to fair oom por, few frag w/tr vug por, spt intergran por. blk to brn flaky spks.

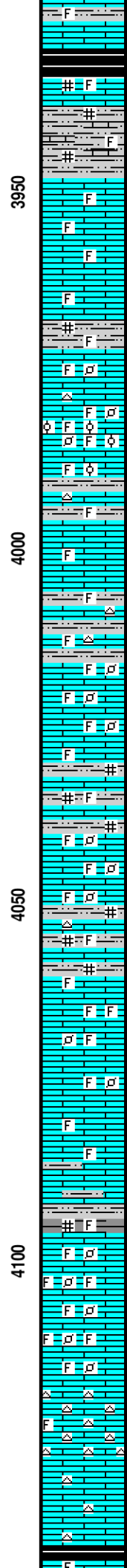
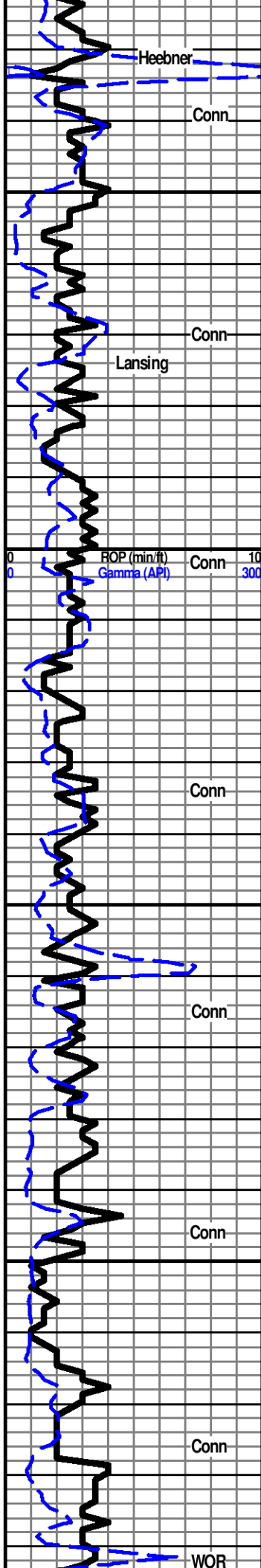
Ls, tan, gry, mott, blk to brn spks, wkestrn, foss, pell, pp & tr foss moldic por. Shy Ls, tan, brn, mott gry, w/ blk, brn, spks, wkestrn, foss, arg, tr micro pyr.

Anhydrite 1888 (+739)  
OH Log 1885 (+742)

Base Anhydrite 1928 (+699)  
OH Log 1924 (+703)

Geologist on Location @ 3800'.

Correlation of the OH Log with the Drilling Time, indicates OH Log depths and the Drilling Time depths are approximately equal from 3800 to TD. The Gamma ray curve was imported directly into this log without any depth adjustment.



Sh, blk, carb, pyr. Shy Ls, dk gry, brn, wkestrn, foss, arg, pyr, dns. Ls, tan, gry, wkestrn, dk gry foss, pyr, arg.

Shy Sltstn, gry-brn, calc, tr foss, soft. Shy Ls, gry, brn, moss foss, arg, tr pyr.

Flood Ls, lt gry, brn, mdstn, dns. Ls, tan, gry, mott, mdstn, tr wkestrn, foss, arg in part micro pyr, soft to hard.

Ls, tan, mdstn, soft to hard. Ls, gry, mdstn, dns, tr micro pyr. Ls, tan, gry, mott, wkestrn, foss, tr pyr.

Shy Ls, dk gry, brn, mott, wkestrn, foss, pyr. Shy Sltstn, gry-grn, soft.

Ls, tan, brn, mott gry, wkestrn, tr pkstn, foss, pell, pp & tr foss moldic por, clear 2nd calcite. Tr Ls, lt gry, wkestrn, foss, tr pyr foss. Tr Cht, milky, wh, lt gry, sub op ang.

Ls, wh, tan, wkestrn, foss, tr fn ool, pp & tr foss moldic por, spt chky text, tr fn oom por (uphole?).

Ls, tan, brn, gry, mdstn, dns, tr wCht, milky, gry, transl, ang. Ls, tan, brn, mdstn, foss.

Ls, tan, brn, gry, wkestrn, foss, clear 2nd calcite. Ls, brn, gry, mdstn, sl foss, dns.

Flood Shy Ls, gry, dk gry, wkestrn, foss, arg, tr pyr. Ls, gry, mdstn, dsn. Cht, dk gry-blk, w/milky foss, semi transl, ang.

Ls, wh, tan, wkestrn, tr pkstn, foss, pell, clear 2nd calcite, pp por, tr foss moldic por, poor spt inter gran por, spt chky text.

Flood Ls, gry, dk gry, wkestrn, foss, arg, tr pyr. Shy sltstn, gry, dk gry, pyr.

Ls, wh, tan, mott, wkestrn, foss, pell, clear 2nd calcite filled por, tr pp & scatt foss moldic por, spt chky text in part. Ls, tan, mdstn, sl foss, dns. Tr Cht, milky, wh, transl, ang.

Flood Shy Ls, gry, dk gry, wkestrn, foss, arg, dns. Tr Cht, milky, wh, transl, ang.

Ls, wh, tan, mott, wkestrn, tr pkstn, foss, abndnt 2nd calcite, pp por. Ls, tan, lt gry, mdstn, dns.

Ls, tan, lt gry, mdstn, sl foss, hard. Ls, wh, tan, wkestrn, foss, pell, clear 2nd calcite. Ls, tan, gry, mdstn, dns. Tr Cht, tan, milky, transl, ang.

Ls, tan, brn, gry, mdstn, sl arg, tr micro pyr, dns. Ls, dirty gry, wkestrn, foss, sl arg, soft chky text.

Sh & Shy Sltstn, dk gry, blk, calc, foss, pyr. Shy Ls, dk gry, gry, tan foss frag, arg, pyr.

Ls, wh, tan, wkestrn, pkstn, foss, pell, clear 2nd calcite, pp & scatt foss moldic por, spt intergran por.

Ls, wh, tan, mott, wkestrn, pkstn, foss, pell, clear 2nd calcite, pp & foss moldic por, spt chky text.

Ls, tan, brn, mdstn, sl foss, dns. Flood Cht, tan, milky, lt gry, tr foss, spic, semi transl, ang, sharp.

Ls, tan, brn, mdstn, sl foss, dns. Ls, tan, wkestrn, pkstn, foss, 2nd calcite, soft-hard. Cht, tan, gry, milky, semi transl, tr foss, ang.

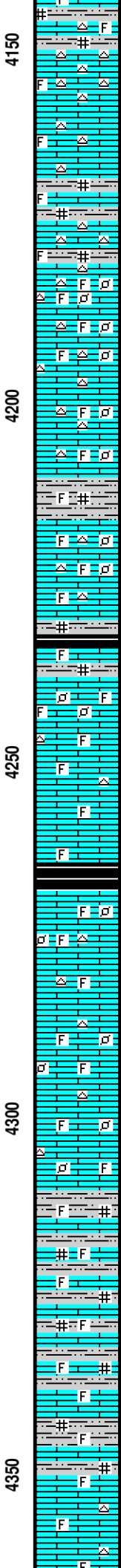
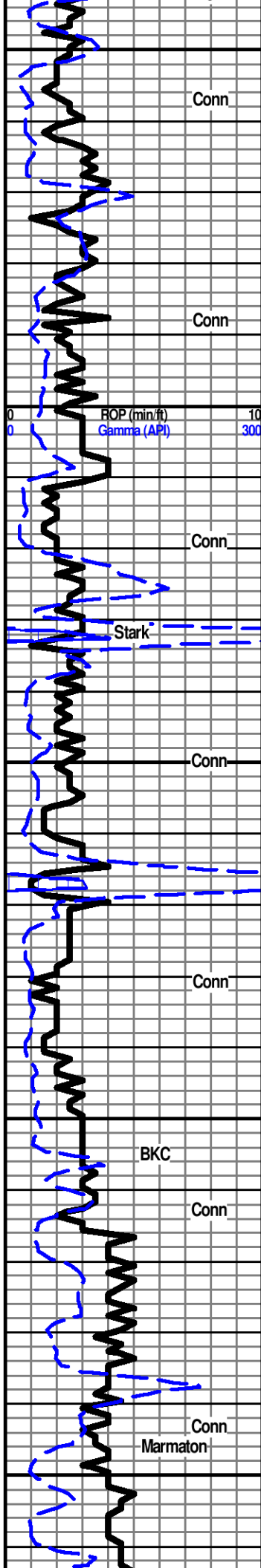
Sh, blk, carb, pyr. Shy Sltstn, gry, calc, pyr. Ls, dirty gry, gry, mdstn,

Heebner 3931 (-1304)

Lansing 3974 (-1347)

Mud-Co/Service Mud, Inc.  
10:30 am 4/17/2012  
Drilling @ 4030  
Wt 9.0, Vis 47, WL 6.8  
pH 10.0, LCM 4#, Chl 3,000  
PV 15, YP 15, GelS 9/23

WOR @ 4142, Rotary chain broke.



wkestrn, foss, arg, tr pyr. Cht, tan, gry, milky, transl, ang.

Ls, dirty gry, lt gry, mdstrn, wkestrn, foss, micro pyr. Abdt Cht, tan, lt gry, milky, transl, ang, blk.

Ls, wh, tan, wkestrn, foss, clear 2nd calcite, tr pp por, soft-hard. Cht, tan, lt gry, milky, transl, ang.

Shy Sltstrn, gry, dk gry, calc, tr foss, pyr. Ls, wh, tan, gry, mdstrn, sl foss, hard.

Shy Sltstrn, AA. Ls, wh, tan, brn, mdstrn, sl foss, tr pp por, soft-hard. Abdt Cht, tan, lt gry, milky, transl, ang.

Flood Ls, wh, tan, wkestrn, pkstrn, foss, pell, abdt clear 2nd calcite, pp por, tr scatt foss moldic por, soft to hard. Cht, tan, milky, lt gry, transl, tr foss, ang.

Ls, tan, brn, wkestrn, foss, pell, clear 2nd calcite, tr pp por, spt chky text. Ls, tan, brn, mdstrn, dns. Cht, tan, milky, lt gry, transl, ang.

Shy Sltstrn, dk gry, calc, tr foss, pyr.

Ls, wh, tan, brn, mott, mdstrn, sl foss, spt soft chky text, mostly dns. Ls, tan, brn, wkestrn, foss, pell, 2nd calcite, soft to hard. Tr Cht, milky, tan, transl, ang.

Sh & Shy Sltstrn, dk gry, blk, pyr. Sh, blk, carb, pyr. Shy Ls, tan, brn, mdstrn, tr foss, arg, dns. Ls, wh, tan, mott, mdstrn, 2nd calcite.

Ls, wh, tan, wkestrn, pkstrn, foss, pell, fn ool in part, pp & tr foss moldic por.

Ls, wh, tan, brn, mdstrn, wkestrn, foss, dns. Tr Cht, milky, tan, transl, ang.

Ls, wh, tan, mdstrn, wkestrn, foss, 2nd calcite, spt soft chky text. Ls, tan, brn, mdstrn, wkestrn, dns.

Sh, blk, carb, pyr.

Ls, wh, tan, mott, mdstrn, wkestrn, foss, pell, soft to hard. Ls, tan, brn, mdstrn, wkestrn, foss, dns.

Ls, wh, tan, mdstrn, wkestrn, foss, 2nd calcite, soft to hard. Ls, tan, mdstrn, wkestrn, foss, dns. Cht, tan, milky, transl, ang.

Ls, wh, tan, mdstrn, dns. Ls, wh, tan, mdstrn, wkestrn, foss, 2nd calcite, soft-hard. Ls, wh, wkestrn, pkstrn, foss, pell, 2nd calcite, soft.

Ls, wh, tan, mdstrn, wkestrn, foss, spt chky text. Ls, wh, tan, wkestrn, pkstrn, foss, pell, 2nd calcite. Cht, milky, tan, transl, ang.

Shy Sltstrn, gry, dk gry, pyr. Shy Ls, gry, brn, mdstrn, wkestrn, foss, arg.

Shy Sltstrn, gry, dk gry, pyr. Shy Ls, gry, brn, mott, foss, atg, pyr.

Shy Sltstrn, gry, dk gry, rd-brn, pyr. Shy Ls, gry, brn, foss, arg, pyr. Shy Ls, tan, foss, w/d-brn silt, arg.

Shy Sltstrn, gry, dk gry, blk, pyr. Shy Sltstrn, lt gry, gry, soft. Shy Ls, wh, tan, foss, w/d-brn silt.

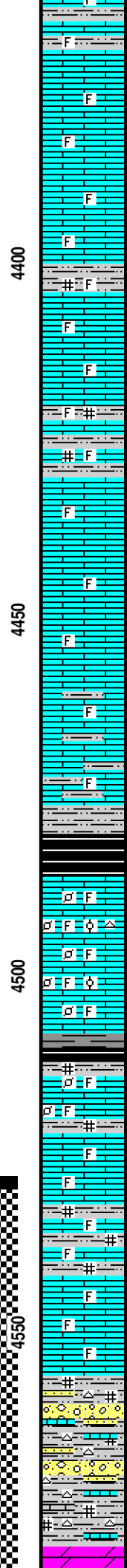
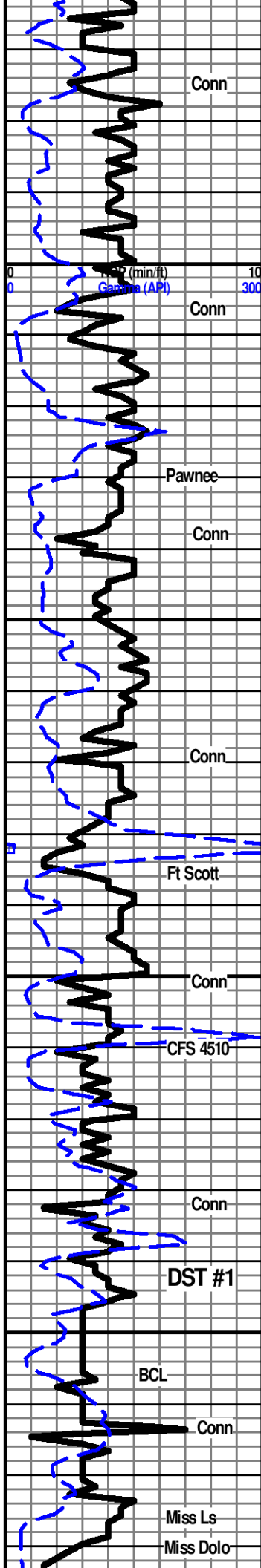
Flood Ls, wh, off wh, mdstrn, tr foss, w/d-brn silt, soft. Ls, wh, lt gry, mdstrn, wkestrn, foss, dns. Cht, milky, tan, transl, ang.

**Stark Sh 4232 (-1605)**

**Hushpuckney Sh 4265 (-1638)**

**BKC 4305 (-1678)**

**Marmaton 4346 (-1719)**



Shy Siltstn, gry, dk gry, rd-brn, pyr. Shy Ls, gry, foss, arg, pyr.

Flood Ls, wh, tan, mdstn, sl foss, 2nd calcite, spt chky text in part. Ls, tan, mdstn, wkestn, foss, 2nd calcite, dns.

Ls, wh, tan, mdstn, spt chky text. Ls, wh, tan, lt gry, mdstn, tr foss, 2nd calcite filled por, dns.

Ls, wh, tan, mdstn, soft-hard. Ls, wh, off wh, lt gry, mdstn, tr foss, dns. Ls, wh, lt gry, mdstn, wkestn, foss, dns.

Shy Ls, gry, mdstn, dns. Shy Siltstn, gry, dk gry, calc, tr foss.

Ls, wh, tan, mott, mdstn, wkestn, foss, spt chky text. Ls, tan, mdstn, tr foss, dns.

Ls, wh, tan, lt gry, mdstn, dns. Ls, tan, mdstn, wkestn, foss, 2nd calcite. Shy Ls, gry, wkestn, foss, arg, tr pyr, dns.

Shy Siltstn, gry, dk gry, calc, tr foss. Shy Ls, gry, mdstn, wkestn, foss, arg, tr pyr.

Ls, tan, brn, mdstn, tr foss, soft to hard. Ls, tan, brn, mdstn, dns. Tr Ls, brn, lithographic, dns.

Ls, wh, tan, mdstn, sl foss, soft-hard. Ls, tan, mdstn, wkestn, foss, 2nd calcite, dns. Tr Ls, tan, brn, lithographic, dns.

Ls, wh, tan, mdstn, sl foss, soft-hard. Ls, tan, brn, mdstn, dns. Ls, brn, gry, mott, mdstn, arg.

Ls, tan, brn, gry, mdstn, tr foss, dns. Shy Ls, gry, mdstn, arg, dns.

Ls, tan, brn, gry, mdstn, tr foss, dns. Tr cht, tan, brn, transl, ang. Shy Ls, gry, mdstn, arg, dns, tr pyr.

Flood sh, blk, carb, pyr. Shy Siltstn, dk gry, blk, calc, tr foss, pyr.

Ls, gry, dk gry, mdstn, wkestn, foss, pell, tr ool, 2nd calcite, tr Cht, milky, transl, dns. Ls, brn, gry, mott, wkestn, tr pkstn, foss, pell, fn ool, clear 2nd calcite filled por, dns. Few Frag w/ tr pp por, trace of brn FO on break.

Ls, off wh, dirty gry, tan, mdstn, micro pyr, few blk spks, soft. Ls, dirty gry, brn, wkestn, tr pkstn, foss frag, pell, pyr, soft to hard, VSS lt brn FO on break.

Shy Siltstn, gry, dk gry, pyr. Sh, blk, pyr.

Ls, tan, gry, mdstn, wkestn, foss, pell. Ls, brn, tan, wkestn, tr pkstn, foss, pell.

Shy Siltstn, gry, dk gry, blk, pyr.

Flood Ls, off wh, tan, mdstn, tr foss, soft to dns. Ls, tan, brn, gry, wkestn, tr pkstn, foss, pell, 2nd calcite. Ls, tan, brn, gry, mdstn, silty.

Sh & Shy Siltstn, gry, grn, dk gry, blk, pyr. Ls, wh, tan, gry, mdstn, sl foss, dns. Ls, tan, gry, wkestn, foss, pell, 2nd calcite, tr pyr.

Flood Ls, wh, tan, mott, mdstn, tr foss, tr pyr, soft to dns. Ls, tan, mdstn, wkestn, foss, dns.

Flood Shy Siltstn, gry, dk gry, grn, calc, tr foss, pyr. Shy Ls, gry, foss, arg. Tr Sst clear, tan, vfn gr qtz, spks blk flaky dead oil stn. Tr Cht, wh, yell, clear transl, ang.

Flood Shy Siltstn, AA. Shy Ls, gry, foss, tr pyr. Sst, clear, tan, vfn qtz gr, blk spks dead flaky oil. Cht, wh, yell, clear, transl, tr w/blk tarry oil stn. Tr Ls, wh, tan, foss, soft, w/blk dead oil stn.

4585 CFS 25' Shy Siltstn, Sst, Cht, Ls, AA.  
4585 CFS 50' Slight odor, Flood Dolo. FSFO, PPBYF. See

**Pawnee 4430 (-1803)**

Mud-Co/Service Mud, Inc.  
10:10 am 4/18/2012  
Drilling @ 4447  
Wt 9.3, Vis 45, WL 7.6  
pH 9.0, LCM 3#, Chl 3,200  
PV 14, YP 14, GelS 9/24

DST #1 4528-4585/30-60-90-90  
1st Op: Surface blow > 1 1/2'.  
2nd Op: Surface blow > 3 1/2'.  
Recover: 31' GIP, 62' GOCM  
(5% Gas, 35% Oil, 60% M).  
IH 2271#, IFP 19-26#, ISIP 1014#  
FFP 27-40#, FSIP 1046#, FH 2273#,  
BHT 125 F.

**FT Scott 4486 (-1859)**

**Cherokee 4507 (-1880)**

DST #2 4584-4590/30-60-90-90  
1st Op: BOB/24".  
2nd Op: BOB/25".  
Recover: 310' GIP, 144' GO, Gty 39,  
(10% Gas, 90% Oil), 62' MCGO  
(10% Gas, 50% Oil, 40% M).  
IH 2282#, IFP 15-33#, ISIP 1100#  
FFP 37-97#, FSIP 1089#, FH 2202#,  
BHT 129 F.

**BCL 4556 (-1929)**

Mud-Co/Service Mud, Inc.  
9:15 am 4/19/2012  
Depth 4585. DST #1  
Wt 9.3, Vis 47, WL 6.8  
pH 10.5, LCM 2#, Chl 2,800  
PV 14, YP 16, GelS 6/22

**Miss Ls 4576 (-1949)**

**Miss Dolo 4580 (-1953)**

CFS  
**DST #2**  
 CFS  
 Conn  
**DST #3**  
 CFS 4595 (-1968)

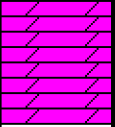
ROP (min/ft) 10  
 Gamma (API) 300

**RTD 4595 (-1968)**

4600

4650

00



description at right.  
 4590 CFS Good Odor. Flood Dolo, & Dolo Ls. SSG, GSFO, PPBYF.  
 See description at right.  
 4595 CFS 50' Good Odor. Flood Dolo & Dolo Ls, tan, brn, mott  
 gry, pr to fr spt suc por, foss moldic por, tr vug por, dk brn-blk stn  
 in vugs, PP & BYF, GS tan, brn FO, SSG & bleeding oil. Streaming  
 wh cut. Dry Sample: Tan, brn, blk, spt stn & sat.

4595 CFS 75' Good Odor. Dolo & Dolo Ls, AA. Increase Dolo,  
 vfn-fn xln, far spt suc por, Foss moldic & vug por, dk brn blk oil stn  
 & sat, SSG, bleeding dk brn-blk oil, PP & BYF. Dry Sample, tan,  
 brn, blk, spt stn & sat.

**DST #3 4589-4595/30-60-90-90.**  
 1st Op: BOB/7 1/2". RB 4".  
 2nd Op: BOB/10". No RB.  
 Recover: 248' GIP, 692' GO, Gty 39,  
 (15% Gas, 85% Oil), 62' GOCM  
 (20% Gas, 20%Oil, 60%M).  
 IH 2242#, IFP 19-91#, ISIP 1073# >,  
 FFP 94-284#, FSIP 1043# >, FH 2217#,  
 BHT 130 F.

4585 CFS 50' Slight Odor. Flood Dolo, tan, brn, very small  
 frags, vfn-fn xln, fair suc por, tr vug por, PP BYF, FS clear-tan  
 FO on break. Fast streaming wh cut. Dry Sample: Tan-brn spt  
 stn & sat.  
 4590 CFS 50' Good Odor. Dolo, tan, small frags, vfn-fn xln, fr to  
 gd suc por, tr vug por, tr foss moldic, PP BYF, FS clear, tan, brn FO  
 on break, Tr gas bubbles. Fast streaming wh cut. Few large frag  
 Dolo Ls, vfn xln, poor suc por, vug por, bleeding brn FO. Dry  
 Sample: Tan, brn, spt stn & sat.

4590 CFS 75' Good Odor. Flood Dolo & Dolo Ls, tan, vfn-fn xln,  
 pr to fr suc por, vug por, tr foss moldic por, PP & BYF, FS tan, brn  
 FO on break. SSG & bleeding oil. Streaming wh cut. Dry Sample:  
 Tan-brn spt stn & sat.

Mud-Co/Service Mud, Inc.  
 10:30 am 4/20/2012  
 CTCH @ 4590 after DST #2  
 Wt 9.1, Vis 44, WL 8.0  
 pH 10.5, LCM 2#, Chl 2,500  
 PV 14, YP 14, GelS 6/18

# ALLIED CEMENTING CO., LLC. 042466

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Great Bend, KS

DATE <u>4-13-12</u>	SEC. <u>24</u>	TWP. <u>19S</u>	RANGE <u>26W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Vogel</u>	WELL # <u>3-24</u>	LOCATION <u>Block KS, S.S., 1/2E, 1/2N, 1E,</u>			COUNTY <u>Ness</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>1/4 N West into</u>				

CONTRACTOR Vogel #4  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D.  
 CASING SIZE 8 5/8 DEPTH 265  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15 foot  
 PERFS.  
 DISPLACEMENT Freshwater

OWNER Abercrombie Energy LLC  
 CEMENT  
 AMOUNT ORDERED 170 sz com 3% cc  
2% gel

EQUIPMENT  
 PUMP TRUCK CEMENTER Dustin C.  
 # 346 HELPER Shane K  
 BULK TRUCK  
 # 341 DRIVER Joel M  
 BULK TRUCK  
 # DRIVER

COMMON <u>170</u>	@ <u>16.25</u>	<u>2.762.50</u>
POZMIX	@	
GEL <u>63</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE <u>6</u>	@ <u>58.26</u>	<u>349.56</u>
ASC	@	
HANDLING <u>183.5</u>	@ <u>2.10</u>	<u>385.35</u>
MILEAGE <u>8.37 x 24x</u>	@ <u>2.35</u>	<u>511.48</u>
TOTAL		<u>4.072.20</u>

REMARKS:

Pipe On bottom break circulation with Big mud  
1 1/2 x 172 sz class A 3% cc 2% gel  
Displace with 15.92 BBLs Freshwater  
Shut in  
Cement did circulation  
Big down  
Plug down 3:00 AM

SERVICE

DEPTH OF JOB <u>265</u>		
PUMP TRUCK CHARGE		<u>1125.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>140m 52</u>	@ <u>7.00</u>	<u>364.00</u>
MANIFOLD	@	
<u>140m 52</u>	@ <u>4.40</u>	<u>208.00</u>
TOTAL		<u>1697.00</u>

CHARGE TO: Abercrombie  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
TOTAL		

To Allied Cementing Co., 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 X  
 SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 5.769.20  
76% 20% 1 695.54  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
4.073.66

RECEIVED  
 APR 23 '12  
 GB

Surface

Thank You!!



PO Box 93999  
Southlake, TX 76092

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

APR 30 '12

63

# INVOICE

Invoice Number: 130894

Invoice Date: Apr 21, 2012

Page: 1



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Aber	Vogel #3-24	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Medicine Lodge	Apr 21, 2012	5/21/12

Quantity	Item	Description	Unit Price	Amount
240.00	MAT	Class A Common	16.25	3,900.00
160.00	MAT	Pozmix	8.50	1,360.00
28.00	MAT	Gel	21.25	595.00
13.00	MAT	Chloride	58.20	756.60
150.00	MAT	ASC	19.00	2,850.00
750.00	MAT	KolSeal	0.89	667.50
100.00	MAT	FloSeal	2.70	270.00
500.00	MAT	Mud Clean	1.27	635.00
640.00	SER	Handling	2.25	1,440.00
26.00	SER	Ton Miles	70.40	1,830.40
1.00	SER	2 Stage Production	2,405.00	2,405.00
26.00	SER	Heavy Vehicle Mileage	7.00	182.00
2.00	SER	Additional Hours	400.00	800.00
26.00	SER	Light Vehicle Mileage	4.00	104.00
1.00	EQP	5 1/2 Triplay Shoe	1,340.00	1,340.00
1.00	EQP	5 1/2 DV Tool	3,721.00	3,721.00
3.00	EQP	5 1/2 Baskets	337.00	1,011.00
9.00	EQP	5 1/2 Centralizers	49.00	441.00
1.00	CEMENTER	Andrew Forslund		
1.00	CEMENTER	Darin Franklin		
1.00	EQUIP OPER	Eddie Piper		

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

\$

ONLY IF PAID ON OR BEFORE  
May 16, 2012

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
<b>TOTAL</b>	<b>Continued</b>



PO Box 93999  
Southlake, TX 76092

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

MAY - 2 2012

# INVOICE

Invoice Number: 130894

Invoice Date: Apr 21, 2012

Page: 2



RECEIVED  
APR 30 '12  
GB

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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Aber	Vogel #3-24	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Medicine Lodge	Apr 21, 2012	5/21/12

Quantity	Item	Description	Unit Price	Amount
1.00	OPER ASSIST	Troy Lenz		
1.00	OPER ASSIST	Billy Turner		
<i>CEMENT BOTH UPPER &amp; LOWER STAGES</i>				
		VENDOR NUMBER	_____	
		VOUCHER NUMBER	_____	
		VERIF OF RECEIPT	_____	
		CODE NUMBER	AMOUNT	
		<i>1352062</i>	_____	
		<i>VOGEL #3-24</i>	_____	
		<i>CEMENT 5'1/2 CSG - 2 STAGE</i>	_____	
		APPROVAL <i>[Signature]</i>	_____	
		VERIFIED ACCURACY <i>GM</i>	_____	

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

**\$ 5919.90**

ONLY IF PAID ON OR BEFORE  
May 16, 2012

Subtotal	24,308.50
Sales Tax	1,105.47
Total Invoice Amount	25,413.97
Payment/Credit Applied	
<b>TOTAL</b>	<b>25,413.97</b>

*19,494.07*

# ALLIED CEMENTING CO., LLC. 037965

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Medicine Lodge, KS

DATE 4-21-2012	SEC. 24	TWP. 19S	RANGE 26W	CALLED OUT	ON LOCATION 10:30 AM	JOB START 11:30 AM	JOB FINISH 12:30 PM
LEASE Vogel	WELL# 3-24	LOCATION Beecher, KS 5 South			COUNTY Moss	STATE KS	
OLD OR <u>NEW</u> (Circle one)			1 1/2 east, 1/2 north, 1 east, 1/4 north, 1/4 west				

CONTRACTOR VGI #4  
TYPE OF JOB 2 Stages  
HOLE SIZE 7 7/8" T.D.  
CASING SIZE 5 1/2 15.5# DEPTH 4580'  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DU Tool DEPTH 1897'  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG.  
PERFS.  
DISPLACEMENT 60 bbls 2% KCL water  
EQUIPMENT 50 bbls mob

OWNER Abercrombie Energy  
CEMENT  
AMOUNT ORDERED 150s class A Asc  
5# Kaiser + 10% seal + 2% Gel, 400s  
60' 40' 8% Gel + 3% CC + 1/4# floater,  
500gals mud clean  
COMMON A 240 @ 16.25 3900.00  
POZMIX 160 @ 8.50 1360.00  
GEL 28 @ 21.25 595.00  
CHLORIDE 13 @ 58.20 756.60  
ASC 150 @ 19.00 2850.00  
Kalseal 750 @ .89 667.50  
Flocal 100# @ 2.70 270.00  
Mud-clean 500 Gal @ 1.27 635.00  
HANDLING 640 @ 2.25 1440.00  
MILEAGE 26/64/.11 1830.40  
TOTAL 14,304.50

PUMP TRUCK CEMENTER Andrew, Dorian  
#548-545 HELPER Eddie  
BULK TRUCK  
#421-252 DRIVER Troy  
BULK TRUCK  
#386-310 DRIVER Billy - Oakley

REMARKS:

Pipe on bottom & break circulation, pump  
3 bbls water, 500gals mud clean, 3 bbls water,  
mix 150s of cement, shut down wash pump  
lines, Release plug, start displacement, lift 92  
80 bbls, slow to 3bpm at 100 bbls, bump 1  
110 bbls, 400-800 psi, float & hold, Total  
Circulate 1 hour, plug & remove holes, mix  
of cement, shut down, wash pump lines, Release plug  
start displacement, lift 92 bbls, slow rate to 3bpm  
35 bbls, bump plus at 46 bbls psi, float & hold  
1500

CHARGE TO: Abercrombie  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB 4580'  
PUMP TRUCK CHARGE 2405.00  
EXTRA FOOTAGE @  
MILEAGE 26 @ 7.00 182.00  
MANIFOLD Hoga rents @  
Addition hours 2 @ 400.00 800.00  
Light Vehicle 26 @ 4.00 104.00  
TOTAL 3491.00

PLUG & FLOAT EQUIPMENT

5 1/2  
1-Triplog Shoe @ 1340.00  
1-DU Tool @ 3721.00  
3-Bessicors @ 337.00 1011.00  
9-Centrifiers @ 49.00 441.00  
TOTAL 6513.00

To Allied Cementing Co., 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 X Jason Schuler  
SIGNATURE X Jason Schuler

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 24,308.50  
DISCOUNT 70/20 IF PAID IN 30 DAYS  
NET 18,388.60