



HOBBSOCD

DEC 26 2014

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

September 15, 2014

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

RE: Wolf Federal #1
2310' FNL & 1650' FWL
Sec. 3, T18S, R32E
Lea County, New Mexico

Dear Sir,

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

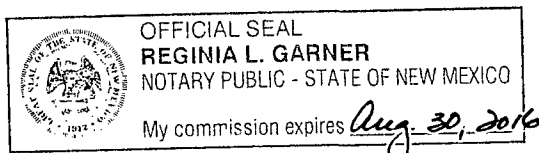
Very truly yours,

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 15th day of September, 2014.

Notary Public



JAN 26 2015

WOLF FEDERAL #1

Date	Depth	Deviation	Direction
8/24/2014	161	1.40	0.00
8/24/2014	327	0.90	0.00
8/24/2014	510	0.70	0.00
8/24/2014	690	1.40	0.00
8/25/2014	916	1.70	0.00
8/25/2014	1104	1.30	0.00
8/25/2014	1210	1.60	0.00
8/27/2014	1353	1.40	248.50
8/27/2014	1602	2.70	240.70
8/27/2014	1673	3.80	0.00
8/28/2014	1860	2.30	157.40
8/28/2014	2109	1.40	98.10
8/29/2014	2603	1.60	0.00
8/29/2014	2652	1.50	45.80
8/31/2014	2765	1.60	52.90
8/31/2014	3017	1.10	1.50
8/31/2014	3267	0.80	14.50
8/31/2014	3517	1.00	11.00
8/31/2014	3768	1.40	358.20
8/31/2014	4018	1.20	0.40
8/31/2014	4268	1.40	325.80
8/31/2014	4519	1.10	319.20
9/1/2014	4769	1.10	341.00
9/1/2014	5019	1.00	328.10
9/1/2014	5269	1.50	303.40
9/1/2014	5520	1.30	328.20
9/1/2014	5771	1.90	287.50
9/1/2014	6021	0.70	121.50
9/1/2014	6271	0.50	110.30
9/2/2014	6771	2.60	305.60
9/2/2014	7022	2.10	293.30
9/2/2014	7265	1.90	316.80
9/3/2014	7515	0.20	339.80
9/3/2014	7765	0.40	298.80
9/4/2014	8016	1.80	322.10
9/7/2014	8298	1.30	152.20
9/8/2014	8578	0.80	276.50
9/8/2014	8775	2.60	0.00
9/9/2014	8860	0.40	311.20
9/10/2014	9223	1.70	0.00