





Form	ACO1 - Well Completion
Operator	ELK Energy Holdings LLC
Well Name	LIPPELMANN #8-14
Doc ID	1486365

All Electric Logs Run

DIL
CPI
MEL
DUCP

Form	ACO1 - Well Completion
Operator	ELK Energy Holdings LLC
Well Name	LIPPELMANN #8-14
Doc ID	1486365

#### 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	23	303	Class A	250	2%
Production	7.875	5.5	15.5	4698	OWC, 60/40	600	8%gel

# FRANKS Oilfield Service, LLC

815 Main Street  
Victoria, KS 67671

Office (785) 639-3949  
24 Hour Service Line (785) 639-7269

Email: franksoilfield@yahoo.com

## Invoice

Date	Invoice #
10/23/2019	0106

Please Pay from this Invoice.  
Remit Payment to:  
815 Main Street  
Victoria, KS 67671  
Billing Questions-Call Tianna at  
(785) 639-3949

Bill To
Elk Energy Holding, LLC 2250 N. Rock Road STE 118-107 Wichita, KS 67226

County/State	Lease/Well#	Terms	Job Type
Thomas Co., KS	Lippelmann 8-14	Net 30	Surface

Description	Quantity	Rate	Amount
Pump Charge	1	1,150.00	1,150.00
Mileage	40	6.50	260.00
12.37 Tons at 40 Miles	494.8	1.50	742.20
Surface Blend	250	24.50	6,125.00T
30% Discount		-2,483.16	-2,483.16

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

**Subtotal** \$5,794.04

**Sales Tax (8.0%)** \$343.00

**Balance Due** \$6,137.04

*We appreciate your business and look forward to serving you again!*

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TICKET NUMBER 0106  
LOCATION Hoxie MS  
FOREMAN Wm H Shaw

## 45

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/23/19		Lippelman 8-14	14	105	33 W	Thomas
CUSTOMER Edu Energy			Ockley KS U to CRF West to CR 23 1 S Edw Into			
MAILING ADDRESS						
CITY	STATE	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
			P1	Jack T		
			B3	Mikes S		
			CT1	Preston D		

JOB TYPE <u>Surface</u>	HOLE SIZE <u>12.25'</u>	HOLE DEPTH <u>303'</u>	CASING SIZE & WEIGHT <u>8 5/8 23#</u>
CASING DEPTH <u>303'</u>	DRILL PIPE _____	TUBING _____	OTHER _____
SLURRY WEIGHT <u>14.8</u>	SLURRY VOL <u>1.4</u>	WATER gal/sk _____	CEMENT LEFT in CASING <u>20'</u>
DISPLACEMENT <u>28 bbls</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE _____
REMARKS: <u>Safety Meeting and Rig up on WW Drilling Rig #10 Circulate Casing</u> <u>Mix 250 St Surface blend Class A 3% cc 28 gel disp lgr 28 bbls water</u> <u>Shut in Cement did Circulate</u>			

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PL002	1	PUMP CHARGE	1150. <sup>00</sup>	1150. <sup>00</sup>
Mool	40	MILEAGE	6.50	260. <sup>00</sup>
M002	12.37 Tons	Ton M.t + cee delivery	1.50	742.20
CB004	250 SX	Surface Blend	24.50	6125. <sup>00</sup>
			Subtotal	8277.20
			less 30% discount	2483.16
			Sub total	5794.04
			Sales Tax	343. <sup>00</sup>
			ESTIMATED TOTAL	6,137.04

AUTHORIZATION W. H. H. H. TITLE \_\_\_\_\_ DATE \_\_\_\_\_

**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.**

## TERMS

In consideration of the prices to be charged for Franks Oilfield Service (FOS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

**Terms.** Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay FOS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event FOS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by FOS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All FOS prices are subject to change without notice.

## SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by FOS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) FOS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of FOS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of FOS, Customer shall be responsible for and indemnify and hold FOS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by FOS; (3) injury to or death of persons, other than employees of FOS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hold; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. FOS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools. Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) FOS makes no guarantee of the effectiveness of any FOS' products, supplies or materials, or the results of any FOS' treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, FOS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by FOS. FOS' personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that FOS shall not be responsible for any damage arising from the use of such information except where due to FOS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) FOS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that FOS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify FOS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

## WARRANTIES - LIMITATION OF LIABILITY

FOS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. FOS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of FOS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to FOS or, at FOS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against FOS for any special, incidental, indirect, consequential or punitive damages.

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## Invoice

Date	Invoice #
10/30/2019	0108

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Bill To
Elk Energy Holding, LLC 2250 N. Rock Road STE 118-107 Wichita, KS 67226

County/State	Lease/Well#	Terms	Job Type
Thomas Co., KS	Lippelmann #8-14	Net 30	2 Stage

Description	Quantity	Rate	Amount
Pump Charge	1	2,500.00	2,500.00
Mileage	45	6.50	292.50
31.1 tons at 45 miles	1,399.5	1.50	2,099.25
60/40 88 gel 1/6 # flo	430	17.35	7,460.50T
Thixo blend OWC	200	28.55	5,710.00T
5-1/2" Centralizers	9	80.00	720.00T
5-1/2" Basket	3	385.00	1,155.00T
5-1/2" Guide Shoe AFU	1	600.00	600.00T
5-1/2" Latchdown Plug & Assembly	1	695.00	695.00T
5-1/2" DV Stage Tool	1	6,000.00	6,000.00T
5-1/2" Reciprocating Scratchers	32	75.00	2,400.00T
30% Discount		-8,889.67	-8,889.67

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

**Subtotal** \$20,742.58

**Sales Tax (8.0%)** \$1,385.47

**Balance Due** \$22,128.05

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# FRANKS Oilfield Service

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TICKET NUMBER 0108  
LOCATION Hugie, KS  
FOREMAN Miles Shaw

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
10-30-19		Libbleman 8-14	14	10S	33W	Thomas	
CUSTOMER EIK Energy		Oahley ls N'w R F W to CR 73 1 1/2 S E + N into		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				CT3	Miles S	103	
CITY		STATE		CT-1	Preston D		
ZIP CODE				101	Jack T		
				102			

JOB TYPE 25 Stage HOLE SIZE 7 7/8" HOLE DEPTH 4704 CASING SIZE & WEIGHT 5.5" 17#  
CASING DEPTH 4701 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DUT @ 2657'  
SLURRY WEIGHT 148/11.7 SLURRY VOL 1.51/2.39 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
DISPLACEMENT 108/63 1/2 DISPLACEMENT PSI 2000/1800 MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_  
REMARKS: Safety meeting and discussion on Wild drilling R-10 Run in 117 sats  
Centralizers on sats 5, 8, 10, 12, 14, 16, 18, Marker sat #2 50 Bagshot on sats 6, 21, 51  
DUT to sat 51 @ 2657' Circulate v/c to 37. Pump 500 gal mud flush 20 bbls 100/100 water  
mix 500x one Schaeffer and 1500x @ 14.8 gal Shut down clear pump + lines release plus displace  
50 bbls water 58 bbls mud with 1000# 1.1 fl plus loaded & held @ 2000# Circulate 345 Pump 500  
gal mud flush mix 4000x 60/40 lit down casing Shut down clear pump + lines release plus displace  
603 1/2 bbls water with 900 psi 1.1 fl plus displace and hold shut @ 1600 psi Wash up Rig down

300x RH

Thanks Miles & crew

Scratchers on Sats 11, 12, 13, 14, 15, 16, 17, 18

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC004	1	PUMP CHARGE	2500.00	2500.00
M001	45	MILEAGE	6.50	292.50
M002	31.1 Tons	Ton mileage delivery	1.50	2099.25
CB021	430 Sx	60/40 Litz Por blend	17.35	7460.50
CB030	200 Sx	CWC blend 5" 100/100	28.55	5710.00
FE013	9	5 1/2" Centralizers	80.00	720.00
FE022	3	5 1/2" Baskets	385.00	1155.00
FE033	1	5 1/2" Guide Shoe	600.00	600.00
FE051	1	5 1/2" latchdown plug + assembly	695.00	695.00
FE090	1	5 1/2" DU Stage tool	6000.00	6000.00
FE096	32	5 1/2" Reciprocating Scratchers	75	2400.00
			Subtotal	29632.25
		less 3000.00		8889.67
			Subtotal	20742.58
			SALES TAX	1,385.47
			ESTIMATED TOTAL	22,128.05

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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Customer waives and releases all claims against FOS for any special, incidental, indirect, consequential or punitive damages.

# Murfin Morning Report

<b>Operator</b>		Elk Energy Holdings LLC		<b>Murfin Rig#</b>		110		<b>Pusher</b>		Ricky Hilgers	
<b>Well Name/No</b>		Lippelmann #8-14		<b>API#</b>		15-193-21058-00-0C		<b>Well Code #</b>		13	
<b>Legal Desc</b>		965 FNL 996 FWL Section 14-10s-33w		<b>County</b>		Thomas		<b>State</b>		KS	
<b>DC's (# &amp; Size)</b>		1 6		<b>CkDate</b>		7/20/19		<b>Drill Pipe Jts</b>		162	
<b>Make Pump</b>		National K380		<b>Liner &amp; Stroke</b>		6X14		<b>Spud</b>		5:30 PM 10/23/2019	
<b>Approx. TD</b>		5,300		<b>Elevation</b>		3,144		<b>G.L.</b>		3,149	
<b>Miles Moved</b>		48		<b>Cost \$</b>		Hrs 9		<b>Trucks</b>		3 Rainbow/3 WW Trucks	
<b>Rig Rls</b>		2:00 AM		<b>10/31/2019</b>							

<b>Fuel On Hand Today.</b>	1,200	1,062	3,633	3,242	2,911	2,561	2,198	1,954	1,710		
<b>Fuel Delivery Date.</b>											
<b>Date.</b>	10/23/19	10/24/19	10/25/19	10/26/19	10/27/19	10/28/19	10/29/19	10/30/19	10/31/19	11/01/19	11/02/19
<b>Current Activity.</b>	1-Spud	2-Woc	3-Drlg	4-Drlg	5-Drlg	6-Drlg	7-Drlg	8-LDDS	9-Done		
<b>Total Depth.</b>		303	2,180	3,205	3,674	4,146	4,580	4,700 TD	4,700		
<b>Footage Cut In 24 Hrs.</b>		303	1,877	1,025	469	472	434	120	0		
<b>Drilling Time.</b>		3.25	22.5	18	13.75	19.25	23	6.75	0		
<b>Down Time.</b>		0	0	5	9.25-	.25-Dwks	0	0	0		
<b>Company Time.</b>		8-Woc	.75-Jet	1/2	1-Disp	4	1/4	17 1/4	19		
<b>Bit Wt.</b>		10,000	30,000	35,000	35,000	38,000	38,000	38,000	0		
<b>RPM.</b>		100	90	85	85	85	85	85	0		
<b>Pressure.</b>		400	650	700	650	700	875	900	0		
<b>SPM.</b>		60	60	60	60	60	60	60	0		
<b>Accum Mud Cost.</b>		Na	2,166	2,166	11,582	11,582	11,582	12,286	12,286		
<b>Mud Wt.</b>		8.6	9.0	9.2	8.8	9.1	9.3	9.3	9.3		
<b>Funnel Viscosity.</b>		28	28	29	65	58	56	53	53		
<b>Water Loss.</b>		Na	-	Na	7.2	7.2	7.2	7.2	7.2		
<b>Clorides.</b>		Na	-	500	750	750	750	750	750		
<b>L.C.M. &amp; P.H.</b>		0#/0 Ph	Tr / -	-	4#/ 11.5	3#/ 10.5	3#/ 10.5	3#/ 10	0		
<b>Deviation Survey.</b>		1*-303'	-	-	-	-	-	1.25-4700	0		
<b>Safety Meeting Topic.</b>		Rig Up	Catline	Trips	Pump	Hand Tool	P. Points	LDDS	Rig Down		
<b>ACC Bit Hours.</b>		3 1/4	22 1/2	40 1/2	54 1/4	73 1/2	96 1/2	103 1/4	0		
<b>Formation.</b>		Surface	Sd-Sh	Sd-Sh	Sh-Lm	Lm-Sh	Sh-Lm	Sh-Lm	Sh-Lm		
<b>Weather.</b>		P/C	P / C	Clear	P/C	P/C	P / C	Snow	Clear		

No	Size	Mfg	Type	Out	Ft	Hrs	Cum Hrs	ROP	Serial #	Bit Jet Size
1	12 1/4	STC	Tooth	303	303	3 1/4	3 1/4	93	RH-9560	3-15's
2	7 7/8"	Smith	F27	4,700	4,397	103 1/4	106 1/2	43	RL-1817	3-15's
<b>Bit totals and overall penetration rate average</b>					4,700	106 1/2		44		

Depth	Size	Sacks	Cement Material	Plug Down	Drilled Out	Remarks
Set @ 303'	8 5/8" 23#	250	Class A 2%	11:00pm 10/23/19	7:00 am 10/24/19.	Cemented By: Franks
Set @ 4698'	5 1/2" 15.5#	200	First stage OWC 5# Kol seal	10:00 pm 10/30/19.		Cemented By Franks
		400	cond Stage 60/40 8% Gel 1/			DV Tool set @ 2657'

No	Zone	Interval	Open	Shut	Open	Shut	Recovery

<b>Surface Casing</b>	<b>Jts</b>	<b>7</b>	<b>Wt</b>	<b>23#</b>	<b>Tally</b>	<b>296.28</b>	<b>Production Casing</b>	<b>Jts</b>	<b>116</b>	<b>Wt</b>	<b>15.5#</b>	<b>Tally</b>	<b>4703</b>
<b>Logging Co</b>	Pioneer		<b>LTD</b>		<b>4704</b>	<b>Start</b>	##### 10/29/2019	<b>Complete</b>	1:15 AM	10/30/2019			
<b>Comments:</b>							<b>Water Info:</b>						
Surface Casing Supplied By: Sunrise Supply. Hauled By: Sunrise.							Water well pumped by WW						
Strapped & Welded By: Keith WW. Anhydrite 2655'-2695'. Stuck at 2851' for 4.75 hrs.							No gen, WW line, WW pump						
Displacement complete @ 3486-3500' used 720 in .75 hrs. 9.25 hrs. down working on pump							Frack tank is used						
liner. Short trip # 1 @ 3994'. Pulled 25 stands in 2 hrs. Logging by Pioneer started at							No BOP used						
10:15 PM on 10-29-19. Short Trip at 4700' -23 stands in 4 hrs. 5 1/2" casing set @ 4698',													
Jet cellar set slips and tear down Rig released @ 2:00 am 10/31/19.													
<b>Accidents:</b>													

## Murfin Morning Report

Operator		Elk Energy Holdings LLC						Murfin Rig#		110		Tool Pusher		Ricky Hilgers							
Well Name/No		Lippelmann #8-14						API#		15-193-21058-00-0C						Well Code #		13			
Legal Desc		965 FNL 996 FWL Section 14-10s-33w						County		Thomas						State		KS			
DC's (# & Size)		1 6		CkDate		7/20/19		Drill Pipe Jts		162		KCC Rep		Jennifer Hawthorne							
Make Pump		National K380						Liner & Stroke		6X14						Spud		5:30 PM 10/23/2019			
Approx. TD		5,300						Elevation		3,144		G.L.		3,149		K.B.		TD 1:45 PM 10/29/2019			
Miles Moved		48		Cost \$				Hrs		9		Trucks		3 Rainbow/3 WW Trucks						Rig Rls 2:00 AM 10/31/2019	
Fuel On Hand Today.																					
Fuel Delivery Date.																					
Date.		11/3/19		11/4/19		11/5/19		11/6/19		11/7/19		11/8/19		11/9/19		11/10/19		11/11/19			
Current Activity.																					
Depth.																					
Footage Cut In 24 Hrs.																					
Drilling Time.																					
Down Time.																					
Company Time.																					
Bit Wt.																					
RPM.																					
Pressure.																					
SPM.																					
Accum Mud Cost.																					
Mud Wt.																					
Funnel Viscosity.																					
Water Loss.																					
Clorides.																					
L.C.M. & P.H.																					
Deviation Survey.																					
Safety Meeting Topic.																					
ACC Bit Hours.																					
Formation.																					
Weather.																					
No	Size	Mfg	Type	Out	Ft	Hrs	Cum Hrs	Rop	Serial #	Bit Jet Size											
Bit totals and overall penetration rate average																					
Depth		Size	Sacks	Cement Material		Plug Down		Drilled Out		Remarks											
No	Zone	Interval		Open	Shut	Open	Shut	Recovery													
Surface Casing Jts _____ Wt _____ Tally _____ Production Casing Jts _____ Wt _____ Tally _____																					
Logging Co _____ LTD _____ Start _____ Complete _____																					
Comments: Surface Casing Supplied By: _____ Water Info: _____																					
Strap & Welded By: _____																					
Accidents: _____																					

## Murfin Morning Report

Operator		Elk Energy Holdings LLC						Murfin Rig#		110		Tool Pusher		Ricky Hilgers							
Well Name/No		Lippelmann #8-14						API#		15-193-21058-00-0C						Well Code #		13			
Legal Desc		965 FNL 996 FWL Section 14-10s-33w						County		Thomas						State		KS			
DC's (# & Size)		1 6		CkDate		7/20/19		Drill Pipe Jts		162		KCC Rep		Jennifer Hawthorne							
Make Pump		National K380						Liner & Stroke		6X14						Spud		5:30 PM 10/23/2019			
Approx. TD		5,300						Elevation		3,144		G.L.		3,149		K.B.		TD 1:45 PM 10/29/2019			
Miles Moved		48		Cost \$				Hrs		9		Trucks		3 Rainbow/3 WW Trucks						Rig Rls 2:00 AM 10/31/2019	
Fuel On Hand Today,																					
Fuel Delivery Date.																					
Date.		11/14/19		11/15/19		11/16/19		11/17/19		11/18/19		11/19/19		11/20/19		11/21/19		11/22/19			
Current Activity.																					
Depth.																					
Footage Cut In 24 Hrs.																					
Drilling Time.																					
Down Time.																					
Company Time.																					
Bit Wt.																					
RPM.																					
Pressure.																					
SPM.																					
Accum Mud Cost.																					
Mud Wt.																					
Funnel Viscosity.																					
Water Loss.																					
Clorides.																					
L.C.M. & P.H.																					
Devition Survey.																					
Safety Meeting Topic.																					
ACC Bit Hours.																					
Formation.																					
Weather.																					
No	Size	Mfg	Type	Out	Ft	Hrs	Cum Hrs	Rop	Serial #	Bit Jet Size											
Bit totals and overall penetration rate average																					
Depth		Size	Sacks	Cement Material		Plug Down		Drilled Out		Remarks											
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Comments: Surface Casing Supplied By: _____ Water Info: _____																					
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Murfin Morning Report

<b>Operator</b>	Elk Energy Holdings LLC	<b>Murfin Rig#</b>	110	<b>Tool Pusher</b>	Ricky Hilgers
<b>Well Name/No</b>	Lippelmann #8-14	<b>API#</b>	15-193-21058-00-0C	<b>Well Code #</b>	13
<b>Legal Desc</b>	965 FNL 996 FWL Section 14-10s-33w	<b>County</b>	Thomas	<b>State</b>	KS

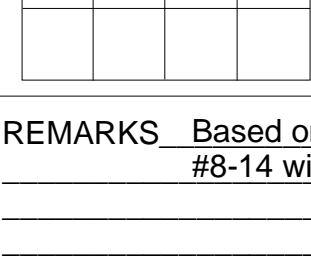
Additional comments:



Sean Deenihan  
Petroleum Geologist

GEOLOGIST'S REPORT  
DRILLING TIME AND SAMPLE LOG

COMPANY	Elk Energy Holdings, LLC	ELEVATIONS	
LEASE	Lippelmann #8-14	KB	3146'
FIELD	Spica	DF	
LOCATION	330° ESL & 330° FWL	GL	3141'
SEC	14	TWSP	10 S RGE 33 W
COUNTY	Thomas	STATE	Kansas
CONTRACTOR	W.W. Drilling Rig #12	Measurements Are All From Kelly Bushing	
SPUD	COMP	CASING	
RTD	4700'	LTD	4704'
MUD UP	TYPE MUD	CHEMICAL	
SAMPLES SAVED FROM	3700'	TO RTD	
DRILLING TIME KEPT FROM	3700'	TO RTD	
SAMPLES EXAMINED FROM	3700'	TO RTD	
GEOLOGICAL SUPERVISION FROM	3700'	TO RTD	
REFERENCE WELL	CND/DL, MIC	ELI	
Formation	Sample Tops	E-log Tops	Strat Pos.
Bathymetric		2684 (-1462)	
Heebner Sh.		4040 (-894)	
Lansing		4078 (-892)	
Stark Sh.		4302 (-1150)	
Fl. Scott Sh.		4556 (-1410)	
Cherokee Sh.		4586 (-1440)	



REMARKS Based on sample analysis, log evaluation, and relative structural position, the Lippelmann #8-14 will be further evaluated through production casing.

Respectfully Submitted,

Sean P. Deenihan

