

API # 15-193-21037-00-00

Operator: Elk Energy Holdings LLC.

Well Name & No: Lippelmann 4-14

Location: 950' FNL 335' FWL Sec14 10s 33w

County: Thomas

State: Kansas

Rig No.: 10 Contractor: WW Drilling LLC

Tool Pusher: Ricky Hilgers

Drill Collars: 14

Rig Phone: 785-743-8492

Make Pump: K-380

Liner & Stroke: 14 X 16"

Spud 2/2/2019. 4:00 PM

Approx. TD: 4,700'

Elevation: 3,148'

KB 3,153'

Hole

Complete 2/8/2019. 4:15 PM

Mud Co.: Andy's Mud

Mud Engineer: Arron Blew

Water Hoxie Tank Service

Date	02/02/19	02/03/19	02/04/19	02/05/19	02/06/19	02/07/19	02/08/19	02/09/19	02/10/19	
Days	1-Spud	2-Woc	3-Drlg	4-Drlg	5-Drlg	6-Drlg	7-Drlg	8-Logging	9-Done	
Depth		345'	2210'	3225'	3804'	4234'	4567'	4700'	4700'	
Ft. Cut		345'	1865'	1015'	579'	430'	333'	133'	0	
Drill Time	3.75	0	20.25	22.5	22.5	20.75	23.25	9	0	
Down Time		0	0	0	0	0	0	0	0	
Comp. Time		6-Woc	3-Jetting	.75-Jetting	.75-Jetting	2.75-ST	.25-Jet	19.75	19.75	
Bit Wt.		10,000	25,000	38,000	38,000	38,000	38,000	38,000	0	
RPM		100	90	85	85	85	85	85	0	
Pressure		400	750	850	775	800	900	900	0	
SPM		60	60	60	60	60	60	60	0	
Mud Cost		Na	\$1,968	\$1,968	\$10,396	\$10,445	\$10,445	\$11,958	\$11,958	
Mud Wt.		8.6	9.2	9.6	8.8	9.2	9.3	9.3	0	
Viscosity		28	28	28	58	51	53	58	0	
Water Loss		Na	Na	Na	7.2	7.2	7.6	7.6	0	
Chlorides		Na	500	500	2000	3000	3000	2500	0	
L.C.M.		Na	Na	Na	2#	2#	2#	2#	0	
Dev. Sur		.25* 245'	Na	Na	Na	Na	Na	.75* 4700'	0	
Dev. Sur		-	Na	Na	Na	Na	Na	Na	0	
Fuel		2,015	1,589	1,176	3798	3135	2620	2259	2015	
Water-Pit		1/2	1/4	1/2	3/4	3/4	3/4	1/2	0	
ACC Bit Hrs.		3.75	20.25	42.75	65.25	86	109.25	118.25	0	
Formation		sd-sh	sd-sh	sh-lm	sh-lm	sh-lm	sh-lm	sh-lm	0	
Weather		P/C	Foggy	Cloudy	Cloudy	Cloudy	Clear	Clear	0	
Safety Topic		Cementing	Conn	Jetting	Chem Mud	Weather	Teamwork	Wire Line	0	
No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops	
1	12 1/4	Stc Tooth	345'	345'	3.75	3.75	RR	RH-7560	3-15's	
2	7 7/8	Stc-F27	4700'	4357'	118.25	122	New	RJ-9442	3-15's	
3										
4										
DEPTH	SIZE	SACKS	CEMENT MATERIAL			Plug Down	Drilled Out	REMARKS		
Set @ 345'	8 5/8	280	Common, 3% cc, 2% gel			1:00 AM		Qes Did Circ		
Set @ 4693	5 1/2"	450	1 stage 175 sks 10% salt 5% gilsor							
			hd Stage 450 sks 80/20 qmdc 1/4 f			10:45 PM	2/9/2019	Quality Did Circ		
NO	INTERVAL		OPEN	SHUT	OPEN	SHUT	RECOVERY			
1										
2										
3										
4							420 sks down hole			
5							30 sks in rat hole			

SURFACE CASING FURNISHED BY: Sunrise, Hauled By WW 8 jnts of 8 5/8 23# J55 Tally 338.08 Set 345'

Surface Pipe Strapped & Welded By: Mark H WW Drilling. Anhydrite 2654'-2690'. Dis.Complete @ 3491' with 720 BBL in .25 Hr., Short Trip@3987', 30 Stands in 2 Hrs. Short trip @ 4700 RTD 20 stands 2.75 hrs. trip time, Loggers hit bridge @ 2278 trip back in to condition hole, LTD 4702' Logged by Pioneer wire line. Ran 3 hrs. log time Td @ 5:15 am 2/9/19. 116 jnts of 5 1/2 tally 4696' set 4693' Dv Tool set @ 2660' Set slips @ 10:15 pm, Rig Released @ 2:45 am 2/10/19. Teeter Delivered Csg out.