



30-025-42032

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

HOBBSOCD
JUL 01 2015
RECEIVED

December 29, 2014

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

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

Dear Sir,

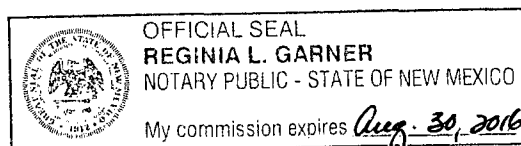
The attached is the Deviation Survey for the above captioned well.

Very truly yours,

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 29th day of December, 2014.

Notary Public

JUL 13 2015

RINGTAIL FED #1

Date	Depth	Deviation	Direction
12/6/2014	235	1.00	0.00
12/7/2014	448	0.40	0.00
12/7/2014	660	0.30	0.00
12/7/2014	877	0.10	0.00
12/7/2014	1034	0.70	0.00
12/7/2014	1253	0.10	0.00
12/8/2014	1337	0.20	0.00
12/10/2014	1483	0.40	12.40
12/11/2014	1822	2.10	56.70
12/11/2014	2135	1.40	88.40
12/11/2014	2448	1.60	83.10
12/12/2014	2778	1.90	115.10
12/14/2014	3106	1.20	94.70
12/14/2014	3419	1.10	88.70
12/14/2014	3731	1.10	86.60
12/14/2014	4043	1.10	100.00
12/14/2014	4356	0.90	92.60
12/14/2014	4669	0.50	109.80
12/15/2014	4980	0.40	71.90
12/15/2014	5292	0.70	160.00
12/15/2014	5606	1.20	319.00
12/15/2014	5918	1.20	322.20
12/15/2014	6231	0.90	324.60
12/16/2014	6543	1.10	337.30
12/16/2014	6856	1.20	355.60
12/16/2014	7169	1.10	357.70
12/17/2014	7481	0.40	354.50
12/18/2014	7793	1.10	1387.00
12/20/2014	8139	0.20	327.80
12/20/2014	8399	0.90	294.40
12/21/2014	8733	1.10	47.60
12/21/2014	9047	1.10	39.20
12/22/2014	9388	1.90	3.00