

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	ELK Energy Holdings LLC
Well Name	SHEPHERD 2-14
Doc ID	1526630

All Electric Logs Run

CPI
MEL
DUCP
DIL

Murfin Morning Report

Operator		Elk Energy Holdings LLC			Murfin Rig#		112		Tool Pusher		Calvin Pfannenstiel										
Well Name/No		Shepherd # 2-14			API#		15-193-21072		Well Code #		2										
Legal Desc		Sec-14-10s-33w			County		Thomas		State		KS										
DC's (# & Size)		16 6 1/4		CkDate		Drill Pipe Jts		162		KCC Rep		Jennifer Hathrone									
Make Pump		DB-550			Liner & Stroke		6" X 14"		Spud		2:45 PM		1/30/2020								
Approx. TD		4700'			Elevation		3138'		G.L.		3146'		K.B. 8'	TD	1:00 PM	2/5/2020					
Miles Moved		5		Cost \$		Hrs		7		Trucks		3 Murfin / 1 Rainbow		Rig Rls		7:30 PM	2/6/2020				
Fuel on Hand Today				1,771		3,759		3,495		3,189		2,796		2,380		2,076		1,976			
Fuel Delivery Date																					
Date		1/30/20		01/31/20		02/01/20		02/02/20		02/03/20		02/04/20		02/05/20		02/06/20		02/07/20		02/08/20	02/09/20
Current Activity		1-Spud		2-Drlg		3-Drlg		4-Drlg		5-Drlg		6-Drlg		7-Drlg		8-LDDP		9-Done			
Total Depth		308		544		2,209		3,120		3,811		4,235		4,595		4,700		4,700			
Footage Cut in 24 Hrs.		3		236		1,665		911		691		424		360		105		0			
Drilling Time				3.25		22.25		20.75		23.25		20.75		23.5		5.75		0			
Down Time				0		0		2.5-Bit T		0		0		0		0		0			
Company Time				8-WOC		1-Circ		.5-Jetting		.5-Jetting		2.75-Short		.5-Jetting		18 1/4		12 1/2			
Bit Wt.				20,000		35,000		38,000		38,000		38,000		38,000		38,000		0			
RPM				95		85		85		85		85		85		85		0			
Pressure				500		500		600		600		600		600		750		0			
SPM				58		58		58		58		58		58		58		0			
Accum Mud Cost				-		2,608		2,608		11,157		11,909		11,909		14,507		14,507			
Mud Wt.				8.8		9.2		9.3		8.9		9.2		9.3		9.3		0.0			
Funnel Viscosity				28		28		29		46		52		50		60		0			
Water Loss				-		-		-		7.2		7.2		7.2		6.4		0.0			
Chlorides				-		-		-		500		500		500		500		0			
L.C.M. & P.H.				-		1#/ph		1#/0ph		3#/10.5		3#/ 10.0		3#/ 10.0		3#/ 10.0		3#/10.0			
Deviation Survey				1/2*-308		-		.75*-2281'		-		-		-		.75*-4700'		0			
Safety Meeting Topic				Drlg Line		Rotary		Stairs		Guards		Hand Tools		Electrical		LDDP		Plugging			
ACC Bit Hours				3 1/4		25 1/2		46 1/4		69 1/2		90 1/4		115 3/4		119 1/2		119 1/2			
Formation				Sd-Sh		Sh-Sd		Sh-Sd		Sh-Lm		Sh-Lm		Sh-Lm		Sh-Lm		Sah-Lm			
Weather				Clear		Clear		Clear		Cloudy		Cloudy		Cloudy		Clear		Clear			

No	Size	Mfg	Type	Out	Ft	Hrs	Cum Hrs	ROP	Serial #	Bit Jet Size
1	12 1/4	Smith	Tooth	308	308	3	3	103	RH7319	3-15's
2	7 7/8	Smith	F27	4,700	4,392	119 1/2	122 1/2	37	RL2084	3-15's
Bit totals and overall penetration rate average				4,700		122 1/2		38		

Depth	Size	Sacks	Cement Material	Plug Down	Drilled Out	Remarks
Set @ 308	8 5/8	250	Class A	7:45 PM	3:45 PM	Franks - did circ
Plug well		240	60/40 Poz 3% Gel 1/4 Flow	3:30 pm 2/6/2020.		Plugged by Franks

No	Zone	Interval	Open	Shut	Open	Shut	Plugging Orders
							Plug #1 Set @ 2680' w/ 50 sks
							Plug #2 Set @ 1730' w/ 100 sks
							Plug #3 Set @ 360' w/ 50 sks
							Plug # 4 set @ 40' w 8 5/8" wiper plug 10 sks
							30 sks in rat hole
							Total 240 sks

Surface Casing	Jts	7	Wt	23	Tally	298	Production Casing	Jts	Wt	Tally	
Logging Co	Pioneer Wire Line			LTD	4700'	Start	9:30 PM	2/5/2020	Complete	12:45 am..	2/6/2020
Comments:	Surface Casing Supplied By: Sunrise. Hauled By: Fritzler.						Water Info: Hauled by Hoxie from irrigation well.				
Strapped & Welded By: Welded by Jesswie Worthington - WW. Lost Circ 2119' lost 100 bbl. Tooh to check bit @ 2281'. Bit was good. Anhydrite 2663-2698'. Displaced @ 3475'. Used 700 bbl. Short trip @ 3998'. Pulled 25 stands in 2 hrs. Short trip @ 4700' pulled 25 strands in 4.25 hrs, Jet Cellar Jet pits and tear down rig released @ 7:30 pm 2/6/2020											
Accidents:											

Murfin Morning Report

Operator	Elk Energy Holdings LLC		Murfin Rig#	112	Tool Pusher	Calvin Pfannenstiel	
Well Name/No	Shepherd # 2-14		API#	15-193-21072	Well Code #	2	
Legal Desc	Sec-14-10s-33w		County	Thomas	State	KS	
DC's (# & Size)	16 6 1/4	CkDate		Drill Pipe Jts	162	KCC Rep	Jennifer Hathrone
Make Pump	DB-550		Liner & Stroke	6" X 14"		Spud	2:45 PM 1/30/2020
Approx. TD	4700'		Elevation	3138'	G.L.	3146'	K.B. TD 1:00 PM 2/5/2020
Miles Moved	5	Cost \$	Hrs	7	Trucks	3 Murfin / 1 Rainbow Rig Rls 7:30 PM 2/6/2020	

Fuel On Hand Today.												
Fuel Delivery Date.												
Date.	2/10/20	2/11/20	2/12/20	2/13/20	2/14/20	2/15/20	2/16/20	2/17/20	2/18/20	2/19/20	2/20/20	
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	Water Info:	
Comments: Surface Casing Supplied By:			Strap & Welded By:		

Accidents: _____

Murfin Morning Report

Operator	Elk Energy Holdings LLC		Murfin Rig#	112	Tool Pusher	Calvin Pfannenstiel		
Well Name/No	Shepherd # 2-14			API#	15-193-21072	Well Code #	2	
Legal Desc	Sec-14-10s-33w			County	Thomas	State	KS	
DC's (# & Size)	16	6 1/4	CkDate		Drill Pipe Jts	162	KCC Rep	Jennifer Hathrone
Make Pump	DB-550		Liner & Stroke		6" X 14"		Spud	2:45 PM 1/30/2020
Approx. TD	4700'		Elevation	3138'	G.L.	3146'	K.B.	TD 1:00 PM 2/5/2020
Miles Moved	5		Cost \$		Hrs	7	Trucks	3 Murfin / 1 Rainbow
					Rig Rls	7:30 PM		2/6/2020

Fuel On Hand Today,												
Fuel Delivery Date.												
Date.	2/21/20	2/22/20	2/23/20	2/24/20	2/25/20	2/26/20	2/27/20	2/28/20	2/29/20	3/1/20	3/2/20	
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		

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:	_____											
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Murfin Morning Report

Operator	Elk Energy Holdings LLC	Murfin Rig#	112	Tool Pusher	Calvin Pfannenstiel
Well Name/No	Shepherd # 2-14	API#	15-193-21072	Well Code #	2
Legal Desc	Sec-14-10s-33w	County	Thomas	State	KS

Additional comments:

API: 15-193-21072

Sean Deenihan Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY **Elk Energy Holdings, LLC**
 LEASE Shepherd #2-14
 FIELD Wildcat
 LOCATION 2310' FSL & 2310' FEL
 SEC 14 TWSP 10 S RGE 33 W
 COUNTY Thomas STATE Kansas
 CONTRACTOR Murfin Drilling
 SPUD COMP 2/5/20
 RTD 4700' LTD 4700'
 MUD UP TYPE MUD Chemical

ELEVATIONS
 KB 3146'
 DF
 GL 3139'

Measurements Are All From Kelly Bushing

CASING
 CONDUCTOR
 SURFACE 8-5/8" at 308'
 PRODUCTION

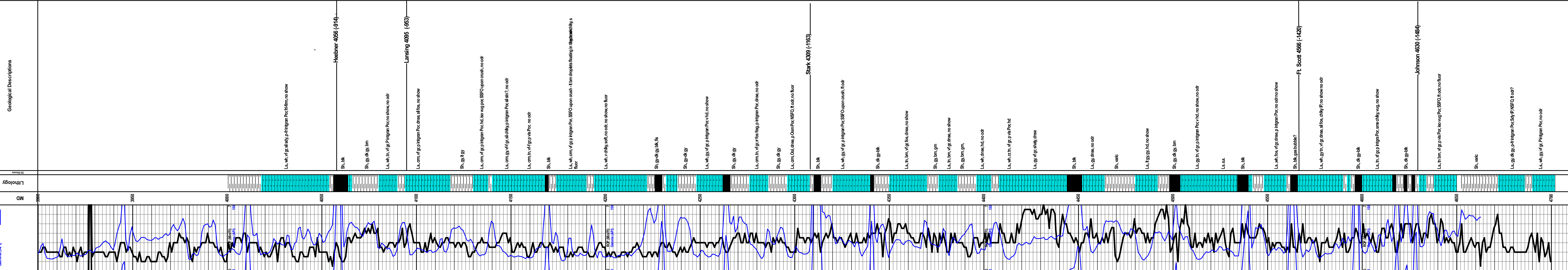
ELECTRICAL SURVEYS
 Pioneer
 CND/DIL, MIC

SAMPLES SAVED FROM 3800' TO RTD
 DRILLING TIME KEPT FROM 3800' TO RTD
 SAMPLES EXAMINED FROM 3800' TO RTD
 GEOLOGICAL SUPERVISION FROM 3800'
 REFERENCE WELL

REMARKS The decision was made to plug and abandon the Shepherd #2-14.

Respectfully Submitted,

Sean P. Deenihan



KB: 3146'

ELK ENERGY HOLDINGS, LLC
 Shepherd #2-a4
 14 - 10S-33W
 Thomas Co., KS

RTD: 4700'
 LTD: 4700'

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0134
 LOCATION Hoxco KS
 FOREMAN Miles She

FIELD TICKET & TREATMENT REPORT CEMENT

US

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-30-20		Shepherd 2-14				Thomas
CUSTOMER EIK Energy			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12.25" HOLE DEPTH 308' CASING SIZE & WEIGHT 8 5/8" 23#
 CASING DEPTH 308' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.4 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 18.25 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & Rig up on WW drilling Rig #12 Circulate casing
mix 250 sx Class A 302 displace 18 1/2 bbls cement shut in cement did
circulate

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PE 002	1	PUMP CHARGE	1150.00	1150.00
MOO1	45	MILEAGE	6.50	292.50
MW 2	12.38 TONS	Ton M. Loss delivery	1.50	835.65
CB 004	250	Class A Cement Surface blend	24.50	6125.00
			Subtotal	8403.15
		1.055 25% dis cement		2100.78
			Subtotal	6302.37
			SALES TAX	3107.50
			ESTIMATED TOTAL	6,609.87

AUTHORIZATION [Signature] 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.