

COTTONMOUTH 24 FEDERAL COM #1H

30-015-38507

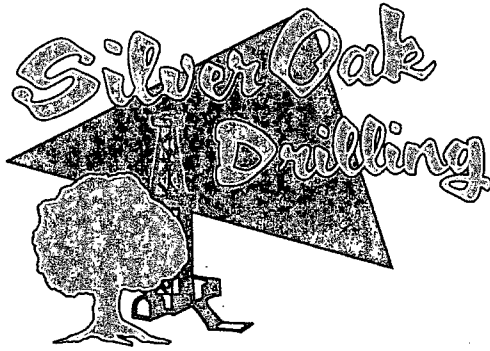
Sec 24-T26S-R28E

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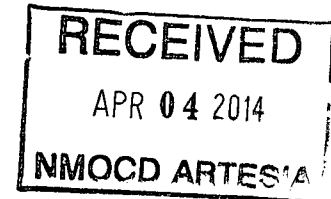
APR 04 2014

NMOCD ARTES

<u>Perfs</u>	<u>15% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
10584-10964'	3024	281890	231462
10078-10458'	6132	283489	243894
9572-9951'	5964	282237	236586
9065-9445'	6006	283159	237888
8549-8939'	6006	283878	229404
8053-8433'	6006	280422	235284
7547-7926'	5964	293442	323316
7040-7420'	6174	280322	233016
6534-6914'	6048	303380	243012
Totals	51324	2572219	2213862



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



January 13, 2014

COG, LLC
One Concho Center
600 W. Illinois Ave.
Midland, TX 79701

RE: Cottonmouth 24 Federal Com #1H
105' FSL & 745' FWL
Sec. 24, T26S, R28E
Eddy County, New Mexico

Dear Sir,

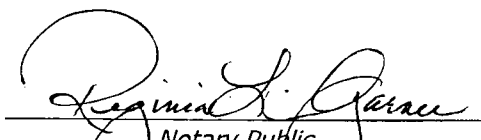
The attached is the Deviation Survey for the above captioned well.

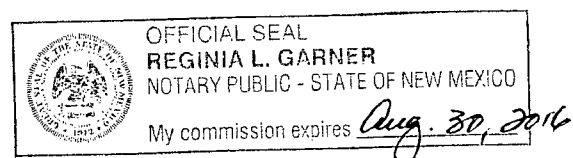
Very truly yours,


Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 13th day of January, 2014.


Regina L. Garner
Notary Public



Cottonmouth 24 Fed Com #1H

Date	Depth	Deviation	Dir	TVD	Horiz Disp
12/12/2013	399	0.20	0.00	0.00	0.00
12/15/2013	499	10.50	0.00	0.00	0.00
12/15/2013	560	10.50	0.00	0.00	0.00
12/15/2013	650	9.50	0.00	0.00	0.00
12/15/2013	743	6.00	0.00	0.00	0.00
12/15/2013	772	8.61	203.20	0.00	0.00
12/16/2013	843	7.91	203.51	0.00	0.00
12/16/2013	995	7.12	206.01	0.00	0.00
12/16/2013	1056	6.20	207.90	0.00	0.00
12/16/2013	1118	6.02	207.29	0.00	0.00
12/16/2013	1240	5.58	208.47	0.00	0.00
12/16/2013	1301	4.79	212.78	0.00	0.00
12/16/2013	1363	3.91	215.81	0.00	0.00
12/16/2013	1424	3.30	222.27	0.00	0.00
12/16/2013	1546	2.42	235.41	0.00	0.00
12/17/2013	1607	2.20	228.20	0.00	0.00
12/17/2013	1791	1.80	247.98	0.00	0.00
12/17/2013	1944	1.40	251.89	0.00	0.00
12/17/2013	2066	0.48	143.30	0.00	0.00
12/17/2013	2318	1.89	121.28	0.00	0.00
12/17/2013	2444	1.89	107.97	0.00	0.00
12/17/2013	2507	1.58	98.08	0.00	0.00
12/17/2013	2522	2.02	93.77	0.00	0.00
12/19/2013	2616	1.30	0.00	0.00	0.00
12/19/2013	2804	1.10	0.00	0.00	0.00
12/19/2013	2993	0.50	0.00	0.00	0.00
12/19/2013	3277	0.80	0.00	0.00	0.00
12/20/2013	4016	0.40	0.00	0.00	0.00
12/20/2013	4456	0.30	0.00	0.00	0.00
12/20/2013	4897	1.10	0.00	0.00	0.00
12/20/2013	5183	0.80	0.00	0.00	0.00
12/21/2013	5466	1.40	0.00	0.00	0.00
12/21/2013	5718	1.00	0.00	0.00	0.00
12/21/2013	6021	0.70	0.00	0.00	0.00
12/25/2013	6470	1.90	0.00	0.00	0.00
12/25/2013	6596	1.40	0.00	0.00	0.00
12/25/2013	6786	1.70	0.00	0.00	0.00
12/25/2013	6912	2.10	0.00	0.00	0.00
12/25/2013	7070	1.70	0.00	0.00	0.00
12/26/2013	7229	1.80	0.00	0.00	0.00
12/26/2013	7387	1.70	0.00	0.00	0.00
12/26/2013	7638	2.00	0.00	0.00	0.00
12/26/2013	7795	2.30	0.00	0.00	0.00

Date	Depth	Deviation	Dir	TVD	Horiz Disp
12/26/2013	7952	1.40	0.00	0.00	0.00
12/26/2013	8108	0.70	0.00	0.00	0.00
12/27/2013	8549	0.90	0.00	0.00	0.00
12/27/2013	8990	1.90	0.00	0.00	0.00
12/27/2013	9241	1.50	0.00	0.00	0.00
12/27/2013	9553	2.10	0.00	0.00	0.00
1/2/2014	5716	0.90	208.50	5704.40	167.50
1/2/2014	5779	4.30	39.90	5767.60	167.48
1/2/2014	5842	13.80	31.70	5829.80	158.36
1/2/2014	5904	24.20	28.50	5888.30	140.90
1/2/2014	5936	29.10	26.60	5940.90	128.18
1/3/2014	5999	38.50	21.30	5969.24	96.11
1/3/2014	6062	43.80	19.70	6016.15	57.19
1/3/2014	6125	46.40	20.40	6061.19	15.50
1/3/2014	6220	52.70	16.20	6122.60	53.06
1/3/2014	6376	64.40	11.60	6205.30	181.60
1/3/2014	6439	69.80	10.00	6230.00	242.07
1/3/2014	6502	73.10	5.30	6249.00	297.75
1/3/2014	6628	83.40	0.70	6276.65	420.53
1/3/2014	6754	90.70	356.70	6280.88	546.30
1/4/2014	6847	90.80	355.60	6279.67	639.09
1/4/2014	6942	90.10	358.10	6278.92	733.95
1/4/2014	7036	91.30	357.70	6277.78	827.88
1/4/2014	7130	91.60	359.00	6275.00	921.00
1/4/2014	7320	89.30	359.90	6273.00	1111.00
1/4/2014	7414	90.00	359.30	6274.00	1205.00
1/4/2014	7508	90.80	359.00	6273.57	1299.97
1/4/2014	7697	90.40	359.90	6273.74	1488.76
1/4/2014	7886	90.70	0.00	6270.69	1677.73
1/5/2014	7981	88.80	359.70	6271.00	1772.00
1/5/2014	8075	89.00	359.30	6272.00	1866.00
1/5/2014	8170	88.20	358.80	6275.00	1961.00
1/5/2014	8359	92.20	0.00	6275.00	2150.00
1/5/2014	8454	91.50	0.20	6272.00	2245.00
1/5/2014	8548	92.90	0.20	6268.00	2339.00
1/5/2014	8643	90.60	0.90	6265.83	2434.34
1/5/2014	8739	89.50	0.70	6265.75	2530.43
1/5/2014	8927	90.10	0.90	6266.08	2718.40
1/6/2014	9021	90.90	0.20	6265.26	2812.39
1/6/2014	9116	89.40	0.20	6265.00	2907.00
1/6/2014	9305	90.50	359.00	6265.00	3096.00
1/6/2014	9399	90.00	359.50	6264.00	3190.00
1/7/2014	9490	90.10	359.00	6264.00	3281.00
1/7/2014	9584	90.90	359.10	6263.00	3375.00
1/7/2014	9679	89.40	359.10	6263.00	3470.00

Date	Depth	Deviation	Dir	TVD	Horiz Disp
1/7/2014	9868	90.20	359.70	6264.00	3659.00
1/7/2014	10059	89.20	359.70	6263.00	3850.00
1/7/2014	10154	90.00	0.00	6264.00	3945.00
1/7/2014	10248	90.70	0.20	6263.78	4039.31
1/7/2014	10342	91.40	0.20	6262.06	4133.29
1/8/2014	10625	90.10	359.30	6261.00	4416.00
1/8/2014	10720	90.70	359.10	6261.00	4511.00
1/8/2014	10814	91.30	359.10	6259.00	4605.00
1/8/2014	10971	90.60	359.50	6257.00	4762.00