

Confidentiality Requested:

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION 1190390

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 #	API No. 15				
Name:	Spot Description:				
Address 1:					
Address 2:	Feet from Dorth / South Line of Section				
City: State: Zip:+	Feet from East / West Line of Section				
Contact Person:	Footages Calculated from Nearest Outside Section Corner:				
Phone: ()					
CONTRACTOR: License #	GPS Location: Lat:, Long:				
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)				
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84				
Purchaser:	County:				
Designate Type of Completion:	Lease Name: Well #:				
New Well Re-Entry Workover	Field Name:				
	Producing Formation:				
	Elevation:       Ground:       Kelly Bushing:         Total Vertical Depth:       Plug Back Total Depth:				
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet				
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?				
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet				
Operator:	If Alternate II completion, cement circulated from:				
Well Name:	feet depth to:w/sx cmt.				
Original Comp. Date: Original Total Depth:					
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan				
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)				
	Chloride content: ppm Fluid volume: bbls				
Commingled Permit #:	Dewatering method used:				
Dual Completion Permit #:					
	Location of fluid disposal if hauled offsite:				
GSW Permit #:	Operator Name:				
	Lease Name: License #:				
Soud Data or Data Data Data Data TD Completion Data or	Quarter Sec Twp S. R East _ West				
Recompletion Date Reached ID Completion Date of Recompletion Date	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:					

	Page Iwo	1190390
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS. Chain important tang of formations panetrated De	tail all aaraa Bapart all fina	Lancing of drill stome tosts giving interval tested, time tool

**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 Ye (Attach Additional Sheets)		Yes No		_og Formatio	on (Top), Depth an	d Datum	Sample
Samples Sent to Geological Survey		Yes No	Nan	ie		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING Report all strings set-	RECORD N	ew Used ermediate, producti	on, 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 / SQ	JEEZE RECORD			
Purpose: Depth Top Bottom Type of Cement		Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing Plug Back TD							
Plug Off Zone							
Did you perform a hydraulic	fracturing treatment o	n this well?		Yes	No (If No, skij	o questions 2 an	d 3)

Did you perform a hydraulic fracturing treatment on this well?
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?

No	(If No, skip questions 2 and 3)
No	(If No, skip question 3)

(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, Ce (Amount and Kino	ement Squeeze Record I of Material Used)	Depth			
TUBING RECORD:	Siz	e:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed	Producti	on, SWD or ENHF	<b>}</b> .	Producing M	ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
					-D) (A)					
					Comp.	Commingled	PRODUCTION INTE	:HVAL:		
Vented         Sold         Used on Lease           (If vented, Submit ACO-18.)			Other (Specify)		(Submit A	ACO-5)	(Submit ACO-4)			

Yes

Yes

No

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Abercrombie Energy, LLC
Well Name	Moore 'A' 1-9
Doc ID	1190390

Tops

Name	Тор	Datum
ANHYDRITE	2272	+816
BASE ANHYDRITE	2285	+803
HEEBNER	3953	-865
LANSING	4002	-914
STARK SH	4308	-1220
ВКС	4448	-1360
MARMATON	4473	-1385
PAWNEE	4571	-1483
FT SCOTT	4594	-1506
CHEROKEE SH	4607	-1519
MORROW SH	4790	-1702
MISS	4884	1796

Form	ACO1 - Well Completion
Operator	Abercrombie Energy, LLC
Well Name	Moore 'A' 1-9
Doc ID	1190390

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	24	345	COMMON 2% GEL 3% CC	210	
PRODUC TION	12.25	5.5	15.5	4999	ASC 10% salt, 2% gel, 5#gil	250	
PORT COLLAR	12.25	5.5	15.5	4999	ASC 10% salt, 2% gel 5#gil	250	



# DRILL STEM TEST REPORT

# Prepared For: Abercrombie Energy, LLC

10209 W Central STE 2 Wichita KS 67212

ATTN: Wes Hanson

#### Moore #1-9

### 9-20s-34w Scott,KS

Start Date: 2012.11.08 @ 22:40:00 End Date: 2012.11.09 @ 10:56:30 Job Ticket #: 48920 DST #: 1

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

	DRILL STEM TES	REPORT		
	Abercrombie Energy, LLC	9-20s-34w Scott,K	S	
ESTING , INC.	10209 W Central STE 2 Wichita KS 67212	Moore #1-9		
		Job Ticket: 48920	DST#:1	
	ATTN: Wes Hanson	Test Start: 2012.11.08	@ 22:40:00	
GENERAL INFORMATION:				
Formation:Kansas City " K & LDeviated:NoWhipstock:Time Tool Opened:04:49:00Time Test Ended:10:56:30	ft (KB)	Test Type: Conventio Tester: Jace McK Unit No: 46	onal Bottom Hole (Initial) ünney	
Interval: 4298.00 ft (KB) To 43	884.00 ft (KB) (TVD)	Reference Elevations:	3069.00 ft (KB)	
Total Depth: 4384.00 ft (KB) (T Hole Diameter: 7.88 inches Hole	/D) Condition: Fair	KB to GR/CE	3059.00 ft (CF)	
			10.00 H	
Serial #: 8675InsidePress@RunDepth:258.82 psigStart Date:2012.11.08Start Time:22:40:15	<ul><li>4299.00 ft (KB)</li><li>End Date:</li><li>End Time:</li></ul>	Capacity:8000.00psig2012.11.09Last Calib.:2012.11.0910:56:30Time On Btm:2012.11.09 @ 04:47:00Time Off Btm:2012.11.09 @ 08:38:15		
TEST COMMENT: B.O.B. in 24 min. Bled off for 5 mi B.O.B. in 28 min. Bled off for 5 mi	n. No return blow n. No return blow			
Pressure vs. ]	-Îme ⊡⊽ 9975 Tomorriun	PRESSURE SUM	MARY	
9572 Pressure 2000 4000 4000 4000 4000 4000 4000 400	BYTS Temperature BYTS Tempera	Time         Pressure         Temp (bin.)         Annota           0         2198.45         106.65         Initial Hy           2         24.54         105.71         Open To           33         122.44         111.96         Shut-In(           78         125.81         112.01         Open To           138         258.82         115.31         Shut-In(           231         1104.51         114.14         End Shu           232         2138.39         114.12         Final Hy	ation dro-static p Flow (1) 1) it-ln(1) p Flow (2) 2) it-ln(2) dro-static	
Recovery	······································	Gas Rates		
Length (ft) Description	Volume (bbl)	Choke (inches) Pre	essure (psig) Gas Rate (Mcf/d)	
76.00 W cm 10% W 90% m	1.07			
124.00 mcw 10%M90%w	4.30			
	+ + +			

	DRILL STEM TES	DRILL STEM TEST REPORT						
	Abercrombie Energy, LLC		9-20s-34w	v Scott,KS				
ESTING , INC.	10209 W Central STE 2		Moore #1	-9				
	Wichita KS 67212		Job Ticket:	48920 <b>DST#: 1</b>				
	ATTN: Wes Hanson		Test Start:	2012.11.08 @ 22:40:00				
GENERAL INFORMATION:								
Formation:Kansas City " K & LDeviated:NoWhipstock:Time Tool Opened:04:49:00Time Test Ended:10:56:30	ft (KB)		Test Type: Tester: Unit No:	Conventional Bottom Hole (Initial) Jace McKinney 46				
Interval: 4298.00 ft (KB) To 43	384.00 ft (KB) (TVD)		Reference I	Elevations: 3069.00 ft (KB)				
Total Depth: 4384.00 ft (KB) (T Hole Diameter: 7.88 inchesHole	∨D) e Condition: Fair		K	3059.00 ft (CF) 3 to GR/CF: 10.00 ft				
Serial #: 8650OutsidePress@RunDepth:psigStart Date:2012.11.08Start Time:22:40:15	<ul> <li>@ 4299.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> </ul>	2012.11.09 10:56:15	Capacity: Last Calib.: Time On Btm: Time Off Btm:	8000.00 psig 2012.11.09				
TEST COMMENT: B.O.B. in 24 min. Bled off for 5 mi B.O.B. in 28 min. Bled off for 5 mi	n. No return blow n. No return blow							
Pressure vs. 1	Fime		PRESSL	IRE SUMMARY				
8500 Presure 2000 1750 100	BOD Temperature	Time (Min.)	Pressure Temp (psig) (deg F	Annotation )				
Recovery			G	as Rates				
Length (ft) Description	Volume (bbl)		Chok	e (inches) Pressure (psig) Gas Rate (Mcf/d)				
76.00 w cm 10%W 90%m	1.07							
310.00 mcw 40%M 60%w	4.35							
124.00 III.W 10%10190%W	1.74							

(On7		DRI	LL STE	TOOL DIAGRAM				
			Abercr	ombie Energ	y, LLC		9-20s-34w Scott,KS	
	<b> </b> ES7	<b>TING</b> , INC.	10209	W Central S	TE 2		Moore #1-9	
			Wichita	KS 67212			Job Ticket: 48920	DST#:1
			ATTN:	Wes Hanso	n		Test Start: 2012.11.08 @	22:40:00
Tool Informatio	n							
Drill Pipe:	Length:	4294.89 ft	Diameter:	3.80 i	nches Volume:	60.25 bb	I Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 i	nches Volume:	0.00 bb	I Weight set on Packer	: 30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 i	nches Volume:	0.00 bb	Weight to Pull Loose:	66000.00 lb
Drill Ding Above k	Þ.	24 20 ft			Total Volume:	60.25 bb	Tool Chased	0.00 ft
Drill Fipe Above r	kor <sup>.</sup>	24.39 IL					String Weight: Initial	52000.00 lb
Depth to Bottom F	Packer	4230.00 ft					Final	56000.00 lb
Interval between	Packers:	86.00 ft						
Tool Length:		113.50 ft						
Number of Packe	rs:	2	Diameter:	6.75 i	nches			
Tool Comments:								
Tool Description	on	Lei	ngth (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	b		1.00			4271.50		
Shut In Tool			5.00			4276.50		
Hydraulic tool			5.00			4281.50		
Jars			5.00			4286.50		
Safety Joint			2.50			4289.00		
Packer			5.00			4294.00	27.50	Bottom Of Top Packer
Packer			4.00			4298.00		
Stubb			1.00			4299.00		
Recorder			0.00	8675	Inside	4299.00		
Recorder			0.00	8650	Outside	4299.00		
Perforations			18.00			4317.00		
Change Over Sub	b		1.00			4318.00		
Drill Pipe			62.00			4380.00		
Change Over Sub	)		1.00			4381.00		
Bullnose			3.00			4384.00	86.00 Bo	ottom Packers & Anchor
Т	otal Too	Lenath:	113.50					
•								

	DRI	LL STEM TEST REPORT	FLUID SUMMARY			
KILUBITE	Abercr	ombie Energy, LLC	9-20s-34w	Scott,KS		
ESTING , INC.	10209	W Central STE 2	Moore #1-	Э		
	Wichita	KS 67212	Job Ticket: 48	3920	DST#:1	
	ATTN:	Wes Hanson	Test Start: 20	012.11.08 @ 2	2:40:00	
Mud and Cushion Information						
Mud Type:Gel ChemMud Weight:9.00 lb/galViscosity:48.00 sec/qtWater Loss:9.58 in³Resistivity:ohm.mSalinity:6000.00 ppm		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	d P	eg API pm
Filter Cake: 1.00 inches						
Recovery Information		Recovery Table				
Leng	th	Description	Volume			
	76.00	w cm 10%W 90%m	1.066			
	310.00	mcw 40%M60%w	4.348			
	124.00	mcw 10%M90%w	1.739			
Total Length:	510	.00 ft Total Volume: 7.153 bbl				
Laboratory Nan Recovery Com	ne: ments: rw	Laboratory Location: : .30 @ 60 F = 30,000				



Ref. No: 48920

Trilobite Testing, Inc



Printed: 2012.11.27 @ 10:06:47

Ref. No: 48920





Moore #1-9

DST Test Number: 1



# DRILL STEM TEST REPORT

### Prepared For: Abercrombie Energy, LLC

10209 W Central STE 2 Wichita KS 67212

ATTN: Wes Hanson

#### Moore #1-9

### 9-20s-34w Scott,KS

Start Date: 2012.11.10 @ 04:15:00 End Date: 2012.11.10 @ 13:54:30 Job Ticket #: 48921 DST #: 2

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

		DRILL	STEM TE	S	T REPO	ORT					
		Abercrombie	e Energy, LLC			9-2	0s-34w \$	Scott	,KS		
	ESTING , INC.	10209 W Ce	ntral STE 2			Мо	ore #1-9	)			
		WICHITA KS	07212			Job	Ticket: 48	921	DST	Γ#:2	
		ATTN: Wes	s Hanson			Tes	t Start: 20	12.11	10 @ 04:15:0	00	
GENERAL INF	FORMATION:										
Formation: Deviated: Time Tool Opener Time Test Ended:	Marmaton No Whipstock: d: 06:35:15 : 13:54:30	ft	(КВ)			Tes Tes Unit	t Type: 0 ter: 0 No: 4	Conve lace M 16	ntional Bottom IcKinney	n Hole (Reset)	
Interval: 4	4483.00 ft (KB) To 45	00.00 ft (KB) (	TVD)			Ref	erence Ele	vation	s: 3069	0.00 ft (KB)	
Total Depth:	4500.00 ft (KB) (T\	/D)							3059	0.00 ft (CF)	
Hole Diameter:	7.88 inchesHole	e Condition: Fa	air				KB t	o GR/0	CF: 10	0.00 ft	
Serial #: 867 Press@RunDeptl Start Date: Start Time:	Serial #:         8675         Inside           Press@RunDepth:         745.97 psig         @ 4484.00 ft (KB)           Start Date:         2012.11.10         End Date:         2012.11.10           Start Time:         04:15:15         End Time:         2012.11.10				2012.11.10 13:54:30	Capacity Last Calil Time On Time Off	: b.: Btm: 2 Btm: 2	2012.1 2012.1	8000 2012.11 1.10 @ 06:34 1.10 @ 10:21	0.00 psig .10 :00 :45	
TEST COMMENT: B.O.B. in 1 min Bled off for 5 min. B.O.B. in 12 min. B.O.B. in 2 1/2 min. Bled off for 5 min. B.O.B. in 23 min.											
	Pressure vs. T	ime				PI	RESSUR	E SL	JMMARY		
2250 -	8675 Pressure	8675 Tempera	nture = 120	Ī	Time (Min.)	Pressure (psia)	Temp (deg F)	Anr	notation		
2000		- L	- 115		) í	2262.09	106.09	Initial	Hydro-static		
1760		** **	- 110		2	106.59	105.08	Oper	To Flow (1)		
1500			- 105		32	373.39	118.59	Shut-	ln(1)		
	¥		- 100	J.	77	1150.24	118.50	End	Shut-In(1) To Flow (2)		
	End Shirble (5)		- 95	empera	136	745.97	120.22	Shut-	$\ln(2)$		
				iture	227	1145.34	118.80	End §	Shut-In(2)		
700 200 -0 -0 -0 -0 -0 -0 -0 -0 -0	AAM BAM Time (Hous)		M		228	2171.62	118.45	Final	Hydro-static		
	Recovery						Gas	s Rat	es		
Length (ft)	Description		Volume (bbl)				Choke (ii	nches)	Pressure (psig)	Gas Rate (Mcf/d	d)
0.00 2	2108 Feet Gas In Pipe		0.00				*				
640.00 g	JC0 10%G 90%O		8.98								
620.00 g	co 30%G 70%O		8.70								
864.00 g	jco 15%G 85%O		12.12								
186.00 n	ncw go 10%M 20%W 30	%G 40%O	2.61								
* Recovery from multipl	e tests		<b>·</b>								

Trilobite Testing, Inc

	DRILL STEM TES	DRILL STEM TEST REPORT						
I HILUDITE	Abercrombie Energy, LLC		9-209	s-34w Scot	t,KS			
ESTING , INC.	10209 W Central STE 2		Моо	ore #1-9				
	Wichita KS 67212		Job T	īcket: 48921	DST	#:2		
	ATTN: Wes Hanson		Test S	Start: 2012.11	.10 @ 04:15:0	0		
GENERAL INFORMATION:								
Formation:MarmatonDeviated:NoWhipstock:Time Tool Opened:06:35:15Time Test Ended:13:54:30	ft (KB)		Test T Teste Unit N	Type: Conve er: JaceN vo: 46	entional Bottom //cKinney	Hole (Reset)		
Interval: 4483.00 ft (KB) To 4	500.00 ft (KB) (TVD)		Refer	rence Elevation	ns: 3069	.00 ft (KB)		
Total Depth: 4500.00 ft (KB) (T				3059	.00 ft (CF)			
Hole Diameter: 7.88 inches Hole	e Condition: Fair			KB to GR/	CF: 10	.00 ft		
Serial #: 8650 Outside								
Press@RunDepth: psig	@ 4484.00 ft (KB)		Capacity:		8000	.00 psig		
Start Date: 2012.11.10	End Date:	2012.11.10	Last Calib.	.:	2012.11	.10		
Start Time: 04:15:15	End Time:	13:54:15	Time On Bt	itm: Rtm:				
TEST COMMENT: B.O.B. in 1 min Bled off for 5 mi B.O.B. in 2 1/2 n Bled off for 5 mi	in. B.O.B. in 12 min. nin. in. B.O.B. in 23 min.							
Pressure vs. 7	Time		PR	ESSURE SI	UMMARY			
220 200 170 100 100 100 100 100 100 1	BEED Temperature 12500 Temperat	Time (Min.)	Pressure (psig)	Temp An (deg F)	notation			
Recovery				Gas Ra	tes			
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)		
0.00 2108 Feet Gas In Pipe	0.00				•	• • • • • •		
640.00 gco 10%G 90%O	8.98							
620.00 gco 30%G 70%O	8.70							
864.00 gco 15%G 85%O	12.12							
186.00 mcw go 10%M 20%W 30	0%G 40%O 2.61							
* Recovery from multiple tests	4							

Trilobite Testing, Inc

			DRI	LL ST	TOOL DIAGRAM			
		DITL	Abercro	ombie Ener	gy, LLC		9-20s-34w Scott,KS	
	<b> </b> ES1	<b>FING</b> , INC	10209 \ Wichita	N Central S	STE 2		Moore #1-9	
			VICTILA	NO 07212			Job Ticket: 48921	DST#:2
			ATTN:	Wes Hans	on		Test Start: 2012.11.10 @	2 04:15:00
Tool Information	n							
Drill Pipe:	Length:	4482.59 ft	Diameter:	3.80	inches Volume	62.88 bb	I Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches Volume	0.00 bb	Weight set on Packer	: 30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00	inches Volume	0.00 bb	Weight to Pull Loose:	70000.00 lb
	_				Total Volume	62.88 bb	Tool Chased	0.00 ft
Drill Pipe Above K	B:	27.09 ft					String Weight: Initial	54000.00 lb
Depth to Top Pack	ker:	4483.00 ft					Final	60000.00 lb
Depth to Bottom P	acker:	17 00 ft						
Tool Longth:	Packers.	17.00 IL 44 50 ft						
Number of Packer	·c ·	44.00 m	Diameter:	6 75	inches			
Tool Comments:	0.	2	Diamotor.	0.70				
roor comments.								
Tool Description	n	Lei	ngth (ft)	Serial No	. Position	Depth (ft)	Accum. Lengths	
Change Over Sub	)		1.00			4456.50		
Shut In Tool			5.00			4461.50		
Hydraulic tool			5.00			4466.50		
Jars			5.00			4471.50		
Safety Joint			2.50			4474.00		
Packer			5.00			4479.00	27.50	Bottom Of Top Packer
Packer			4.00			4483.00		
Stubb			1.00			4484.00		
Recorder			0.00	8675	i Inside	4484.00		
Recorder			0.00	8650	Outside	4484.00		
Perforations			13.00			4497.00		
Change Over Sub	)		0.00			4497.00		
Drill Pipe			0.00			4497.00		
Change Over Sub	)		0.00			4497.00		
Bullnose			3.00			4500.00	17.00 Bo	ottom Packers & Anchor
Т	otal Too	Lenath:	44.50					
		J						

	E	DRI	LL STEM TEST REPORT		FLUID SUMMARY	
		Abercr	ombie Energy, LLC	9-20s-34w	Scott,KS	
ESTIN	G , INC.	10209	W Central STE 2	Moore #1-	-9	
		Wichita	KS 67212	Job Ticket: 4	8921	DST#:2
		ATTN:	Wes Hanson	Test Start: 2	2012.11.10 @ (	04:15:00
Mud and Cushion Inform	nation					
Mud Type: Gel Chem			Cushion Type:		Oil A PI:	34 deg API
Mud Weight: 9.00 lb/ga	al		Cushion Length:	ft	Water Salinity	: ppm
Viscosity: 54.00 sec.	/qt		Cushion Volume:	bbl		
Water Loss: 7.98 in <sup>3</sup>			Gas Cushion Type:			
Resistivity: ohm	n.m		Gas Cushion Pressure:	psig		
Salinity: 5300.00 ppm	1					
	les					
Recovery Information						
_			Recovery Table	1	-	
	Lengt ft	th	Description	Volume bbl		
		0.00	2108 Feet Gas In Pipe	0.000	D	
		640.00	gco 10%G 90%O	8.978	3	
		620.00	gco 30%G 70%O	8.697	7	
		864.00	gco 15%G 85%O	12.120		
		186.00	mcw go 10%M 20%W 30%G 40%O	2.609	9	
Total I	Length:	2310	.00 ft Total Volume: 32.404 bbl			
Num F	-luid Samp	les: 0	Num Gas Bombs: 0	Serial #	:	
Labor	atory Nam	ne:	Laboratory Location:			
Recov	ery Com	nents: AF	Pl: $35 @ 70 F = 34 RW$ : .20 @ 70 F = 35,000			

Printed: 2012.11.27 @ 10:06:07

Ref. No: 48921





Printed: 2012.11.27 @ 10:06:07

Ref. No: 48921

Trilobite Testing, Inc



Outside Abercrombie Energy, LLC

Serial #: 8650

Moore #1-9

DST Test Number: 2



# DRILL STEM TEST REPORT

### Prepared For: Abercrombie Energy, LLC

10209 W Central STE 2 Wichita KS 67212

ATTN: Wes Hanson

#### Moore #1-9

### 9-20s-34w Scott,KS

Start Date: 2012.11.11 @ 03:20:00 End Date: 2012.11.11 @ 10:21:15 Job Ticket #: 48922 DST #: 3

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

	DRILL STEM TES	TREP	ORT		
HILUBITE	Abercrombie Energy, LLC		9-20s-3	34w Scott	,KS
ESTING , INC.	10209 W Central STE 2 Wichita KS 67212		Moore	#1-9	
			Job Tick	et: 48922	DS1#:3
	ATTN: Wes Hanson		Test Sta	art: 2012.11	.11 @ 03:20:00
GENERAL INFORMATION:					
Formation:Pawnee (Beymer)Deviated:NoWhipstock:Time Tool Opened:06:28:45Time Test Ended:10:21:15	ft (KB)		Test Tyr Tester: Unit No:	be: Conve Jace M 46	ntional Bottom Hole (Reset) <i>I</i> cKinney
Interval:4540.00 ft (KB) To45Total Depth:4563.00 ft (KB) (ThHole Diameter:7.88 inches Hole	<b>63.00 ft (KB) (TVD)</b> /D) e Condition: Fair		Referen	KB to GR/	as: 3069.00 ft (KB) 3059.00 ft (CF) CF: 10.00 ft
Serial #: 8675InsidePress@RunDepth:56.58 psigStart Date:2012.11.11Start Time:03:20:15TEST COMMENT:Weak surface bl No return blow No blow No return blow	<ul> <li>4541.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> </ul> ow , Died in 20 min.	2012.11.11 10:21:15	Capacity: Last Calib.: Time On Btm: Time Off Btm	2012.1 2012.1	8000.00 psig 2012.11.11 1.11 @ 06:27:45 1.11 @ 08:37:15
Pressure vs. T	ime		PRES		
220 220 170 100 100 100 100 100 100 10	Temperature 1075 Temperature 101 101 101 101 101 101 101 10	Time (Min.) 0 1 32 61 62 91 128 130	Pressure (psig)         Te (de 2204.33)           2204.33         10           55.10         10           56.00         10           785.94         10           56.43         10           56.58         12           617.26         12           2188.02         12	emp Ani eg F) 09.82 Initial 08.58 Oper 09.25 Shut 09.88 End 09.56 Oper 10.32 Shut 11.15 End 11.97 Final	hotation Hydro-static To Flow (1) -In(1) Shut-In(1) To Flow (2) -In(2) Shut-In(2) Hydro-static
Recovery				Gas Rat	es
Length (ft)     Description       75.00     100% Mud w ith few oil spectrum	Volume (bbl) Dots 1.05			Choke (inches)	Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc

	DRILL STEM TES	DRILL STEM TEST REPORT						
HILUBITE	Abercrombie Energy, LLC		9-20s-34w Sco	ott,KS				
ESTING , INC.	10209 W Central STE 2 Wichita KS 67212		Moore #1-9	DCT#: 2				
	ATTN: Wes Hanson		Test Start: 2012.	11.11 @ 03:20:00				
GENERAL INFORMATION:								
Formation:Pawnee (Beymer)Deviated:NoWhipstock:Time Tool Opened:06:28:45Time Test Ended:10:21:15	ft (KB)		Test Type: Conv Tester: Jace Unit No: 46	ventional Bottom Hole (Reset) McKinney				
Interval:4540.00 ft (KB) To45Total Depth:4563.00 ft (KB) (TNHole Diameter:7.88 inches Hole	<b>63.00 ft (KB) (TVD)</b> /D) e Condition: Fair		Reference Elevati KB to Gl	ons: 3069.00 ft (KB) 3059.00 ft (CF) R/CF: 10.00 ft				
Serial #: 8650OutsidePress@RunDepth:psigStart Date:2012.11.11Start Time:03:20:15TEST COMMENT:Weak surface bl No return blow	<ul> <li>4541.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> <li>ow , Died in 20 min.</li> </ul>	2012.11.11 10:21:15	Capacity: Last Calib.: Time On Btm: Time Off Btm:	8000.00 psig 2012.11.11				
No blow No return blow								
Pressure vs. T	ime		PRESSURE	SUMMARY				
220 200 100 100 100 100 100 100	BOU Temperature 100 Temperature 000 Te	Time (Min.)	Pressure Temp A (psig) (deg F)	nnotation				
Recovery			Gas R	ates				
Length (ft) Description 75.00 100%Mud with few oil s	Volume (bbl) Dots 1.05		Choke (inches	) Pressure (psig) Gas Rate (Mct/d)				

	DRI	LL STE	EMTEST	REPOR	T	TOOL DIAGRAM
	Abercr	ombie Energ	y, LLC		9-20s-34w Scott,KS	
ESTING , IN	C. 10209 V Wichita	W Central S	TE 2		Moore #1-9	
	Violina	10 07212			Job Ticket: 48922	DST#:3
	ATTN:	Wes Hanso	on		Test Start: 2012.11.11 @	2 03:20:00
Tool Information	_					
Drill Pipe: Length: 4544.66 ft	Diameter:	3.80 i	nches Volume:	63.75 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe: Length: 0.00 f	Diameter:	0.00 i	nches Volume:	0.00 bbl	Weight set on Packer	: 30000.00 lb
Drill Collar: Length: 0.00 f	Diameter:	0.00 i	nches Volume:	0.00 bbl	Weight to Pull Loose:	74000.00 lb
			Total Volume:	63.75 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB: 32.16 ft					String Weight: Initial	54000.00 lb
Depth to Top Packer: 4540.001					Final	54000.00 lb
Interval between Packers: 23.00 f						
Tool Length: 50.50 ft						
Number of Packers: 2	Diameter:	6.75 i	nches			
Tool Comments:						
Tool Description L	enath (ft)	Serial No.	Position	Depth (ft) A	ccum. Lengths	
Change Over Sub	1.00			4513.50		
Shut In Tool	5.00			4518.50		
Hydraulic tool	5.00			4523.50		
Jars	5.00			4528.50		
Safety Joint	2.50			4531.00		
Packer	5.00			4536.00	27.50	Bottom Of Top Packer
Packer	4.00			4540.00		
Stubb	1.00			4541.00		
Recorder	0.00	8675	Inside	4541.00		
Recorder	0.00	8650	Outside	4541.00		
Perforations	19.00			4560.00		
Change Over Sub	0.00			4560.00		
Drill Pipe	0.00			4560.00		
Change Over Sub	0.00			4560.00		
Bullnose	3.00			4563.00	23.00 Bo	ottom Packers & Anchor
Total Tool Length:	50.50					
5						

(On		DRI	LL STEM TEST REPORT		FLUID SUN	IMARY	
		Aberci	rombie Energy, LLC	9-20s-34w	Scott,KS		
	ESTING , INC.	10209	W Central STE 2	Moore #1-	-9		
		Wichita	a KS 67212	Job Ticket: 4	8922	DST#:3	
			Wes Hanson	Test Start: 2012.11.11 @ 03:20:00			
Mud and C	Cushion Information						
Mud Type:	Gel Chem		Cushion Type:		Oil A PI:	de	eg API
Mud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	р	om
Viscosity: Water Loss:	54.00 sec/qt 8 79 in <sup>3</sup>		Cushion Volume: Gas Cushion Type:	IDDI			
Resistivity:	ohm.m		Gas Cushion Pressure:	psig			
Salinity:	6000.00 ppm						
Filter Cake:	1.00 inches						
Recovery	Information		Recovery Table				
	Leng	th	Description	Volume	1		
	ft			bbl			
	Totol Longth:	75.00	100%Mud with few oil spots	1.052	<u>2</u>		
	Total Length:	/5	.00 ft Total Volume: 1.052 bbl	0			
	Num Fluid Samp	oles:0 ne:	Num Gas Bombs: 0	Serial #	:		
	Recovery Com	nents:					

Printed: 2012.11.27 @ 10:05:26

Ref. No: 48922





Printed: 2012.11.27 @ 10:05:26

Ref. No: 48922

Trilobite Testing, Inc



Moore #1-9

DST Test Number: 3

Serial #: 8650 Outside Abercrombie Energy, LLC



# DRILL STEM TEST REPORT

# Prepared For: Abercrombie Energy, LLC

10209 W Central STE 2 Wichita KS 67212

ATTN: Wes Hanson

#### Moore #1-9

### 9-20s-34w Scott,KS

Start Date: 2012.11.11 @ 20:10:00 End Date: 2012.11.12 @ 03:29:00 Job Ticket #: 48923 DST #: 4

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 2012.11.11

Abercrombie Energy, LLC

	DRILL STEM TES	DRILL STEM TEST REPORT						
HILUBITE	Abercrombie Energy, LLC		9-20s-34w Scott,KS					
ESTING , INC.	10209 W Central STE 2 Wichita KS 67212		Moore #1-9					
			Job Ticket: 48923 DST#:4					
	ATTN: Wes Hanson		Test Start: 2012.11.11 @ 20:10:00					
GENERAL INFORMATION:								
Formation:Fort Scott (JohnsonDeviated:NoWhipstock:Time Tool Opened:22:16:30Time Test Ended:03:29:00	<b>n)</b> ft (KB)		Test Type:Conventional Bottom Hole (Reset)Tester:Jace McKinneyUnit No:46					
Interval:4564.00 ft (KB) To45Total Depth:4595.00 ft (KB) (ThHole Diameter:7.88 inches Hole	<b>95.00 ft (KB) (TVD)</b> /D) • Condition: Fair		Reference Elevations:         3069.00         ft (KB)           3059.00         ft (CF)           KB to GR/CF:         10.00         ft					
Serial #: 8675InsidePress@RunDepth:31.49 psigStart Date:2012.11.11Start Time:20:10:15TEST COMMENT:Built to 1" blow No return blow	@ 4565.00 ft (KB) End Date: End Time:	2012.11.12 03:29:00	Capacity:       8000.00 psig         Last Calib.:       2012.11.12         Time On Btm:       2012.11.11 @ 22:16:15         Time Off Btm:       2012.11.12 @ 01:18:15					
Weak surface bl No return blow	W	Γ						
Ressure VS. 1 8075 Pressure	IIIIe	Time	PRESSURE SUMMARY Pressure Temp Annotation					
		(Min.) 0 1 30 75	(psig)         (deg F)           2316.51         103.31         Initial Hydro-static           23.67         102.46         Open To Flow (1)           28.49         103.98         Shut-In(1)           636.63         105.92         End Shut-In(1)					
	70 Participante de la construire (c	76 135	30.83         105.95         Open To Flow (2)           31.49         108.11         Shut-In(2)					
0. 600 600 600 600 600 600 600 6	Home Service Control of the service Control o	181 182	66.03 109.20 End Shut-In(2) 2164.44 109.95 Final Hydro-static					
Recovery			Gas Rates					
Length (ft)     Description       30.00     100% Mud w ith oil spots	Volume (bbl) 0.42		Choke (inches) Pressure (psig) Gas Rate (Mcf/d)					
* Recovery from multiple tests	<b> </b>							

Trilobite Testing, Inc

	DRILL STEM TEST REPORT				
I RILUDITE	Abercrombie Energy, LLC		9-20s-34w	Scott,KS	
ESTING , INC.	10209 W Central STE 2		Moore #1-	9	
	Wichita KS 67212		Job Ticket: 48	8923 <b>DST#</b>	: 4
	ATTN: Wes Hanson		Test Start: 20	012.11.11 @ 20:10:00	
GENERAL INFORMATION:					
Formation:Fort Scott (JohnsonDeviated:NoWhipstock:Time Tool Opened:22:16:30Time Test Ended:03:29:00	n) ft (KB)		Test Type: Tester: Unit No:	Conventional Bottom H Jace McKinney 46	lole (Reset)
Interval:4564.00 ft (KB) To45Total Depth:4595.00 ft (KB) (The second secon	9 <b>5.00 ft (KB) (TVD)</b> /D) e Condition: Fair	Reference Elevations:         3069.00         ft (KB)           3059.00         ft (CF)           KB to GR/CF:         10.00         ft			
Serial #: 8650OutsidePress@RunDepth:psigStart Date:2012.11.11Start Time:20:10:15	<ul><li>4565.00 ft (KB)</li><li>End Date:</li><li>End Time:</li></ul>	2012.11.12 03:29:00	Capacity: Last Calib.: Time On Btm: Time Off Btm:	8000.0 2012.11.1	0 psig 2
TEST COMMENT: Built to 1" blow No return blow Weak surface blow No return blow					
Pressure vs. T	ime A 8660 Temperature	Time		RE SUMMARY	
200 100 100 00 00 00 00 00 00 00	Temperature (deg F)	(Min.)	(psig) (deg F)		
Recovery			Ga	as Rates	
Length (ft)     Description       30.00     100% Mud w ith oil spots	Volume (bbl) 0.42		Choke (	(inches) Pressure (psig)	Gas Rate (Mcf/d)

	DRI	LL STEN	1 TEST	REPOR	Г	TOOL DIAGRAM
	Abercro	ombie Energy, L	LC		9-20s-34w Scott,KS	
ESTING , IN	10209 \	V Central STE 2	2		Moore #1-9	
	vvicnita	KS 67212			Job Ticket: 48923	DST#:4
	ATTN:	Wes Hanson			Test Start: 2012.11.11	@ 20:10:00
Tool Information						
Drill Pipe: Length: 4544.86 ft	Diameter:	3.80 inch	ies Volume:	63.75 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe: Length: 0.00 ft	Diameter:	0.00 inch	nes Volume:	0.00 bbl	Weight set on Packer	: 30000.00 lb
Drill Collar: Length: 0.00 ft	Diameter:	0.00 inch	es Volume:	0.00 bbl	Weight to Pull Loose:	60000.00 lb
		Т	otal Volume:	63.75 bbl	Tool Chased	0.00 ft
Depth to Top Packer: 4564.00 ft					String Weight: Initial	50000.00 lb
Depth to Bottom Packer:					Final	50000.00 lb
Interval between Packers: 31.00 ft						
Tool Length: 58.50 ft						
Number of Packers: 2	Diameter:	6.75 inch	ies			
Tool Comments:						
Tool Description	nath (ft)	Sorial No.	Decition	Donth (ft) Ac	oum Longtha	
Change Over Sub	1.00	Serial NO.	FUSICION	4537 50		
Shut In Tool	5.00			4542 50		
	5.00			4547 50		
lars	5.00			4552 50		
Safety Joint	2.50			4555.00		
Packer	5.00			4560.00	27.50	Bottom Of Top Packer
Packer	4.00			4564.00	2	
Stubb	1.00			4565.00		
Recorder	0.00	8675	Inside	4565.00		
Recorder	0.00	8650	Outside	4565.00		
Perforations	27.00			4592.00		
Change Over Sub	0.00			4592.00		
Drill Pipe	0.00			4592.00		
Change Over Sub	0.00			4592.00		
Bullnose	3.00			4595.00	31.00 Be	ottom Packers & Anchor
Total Tool Length:	58.50					
-						

(On		DRILL STEM TEST REPORT			I	FLUID SUMMARY	
LAR I		Abercrombie Energy, LLC		9-20s-34w	Scott,KS		
ESTING, INC.		10209	W Central STE 2	Moore #1	-9		
		Wichita	a KS 67212	Job Ticket: 4	48923	DST#:4	
		ATTN:	Wes Hanson	Test Start: 2	2012.11.11 @ 20	0:10:00	
Mud and C	ushion Information						
Mud Type: 0	Gel Chem		Cushion Type:		Oil A PI:	deg API	
Mud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm	
Viscosity: Water Loss:	57.00 sec/qt 8 79 in3		Cushion Volume:	DDI			
Resistivity:	ohm.m		Gas Cushion Pressure:	psia			
Salinity:	7500.00 ppm			F9			
Filter Cake:	1.00 inches						
Recovery I	nformation		Decement Table				
	ſ <u> </u>				7		
	Leng ft	th	Description	Volume bbl			
		30.00	100% Mud with oil spots	0.42	1		
	Total Length:	30	0.00 ft Total Volume: 0.421 bb				
	Num Fluid Samp	les: 0	Num Gas Bombs: 0	Serial #	<u>+</u>		
	Laboratory Nam	ne:	Laboratory Location:				
	Recovery Com	nents:					



Ref. No: 48923





Temperature (deg F)

DST Test Number: 4

Printed: 2012.11.27 @ 10:04:44

Ref. No: 48923





Moore #1-9

RILOBITE		Test Ticket
4/10 P.O. Box 1733 • Hays	s, Kansas 67601	<b>NO.</b> 48920
4/10 Monte & No. Moore 1-9         Well Name & No. Moore 1-9         Company AlgerCromleie Energy         Address 10 209 W Central, 5         Address 10 209 W Central, 5         Co. Rep / Geo. W -5 Hanson         Location: Sec. 9 Twp. 203         Interval Tested 4296-4384         Anchor Length         Top Packer Depth         H296         Bottom Packer Depth         H296         Blow Description	Test No	Date <u>11   8/12</u> 11/9/12 <u>BOG9</u> KB_3059 GL 2212 <u>Energy</u> Rig 7 <u>State</u> KG <u>dy</u> K: <u>L</u> " <u>39</u> Mud Wt. <u>9.3</u> <u>Vis</u> <u>48</u> <u>WL</u> <u>9.66</u> System LCM_ <u>3</u> <u>44</u>
Bled off for 5 min, No B.O.B. in 20 Bled off for 5 min, No Rec_710 Feet of 12 CM Rec_310 Feet of MCW	B min. B min. return Colow %gas %gas	%oil 10 %water 90 %mud %oil 60 %water 40 %mud
Rec 124 Feet of MCW	%gas	%oil GO %water (D %mud
Rec Feet of	%gas	%oil %water %mud
Hec       Feet of         Rec Total       510         (A) Initial Hydrostatic       98         (B) First Initial Flow       25         (C) First Final Flow       122         (D) Initial Shut-In       126         (F) Second Initial Flow       1259         (G) Final Shut-In       1265         (H) Final Hydrostatic       2140         Initial Open       20         Initial Shut-In       45         Final Flow       20         Final Shut-In       40	%gas	%oll       %water       %mud         0       60       °F Chlorides       30       000       ppm         T-On Location       19:25       7       7       7       7         T-Open       1:50       7       7       7       7       7         T-Open       1:50       7       7       7       7       7       7       7         T-Out       10:57       7 <td< td=""></td<>
Approved By Wesley Hansen	Our Representative	har March

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.

4/10 RILOBITE ESTING INC. P.O. Box 1733 • Hays	Kansas 67601
Well Name & No. Moore 1-9 Company Alectorom Lie Cnergy Address 10209 W Central Co. Rep/Geo. Nes Hansen Location: Sec. 9 Twp. 205	Test No. 2 Date 11/10/12 5.26 Elevation 3069 KB 3059 GL 5TE 2 Wichita 145, 67212 Rig Val Energy Riz 7 Rge. 34w Co. Scott State K5
Interval Tested <u>4483 - 4500</u> Anchor Length <u>12</u> Top Packer Depth <u>4429</u> Bottom Packer Depth <u>4429</u> Total Depth <u>4483</u> Total Depth <u>4483</u> Blow Description <u>B.O.B in 1 min.</u> Block <u>Aff for 5 min. B.O.B.</u>	Zone Tested Marmaton Drill Pipe Run <u>4482.59</u> Mud Wt. <u>9.3</u> Drill Collars Run <u>Vis 54</u> Wt. Pipe Run <u>WL B.O</u> Chlorides <u>5,300</u> ppm System LCM <u>2</u>
Blcd off for 5 min. B.O.B. Rec_O Feet of 2108 Feet 6 Rec_Ce20 Feet of 600 Rec_Ce20 Feet of 700 Rec_Ce20 Feet of 7	in 23 min. <u>Ag Jn VERE</u> %gas %oil %water %mud <u>10%gas 90%oil %water %mud</u> <u>30%gas 70%oil %water %mud</u> <u>15%gas 85%oil %water %mud</u> <u>30%gas 40%oil 20%water 10%mud</u> <u>30%gas 40%oil 20%water 10%mud</u> <u>Gravity 34</u> API RW_@20@70°F Chlorides <u>35,000</u> ppm <u>W Test 1250</u> T-On Location <u>3:10</u>
(B) First Initial Flow       101         (C) First Final Flow       37.3         (D) Initial Shut-In       150         (E) Second Initial Flow       39.2         (F) Second Final Flow       746         (G) Final Shut-In       145         (H) Final Hydrostatic       2172	Image Straddle       Image Straddle         Image Straddle       Image Str
Initial Open <u>30</u> Initial Shut-In <u>45</u> Final Flow <u>60</u> Final Shut-In <u>90</u> Approved By <u>Washey Hanson</u>	□ Extra Packer       □ Extra Copies         □ Extra Recorder       Sub Total0         □ Day Standby       Total _ 1727.50         ☑ Accessibility       MP/DST Disc't         Sub Total _ 1727.50       Our Representative

Trilobite Testing Inc. shall not be liable for dam/ged 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 of the party for whom the jest is made.

RILOBITE		Test Ticket	:
4/10 <b>ESTING</b> INC. P.O. Box 1733 • Hays,	Kansas 67601	NO. 48922	
Well Name & No. MOOR 1-9 Company Alectoromleic Energy Address 10209 in Central, E Co. Rep/Geo. Wes Hansen Location: Sec. 9 Twp. 205	Test No. J. LLC Elevation STE 2 Wich ta Rig N Rge. 34w Co. 5	<u>3</u> Date II/II n <u>3069</u> КВ <u>30</u> 165, 67212 Jal Energy Riz cott	/12GL 59GL 7 1K5
Interval Tested <u>4540 - 4563</u> Anchor Length <u>23</u> Top Packer Depth <u>4536</u> Bottom Packer Depth <u>4540</u> Total Depth <u>4563</u> Blow Description <u>Deak Sincfuse Leloc</u> <u>No peturn L</u>	Zone Tested <u>Pawnee</u> Drill Pipe Run <u>45</u> Drill Collars Run <u>45</u> Wt. Pipe Run Chlorides <u>Le, OOO</u> Dicclin 20 mine	2 (Beymer) <u>44.166</u> Mud Wt. <u>9</u> Vis <u>54</u> WL <u>8.8</u> WL <u>3</u> <del>7</del>	3
Rec Feet of Rec Feet of	blow worlspots %gas %gas %gas	%oil %wate %oil %wate %oil %wate	ir %mud ir %mud ir %mud
Rec       Feet of         Rec Total       Feet of         Rec Total       BHT         (A) Initial Hydrostatic       2 204         (B) First Initial Flow       55         (C) First Final Flow       54e         (D) Initial Shut-In       7 8 Ce         (E) Second Initial Flow       51e         (F) Second Final Flow       57         (G) Final Shut-In       60 Final Shut-In	%gas         Gravity	%oil       %wate         %oil       %wate         %oil       %wate         @°F Chlorides          T-On Location // 40          T-Started 3:       22         T-Open 6:       22         T-Pulled 3:       28         T-Out /0? 21       28         Comments 6:       74         1ast 5hud 9ab       20	r %mud ppm ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )
(H) Final Hydrostatic 2,188 Initial Open <u>30</u> Initial Shut-In <u>30</u> Final Flow <u>30</u> Final Shut-In <u>30</u> Approved By	Straddle Shale Packer Extra Packer Extra Recorder Day Standby Accessibility Sub Total1652.50	Ruined Shale Pack     Ruined Packer     Ruined Packer     Extra Copies     Sub Total0     Total1652.50     MP/DST Disc't	er

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.

4/10 RILOBITE ESTING INC. P.O. Box 1733 • Hays	s, Kansas 67601		<b>Test</b> ' NO. <u>4</u> 8	<b>Ficket</b> 3923	1
Well Name & No.       Moore 1-9         Company Algerchomleie Energy         Address 10209       Central,         Co. Rep / Geo.       Central,         Location: Sec.       9         Interval Tested       4564 - 459         Anchor Length       3         Top Packer Depth       456	$\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{34\omega}{5}$ $\frac{5}{5}$ $\frac{34\omega}{5}$ $\frac{5}{5}$ $\frac{1}{5}$	Test No. <u>4</u> Elevation <u>5</u> chita 145 <u>Rig Va</u> <u>co. Scott</u> Fort Icatt <u>4544</u>	BOCO , 67212 Enerzy (Suhne CSuhne Lele Mu Vis	Date 11/11/12 1 _KB_30.59 _J Rizz 7 	ι[ι]] [2 GL  
Bottom Packer Depth 456 Total Depth 459 Blow Description Built to 1" Lelu No return Le No return Lelu	4 Wt. Pipe Run <u>-</u> 5 Chlorides 7 Jow Low	,500 ppm	System LC	- <u>8.8</u> :m_2#	
Rec 30 Feet of Mudwith 0	il spots	%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%011	%water	%mud
Peer of		%gas	%011	%water	%mud
Rec Total       30       BHT 109         (A) Initial Hydrostatic       217         (B) First Initial Flow       24         (C) First Final Flow       28         (D) Initial Shut-In       637         (E) Second Initial Flow       31         (F) Second Final Flow       31         (G) Final Shut-In       640         (H) Final Hydrostatic       2164         Initial Open       30         Initial Shut-In       45         Final Flow       60         Final Shut-In       60         (G) Final Shut-In       60         (H) Final Hydrostatic       2164         Initial Open       30         Initial Shut-In       45         Final Flow       60         Final Shut-In       60	Gravity Gravity Gravity Jars Safety Joint Gric Sub p. [C] Gric Sub p. [C] Hourly Standby Mileage 50 A Grid Sampler Straddle Shale Packer Extra Packer Extra Packer Day Standby Sub Total 1652	_ API RW@	F C T-On Loca T-Started T-Open T-Pulled T-Out Comments Ruined Ruined Extra C Sub Total Total 16 MP/DST	hlorides tion /9:20 20:10 2:16 /2:17 3:29 5 5 1 Shale Packer 0 552.50 Disc't	ppm
Approved By	0	ur Representative	/ m	1/2.	/

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 softered 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.

	CONSOLII Oil Well Serv	DATED ices, LLC	RE Consolidated O De P.O. Houston,	<b>MIT TO</b> il Well Se ept. 970 Box 4346 FX 77210	rv ces, LLC -4346	Chai 620/431-9210 • 1 Fay	MAIN OFFICE P.O. Box 884 nute, KS 66720 -800/467-8676 < 620/431-0012
INVOICE	l	L				Invoice #	265705
Invoice	Date: 01/30	/2014 7	erms: 10/10/	======= 30,n/30		]	Page 1
AB 55 GR (6	ERCROMBIE ENE 10 OIL CENTER EAT BEND KS 20)793-8186	RGY ROAD SOU 67530	RECEIVE FEB - 6 2014 WICHITA	D MOO 430 9-2 01- KS	RE A 1-4 95 0-34 29-2014	RECE FEB - 3 GREAT BEN	IVED POTA
Part Nu 11045 1102 1118B 1111	mber	Descript CLASS "A CALCIUM PREMIUM SODIUM (	ion A" CEMENT (SA CHLORIDE (50 GEL / BENTON CHLORIDE (GRA	LE) #) ITE NULA	Qty 210.00 592.00 394.00 100.00	Unit Price 18.5500 .9400 .2700 .0000	Total 3895.50 556.48 106.38 .00
Sublet 9996-13 9995-13	Performed 0 0	Descript CEMENT N CEMENT P	ion MATERIAL DISC QUIPMENT DIS	OUNT COUNT			Total -455.84 -250.18
D 693 T 57 C 57 E	escription ON MILEAGE DE EMENT PUMP (S QUIPMENT MILE	LIVERY URFACE) AGE (ONE	WAY)		Hours 1.00 1.00 60.00	Unit Price 1036.80 1150.00 5.25	Total 1036.80 1150.00 315.00
	1948  234193  1237						
133 Moo Ceme	52062 DRE A 1-4 ENT SURFACE	CS G					
	- 12 -		Amount	Due 743	1.66 if pa	id after 03,	/01/2014
====== Parts: Labor: Sublt: =======	4558.36 F .00 M -706.02 S	======== reight: isc: upplies: =========	.00 .00 .00 .00	====== Tax: Total: Change: =======	334.3 6688.4	======================================	6688.49
Signed_						Date	
918/338-0808	UK EL DORADO, KS 316/322-7022	EUREKA, KS 620/583-7664	PONCA CITY, OK OAI 580/762-2303 785/	KLEY, KS ( /672-8822 7	0TTAWA, KS THA 285/242-4044 620/8	YER, KS GILLETTE, 39-5269 307/686-49	WY CUSHING, OK 14 918/225-2650

		0					
CONSOLIDATED	65705	9p		BER 43	095		
Cill Wolf Services, LLC			LOCATION_C	EKIEG KS			
FOREMAN Dens, Petriphi							
PO Box 384, Chanute, KS 66720 FIELD T	ICKET & TREAT	MENT REP	PORT	τ	Erry yetes		
620-431-9210 or 800-467-8676	CEMEN.	г					
DATE CUSTOMER # WELL NAME	& NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY 1		
1-09-14 1112 Moore A 1-9	t	9	20	24	e a dela		
CUSTOMER	Scottaty				26674		
MAILING ADDRESS	ED40. West	TRUCK #	DRIVER	TRUCK #	DRIVER		
	to charokee	657	Travis				
CITY CENTRAL Ste 2	RD. 1/2 WAST	693	Jercony				
	DDE IOU IIII	Helper	Jeff *				
Wichita KS 67	212						
JOB TYPE Jurface HOLE SIZE 12/4	HOLE DEPTH_	345	CASING SIZE & W	EIGHT 8 5/0	24'		
CASING DEPTH 330, 35 DRILL PIPE 4/12	TUBING			OTHER 20			
SLURRY WEIGHT 14.8 SLURRY VOL 1.3	WATER gal/sk		CEMENT LEFT in (	ASING			
DISPLACEMENT 26.7 DISPLACEMENT PSI	MIX PSI		RATE				
REMARKS: Safter meeting an Val Pic	4 0:		0				
much nump mix 210 sts of days of this is pump thick. Break unculation with rig							
Shut in list and a list of centre 210 cc 216 cel, Displace 20.7 BBIS of water.							
man pump are thes. Ki	g llows (c	ment chid	circulate.	Job com	plete		
-							

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ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150	100 (11)
5406	60	MILEAGE	E 15	1150,00
5407 A	9.87	Ton mileage Delivery	1,75	1036.80
11043	210 sks	Class A cement	18.55	3895.50
1102	592	Cakium Chloride	.94	556,48 4
11180	394	Bentonite	. 27	101 38
	100	salt		
			sub	7040,16
			1055 10%	706.02
			546	6354.14
		completed		
in 0707		1 8,15	SALES TAX	334,351
ITHORIZTION		in a famata	ESTIMATED TOTAL	64,88,49

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

3



PO Box 93999 Southlake, TX 76092

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

#### Bill To:

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

RECEIVED FEB 2 4 2014 GREAT BEND



Invoice Number: 141383 Invoice Date: Feb 12, 2014 Page: 1

RECEIVED FEB 2 5 2014 WICHITA

Customer ID	Field Ticket #	Payment Terms		
Aber	62558	Net 30 Days		
Job Location	Camp Location	Service Date	Due Date	
KS1-02	Oakley	Feb 12, 2014	3/14/14	

Quantity	Item	Description	Unit Price	Amount
1.00	WELLNAME	Moore A #1-9		
300.00	CEMENT MATERIALS	ASC	20.90	6,270.00
1,500.00	CEMENT MATERIALS	Gilsonite	0.98	1,470.00
12.00	CEMENT MATERIALS	WFR-II	58.70	704.40
383.93	CEMENT SERVICE	Cubic Feet Charge	2.48	952.15
1,106.00	CEMENT SERVICE	Ton Mileage Charge	2.60	2,875.60
1.00	CEMENT SERVICE	Production Casing	3,149.78	3,149.78
66.00	CEMENT SERVICE	Pump Truck Mileage	7.70	508.20
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
66.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	290.40
1.00	EQUIPMENT SALES	5-1/2 Port Collar	3,590.00	3,590.00
1.00	EQUIPMENT SALES	5-1/2 AFU Float Shoe	545.00	545.00
1.00	EQUIPMENT SALES	5-1/2 Latch Down Assembly	660.00	660.00
11.00	EQUIPMENT SALES	5-1/2 Centralizer	57.00	627.00
3.00	EQUIPMENT SALES	5-1/2 Basket	395.00	1,185.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan	The second start of galaxies in the	
1.00	OPERATOR ASSISTANT	Brandon Wilkinson 1352062		
	2	MOORE A 1-9	A large and an end of the second s	
		CEMENT 51/2 CSG/PORT COLLA	R	
1.00	OPERATOR ASSISTANT	Revin Ryan Brandon Wilkinson 1352062 MOORE A 1-9 CEMENT 512 CSG / PORT COLLA	R	

	Subtotal VERIFIED ACCUIDANCY	23,102.53
30 DAYS FOLLOWING DATE OF	Sales Tax	1,226.69
INVOICE. 1 1/2% CHARGED	Total Invoice Amount	24,329.22
THEREAFTER. IF ACCOUNT IS CURRENT TAKE DISCOUNT OF	Payment/Credit Applied	
	TOTAL	24,329.22
\$ 3,299.11		

ONLY IF PAID ON OR	BEFORE
Mar 9, 2014	

ALLIED OIL & GA	S SERVICES, LLC 062558
REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT:
DATER 17 14 SEC TWP. RANGE MOORE B" WELL # 1-9 LOCATION Shallow	CALLED OUT ON LOCATION JOB START JOB FINISH
OLD OR (EW (Circle one)	Unlo
CONTRACTOR Val 4	OWNER
HOLE SIZE T.D.	CEMENT
CASING SIZE     541     DEPTH     5009       TUBING SIZE     DEPTH	AMOUNT ORDERED 300 IIL ASL 10309, Co
DRILL PIPE DEPTH 10	(Fright S Colsonite
TOOL PORTCOLLUN DEPTH 2278	:
MEAS, LINE SHOE JOINT	COMMON@
CEMENT LEFT IN CSG. 41.13	GEL @
DISPLACEMENT UP 661	CHLORIDE@
FOUIPMENT	ASC_300@ 20 = 6270 =
	Gillerite isoolb @ -98 14702-
HELPER HELPER HUMP HELPER	WIPL TL_ BUBL @ 5820 704 20
# 373 DRIVER Brandon Wilkingor	
# DRIVER	
	MILEAGE 2 Ton alle 16. 202 2825
REMARKS: A. Ca. Citude & Aling RH30 MH25	TOTAL /2 2) 2
MAY 150 SR ASC 10 10 Solt Degel 5th GISPAT	?
have site	DEPTH OF JOB
Displace Plus up 118 12 BBL HD	EXTRA FOOTAGE
M 1200 PST COST land Phy e 1900PST	MILEAGE 66 @ 22 508220
from beld . That there brando	MANIFOLD # Contraction of the 235-
A.	apriles apriles @ 40 x40 -
CHARGE TO: Hbuccombie	28
STREET	TOTAL 4223
CITYSTATE 71P	
	PLUG & FLOAT EQUIPMENT
	Hart Collar 1 3590-00
······································	lath Rem Accarly 10 545
To: Allied Oil & Gas Services, LLC.	Central Dec 1 11 @ 57 627 00
You are hereby requested to rent cementing equipment	600 HOS 3 @ 395 1185 23
and furnish cementer and helper(s) to assist owner or	
done to satisfaction and supervision of owner agent or	TOTAL GLO 200
contractor. I have read and understand the "GENERAL	
TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any)
	TOTAL CHARGES 3. 103.00
PRINTED NAME JUSON JC NULLY	DISCOUNT 3, 29.11 IF PAID IN 30 DAYS
SIGNATURE Jason Schull	19,303.44 Net.
1	

Displace depth         3600         to         TD         Alteration         <	FFEER He SANDERSE   GEOLOGIC REPORT   Operator: Abercrombie Energy LLC   Mell Name: Moore 'A' #1-9   Location: 1150'FSL; 1890'FWL   Section: Township: 20S   Range: 34W   Section: Township: 20S   County: Scott   State: Kansas   Mud co: Mud-co
SUMMARY Due to the positive results of drill stem tests no.5 and no.6, it was test this well. Evaluation during the drilling of this well was difficult due to the other problems. Sample quality was fair overall with several ins frozen water lines leading to missed or samples of no value. Me led to erroneous drilltime and poor correlation in several section	extreme cold weather conditions which caused multiple tances where samples were very poor due to instantly chanical problems with the geolograph and/or auto driller s.
DRILL STEM DST no.1: 4174-4215 (Kansas City 'H' zone ) 1st open: Blow off bottom 18 min.; No blow back 2nd open: Blow off bottom 20 min.; No blow back TIMES: 30-45-60-45 Recovery: 618' Total Fluid 60' Muddy Wtr (sulfur odor); (90% wtr; 10% mud) 558' Wtr; (100% wtr); (52,000 ppm Cl; Rw .193 ohm @ 53 deg. F ISIP: 1074 FSIP: 1073 IFPs: 21/120 FFPs: 123/292 IHP: 2062 FHP: 2026 BHT: 106 deg. F.	
Dst no.2: 4226-4250 (Kansas City 'I' zone) 1st open: blow off bottom 45 sec no blowback 2nd open: blow off bottom 2.5 min no blowback TIMES: 30-30-30-30 RECOVERY: 2303 ft. total fluid 258' watery mud; 30% wtr; 70% mud 2045' sulfur water (57000 ppm Cl; Rw=.241@39 deg. @ 39 deg. F.) ISIP: 1071. FSIP: 1079 IFPs: 340/972. FFPs: 1063/1079 IHP: 2082. FHP: 2102. BHT:117 deg. F	Pressure vs. Time
DST no.3: 4314-4380 (Kansas City 'K & L' zones ) 1st open: Blow off bottom 45 sec.; No blow back 2nd open: Blow off bottom 1 min.;No blow back TIMES: 15-30-15-30 Recovery: 2075' Total Fluid 340' Muddy Wtr; (60% wtr; 40% mud) 1735' Wtr; (95% wtr; 5%mud); (50,000 ppm Cl; Rw .205 ohm @ 53 deg. F ISIP: 1108 FSIP: 1108 IFPs: 397/757 FFPs: 795/984 IHP: 2140 FHP: 2121 BHT: 118 deg. F.	Pressere vs. Time
Dst no.4: 4409-4470 (Pleasanton and Marmaton 'A' zn) 1st open: blow off bottom 30 sec no blowback 2nd open: blow off bottom 45 sec no blowback TIMES: 15-30-15-30 RECOVERY: 2447 ft. total fluid 31' Oil spotted watery mud; 30% wtr; 70% mud 248' watery mud; 40% wtr; 60% md 2168' muddy wtr (w/sulfur odor) (76,000 ppm Cl; Rw=.200 ohms @36 deg.F.) ISIP: 1163. FSIP: 1164 IFPs: 450/913. FFPs: 924/1133 IHP: 2191. FHP: 2219. BHT:117 deg. F Dst no.5: 4457-4501 (Marmaton 'C' zn)	Pressure vs. Titus
<ul> <li>1st open: blow off bottom 1 min. - blowback bottom of bucket 9 min.</li> <li>2nd open: blow off bottom 1 min. GTS 40 min blowback bottom of bucket 8 min.</li> <li>TIMES: 30-60-45-90</li> <li>RECOVERY: 1238 ft. total fluid; 3202' GIP 62' Gassy Oil; 20% gas; 80% oil 310' Gassy Oil; 30% gas; 70% oil 310' Gassy Oil; 40% gas; 60% oil 186' GMCO; 30% gas; 65% oil 370' GMCO; 30% gas; 40% oil</li> <li>ISIP: 800. FSIP: 791 IFPs: 120/307. FFPs: 481/791 IHP: 2210. FHP: 2188. BHT:118 deg. F</li> </ul>	Pressure vs. Time CD Trapana CD Trapana
<ul> <li>1st open: blow off bottom 1 min. - blowback bottom of bucket 17 min.</li> <li>2nd open: blow off bottom 1 1/2 min. - blowback bottom of bucket 24 min.</li> <li>TIMES: 30-60-45-90</li> <li>RECOVERY: 1792 ft. total fluid; 1250' GIP 120' Clean Gassy Oil: 35% gas; 65% oil 434' Gas, Wtr, &amp; Md cut Oil; 30% gas: 15% water 25% mud 310' Gas &amp; Oil Cut muddy wtr: 5% gas; 10% oil; 55% wtr; 30% r 434' Gas &amp; Oil spotted muddy wtr: 5% gas; 90% wtr; 5% mudl 494' Oil spotted mdy water: 100% water (sulfur odor)l Oil Gravity: 34; Rw=.170@38 deg.; Cl. 80,000 ppm</li> <li>ISIP: 1078. FSIP: 1087 IFPs: 174/524. FFPs: 541/846 IHP: 2187 FHP: 2184. BHT:121 deg. F;</li> </ul>	Pressare in Tittee
Dst no.7: 4547-4584 (Beymer - Johnson zn) 1st open: Maximum 1" blow - no blowback 2nd open: no blow TIMES: 30-60-30-60 RECOVERY: 40' VSOCM: 2% oil; 98% mud ISIP: 1007. FSIP: 1087 IFPs: 19/30. FFPs: 34/37 IHP: 2246 FHP: 2227 BHT: 109 deg. F	Pressure vs. Taxas
Dst no.8: 4686-4773 (Lower Pennsylvanian Lm) 1st open: Weak blow; built to 1" - Shut-in, built to 2 inch on blowback; (odd) 2nd open: no blow; (NOTE: unsure if tool ever shut-in; valid test - tool opened - almost no recovery; appears tool did not shut in fully on second shut-in or 1st shut-in pressure depleted on 1st shut-in; no plugging)	



	4000 -	White to cream earthy to sli chalky Im; microxln; dense; no visible porosity; no shows much light gray to white fresh opaque chert	elog 4002 (-314)
		Bright bone white Im as above with white fresh chert	
		Light tan to cream granular textured lm; dense; some pcs fossiliferous ; trace pinpoint porosity; no shows	
		Increase in abole, arey, and dark arey with aboley	
		mottld dense gray Im	
		Oolitic - micro foss Im with fair to good interparticle	
	50 -	gray to green-gray shale	
		Spls nearly 100%lm; white dense earthy; some	
		White to creamy gray Im; earthy to microxIn; no	
<sup>1/2</sup> 1 2 3 4 5 10 20		porosity visible; no shows	
		Same as above very minor percent gray shale	
	4100 -	Change to lighter white and cream earthy to chalky Im; slightly micro fossiliferous; no visible	
	4100	porosity; no snows	
		Becomes tan to brown dense; increase in shale; gray; some Im mottled cream and dark gray.	
		White earthy to very chalky microxIn Im; fair amount pure white chalk	
		Flood very light gray to white coarsely oolitic Im with	
	50 -		
		Creamy light gray to white earthy dense lm; very	
		Lense Im as above; earthy to chalky in part	(See header for DST results)
			Muncie Ck 4100 (-1100)
	]	Good amount black carb sh (4200 spl - samples not caugh on time or mislabled!) With tan to brown micxIn Im	elog 4194 (-1106)
	4200 -	Much white to cream and light tan fxln earthy lm; some pcs with poor to fair interxIn to micro pinpoint porosity; light yellow brown stain to rare saturation; fair number of pcs	Fair to Good Odor(4210 spl trace SFO-clear micro droplets: of fluor: (show
	L .	with edge staining only;minor gray and white frsh chert becomes more crystalline less chalky; creamy gray micxln to cryptoxin towards base; few chalky micxln pcs with edge staining	also in chalk pcs)
		light gray cryptoxIn Im; mottled dark gray in part few pcs fresh black carb sh (30 spl- spls mislabeled)	
	· .	light tan microxIn to cream oolitic dns lm; some pcs earthy to chalky: trace micro pp poro; much pure white soft chalk; It bm stain	Trace SFO; micro pinpoint droplets clear oil; sli sulfur odor
	2.	. Flood white vchalky im; much pure white soft chalk pcs; . saturated to spttd med brn stain; mixed with cream foss im; some gd and vgd interxIn and moldic poro; vgd sat to spttd stain	Fair oil odor; VGDSFO; med brown; gassy; gd fluor.
@ crs	50 -	becomes tan to brown dense Im; overall less chalky but	(See header for DST results)
		<ul> <li>Change to tinely colitic Im; some white chalky to very chalky; some tan microxin dense; possible trace oil coating on rare pcs; some micro intergranular porosity; no free oil; no odor</li> </ul>	
		Flood coarse and very coarse oolitic Im; excellent moldic porosity (90 spl); light gray to white; some pcs with excell moldic porosity; sli sulphur odor; no show free oil; no fluor;	
		no shows; some spotty mineral fluor; very hard matrix Becomes finely oolitic; dense matrix; very good moldic poro in part; many pcs chalky to pure white chalk;	
		Lm as above; no shows	
		Cream dense earthy to chalky lm; no vis porosity	
	4300 -	Cream dense earthy to chalky Im; no vis porosity	Stark 4302 (-1214) elog 4308 (-1220)
	4300 -	Cream dense earthy to chalky lm; no vis porosity Black carbonaceous shale? (Samples not caught; no value)	Stark 4302 (-1214) elog 4308 (-1220)
	4300 -	Cream dense earthy to chalky Im; no vis porosity Black carbonaceous shale? (Samples not caught; no value) Flood pure soft chlk pcs with cream to tan dense Im; chalk pcs mushy no vis poro but with gd oil saturation; rich med brown; few crystalline pcs with stain to sat; few chalk pcs w/spttd stn (30 spl)	Stark 4302 (-1214) elog 4308 (-1220) Very Gd SFO; fair odor; gd fluor; rainbow sheen on break; gassy
	4300 -	Cream dense earthy to chalky Im; no vis porosity Black carbonaceous shale? (Samples not caught; no value) Flood pure soft chlk pcs with cream to tan dense Im; chalk pcs mushy no vis poro but with gd oil saturation; rich med brown; few crystalline pcs with stain to sat; few chalk pcs w/spttd stn (30 spl) Becomes cream and It gray cryptoxIn dense; still carrying chalky pcs with stain as above	Stark 4302 (-1214) elog 4308 (-1220) Very Gd SFO; fair odor; gd fluor; rainbow sheen on break; gassy
	4300 -	Cream dense earthy to chalky Im; no vis porosity Black carbonaceous shale? (Samples not caught; no value) Flood pure soft chlk pcs with cream to tan dense Im; chalk pcs mushy no vis poro but with gd oil saturation; rich med brown; few crystalline pcs with stain to sat; few chalk pcs w/spttd stn (30 spl) Becomes cream and It gray cryptoxin dense; still carrying chalky pcs with stain as above Samples wash milky white; flood white soft chalk; minor creamy gray micxin; no shows; no visible porosity	Stark 4302 (-1214) elog 4308 (-1220) Very Gd SFO; fair odor; gd fluor; rainbow sheen on break; gassy
	<u>4300</u>	Cream dense earthy to chalky Im; no vis porosity Black carbonaceous shale? (Samples not caught; no value) Flood pure soft chlk pcs with cream to tan dense Im; chalk pcs mushy no vis poro but with gd oil saturation; rich med brown; few crystalline pcs with stain to sat; few chalk pcs w/spttd stn (30 spl) Becomes cream and It gray cryptoxin dense; still carrying chalky pcs with stain as above Samples wash milky white; flood white soft chalk; minor creamy gray micxin; no shows; no visible porosity Earthy to chalky cream Im as above	Stark 4302 (-1214) elog 4308 (-1220) Very Gd SFO; fair odor; gd fluor; rainbow sheen on break; gassy (See header for DST results)
	<u>4300</u> -	Cream dense earthy to chalky Im; no vis porosity Black carbonaceous shale? (Samples not caught; no value) Flood pure soft chlk pcs with cream to tan dense Im; chalk pcs mushy no vis poro but with gd oil saturation; rich med brown; few crystalline pcs with stain to sat; few chalk pcs w/spttd stn (30 spl) Becomes cream and It gray cryptoxln dense; still carrying chalky pcs with stain as above Samples wash milky white; flood white soft chalk; minor creamy gray micxln; no shows; no visible porosity Earthy to chalky cream Im as above Poor samples; dense chalky Im?	Stark 4302 (-1214) elog 4308 (-1220) Very Gd SFO; fair odor; gd fluor; rainbow sheen on break; gassy
	<u>4300</u> -	Cream dense earthy to chalky Im; no vis porosity Black carbonaceous shale? (Samples not caught; no value) Flood pure soft chlk pcs with cream to tan dense Im; chalk pcs mushy no vis poro but with gd oil saturation; rich med brown; few crystalline pcs with stain to sat; few chalk pcs w/spttd stn (30 spl) Becomes cream and It gray cryptoxln dense; still carrying chalky pcs with stain as above Samples wash milky white; flood white soft chalk; minor creamy gray micxln; no shows; no visible porosity Earthy to chalky cream Im as above Poor samples; dense chalky Im? Change to dove gray microxln to cryptoxln Im; trace pcs white to very light gray with pinpoint poro; spotted stain	Stark 4302 (-1214) elog 4308 (-1220) Very Gd SFO; fair odor; gd fluor; rainbow sheen on break; gassy
	<u>4300</u>	Cream dense earthy to chalky Im; no vis porosity Black carbonaceous shale? (Samples not caught; no value) Flood pure soft chlk pcs with cream to tan dense Im; chalk pcs mushy no vis poro but with gd oil saturation; rich med brown; few crystalline pcs with stain to sat; few chalk pcs w/spttd stn (30 spl) Becomes cream and It gray cryptoxin dense; still carrying chalky pcs with stain as above Samples wash milky white; flood white soft chalk; minor creamy gray micxin; no shows; no visible porosity Earthy to chalky cream Im as above Poor samples; dense chalky Im? Change to dove gray microxin to cryptoxin Im; trace pcs white to very light gray with pinpoint poro; spotted stain Becomes very chalky mixed with some gray microxin	Stark 4302 (-1214) elog 4308 (-1220) Very Gd SFO; fair odor; gd fluor; rainbow sheen on break; gassy
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© CFS © CFS © CFS © CFS © CFS © CFS	4300 - 50 - 4400 - 50 - 4500 -	Cream dense earthy to chalky Im; no vis porosity Elack carbonaceous shale? (Samples not caught; no value) Elood pure soft chik pcs with cream to tan dense Im: chalk pcs mushy no vis poro but with gd oil saturation; rich med brown? lew crystalline pcs with stain to sat: few chalk pcs w/sptid stn (30 spl) Becomes cream and It gray cryptoxin dense; still carrying chalky pcs with stain as above Samples wash milky white; flood white soft chalk; minor creamy gray micxin; no shows; no visible porosity Earthy to chalky cream Im as above Poor samples; dense chalky Im? Change to dove gray microvin to cryptoxin Im; trace pcs white to very light gray with pinpoint poro; spotted stain Becomes very chalky mixed with some gray microxin Creamy gray hard dense cryptoxin Im; sli fossiliferous; no visible porosity or shows Light tan cryptoxin Im; mottled with gray in part; shaley; Trace black carbonaceous sh ( 4410 spl; gd amount in 20 spl) Dark gray shale with tan to brown dense shaley Im Cream and tan Im; many pcs with heavy dark brown to black oil stain to safe. Auguat to large wigging porosity with only black stain on edges; little free oil but much oil coating in pores Gray to dove gray dense Im Vugular dense Im as above?; Much oil coating in porosity: split dark stain in isolated vugs: very little to trace free oil Increase in shale percent (50 spl - sample mislabled or caught incorrectly); dark gray to black with green, gray and marroon Large green and marcon mottld silty shale	Stark 4302 (-1214)         elog 4308 (-1220)         Very Gd SFO; fair odor;         gd fluor; rainbow sheen on         break; gassy         (See header for DST results)         (See header for DST results)         (See header for DST results)         BKC 4443 (-1355)         elog 4448 (-1360)         Marmaton 4467 (-1379)         elog 4473 (-1385)         Good SFO; fair to good         odor & fluor; sli gassy;         (See header for DST results)
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%-1-2-3,4-5 10 20	4300 - 50 - 50 - 50 - 50 - 50 -	Cream dense earthy to chalky Im; no vis porosity Black carbonaceous shale? (Samples not caught; no value) Flood pure soft chik pcs with cream to tan dense Im; chalk pcs mushy no vis poro but with g of alsuration; chalk pcs mushy no vis poro but with g of alsuration; few chalk pcs wisht d sti (30 spl) Becomes cream and II gray cryptoxin dense; still carrying chalky pcs with stain as above Samples wash milky white; flood white soft chalk; minor creamy gray micxin; no shows; no visible porosity Earthy to chalky cream Im as above Poor samples; dense chalky Im? Change to deve gray microvin to cryptoxin Im; trace pcs white to very light gray with pinpoint poro; spotted stain Becomes very chalky mixed with some gray microxin Creamy gray hard dense cryptoxin Im; sli fossiliferous; no visible porosity or shows Light tan cryptoxin Im; mottled with gray in part; shaley; Trace black carbonaceous sh (4410 spl; gd amount in 20 spl) Dark gray shale with tan to brown dense shaley Im Cream and tan Im; many pcs with heavy dark brown to black off stain on edges, little free oil but much oil coating in pores. Gray to dove gray where sim isolated vugs; very little to trace free oil Much cream to white finely oolitic Im; hard-dense w/white porosity; splid dark stain in isolated vugs; very little to trace free oil Much cream to white finely oolitic Im; hard-dense w/white solitic opaque chert; micro lossib from fresh chert; some pale green and marcon motid sity shale Much cream to white finely oolitic Im; hard-dense w/white solitic shales to visitor, on shows tan to light bm microxin Im; colitic in part; no poro; no show.	Stark 4302 (-1214) elog 4308 (-1220)         Very Gd SFO; fair odor; gd fluor; rainbow sheen on break; gassy         (See header for DST results)         (See header for DST results)         (See header for DST results)         BKC 4443 (-1355) elog 4448 (-1360)         Marmaton 4467 (-1379) elog 4473 (-1385)         Good SFO; fair to good odor & fluor; sli gassy; (See header for DST results)         Good SFO; fair to good odor & fluor; sli gassy;         Good SFO; fair odor; gd fluor         (See header for DST results)
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© CFS © CFS	4300 - 50 - 4400 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	Cream dense earthy to chalky Im: no vis porosity Elack carbonaceous shale? (Samples not caught; no value) Flood pure soft chik pos with cream to tan dense Im; chalk pos mushy no vis por but with gd of saturation; ream read trown? (ew crystalline pos with stain to sat: few chalk pos wisht dian as above: Samples wash milky white; flood white soft chalk; minor cream gray microln; no shows; no visible porosity Earthy to chalky cream Im as above. Poor samples; dense chalky Im? Change to dove gray microln to cryptoxin Im; trace pos white to very light gray with pinpoint poro; spotted stain Becomes very chalky mixed with some gray microxin Creamy gray hard dense cryptoxin Im; sli fossiliferous; no visible porosity or shows Light tan cryptoxin Im; mottled with gray in part; shaley; Trace black carbonaceous sh ( 4410 spl; gd amount in 20 spl) Dark gray shale with tan to brown dense shaley Im Cream and tan Im; many pos with heavy derk brown to black oil stain to some sat_ vugular to large vugular porosity with underd acide in vugs; some pos with only black stain in isolated vugs; very little for trace free oil Increase in shale percent (50 spl - sample mistabiled or caught incorrecthy; dark gray to black with green, gray and marcon Vugular dense Im as above? Wuch oil coating in porosity, spttd dark stain in isolated vugs; very little fo trace free oil Increase in shale percent gray to black with green, gray and marcon Large increase in shale percent much discoting It porosity, spttd dark stain in isolated vugs; very little fo trace free oil Increase in shale percent work dissolving It arge increase in shale percent much dissolving It porosity, spttd dark stain in isolated vugs; very little fo trace free oil Increase in shale percent much dissolving It arge oils vita to dona to saturation becomes microxin dense; no poro visible Creamy gray vitin to microxin Im; ob ito saturation becomes microxin dense; no poro visible Creamy gray vitin to microxin Im; ob ito fair end rare port is gin vugular to integrarianten; pos vity, b	Stark 4302 (-1214)         elog 4308 (-1220)         Very Gd SFO; fair odor;         gd fluor; rainbow sheen on         break; gassy         (See header for DST results)         (See header for DST results)         (See header for DST results)         BKC 4443 (-1355)         elog 4448 (-1360)         Marmaton 4467 (-1379)         elog 4448 (-1385)         Good SFO; fair to good         odor & fluor; sli gassy         Fair SFO; med brn; gassy;         (See header for DST results)         Good SFO; fair odor;         gd fluor         Sli odor; few pcs w/GdSFO;         gd fluor         Sli odor; few pcs w/GdSFO;         gd fluor         Sli odor; few pcs w/GdSFO;         Beymer 4566 (-1478)
V-1 - 2 - 34 5 10 20	4300 - 50 - 4400 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	Cream dense earthy to chalky Im; no vis porosity  Eleck carbonaceous shale? (Samples not caught; no value)  Flood pure soft chik pcs with cream to tan dense Im; chalk pcs mushy no vis port but with gd of saturation; chalk pcs mushy no vis port but with gd of saturation; chalk pcs wisht din (Sas) Becomes cream and It gray cryptoxin dense; still carrying chalky pcs with stain to sati- few chalk pcs wisht din (Sos) Becomes cream and It gray cryptoxin dense; still carrying chalky no: Change to dove gray-microxin to enyboxin Im; trace- cost white to very light gray with pinpoint poro; spotted Poor samples; dense chalky Im?  Change to dove gray-microxina to enyboxin Im; trace- cost white to very light gray with pinpoint poro; spotted Satin Becomes very chalky mixed with some gray microxin  Creamy gray hard dense cryptoxin Im; sli fossiliterous; no visible porosity or shows Light tan cryptoxin Im; mottled with gray in part; shaley; Trace black carbonaceous sh (4410 spl; gd amount in 20 spl) Dark gray shale with tan to brown dense shaley Im Cream and tan Im; many pcs with heavy dork brown to black oil stain to locate sit, supplur to large; some pcs with only black stain on edges. Little free oil but much of coating in pores. Gray to dove gray danse Im Vugular dense Im as above?; Much oil coating in porosity, with varool shales K with green, gray din dark stain in laolated vugs; very little to trace free oil  Much cream to white linely politic Im; hard-dense wiwhite oblic on guay danse Im Vugular dense Im as above?; Much oil coating in porosity, and marcon Error on to this proces, no visible Creamy gray vful to inforgranular porosity. Large innerese, in shale percent (S0 spl; sample mislabled gray dia marcon soft dark stain in elay to black with green, gray day danse Im Vugular dense Im as above?; Much oil coating in porosity, and marcon in the stain to saturation becomes trickin dense; no vis pore; no shows En to light bm microxin Im; oolitic in part; porosity, becomes thrown to dark brown foss dense; gray-green shales	Stark 4302 (-1214)         elog 4308 (-1220)         Very Gd SFO; fair odor; gd fluor; rainbow sheen on break; gassy         (See header for DST results)         BKC 4443 (-1355)         elog 4448 (-1360)         Marmaton 4467 (-1379)         elog 4473 (-1385)         Good SFO; fair to good odor & fluor; sli gassy         Slight odor; gd fluor         (See header for DST results)
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PO Box 93999 Southlake, TX 76092

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

Bill To:

Abercrombie Energy, LLC 5510 Oil Center RD South Great Bend, KS 67530 RECEIVED MAR - 5 2014 WIGHITA WIGHITA RECEIVED MAR 9 - 2004 GREATBEND

INVOICE

Invoice Number: 141504 Invoice Date: Feb 18, 2014 Page: 1

C	ustomer ID	Field Ticket #	Paym	ent Terms	
	Aber	62548	Net	30 Days	
Jo	b Location	Camp Location	Service Date	Due	Date
	KS1-04	1-04 Oakley F		3/2	0/14
Quantity	Item	Description		Unit Price	Amount
1.00	WELLNAME	Moore A #1-9			
325.00	CEMENT MATERIALS	Light Weight		15.95	5,183.75
10.00	CEMENT MATERIALS	Cottonseed Hulls		35.00	350.00
81.00	CEMENT MATERIALS	Flo Seal		2.97	240.57
519.10	CEMENT SERVICE	Cubic Feet Charge		2.48	1,287.37
1,382.70	CEMENT SERVICE	Ton Mileage Charge		2.60	3,595.02
1.00	CEMENT SERVICE	Port Collar		2,483.59	2,483.59
66.00	CEMENT SERVICE	Pump Truck Mileage		7.70	508.20
66.00	CEMENT SERVICE	Light Vehicle Mileage		4.40	290.40
1.00	CEMENT SUPERVISOR	LaRene Wentz			
1.00	CEMENT SUPERVISOR	Andrew Forslund			
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30 DAYS F	OLLOWING DATE OF	Sales Tax			470.61
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CURRENT	TAKE DISCOUNT OF	Payment/Credit Applied			,
<b>*</b>	0 707 70	TOTAL			14,409,51
\$	2,787.78				

ONLY IF PAID ON OR BEFORE Mar 15, 2014

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