



PO Box 1370
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NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 01 2017

RECEIVED

May 31, 2017

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

RE: Burch Keely Unit 946H
487' FNL & 342' FEL
Sec. 23, T17S, R29E
Eddy County, New Mexico

30-015-44100

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 31st day of May, 2017.

Notary Public

Burch Keely Unit 946H

Date	Depth	Deviation	Direction
5/16/2017	85	0.50	
5/16/2017	208	0.70	
5/16/2017	323	0.70	
5/17/2017	555	0.80	
5/17/2017	1016	1.10	
5/18/2017	1064	0.93	45.16
5/19/2017	1158	2.37	36.20
5/19/2017	1253	4.28	45.68
5/19/2017	1347	6.86	52.51
5/19/2017	1442	6.98	50.95
5/19/2017	1537	6.94	54.40
5/19/2017	1632	7.59	66.15
5/19/2017	1916	7.45	73.61
5/19/2017	2011	7.21	74.71
5/19/2017	2106	6.25	72.75
5/19/2017	2201	7.06	70.87
5/19/2017	2295	8.90	67.95
5/19/2017	2389	9.29	66.23
5/19/2017	2484	9.31	71.14
5/19/2017	2578	9.18	73.75
5/20/2017	2768	9.52	76.35
5/20/2017	2863	7.75	82.87
5/20/2017	2958	6.60	75.96
5/20/2017	3052	6.41	75.01
5/20/2017	3147	6.07	77.52
5/20/2017	3241	6.14	58.28
5/20/2017	3713	6.43	68.76
5/20/2017	3807	5.28	77.01
5/20/2017	3902	2.99	92.25
5/20/2017	3996	2.59	90.01
5/20/2017	4091	1.52	78.55
5/20/2017	4186	0.38	339.44
5/20/2017	4280	0.46	305.71
5/20/2017	4312	1.36	252.55
5/20/2017	4344	3.83	245.02
5/20/2017	4375	7.11	246.78
5/20/2017	4407	10.84	253.52
5/20/2017	4438	14.78	260.82
5/20/2017	4470	18.70	263.13
5/20/2017	4501	23.23	261.96
5/21/2017	4532	27.09	261.14
5/21/2017	4564	30.78	260.69

Date	Depth	Deviation	Direction
5/21/2017	4596	33.15	261.59
5/21/2017	4627	35.93	263.45
5/21/2017	4659	38.85	265.95
5/21/2017	4690	43.15	267.33
5/21/2017	5100	62.87	272.19
5/21/2017	5132	66.13	271.74
5/21/2017	5163	69.51	270.33
5/21/2017	5194	73.61	269.20
5/21/2017	5226	77.92	268.62
5/21/2017	5257	82.06	266.44
5/21/2017	5289	85.28	269.08
5/21/2017	5320	88.27	270.86
5/21/2017	5352	89.52	272.45
5/22/2017	5421	90.84	273.08
5/22/2017	5516	90.33	273.04
5/22/2017	5611	90.02	271.27
5/22/2017	5705	89.67	269.09
5/22/2017	5895	91.23	269.54
5/22/2017	5990	90.98	269.65
5/22/2017	6085	89.64	269.95
5/22/2017	6179	91.48	269.31
5/22/2017	6274	91.09	269.52
5/22/2017	6368	91.01	267.97
5/22/2017	6463	90.46	270.73
5/22/2017	6558	89.82	270.27
5/23/2017	6653	91.39	269.51
5/23/2017	6747	89.64	269.31
5/23/2017	6842	90.35	269.32
5/23/2017	6937	90.46	269.15
5/23/2017	7186	91.77	209.18
5/23/2017	7221	92.37	271.10
5/23/2017	7316	92.29	271.10
5/23/2017	7411	91.23	270.91
5/23/2017	7505	90.76	270.69
5/23/2017	7600	90.63	270.85
5/23/2017	7695	91.56	271.37
5/23/2017	7789	90.81	271.02
5/24/2017	7884	90.73	271.48
5/24/2017	7979	90.59	271.62
5/24/2017	8073	90.41	269.52
5/24/2017	8168	90.07	269.32
5/24/2017	8263	90.50	269.70
5/24/2017	8358	92.01	270.31
5/24/2017	8642	91.41	270.17
5/24/2017	8736	91.13	270.50

Date	Depth	Deviation	Direction
5/24/2017	8831	91.46	270.93
5/24/2017	8925	90.76	270.73
5/24/2017	9020	90.57	270.09
5/24/2017	9115	90.19	296.19
5/25/2017	9209	89.95	268.92
5/25/2017	9304	89.57	269.96
5/25/2017	9398	89.88	269.84
5/25/2017	9586	90.78	270.11
5/25/2017	9681	88.76	269.16
5/25/2017	9825	89.31	269.10