



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

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 18 2018

RECEIVED

November 29, 2017

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

RE: White Rock Federal 1H
140' FNL & 555' FWL
Sec. 28, T15S, R29E
Chaves County, New Mexico
30-005 - 64300

Dear Sir,

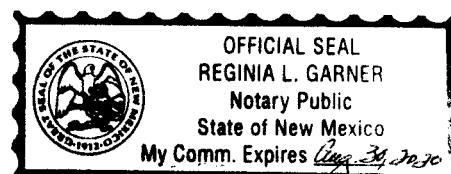
The attached is the Deviation Survey for the above captioned well.

Very truly yours,

Chris Graham
Asst. Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 29th day of November, 2017.

Notary Public

White Rock Federal 1H

Tour Sheet Date	Depth	Deviation	Direction	TVD	Horiz Disp
11/6/2017	80	0.20			
11/6/2017	172	2.30			
11/11/2017	310	2.90	187.90		
11/11/2017	359	2.00	217.10		
11/11/2017	379	1.20	131.30		
11/11/2017	488	1.10	129.70		
11/12/2017	947	0.10	226.50		
11/12/2017	1042	0.30	56.40		
11/12/2017	1418	0.40	38.40		
11/12/2017	1513	0.50	35.60		
11/12/2017	1607	0.60	31.40		
11/12/2017	2100	0.60	57.60		
11/12/2017	2288	0.50	21.60		
11/12/2017	2383	0.40	8.50		
11/12/2017	2481	0.40	8.30		
11/13/2017	2734	0.50	346.60		
11/13/2017	2922	2.40	348.50		
11/13/2017	3016	0.90	309.60		
11/13/2017	3205	1.10	318.40		
11/13/2017	3291	1.00	310.80		
11/13/2017	3487	1.00	317.70		
11/13/2017	3546	1.10	308.30		
11/16/2017	2776	1.30	354.10	2775.00	4.44
11/16/2017	2807	3.20	352.20	2807.00	3.23
11/16/2017	2835	5.80	357.00	2834.00	1.04
11/16/2017	2869	10.20	358.10	2868.00	3.68
11/16/2017	2976	25.20	1.40		
11/16/2017	3024	31.31	0.40		
11/16/2017	3119	42.70	359.00	3088.00	
11/16/2017	3166	47.70	359.30		
11/16/2017	3171	36.90	359.90	3081.00	
11/16/2017	3213	53.00	359.40	3151.00	
11/16/2017	3307	64.50	358.00	3199.71	
11/16/2017	3354	70.30	355.80	3218.00	
11/16/2017	3402	76.00	354.10	3251.00	
11/16/2017	3449	82.20	355.10	3240.56	
11/16/2017	3496	87.10	355.80	3244.90	
11/16/2017	3591	90.90	358.60		
11/16/2017	3684	90.60	359.50		
11/16/2017	3778	90.70	359.00		
11/16/2017	3873	91.30	368.10		
11/16/2017	3967	91.40	359.10		
11/17/2017	4061	90.70	357.30	3238.00	1012.00

Tour Sheet Date	Depth	Deviation	Direction	TVD	Horiz Disp
11/17/2017	4156	90.60	355.40	3237.00	1106.00
11/17/2017	4250	90.20	354.90	3256.98	1200.90
11/17/2017	4344	89.70	355.80	2324.00	
11/17/2017	4533	89.80	356.30	3239.00	
11/17/2017	4627	89.50	356.30	3239.70	
11/17/2017	4721	90.50	357.60	3239.70	
11/17/2017	4870	92.10	358.60	3231.55	
11/17/2017	4910	91.50	358.80	3234.59	
11/18/2017	5005	90.50	358.70	3239.93	1955.55
11/18/2017	5100	90.50	357.90	3232.10	2050.50
11/18/2017	5194	89.90	358.00	3231.70	2144.50
11/18/2017	5574	90.50	357.00	32829.50	2524.50
11/18/2017	5667	90.90	357.40	3227.80	2535.50
11/18/2017	5854	89.60	357.30		
11/18/2017	5945	90.00	356.90		
11/18/2017	6039	90.70	356.20		
11/18/2017	6132	91.40	355.90		
11/18/2017	6226	91.10	356.10		
11/20/2017	6346	90.60	356.60	3221.30	3297.30
11/20/2017	6441	90.80	357.30	3220.10	3391.30
11/20/2017	6534	90.50	357.50	3217.10	3484.30
11/20/2017	6626	90.20	358.20		
11/21/2017	6720	92.20	357.80	3216.50	3670.20
11/21/2017	6813	93.80	357.60	3211.72	3763.14
11/22/2017	6907	93.20	357.70	3205.99	
11/22/2017	7002	92.10	357.40	3201.59	
11/22/2017	7096	93.40	357.50	3197.70	
11/22/2017	7191	91.20	357.20	3193.27	
11/22/2017	7284	91.50	357.00	3191.00	
11/22/2017	7379	92.00	356.90	3188.17	
11/22/2017	7473	90.80	356.30	3185.08	
11/23/2017	7567	91.30	756.90	3189.16	
11/23/2017	7660	90.60	356.50	3182.62	
11/23/2017	7754	90.70	357.55	3181.54	
11/23/2017	7847	90.80	357.30	3180.33	
11/23/2017	7941	91.20	357.30	3178.69	
11/23/2017	8034	91.00	357.30	3179.91	