

API # 15-193-21038-00-00

Operator: ELK Energy Holding LLC Well Name & No: Lippelmann #5-15  
 Location: 1630 FNL & 990' FWL Section 14-10s-33w County: Thomas State: Kansas  
 Rig No.: 8 Contractor: WW Drilling LLC Tool Pusher: Scott Piland 620-639-1843  
 Drill Collars: 16 2.25" x 6.25" x 31' Rig Phone: 785-259-0816  
 Make Pump: K-380 Liner & Stroke: 6" x 14" Spud 3/5/2019 @ 7:15 PM  
 Approx. TD: 4700' Elevation: 3144' KB 3149' Hole Complete 3/11/2019 @ 2:30 PM  
 Mud Co.: Andy's Mud Engineer: Aron Blue Water Hoxie Tank Hauling

Date	03/05/19	03/06/19	03/07/19	03/08/19	03/09/19	03/10/19	03/11/19	03/12/19	03/13/19	
Days	1-Spud	2-WOC	3-Drlg	4-Drlg	5-Short trip	6-Drlg	7-Drlg	8-Run Csg	9-Done	
Depth		345'	1810'	3175'	3808'	4242'	4590'	4700'	4700'	
Ft. Cut		345'	1465'	1365'	633'	434'	348'	110'		
Drill Time		4.75	17.5	22.25	20.75	19.75	23.25	7.25		
Down Time		0	.25-Pump	0	0	0	0	0		
Comp. Time		WOC-7	5.75	1	2.5	2.75	0	16.5	13.5	
Bit Wt.		15,000	25,000	35,000	38,000	38,000	38,000	38,000		
RPM		120	100	85	85	85	85	85		
Pressure		400	625	750	700	725	775	800		
SPM		60	60	60	60	60	60	60		
Mud Cost		NA	\$2,417	\$2,417	\$8,175	\$9,723	\$10,673	\$10,380	\$10,380	
Mud Wt.		8.6	8.9	9.4	8.9	9.1	9.4	9.5		
Viscosity		26	26	26	49	57	54	54		
Water Loss		NC	NC	NC	NC	7.6	8	8		
Chlorides		NA	NA	NA	NA	4000	4000	4500		
L.C.M.		0	TRC	0	2#	2#	1#	1#		
Dev. Sur		.5°	NA	NA	NA	NA	NA	NA		
Dev. Sur		345'	NA	NA	NA	NA	NA	NA		
Fuel		4200	3900	3500	3200	2850	2250	1900	1800	
Water-Pit		1/4	1/4	1/8	Full	Full	Full	1/2	1/4	
ACC Bit Hrs.		4.75	17.5	39.75	60.5	80.25	103.5	110.75		
Formation		sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm	sh-lm		
Weather		Clear	Cloudy	Cloudy	Cloudy	P/C	P/C	Cloudy	Rain	
Safety Topic		Run Csg	Rack Pipe	Connections	Tripping	Propane	Rotary Table	LDDP	Tear down	
No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops	
1	12 1/4"	Tooth	345'	345'	4.75	4.75		RH6830		
2	7 7/8"	SM-F27	4700'	4355'	110.75	115.5		RJ9055		
3										
4										ROP - 40.69'
DEPTH	SIZE	SACKS	CEMENT MATERIAL			Plug Down	Drilled Out	REMARKS		
345'	8 5/8"	240	Surface Blend, 3% cc, 2% gel			3:30 AM		Qes cementing did circulate		
4694'	5 1/2"	495	175 sx OWC 320 sx Multi Densit			4:30 PM		Qes cementing did circulate		
128 jts								#55991		
NO	INTERVAL		OPEN	SHUT	OPEN	SHUT	RECOVERY			
1										
2										
3										
4										
5										
6										
7										
8										

**SURFACE CASING FURNISHED BY:** Sunrise & WW Hauled. Ran 8 jts of 8 5/8" tally 338' set @ 345'

**Surface Pipe Strapped & Welded By: WW Joe. Lost circ @ 1539' (60 BBLs) 1 hr. Anhydrite @ 2656'-2694'. Displaced @ 3492' (700 BBLs). Short trip @ 3808' (52 stands) 2.75 hrs. Short trip @ 4700' (18 stands) 2 hrs. Logged by Pioneer (LTD 4698') 3.5 hrs. Ran 128 jts of 5 1/2" set @ 4694' w/DV tool @ 2657'. Cemented by QES w/495 sx downhole & 30 sx in the rathole. Plug down @ 4:30 pm, 3/12/2019. Released rig @ 8:30 pm, 3/12/2019.**