



HOBBS OCD

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

FEB 15 2013

RECEIVED

July 9, 2012

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

30-025-40180

RE: Rangers Federal #1
990' FNL & 990' FWL
Sec. 1, T18S, R32E
Lea County, New Mexico

Dear Sir,

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

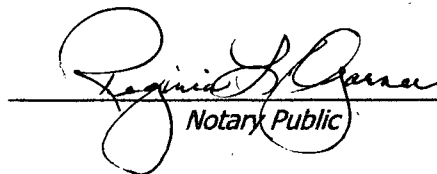
Very truly yours,

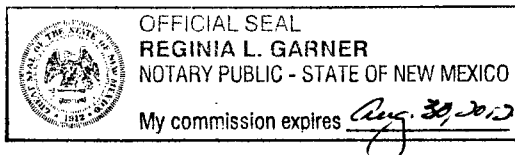

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 9th day of July, 2012.

SCANNED


Notary Public



MAR 05 2013

Pason DataHub Deviation Survey
Well Dossier 1339791542 - Ranger Fed #1

# Date	Depth	Deviation	Direction
6/17/2012	109	0.00	0.00
6/17/2012	564	0.40	0.00
6/17/2012	840	0.30	0.00
6/17/2012	1322	0.30	0.00
6/19/2012	1419	0.60	333.30
6/19/2012	1513	0.70	335.20
6/19/2012	1607	0.50	322.00
6/19/2012	1796	0.40	24.00
6/20/2012	2017	0.70	25.80
6/20/2012	2238	0.70	42.60
6/20/2012	2428	1.20	65.10
6/20/2012	2522	1.00	50.70
6/20/2012	2616	1.10	62.70
6/20/2012	2711	1.10	69.60
6/20/2012	2806	0.50	333.20
6/20/2012	2996	0.30	327.50
6/20/2012	3184	0.30	319.10
6/20/2012	3373	0.30	263.70
6/20/2012	3562	0.40	284.90
6/21/2012	3750	0.40	321.00
6/21/2012	3938	0.00	63.10
6/21/2012	4127	0.40	127.20
6/21/2012	4316	0.30	125.50
6/21/2012	4505	0.60	87.10
6/21/2012	4695	0.60	97.90
6/21/2012	4884	0.60	85.90
6/21/2012	5074	0.60	80.40
6/22/2012	5264	0.70	42.50
6/22/2012	5454	0.50	19.30
6/22/2012	5643	0.30	285.00
6/22/2012	5831	0.80	351.20
6/23/2012	6174	1.40	0.00
6/23/2012	6583	1.00	0.00
6/25/2012	6898	2.00	0.00
6/25/2012	7109	2.90	0.00
6/26/2012	7092	2.70	348.50
6/26/2012	7155	2.30	336.00
6/26/2012	7250	0.40	235.00
6/26/2012	7344	0.60	207.00
6/27/2012	7533	2.00	127.60
6/27/2012	7628	0.80	121.00
6/27/2012	7723	1.50	125.40
6/27/2012	7818	0.30	152.30
6/28/2012	7912	0.30	3.70
6/28/2012	8006	0.40	134.60
6/28/2012	8088	0.70	92.30
6/29/2012	8504	2.90	0.00
7/1/2012	8913	3.00	0.00
7/2/2012	9285	3.20	0.00

EOF

SCANNED