



PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 05 2018

RECEIVED

December 18, 2017

Mack Energy Corporation
PO Box 960
Artesia, NM 88211-0960

RE: Rudolph Fed #2H
940' FSL & 330' FWL
Sec. 21, T16S, R28E
Eddy County, New Mexico
30-015-44499

Dear Sir,

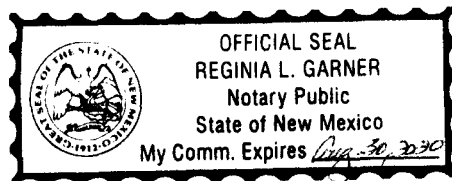
The attached is the Deviation Survey for the above captioned well.

Very truly yours,

Chris Graham
Asst. Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 18th day of December, 2017.

Notary Public

Rudolph Federal #2H

Date	Depth	Deviation	Direction	TVD	Horiz Disp
12/1/2017	132	1.00	73.50		
12/2/2017	254	0.90			
12/2/2017	344	0.50			
12/2/2017	431	0.30			
12/2/2017	490	0.30			
12/4/2017	513	0.30	288.50		
12/4/2017	656	0.40	275.40		
12/4/2017	945	0.90	310.80		
12/4/2017	1034	0.90	184.30		
12/4/2017	1599	0.60	27.20		
12/4/2017	1789	0.60	24.80		
12/4/2017	1978	0.60	315.00		
12/5/2017	2166	0.50	331.30		
12/5/2017	2355	0.40	274.40		
12/5/2017	2736	0.60	238.20		
12/5/2017	2919	0.60	79.80		
12/5/2017	3177	0.70	127.80		
12/8/2017	886	1.00	315.90		
12/8/2017	895	0.90	309.60		
12/8/2017	933	1.00	310.50		
12/8/2017	981	0.80	283.00		
12/8/2017	1000	0.90	230.40		
12/8/2017	1034	1.80	173.90		
12/8/2017	1081	2.30	159.50		
12/8/2017	1135	2.20	156.50		
12/9/2017	1258	1.60	156.70	1258.00	
12/9/2017	1327	1.60	137.90	1326.00	
12/9/2017	1421	3.00	122.80	1474.00	
12/9/2017	1468	8.80	100.70	1467.00	
12/9/2017	1609	26.00	95.80	1601.00	
12/9/2017	1645	31.40	75.40	1633.00	
12/9/2017	1798	47.60	92.20	1747.00	
12/9/2017	1860	53.20	93.00		
12/9/2017	1887	97.10	57.10		
12/9/2017	1903	38.30	91.90	1688.00	
12/9/2017	1919	68.10	90.20		
12/10/2017	1964	67.80	88.70	1840.00	304.90
12/10/2017	1998	71.90	88.10	1852.00	336.80
12/10/2017	2031	76.00	87.40	1861.00	358.40
12/10/2017	2064	79.80	87.40	1868.00	400.70
12/10/2017	2187	87.50	88.20	1880.00	
12/10/2017	2281	90.60	87.30	1881.00	
12/10/2017	2385	92.00	86.80		

Date	Depth	Deviation	Direction	TVD	Horiz Disp
12/10/2017	2469	90.40	90.30	1877.00	
12/10/2017	2563	89.80	89.20	1877.00	
12/11/2017	2743	88.70	87.20	1878.00	1078.00
12/11/2017	2872	88.30	86.20	1881.00	1207.00
12/11/2017	2967	87.60	87.70	1884.00	1302.00
12/11/2017	3061	87.90	87.30	1888.00	1396.00
12/11/2017	3155	89.10	88.80	1890.00	1490.00
12/11/2017	3250	88.80	87.10	1892.00	1585.10
12/11/2017	3344	87.70	89.40	1895.00	1679.00
12/11/2017	3438	89.00	88.80	1898.20	1773.00
12/13/2017	3469	89.30	88.60	1898.00	18033.00
12/13/2017	3530	90.30	88.60	1898.00	1864.00
12/13/2017	3530	90.30	88.60	1898.00	1864.00
12/13/2017	3719	90.60	90.30	1895.00	2053.00
12/13/2017	3815	88.70	91.20	1893.90	
12/13/2017	3911	87.80	91.20	1898.90	2045.80