

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Geologist Report / Mud Logs <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
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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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Abercrombie Energy, LLC
Well Name	CHRISTY FARMS #1-22
Doc ID	1316367

All Electric Logs Run

DILL
MICRO
SONIC
CDNP

Form	ACO1 - Well Completion
Operator	Abercrombie Energy, LLC
Well Name	CHRISTY FARMS #1-22
Doc ID	1316367

Tops

Name	Top	Datum
ANHY	2372	+622
BANHY	2393	+593
HEEB	3960	-974
LANS	3998	-1012
MUNCIE CRK	4173	-1187
STARK	4268	-1282
BKC	4353	-1367
MARM	4382	-1396
PAW	4485	-1499
FT SCOTT	4529	-1543
CHER	4555	-1569
MISS	4660	-1674

Form	ACO1 - Well Completion
Operator	Abercrombie Energy, LLC
Well Name	CHRISTY FARMS #1-22
Doc ID	1316367

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4442-4446	1000 Gal MCA	4442-4446
		1500 Gal 15% NeFe	4442-4446





P.O. Box 205803  
 Dallas, TX 75320-5803

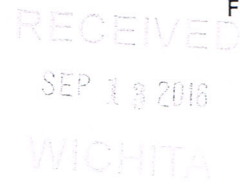
Voice: (832) 482-3742  
 Fax: (832) 482-3738



# INVOICE

Invoice Number: 152688  
 Invoice Date: Aug 28, 2016  
 Page: 1

Federal Tax I.D.#: 81-2169190



*production  
 Cement longstring*

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

<b>Customer ID</b>	<b>Field Ticket #</b>	<b>Payment Terms</b>	
Aber	OAK1608281310	Net 30 Days	
<b>Job Location</b>	<b>Camp Location</b>	<b>Service Date</b>	<b>Due Date</b>
KS1-01	Oakley	Aug 28, 2016	9/27/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Christy Farms 1-22		
20.00	CEMENT MATERIALS	CW-HVS	58.70	1,174.00
295.00	CEMENT MATERIALS	CB-ASA	23.50	6,932.50
139.00	CEMENT MATERIALS	CFL-330	23.10	3,210.90
41.00	CEMENT MATERIALS	CDF-100P	3.50	143.50
1,475.00	CEMENT MATERIALS	CLC-KOL	0.98	1,445.50
1.00	CEMENT SERVICE	CMLP	275.00	275.00
390.00	CEMENT SERVICE	PHDL	2.48	967.20
750.00	CEMENT SERVICE	DRYG	2.75	2,062.50
50.00	CEMENT SERVICE	MILV	4.40	220.00
50.00	CEMENT SERVICE	MIHV	7.70	385.00
1.00	CEMENT SERVICE	Surface Charge	2,765.75	2,765.75
1.00	EQUIPMENT SALES	TRP-5.5	85.00	85.00
1.00	EQUIPMENT SALES	FFS-5.5	636.00	636.00
1.00	EQUIPMENT SALES	PC-5.5	3,590.00	3,590.00
2.00	EQUIPMENT SALES	CB-5.5	395.00	790.00
11.00	EQUIPMENT SALES	CEN-5.5	57.00	627.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	6,453.20	-6,453.20
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	3,337.73	-3,337.73
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Equipment	2,864.00	-2,864.00
1.00	E-SMITH.ROGER	SERVICE SUPERVISOR		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE  <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>Sep 27, 2016</b> </div>  1 1/2% CHARGED THEREAFTER.	Subtotal	Continued
	Sales Tax	Continued
	Total Invoice Amount	Continued
	Payment/Credit Applied	
	<b>TOTAL</b>	<b>Continued</b>

*SEP 27 2016*



P.O. Box 205803  
 Dallas, TX 75320-5803

Voice: (832) 482-3742  
 Fax: (832) 482-3738



# INVOICE

Invoice Number: 152688  
 Invoice Date: Aug 28, 2016  
 Page: 2

Federal Tax I.D.#: 81-2169190

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

<b>Customer ID</b>	<b>Field Ticket #</b>	<b>Payment Terms</b>	
Aber	OAK1608281310	Net 30 Days	
<b>Job Location</b>	<b>Camp Location</b>	<b>Service Date</b>	<b>Due Date</b>
KS1-01	Oakley	Aug 28, 2016	9/27/16

Quantity	Item	Description	Unit Price	Amount
1.00	E-MCGHGHY.WAYNE	EQUIPMENT OPERATOR		
1.00	E-BROWN.CORY	MECHANIC		
VENDOR NUMBER _____ VOUCHER NUMBER _____ DATE OF RECEIPT _____ CDE NUMBER      AMOUNT <u>1352062</u> _____ <u>CHRISTY FARMS 1-82</u> _____ <u>CEMENT LONGSTRIPS 5/2" CCG</u> _____ APPROVAL _____ VERIFIED ACCURACY _____				

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <b>Sep 27, 2016</b> </div> 1 1/2% CHARGED THEREAFTER.	Subtotal	12,654.92
	Sales Tax	791.96
	Total Invoice Amount	13,446.88
	Payment/Credit Applied	
	<b>TOTAL</b>	<b>13,446.88</b>





Field Ticket Number: OAK1608281310      Field Ticket Date: Sunday, August 28, 2016

Bill To:  
Abercrombie Energy  
#N/A  
#N/A

Job Name: 02 Production/Long String  
Well Location: Scott, KS  
Well Name: Christy Farms  
Well Number: 1-22  
Well Type: New Well  
Rig Number:  
Shipping Point: Oakley, KS  
Sales Office: Mid Con

PERSONEL		EQUIPMENT	
Smith, Roger		978 pickup	
Wayne		434 Pump	
Core		373-306 Bulk	

**SERVICES - SERVICES - SERVICES**

Description	Quantity	Unit	Rate	Subtotal	Equipment	Discount	Final
PUMP, CASING CEMENT 4001-5000 FT	1.00	min. 4 hr	2,765.75	2,765.75	1,382.88	50.0%	1,382.88
CMLP	1.00	per day	275.00	275.00	137.50	50.0%	137.50
PHDL	390.00	per cu. FL	2.48	967.20	1.24	50.0%	483.60
DRYG	750.00	ton-mile	2.75	2,062.50	1.33	50.0%	1,031.25
MILV	50.00	per mile	4.40	220.00	2.20	50.0%	110.00
MIHV	50.00	per mile	7.70	385.00	3.85	50.0%	192.50

**FLOAT EQUIPMENT -- FLOAT EQUIPMENT -- FLOAT EQUIPMENT**

Description	Quantity	Unit	Rate	Subtotal	Equipment	Discount	Final
TRP-5.5	1.00	each	85.00	85.00	42.50	50.0%	42.50
FFS-5.5	1.00	each	636.00	636.00	318.00	50.0%	318.00
PC-5.5	1.00	each	3,590.00	3,590.00	1,795.00	50.0%	1,795.00
CB - 5.5	2.00	each	395.00	790.00	197.50	50.0%	395.00
CEN - 5.5	11.00	each	57.00	627.00	28.50	50.0%	313.50

**MATERIALS - MATERIALS - MATERIALS**

Description	Quantity	Unit	Rate	Subtotal	Equipment	Discount	Final
CW-HVS	20.00	bbl	58.70	1,174.00	29.35	50.0%	587.00
CB-ASA	295.00	sack	23.50	6,932.50	11.75	50.0%	3,465.25
CFL-330	139.00	pound	23.10	3,210.90	11.55	50.0%	1,605.45
CDF-100P	41.00	pound	3.50	143.50	1.75	50.0%	71.75
CLC-KDL	1475.00	pound	0.98	1,445.50	0.49	50.0%	722.75

**ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS**

Additional hours, in excess of set hours		per hour	440.00	0.00	220.00	50.0%	0.00
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	Gross	Discount	Final
Services Total	6,675.45	3,337.73	3,337.73
Equipment Total	5,728.00	2,864.00	2,864.00
Materials Total	12,906.40	6,453.20	6,453.20
Additional Items	0.00	0.00	0.00
<b>Final Total</b>	<b>25,309.85</b>	<b>12,654.93</b>	<b>12,654.93</b>

Allied Rep  
Customer Agent:

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.  
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.  
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

X Customer Signature

Field Ticket Total (USD):

\$12,654.93



**DEFINITIONS:** In these terms and conditions, "ALLIED" shall mean Allied Oil & Gas Services, LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "JOB" relates to the services described on the front side of this contract, "MERCHANDISE" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

**-TERMS:** Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate. Any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

**-ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

**-PRICES AND TAXES:** All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

**-TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by the CUSTOMER.

**-PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

**-DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

**-SERVICE CONDITIONS AND LIABILITIES:**

1). ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

- A). Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and
  - B). Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.
- 2). With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.
- 3). ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

**-WARRANTIES:**

1). ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and services when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2). More specifically:

- A). Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
- B). Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation or tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.
- C). Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent, and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



P.O. Box 205803  
Dallas, TX 75320-5803

Voice: (832) 482-3742  
Fax: (832) 482-3738

# INVOICE

Invoice Number: 152704  
Invoice Date: Sep 8, 2016  
Page: 1

Federal Tax I.D.#: 81-2169190

SEP 27 2016



*production*

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

<b>Customer ID</b>	<b>Field Ticket #</b>	<b>Payment Terms</b>	
Aber	68111	Net 30 Days	
<b>Job Location</b>	<b>Camp Location</b>	<b>Service Date</b>	<b>Due Date</b>
KS1-05	Oakley	Sep 8, 2016	10/8/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Christy Farms 1-22		
25.00	CEMENT MATERIALS	Class A Common	17.90	447.50
47.00	CEMENT MATERIALS	Calcium Chloride	1.10	51.70
155.00	CEMENT SERVICE	PHDL	2.48	384.40
251.65	CEMENT SERVICE	DRYG	2.75	692.04
35.00	CEMENT SERVICE	MILV	4.40	154.00
35.00	CEMENT SERVICE	MIHV	7.70	269.50
1.00	CEMENT SERVICE	Squeeze	2,483.59	2,483.59
1.00	CEMENT SERVICE	Squeeze Manifold	430.00	430.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	224.64	-224.64
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	1,986.25	-1,986.25
1.00	E-FORSLUND.MERRELL	SERVICE SUPERVISOR		
1.00	E-MCGHGHY.WAYNE	EQUIPMENT OPERATOR		
1.00	E-PHILLIPS.MONTY	EQUIPMENT OPERATOR		

VENDOR NUMBER  
INVOICE NUMBER  
DATE OF RECEIPT  
AMOUNT  
1352008  
CHRISFA  
CEMENT SQUEEZE  
APPROVAL: [Signature]  
VERIFIED: [Signature]

<p>ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE</p> <p><b>Oct 8, 2016</b></p> <p>1 1/2% CHARGED THEREAFTER.</p>	Subtotal	2,701.84
	Sales Tax	229.66
	Total Invoice Amount	2,931.50
	Payment/Credit Applied	
	<b>TOTAL</b>	<b>2,931.50</b>

SEP 23-16



# ALLIED OFS, LLC

Federal Tax I.D. #81-2169190

58111

REMIT TO: Allied OFS, LLC  
P.O. Box 205803  
Dallas, TX 75320-5803

SERVICE POINT: Oceola

DATE <u>9-8-16</u>	SEC. <u>22</u>	TWP. <u>16</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>8:00 AM</u>	JOB START <u>11:00 AM</u>	JOB FINISH <u>12:00 noon</u>
LEASE <u>Christy Farms</u>	WELL# <u>1-22</u>	LOCATION <u>Scott City 13 N 1/2 E</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>OLD</u>				SINCE <u>1</u>			

CONTRACTOR <u>Wild West Well Service</u>	OWNER <u>same</u>
TYPE OF JOB <u>Squeeze</u>	
HOLE SIZE <u>5 1/2</u>	T.D.
CASING SIZE <u>5 1/2</u>	DEPTH
TUBING SIZE <u>2 3/8</u>	DEPTH <u>2021'</u>
DRILL PIPE	DEPTH
TOOL <u>Packer</u>	DEPTH <u>1720'</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS. <u>2000'</u>	
DISPLACEMENT	

CEMENT	AMOUNT ORDERED <u>150 sks com 280cc</u>
	<u>used 25 sks cement</u>
COMMON <u>25 sks</u>	@ <u>17.90</u> <u>447.50</u>
POZMIX	@
GEL	@
CHLORIDE <u>47#</u>	@ <u>1.10</u> <u>51.70</u>
ASC	@

### EQUIPMENT

PUMP TRUCK # <u>431</u>	CEMENTER <u>Andrew Foxlund</u>	
BULK TRUCK # <u>891</u>	HELPER <u>Wayne McClellan</u>	
BULK TRUCK #	DRIVER <u>Marty Phillips</u>	
BULK TRUCK #	DRIVER	

TOTAL 499.20

DISCOUNT 45% 224.64

### REMARKS:

Take injection rate pressure to 1200<sup>psi</sup>  
 10<sup>psi</sup> Per min bleed off. Test for color  
 held. Spot 25 sks cement @ 2021'  
 Pull up to 1720' Reverse clean, set packer  
 Squeeze to 1500<sup>psi</sup> Pull 2 joints pressure  
 to start shut in

Thank you

### SERVICE

HANDLING <u>155 cu/ft</u>	@ <u>2.48</u> <u>384.40</u>
MILEAGE <u>2.25</u> tan miles	@ <u>7.19</u> <u>16.28</u>
DEPTH OF JOB <u>2021'</u>	
PUMP TRUCK CHARGE	<u>2483.59</u>
EXTRA FOOTAGE	@
HV MILEAGE <u>35</u> miles	@ <u>7.20</u> <u>252.00</u>
LV MILEAGE <u>35</u> miles	@ <u>4.40</u> <u>154.00</u>
<u>Squeeze manifold</u>	@ <u>430.00</u>
	@

TOTAL 4413.89

DISCOUNT 45% 1986.25

CHARGE TO: Ahorcambre Energy  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

### PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		
DISCOUNT	%	

To: Allied OFS, 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 Tim Solan

SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 4913.09  
 DISCOUNT 2210.89 (45%) IF PAID IN 30 DAYS  
 NET TOTAL 2702.19 IF PAID IN 30 DAYS



# INVOICE

P.O. Box 205803  
Dallas, TX 75320-5803

Invoice Number: 152699  
Invoice Date: Sep 1, 2016  
Page: 1

Voice: (832) 482-3742  
Fax: (832) 482-3738

Federal Tax I.D.#: 81-2169190

SEP 27 2016



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

<b>Customer ID</b>	<b>Field Ticket #</b>	<b>Payment Terms</b>	
Aber	68106	Net 30 Days	
<b>Job Location</b>	<b>Camp Location</b>	<b>Service Date</b>	<b>Due Date</b>
KS1-04	Oakley	Sep 1, 2016	10/1/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Christy Farms 1-22		
215.00	CEMENT MATERIALS	Lite	19.88	4,274.20
54.00	CEMENT MATERIALS	FloSeal	2.97	160.38
496.65	CEMENT SERVICE	PHDL	2.48	1,231.69
432.64	CEMENT SERVICE	DRYG	2.75	1,189.76
35.00	CEMENT SERVICE	MILV	4.40	154.00
35.00	CEMENT SERVICE	MIHV	7.70	269.50
1.00	CEMENT SERVICE	Port Collar	2,483.59	2,483.59
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	1,995.56	-1,995.56
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	2,397.84	-2,397.84
1.00	E-FORSLUND.MERRELL	SERVICE SUPERVISOR		
1.00	E-MCGHGHY.WAYNE	EQUIPMENT OPERATOR		
1.00	E-MITTEN.JADE	EQUIPMENT OPERATOR		

VENDOR NUMBER  
VOUCHER NUMBER  
SERIES OF RECEIPT  
CODE NUMBER  
1352008  
CHRISFA  
CEMENT PORT COLLAR  
APPROVAL [Signature]  
VERIFIED ACCURACY

<p>ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE</p> <p><b>Oct 1, 2016</b></p> <p>1 1/2% CHARGED THEREAFTER.</p>	Subtotal	5,369.72
	Sales Tax	207.32
	Total Invoice Amount	5,577.04
	Payment/Credit Applied	
	<b>TOTAL</b>	<b>5,577.04</b>

5CT 9-23-16



# ALLIED OFS, LLC

Federal Tax I.D. #81-2169190

68106

REMIT TO: Allied Ofs, LLC  
P.O. Box 205803  
Dallas, TX 75320-5803

SERVICE POINT:  
Oakley

DATE <u>9-1-16</u>	SEC. <u>22</u>	TWP. <u>16</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>9:30 AM</u>	JOB START <u>5:00 PM</u>	JOB FINISH <u>6:00 PM</u>
LEASE <u>Christy Farms</u>	WELL# <u>1-22</u>	LOCATION <u>Scott City 1.3 N 1/2 E Sinto</u>		COUNTY <u>Scott</u>	STATE <u>Ks</u>		
OLD OR NEW (Circle one)							

CONTRACTOR Wild West Well Service OWNER Same  
 TYPE OF JOB Port collar  
 HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
 CASING SIZE 5 1/2 DEPTH \_\_\_\_\_  
 TUBING SIZE 2 3/8 DEPTH 2323'  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL Port collar DEPTH 2323'  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

### EQUIPMENT

PUMP TRUCK CEMENTER Andrew Forstlund  
 # 431 HELPER Wayne Mighly  
 BULK TRUCK \_\_\_\_\_  
 # 891 DRIVER Jade Milton  
 BULK TRUCK \_\_\_\_\_  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

CEMENT  
 AMOUNT ORDERED 450 SKS 65/75 6% gel  
1/4 Flo-seal  
used 215 SKS cement  
 COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
Lite 215 sks @ 19.88 4274.20  
Flo-seal 54# @ 2.97 160.38  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL 4434.58

DISCOUNT 45% 1995.56

### REMARKS:

Pressure to 1200#, open port collar cut  
pump into port collar, cement above  
port collar, perf casing @ 2100' set packer  
@ 18L2'. Pressure back side to 500#  
take injection rate 2130 min 800#  
circulate cement to surface with  
215 sks mixed cement @ 12.3' last  
30 sks mixed @ 15#

Thank you

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

### SERVICE

HANDLING 491.65 Duff @ 2.48 1231.69  
 MILEAGE 2.25 Ton/mile 20.80 ton 1189.76  
 DEPTH OF JOB 2323'  
 PUMP TRUCK CHARGE \_\_\_\_\_ 2483.50  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 HV MILEAGE 35 miles @ 7.20 269.50  
 LV MILEAGE 35 miles @ 4.40 154.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL 5328.54

DISCOUNT 45% 2397.84

### PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ % \_\_\_\_\_

To: Allied Ofs, 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: Tim Sullivan

SIGNATURE [Signature]

THILL PRINTING CO., INC. - GREAT BEND, KS.

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 9,763.12  
 DISCOUNT 4,393.40 (45%) IF PAID IN 30 DAYS  
 NET TOTAL 5,369.71 IF PAID IN 30 DAYS





P.O. Box 205803  
 Dallas, TX 75320-5803

Voice: (832) 482-3742  
 Fax: (832) 482-3738

RECEIVED

SEP - 8 2016

WICHITA RECEIVED

SEP - 8 2016

GREAT BEND

*Surface*

# INVOICE

Invoice Number: 152582

Invoice Date: Aug 20, 2016

Page: 1

Federal Tax I.D.#: 81-2169190

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

Customer ID	Field Ticket #	Payment Terms	
Aber	68097	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 20, 2016	9/19/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	YOUNKIN-1-1- <i>Christy Farms # 1-22</i>		
165.00	CEMENT MATERIALS	Class A Common	17.90	2,953.50
465.00	CEMENT MATERIALS	Calcium Chloride	1.10	511.50
310.00	CEMENT MATERIALS	GEL	1.05	325.50
178.42	CEMENT SERVICE	PHDL	2.48	442.48
284.90	CEMENT SERVICE	DRYG	2.75	783.47
35.00	CEMENT SERVICE	MILV	4.40	154.00
35.00	CEMENT SERVICE	MIHV	7.70	269.50
1.00	CEMENT SERVICE	Surface Charge	1,512.25	1,512.25
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	1,705.73	-1,705.73
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	1,422.76	-1,422.76
1.00	E-FORSLUND.MERRELL	SERVICE SUPERVISOR		
1.00	E-RYAN.KEVIN	EQUIPMENT OPERATOR		
1.00	E-PHILLIPS.MONTY	EQUIPMENT OPERATOR		
1.00	E-MITTEN.JADE	EQUIPMENT OPERATOR		

ALL PRICES ARE NET, PAYABLE  
 30 DAYS FOLLOWING DATE OF  
 INVOICE. ONLY IF PAID ON OR  
 BEFORE

**Sep 19, 2016**

1 1/2% CHARGED  
 THEREAFTER.

Subtotal	3,823.71
Sales Tax	177.21
Total Invoice Amount	4,000.92
Payment/Credit Applied	
<b>TOTAL</b>	<b>4,000.92</b>





# ALLIED OFS, LLC

68097

Federal Tax I.D. #81-2169190

REMIT TO: Allied Ofs, LLC  
P.O. Box 205803  
Dallas, TX 75320-5803

SERVICE POINT:  
8-20-16

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
8-20-16	22	16	32		3:00 PM	3:30 AM	4:00 PM
Christy Farms LEASE	WELL# 1-22	LOCATION SCOTT CITY 13 W 1/2 E. S into					
COUNTY						SCOTT	STATE
OLD OR NEW (Circle one)							KS

CONTRACTOR W+W 10  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 260'  
 CASING SIZE 8 5/8 DEPTH 260'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 15'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 15 L.O BBL

### EQUIPMENT

PUMP TRUCK CEMENTER Andrew Forslund  
 # ~~891~~ HELPER Kevin Ryan  
 BULK TRUCK \_\_\_\_\_  
 # 891 DRIVER Monty Jade  
 BULK TRUCK DRIVER Phillips Mitten  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

### REMARKS:

Circulated approx 3 BBL TO PIT

Thank you

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

To: Allied Ofs, 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 Ricky Hilgers

SIGNATURE Ricky Hilgers

THIEL PRINTING CO., INC. - GREAT BEND, KS.

OWNER same

CEMENT  
 AMOUNT ORDERED 16.5 sks with 3% cc  
276 gal

COMMON 165 sks @ 17.90 2953.50  
 POZMIX @ \_\_\_\_\_  
 GEL 310<sup>sq</sup> @ 1.05 325.50  
 CHLORIDE 465<sup>sq</sup> @ 1.10 511.50  
 ASC @ \_\_\_\_\_

TOTAL 3790.50  
 DISCOUNT 45% 1705.73

### SERVICE

HANDLING 17842 cu/ft @ 2.48 442.48  
 MILEAGE 2.75 per mile @ 8.14 per ton 22.347  
 DEPTH OF JOB 260'  
 PUMP TRUCK CHARGE \_\_\_\_\_ 1512.25  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 HV MILEAGE 35 miles @ 2.70 269.50  
 LV MILEAGE 35 miles @ 4.40 154.00

TOTAL 3161.70  
 DISCOUNT 45% 1422.76

### PLUG & FLOAT EQUIPMENT

@ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ % \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 6,952.20  
 DISCOUNT 3,128.49 (45%) IF PAID IN 30 DAYS  
 NET TOTAL 3,823.71 IF PAID IN 30 DAYS



## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy Inc.**

10209 W Central STE 2  
Wichita KS 67212

ATTN: Grant Gaylon

### **Christy Farms #1-22**

### **22-16s-32w Scott,KS**

Start Date: 2016.08.24 @ 21:16:15

End Date: 2016.08.25 @ 04:50:15

Job Ticket #: 65602                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.08.29 @ 09:49:06



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Abercrombie Energy Inc.

**22-16s-32w Scott,KS**

10209 W Central STE 2  
Wichita KS 67212

**Christy Farms #1-22**

Job Ticket: 65602

**DST#: 1**

ATTN: Grant Gaylor

Test Start: 2016.08.24 @ 21:16:15

## GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:06:15

Time Test Ended: 04:50:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

**Interval: 4309.00 ft (KB) To 4345.00 ft (KB) (TVD)**

Reference Elevations: 2988.00 ft (KB)

Total Depth: 4345.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6751 Outside**

Press@RunDepth: 815.34 psig @ 4310.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.24

End Date:

2016.08.25

Last Calib.:

2016.08.25

Start Time: 21:16:15

End Time:

04:50:15

Time On Btm:

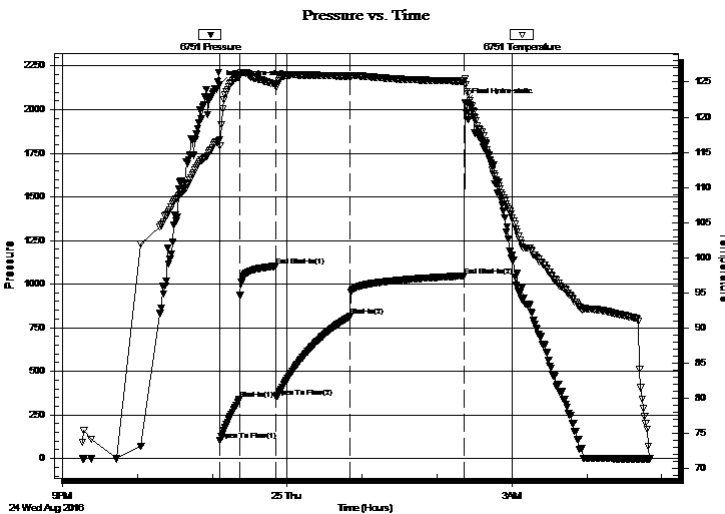
2016.08.24 @ 23:06:00

Time Off Btm:

2016.08.25 @ 02:22:15

**TEST COMMENT:** IF:BOB in 3 min.  
IS:No return blow  
FF:BOB in 4 min.  
FS:No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.07	116.80	Initial Hydro-static
1	105.37	115.89	Open To Flow (1)
16	338.34	125.75	Shut-In(1)
45	1102.89	124.73	End Shut-In(1)
46	353.85	124.31	Open To Flow (2)
105	815.34	125.84	Shut-In(2)
196	1046.58	125.15	End Shut-In(2)
197	2041.54	125.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
803.00	mcow 2%m 5%o 93%w (2 Collars)	10.16
898.00	ocmw 5%o 40%m 55%w	12.60

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Abercrombie Energy Inc.

**22-16s-32w Scott,KS**

10209 W Central STE 2  
Wichita KS 67212

**Christy Farms #1-22**

Job Ticket: 65602

**DST#: 1**

ATTN: Grant Gaylor

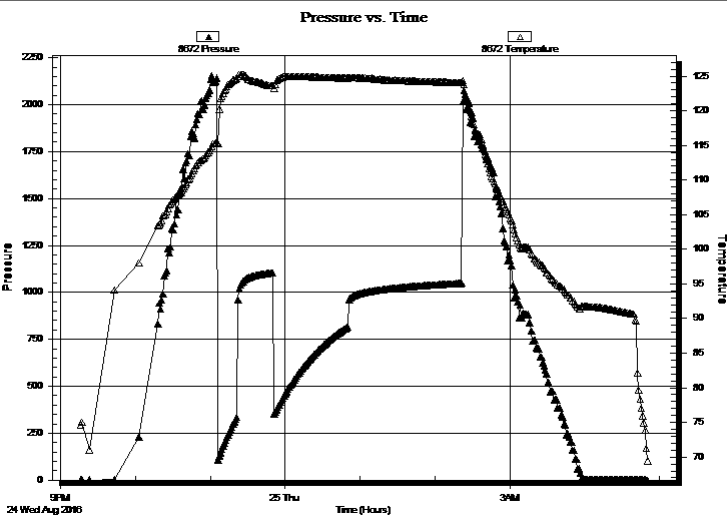
Test Start: 2016.08.24 @ 21:16:15

### GENERAL INFORMATION:

Formation: **LKC L**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:06:15  
 Time Test Ended: 04:50:15  
 Interval: **4309.00 ft (KB) To 4345.00 ft (KB) (TVD)**  
 Total Depth: 4345.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Mike Roberts  
 Unit No: 81  
 Reference Elevations: 2988.00 ft (KB)  
 2983.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8672 Inside**  
 Press@RunDepth: psig @ 4310.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.08.24 End Date: 2016.08.25 Last Calib.: 2016.08.25  
 Start Time: 21:16:15 End Time: 04:50:15 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF:BOB in 3 min.  
 IS:No return blow  
 FF:BOB in 4 min.  
 FS:No return blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
803.00	mcow 2%o 5%o 93%w (2 Collars)	10.16
898.00	ocmw 5%o 40%o 55%w	12.60

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abercrombie Energy Inc.

**22-16s-32w Scott,KS**

10209 W Central STE 2  
Wichita KS 67212

**Christy Farms #1-22**

Job Ticket: 65602

**DST#: 1**

ATTN: Grant Gaylor

Test Start: 2016.08.24 @ 21:16:15

## Tool Information

Drill Pipe:	Length: 4169.00 ft	Diameter: 3.80 inches	Volume: 58.48 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 59.08 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4309.00 ft			Final	71000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	64.00 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			4282.00	
Shut In Tool	5.00			4287.00	
Hydraulic tool	5.00			4292.00	
Jars	5.00			4297.00	
Safety Joint	3.00			4300.00	
Packer	5.00			4305.00	28.00 Bottom Of Top Packer
Packer	4.00			4309.00	
Stubb	1.00			4310.00	
Recorder	0.00	8672	Inside	4310.00	
Recorder	0.00	6751	Outside	4310.00	
Perforations	30.00			4340.00	
Bullnose	5.00			4345.00	36.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Abercrombie Energy Inc.

**22-16s-32w Scott,KS**

10209 W Central STE 2  
Wichita KS 67212

**Christy Farms #1-22**

Job Ticket: 65602

**DST#: 1**

ATTN: Grant Gaylor

Test Start: 2016.08.24 @ 21:16:15

### 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:

15000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
803.00	mcow 2% <sub>m</sub> 5% <sub>o</sub> 93% <sub>w</sub> (2 Collars)	10.162
898.00	ocmw 5% <sub>o</sub> 40% <sub>m</sub> 55% <sub>w</sub>	12.597

Total Length: 1701.00 ft      Total Volume: 22.759 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .521@58.3\*= 15,000 ppm

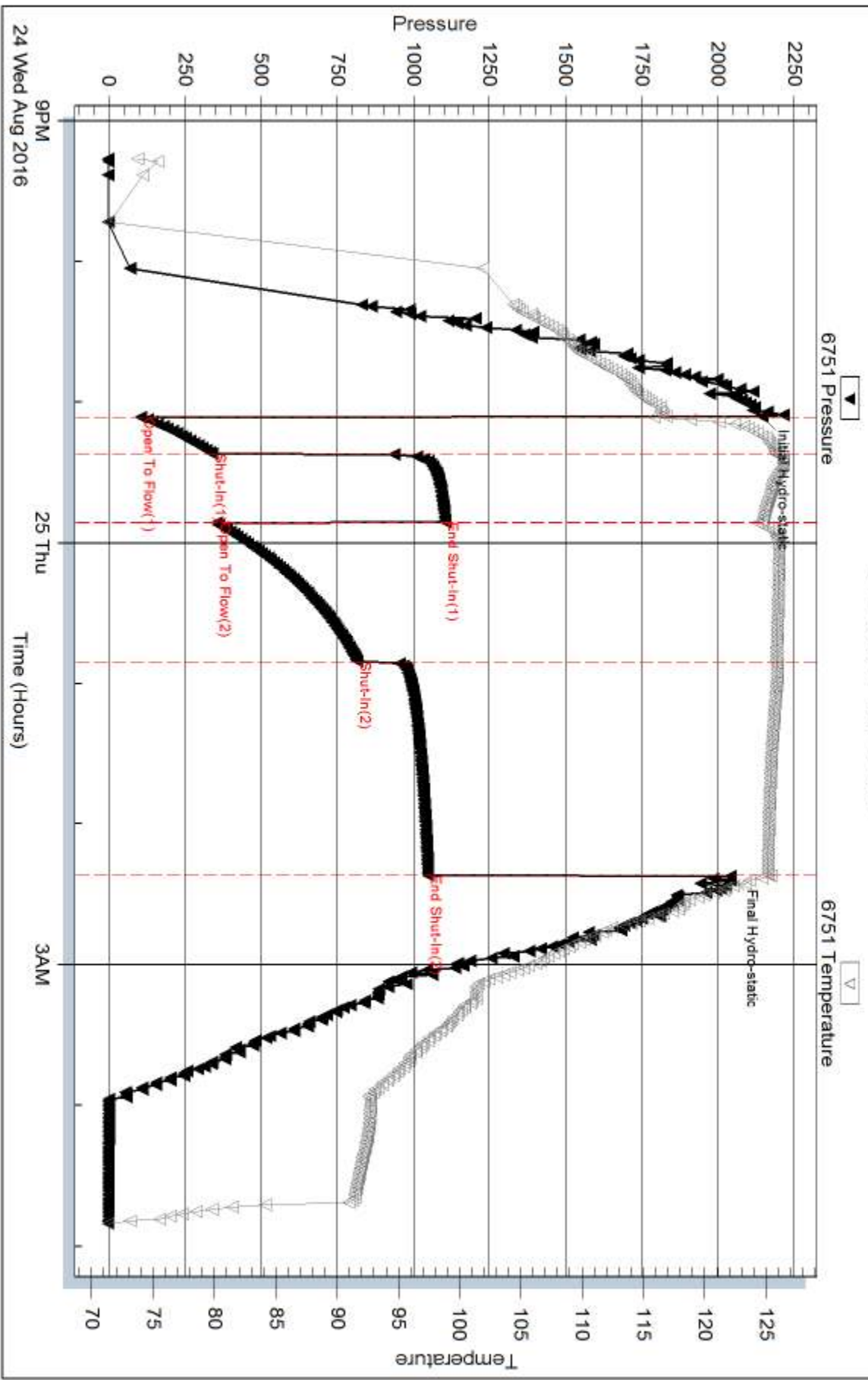
Serial #: 6751

Outside Abercrombie Energy Inc.

Christy Farms #1-22

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 65602

Printed: 2016.08.29 @ 09:49:08

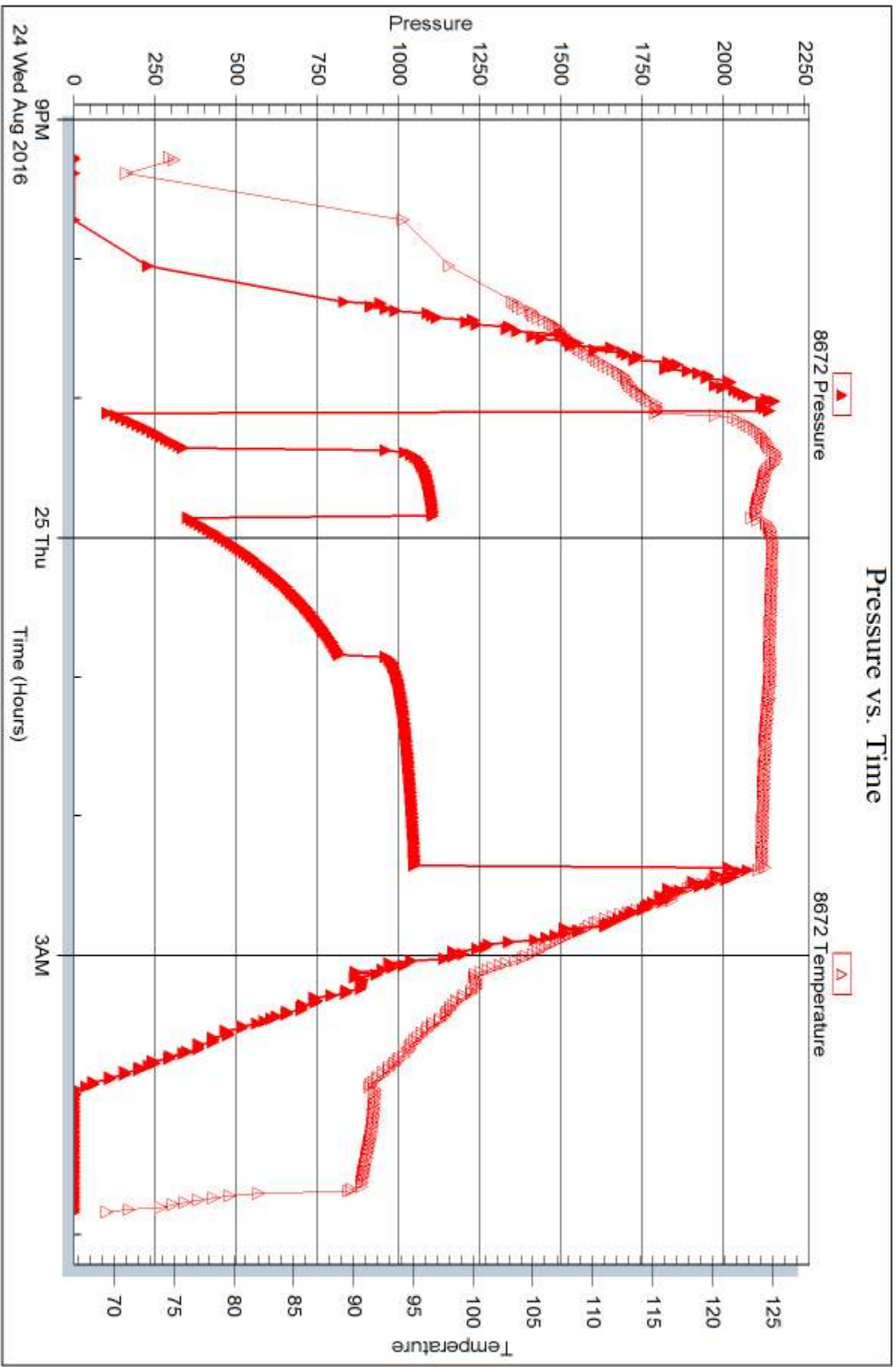
Serial #: 8672

Inside

Abercrombie Energy Inc.

Christy Farms #1-22

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65602

Printed: 2016.08.29 @ 09:49:08





## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy Inc.**

10209 W Central STE 2  
Wichita KS 67212

ATTN: Grant Gaylon

### **Christy Farms #1-22**

### **22-16s-32w Scott,KS**

Start Date: 2016.08.25 @ 19:41:15

End Date: 2016.08.26 @ 03:13:45

Job Ticket #: 65603                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.08.29 @ 09:48:45



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Abercrombie Energy Inc.

**22-16s-32w Scott,KS**

10209 W Central STE 2  
Wichita KS 67212

**Christy Farms #1-22**

Job Ticket: 65603

**DST#: 2**

ATTN: Grant Gaylor

Test Start: 2016.08.25 @ 19:41:15

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:22:45

Time Test Ended: 03:13:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

**Interval: 4392.00 ft (KB) To 4473.00 ft (KB) (TVD)**

Reference Elevations: 2988.00 ft (KB)

Total Depth: 4473.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6751 Outside**

Press@RunDepth: 263.74 psig @ 4459.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.25

End Date:

2016.08.26

Last Calib.:

2016.08.26

Start Time: 19:41:15

End Time:

03:13:45

Time On Btm:

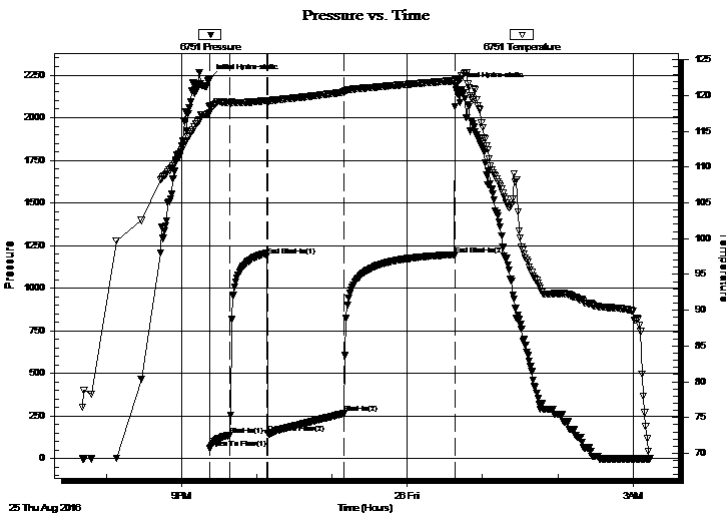
2016.08.25 @ 21:22:30

Time Off Btm:

2016.08.26 @ 00:38:45

**TEST COMMENT:** IF:BOB in 14 min.  
IS:Return blow built to 1/4" blow and died in 22 min.  
FF:BOB in 13 min.  
FS:Return blow built to 1" blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.29	118.58	Initial Hydro-static
1	59.85	117.59	Open To Flow (1)
16	134.98	118.93	Shut-In(1)
46	1189.94	119.29	End Shut-In(1)
46	147.54	118.93	Open To Flow (2)
107	263.74	120.45	Shut-In(2)
196	1197.05	122.08	End Shut-In(2)
197	2183.32	122.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.50	ocgm 5%o 25%g 70%m	0.30
60.50	ocmg 12%o 30%m 58%g	0.30
124.00	gcmo 18%g 30%m 52%o	1.74
62.00	gcom 10%g 30%o 60%m	0.87
216.00	mcgo 2%m 28%g 70%o	3.03

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Abercrombie Energy Inc.

22-16s-32w Scott,KS

10209 W Central STE 2  
Wichita KS 67212

Christy Farms #1-22

Job Ticket: 65603

DST#: 2

ATTN: Grant Gaylor

Test Start: 2016.08.25 @ 19:41:15

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:22:45

Time Test Ended: 03:13:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: **4392.00 ft (KB) To 4473.00 ft (KB) (TVD)**

Reference Elevations: 2988.00 ft (KB)

Total Depth: 4473.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **8672** Inside

Press@RunDepth: psig @ 4459.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.25

End Date:

2016.08.26

Last Calib.:

2016.08.26

Start Time: 19:41:15

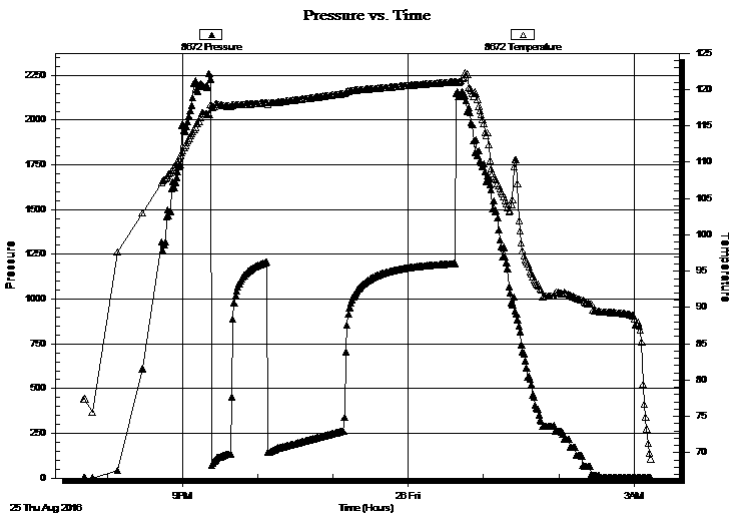
End Time:

03:13:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 14 min.  
IS:Return blow built to 1/4" blow and died in 22 min.  
FF:BOB in 13 min.  
FS:Return blow built to 1" blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.50	ocgm 5%o 25%g 70%m	0.30
60.50	ocmg 12%o 30%m 58%g	0.30
124.00	gcmo 18%g 30%m 52%o	1.74
62.00	gcom 10%g 30%o 60%m	0.87
216.00	mcgo 2%m 28%g 70%o	3.03

## 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 Inc.

**22-16s-32w Scott,KS**

10209 W Central STE 2  
Wichita KS 67212

**Christy Farms #1-22**

Job Ticket: 65603

**DST#: 2**

ATTN: Grant Gaylor

Test Start: 2016.08.25 @ 19:41:15

## Tool Information

Drill Pipe:	Length: 4263.00 ft	Diameter: 3.80 inches	Volume: 59.80 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4392.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	109.00 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			4365.00	
Shut In Tool	5.00			4370.00	
Hydraulic tool	5.00			4375.00	
Jars	5.00			4380.00	
Safety Joint	3.00			4383.00	
Packer	5.00			4388.00	28.00 Bottom Of Top Packer
Packer	4.00			4392.00	
Stubb	1.00			4393.00	
Perforations	1.00			4394.00	
Change Over Sub	1.00			4395.00	
Drill Pipe	63.00			4458.00	
Change Over Sub	1.00			4459.00	
Recorder	0.00	8672	Inside	4459.00	
Recorder	0.00	6751	Outside	4459.00	
Perforations	9.00			4468.00	
Bullnose	5.00			4473.00	81.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>109.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Abercrombie Energy Inc.

**22-16s-32w Scott,KS**

10209 W Central STE 2  
Wichita KS 67212

**Christy Farms #1-22**

Job Ticket: 65603

**DST#: 2**

ATTN: Grant Gaylon

Test Start: 2016.08.25 @ 19:41:15

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.50	ocgm 5%o 25%g 70%m	0.298
60.50	ocmg 12%o 30%m 58%g	0.298
124.00	gcmo 18%g 30%m 52%o	1.739
62.00	gcom 10%g 30%o 60%m	0.870
216.00	mcgo 2%m 28%g 70%o	3.030

Total Length: 523.00 ft

Total Volume: 6.235 bbl

Num Fluid Samples: 0

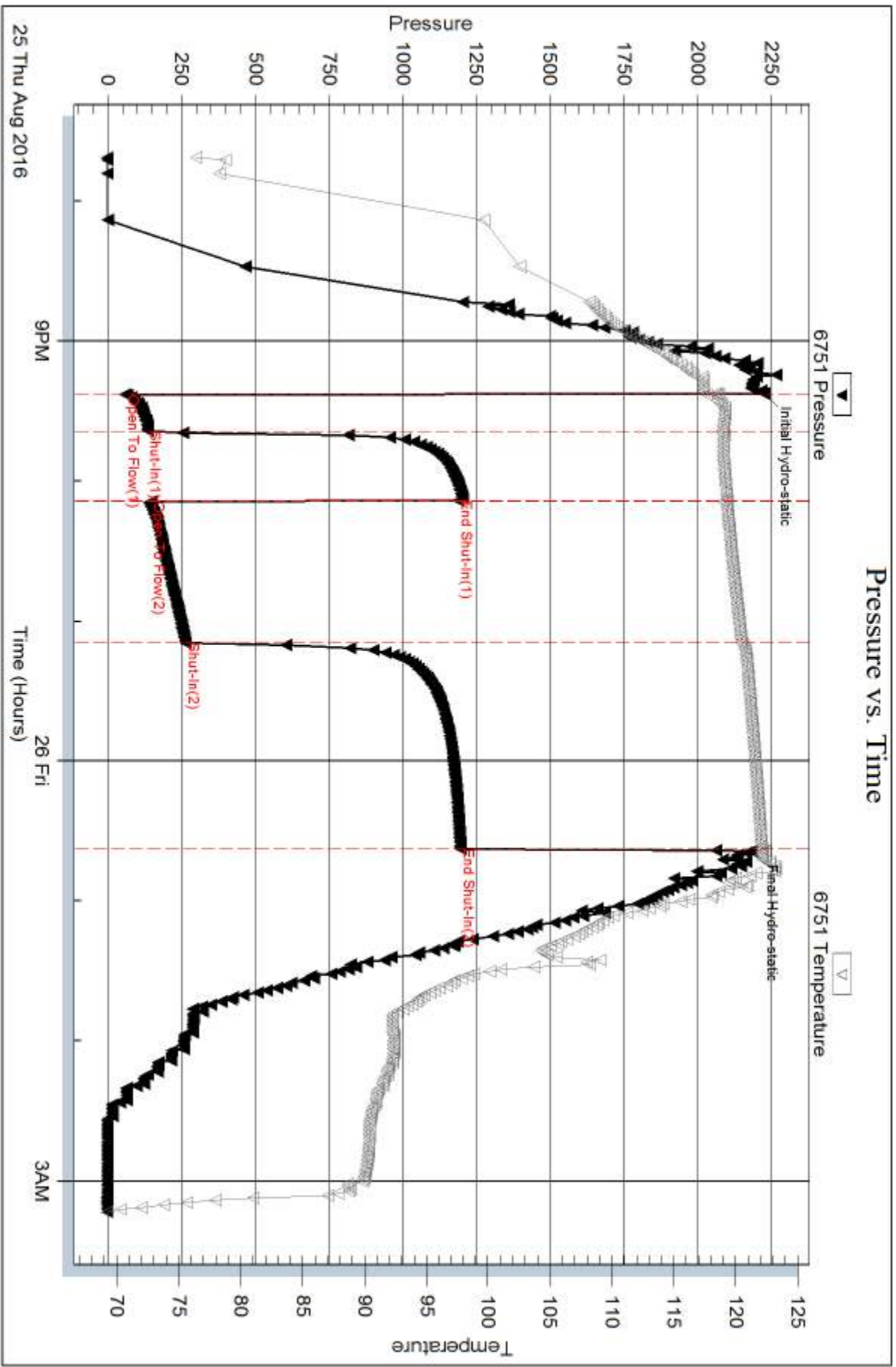
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



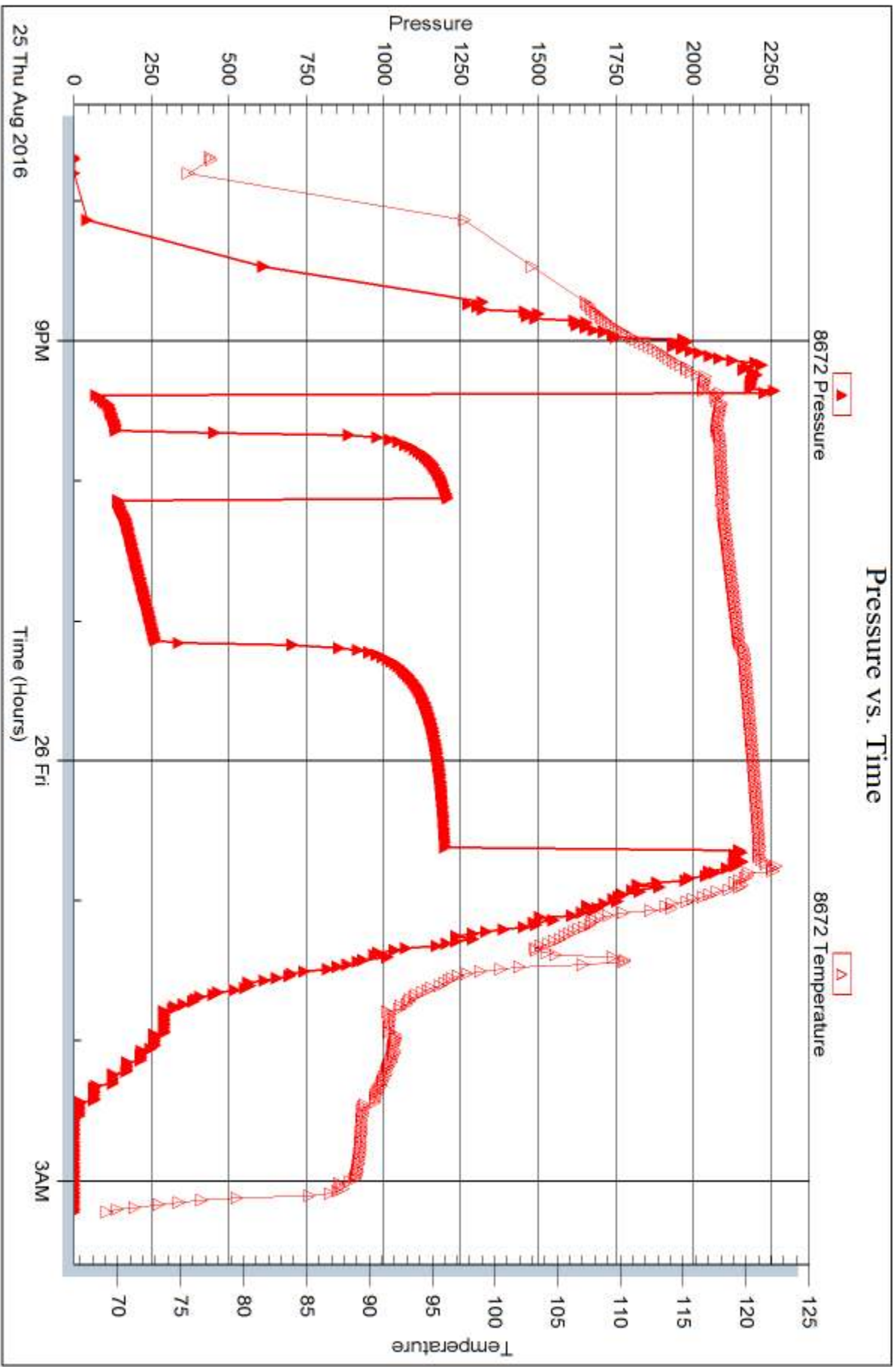
Serial #: 8672

Inside

Abercrombie Energy Inc.

Christy Farms #1-22

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65603

Printed: 2016.08.29 @ 09:48:46



## DRILL STEM TEST REPORT

Prepared For: **Abercrombie Energy Inc.**

10209 W Central STE 2  
Wichita KS 67212

ATTN: Grant Gaylon

### **Christy Farms #1-22**

### **22-16s-32w Scott,KS**

Start Date: 2016.08.26 @ 22:00:15

End Date: 2016.08.27 @ 04:41:00

Job Ticket #: 65604                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.08.29 @ 09:48:15





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Abercrombie Energy Inc.

**22-16s-32w Scott,KS**

10209 W Central STE 2  
Wichita KS 67212

**Christy Farms #1-22**

Job Ticket: 65604

**DST#: 3**

ATTN: Grant Gaylor

Test Start: 2016.08.26 @ 22:00:15

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:05:30

Time Test Ended: 04:41:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

**Interval: 4571.00 ft (KB) To 4627.00 ft (KB) (TVD)**

Reference Elevations: 2988.00 ft (KB)

Total Depth: 4627.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6751 Outside**

Press@RunDepth: 35.49 psig @ 4607.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.26

End Date:

2016.08.27

Last Calib.:

2016.08.27

Start Time: 22:00:15

End Time:

04:41:00

Time On Btm:

2016.08.27 @ 00:05:15

Time Off Btm:

2016.08.27 @ 01:53:00

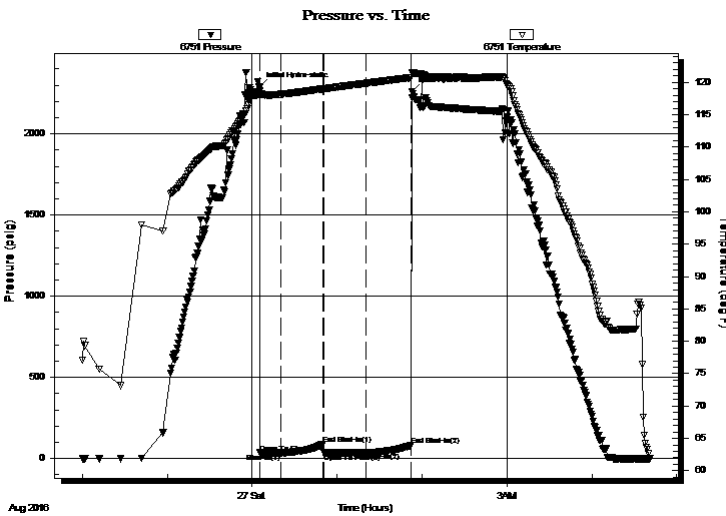
TEST COMMENT: IF:Weak surfae blow died in 8 min.

IS:No return blow

FF:No blow

FS:No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2289.18	118.66	Initial Hydro-static
1	34.34	117.94	Open To Flow (1)
15	34.65	118.15	Shut-In(1)
45	88.06	119.00	End Shut-In(1)
46	34.90	118.99	Open To Flow (2)
75	35.49	119.84	Shut-In(2)
107	80.80	120.72	End Shut-In(2)
108	2260.51	121.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud w ith oil spots	0.01

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Abercrombie Energy Inc.

**22-16s-32w Scott, KS**

10209 W Central STE 2  
Wichita KS 67212

**Christy Farms #1-22**

Job Ticket: 65604

**DST#: 3**

ATTN: Grant Gaylor

Test Start: 2016.08.26 @ 22:00:15

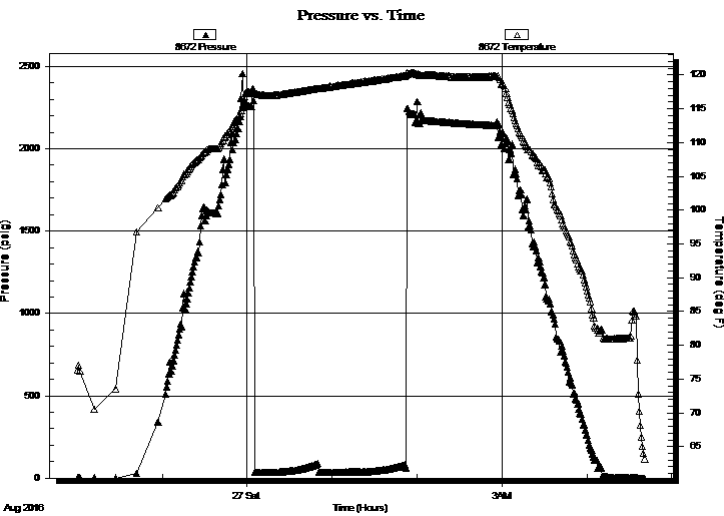
## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:05:30  
 Time Test Ended: 04:41:00  
 Interval: **4571.00 ft (KB) To 4627.00 ft (KB) (TVD)**  
 Total Depth: 4627.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 81  
 Reference Elevations: 2988.00 ft (KB)  
 2983.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8672** Inside

Press@RunDepth: psig @ 4607.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.08.26 End Date: 2016.08.27 Last Calib.: 2016.08.27  
 Start Time: 22:00:15 End Time: 04:41:00 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF:Weak surfae blow died in 8 min.  
 IS:No return blow  
 FF:No blow  
 FS:No return blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud w ith oil spots	0.01

\* 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 Inc.

**22-16s-32w Scott,KS**

10209 W Central STE 2  
Wichita KS 67212

**Christy Farms #1-22**

Job Ticket: 65604

**DST#: 3**

ATTN: Grant Gaylor

Test Start: 2016.08.26 @ 22:00:15

## Tool Information

Drill Pipe:	Length: 4452.00 ft	Diameter: 3.80 inches	Volume: 62.45 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4571.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4544.00	
Shut In Tool	5.00			4549.00	
Hydraulic tool	5.00			4554.00	
Jars	5.00			4559.00	
Safety Joint	3.00			4562.00	
Packer	5.00			4567.00	28.00 Bottom Of Top Packer
Packer	4.00			4571.00	
Stubb	1.00			4572.00	
Perforations	1.00			4573.00	
Change Over Sub	1.00			4574.00	
Drill Pipe	32.00			4606.00	
Change Over Sub	1.00			4607.00	
Recorder	0.00	8672	Inside	4607.00	
Recorder	0.00	6751	Outside	4607.00	
Perforations	15.00			4622.00	
Bullnose	5.00			4627.00	56.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>84.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Abercrombie Energy Inc.

**22-16s-32w Scott,KS**

10209 W Central STE 2  
Wichita KS 67212

**Christy Farms #1-22**

Job Ticket: 65604

**DST#: 3**

ATTN: Grant Gaylon

Test Start: 2016.08.26 @ 22:00:15

### 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: 53.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud w ith oil spots	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

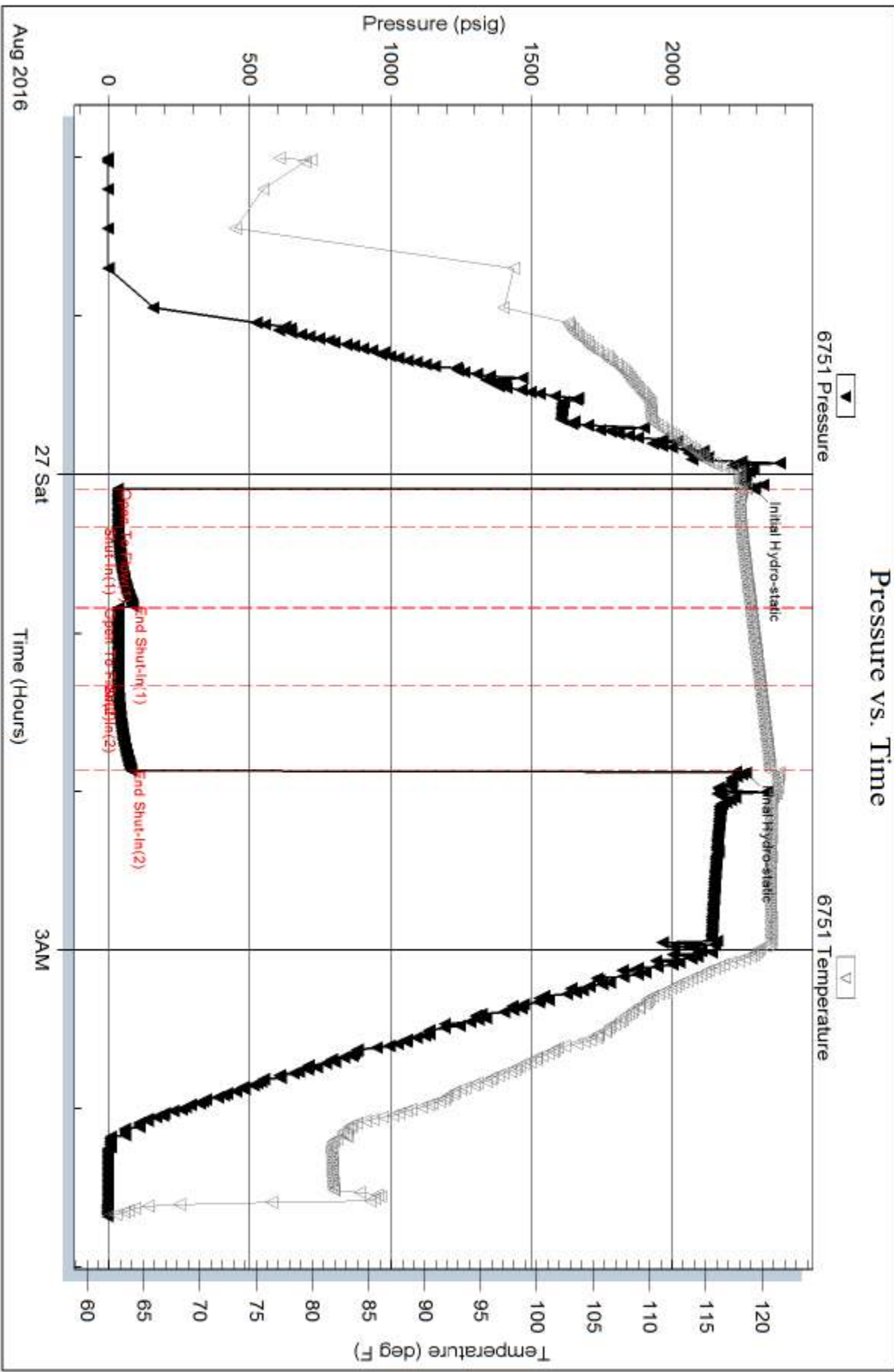
Num Gas Bombs: 0

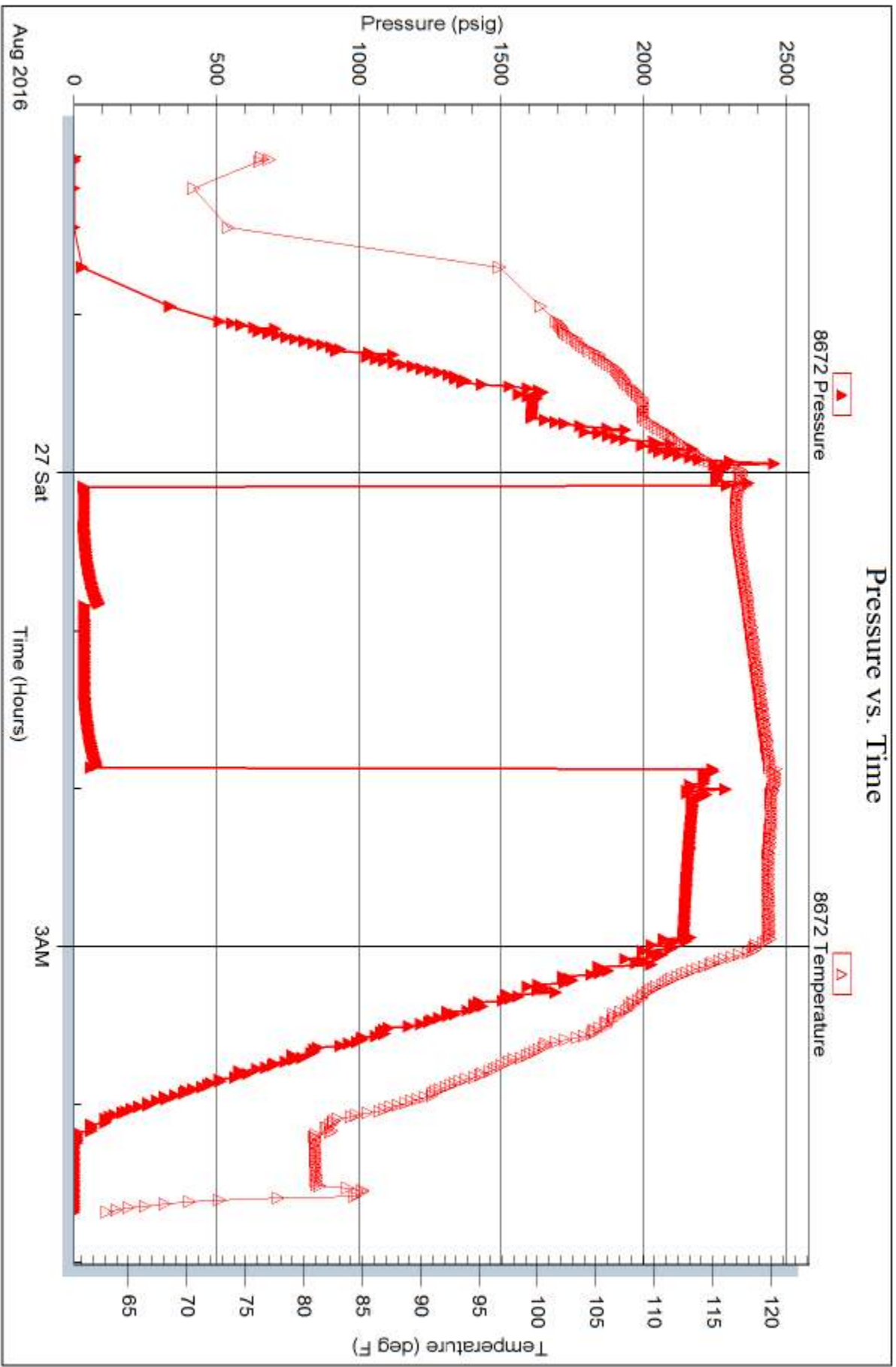
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65602**

Well Name & No. Christy Farms 1-22 Test No. 1 Date 8-24-16  
 Company Abercrombie Energy Inc. Elevation 2988 KB 2983 GL  
 Address 10209 W Central STE 2 Wichita KS 67212  
 Co. Rep / Geo. Grant Gaylon Rig WW10  
 Location: Sec. 22 Twp. 16S Rge. 32W Co. SCOTT State KS

Interval Tested 4309-4345 Zone Tested L  
 Anchor Length 36 Drill Pipe Run 4169 Mud Wt. 9.1  
 Top Packer Depth 4304 Drill Collars Run 124 Vis 53  
 Bottom Packer Depth 4309 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4345 Chlorides 2200 ppm System LCM 2  
 Blow Description IF: BOB in 3 Min.  
IS: No Return Blow  
FF: BOB in 4 Min  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>803</u>	<u>Feet of <del>200</del> MCOW (2 collars)</u>	<u>5</u>	<u>93</u>	<u>2</u>	
<u>898</u>	<u>Feet of 0CMW</u>	<u>5</u>	<u>55</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1701 BHT 125 Gravity — API RW 1521 @ 58.3° F Chlorides 15000 ppm

(A) Initial Hydrostatic <u>2144</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>19:35</u>
(B) First Initial Flow <u>105</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00/-</u>	T-Started <u>21:16</u>
(C) First Final Flow <u>338</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>23:05</u>
(D) Initial Shut-In <u>1102</u>	<input type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>02:20</u>
(E) Second Initial Flow <u>353</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>04:50</u>
(F) Second Final Flow <u>815</u>	<input checked="" type="checkbox"/> Mileage <u>30RT = \$22.50</u>	Comments
(G) Final Shut-In <u>1046</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2041</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1497.50</u>
	Sub Total <u>\$1497.50/-</u>	MP/DST Disc't

Approved By [Signature] 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65603**

Well Name & No. Christy Farms 1-22 Test No. 2 Date 8-25-16  
 Company Abercrombie Energy Inc Elevation 2988 KB 2983 GL  
 Address 10209 W Central STE 2 Wichita KS 67212  
 Co. Rep / Geo. Grant Gaylon Rig WW10  
 Location: Sec. 22 Twp. 16s Rge. 32W Co. SCOTT State KS

Interval Tested 4392-4473 Zone Tested Marmaton  
 Anchor Length 81 Drill Pipe Run 4263 Mud Wt. 9.2  
 Top Packer Depth 4387 Drill Collars Run 121 Vis 52  
 Bottom Packer Depth ~~4473~~ 4392 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4473 Chlorides 3500 ppm System LCM 2  
 Blow Description IF: BOB IN 14 MIN  
IS: Return Blow Built to 4" + Dried in 22 Min.  
FF: BOB IN 13 MIN  
FS: Return Blow Built to 1"

Rec	Feet of		%gas	%oil	%water	%mud
216	Feet of	mcgo	28	70	2	
62	Feet of	gcom	10	30	60	
124	Feet of	gcmo	18	52	30	
60.5	Feet of	OCmg (COLLAR)	58	12	30	
60.5	Feet of	OCgm (COLLAR)	25	5	70	
Rec Total	523	BHT 122	Gravity 26	API RW 1 @ 1	°F Chlorides 1	ppm

(A) Initial Hydrostatic 2227  
 (B) First Initial Flow 59  
 (C) First Final Flow 134  
 (D) Initial Shut-In 1189  
 (E) Second Initial Flow 147  
 (F) Second Final Flow 263  
 (G) Final Shut-In 1197  
 (H) Final Hydrostatic 2183

Test \$1150.00/-  
 Jars \$250.00/-  
 Safety Joint \$75.00/-  
 Circ Sub NC  
 Hourly Standby  
 Mileage 30RT \$22.50/-  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total \$1497.50/-

T-On Location 18:35  
 T-Started 19:41  
 T-Open 09:23  
 T-Pulled 00:38  
 T-Out 03:13

Comments NO WATER  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1497.50  
 MP/DST Disc't

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 60  
 Final Shut-In 90

Approved By [Signature] Our Representative Mike Roberts

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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65604

Well Name & No. Christy Farms 1-22 Test No. 3 Date 8-26-16  
 Company Abercrombie Energy Inc Elevation 2988 KB 2983 GL  
 Address 10209 W Central STE 2 Wichita KS 67212  
 Co. Rep / Geo. Mark Gaylon Rig WW10  
 Location: Sec. 22 Twp. 16S Rge. 32W Co. SCOTT State KS

Interval Tested 4571-4627 Zone Tested Johnson  
 Anchor Length 56 Drill Pipe Run 4452 Mud Wt. 9.4  
 Top Packer Depth 4566 Drill Collars Run 121 Vis 53  
 Bottom Packer Depth 4571 Wt. Pipe Run Ø WL 9.6  
 Total Depth 4627 Chlorides 3600 ppm System LCM 2  
 Blow Description IF: Weak Surface Blow Dried in 8 Min.  
IS: No Return Blow  
FF: No Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>MUD with 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 2 BHT 121 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic	<u>2289</u>	<input checked="" type="checkbox"/> Test	<u>\$1150.00/-</u>	T-On Location	<u>21:05</u>
(B) First Initial Flow	<u>34</u>	<input checked="" type="checkbox"/> Jars	<u>\$250.00/-</u>	T-Started	<u>22:00</u>
(C) First Final Flow	<u>34</u>	<input checked="" type="checkbox"/> Safety Joint	<u>\$75.00/-</u>	T-Open	<u>00:05</u>
(D) Initial Shut-In	<u>88</u>	<input checked="" type="checkbox"/> Circ Sub		T-Pulled	<u>01:50</u>
(E) Second Initial Flow	<u>34</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>04:41</u>
(F) Second Final Flow	<u>35</u>	<input checked="" type="checkbox"/> Mileage	<u>30RT = \$22.50/-</u>	Comments	<u>Loaded tools</u>
(G) Final Shut-In	<u>80</u>	<input type="checkbox"/> Sampler	<u>X 2 ↑</u>		<u>06:00 on 8-28-</u>
(H) Final Hydrostatic	<u>2260</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Sub Total 1520 \$1497.00/-

Approved By Mike Glyn Our Representative Mike Roberts

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.