



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

October 19, 2017

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

RE: Bone Yard 11 Fee 16H
2373' FSL & 2110' FWL
Sec. 2, T20S, R25E
Eddy County, New Mexico

30-015-43999

Dear Sir,

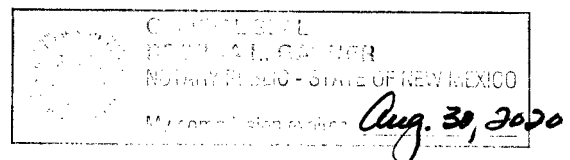
The attached is the Deviation Survey for the above captioned well.

Very truly yours,

Chris Graham
Asst. Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 19th day of October, 2017.

Notary Public

Bone Yard 11 Fee 16H

Depth	Deviation	Direction
143	0.46	359.00
174	0.84	359.20
264	1.38	255.50
352	2.03	2.08
443	3.08	3.93
531	4.57	3.36
619	6.19	3.45
708	7.96	3.50
796	8.68	1.26
894	7.66	357.40
988	6.70	351.84
1083	5.54	348.48
1178	4.30	348.12
1288	4.22	346.15
1320	4.22	347.88
1415	4.53	1.94
1509	4.81	5.00
1605	3.99	9.63
1794	1.83	356.79
1983	0.82	142.12
2173	1.10	167.93
2204	1.23	171.43
2236	2.14	174.37
2299	6.07	176.78
2330	8.53	176.23
2362	11.24	176.90
2393	14.04	176.05
2425	16.62	176.38
2457	19.61	176.48
2487	22.32	176.73
2518	25.82	177.45
2550	30.13	178.03
2581	34.58	178.73
2613	34.16	178.50
2644	43.04	177.69
2707	43.89	177.62
2770	45.79	178.66
2895	52.40	180.00
2991	62.19	179.73
3086	70.17	181.03
3158	76.93	182.34
3351	89.78	180.56
3415	90.47	180.88

Depth	Deviation	Direction
3510	89.64	180.84
3604	89.03	180.42
3699	88.72	181.34
3795	87.77	179.95
3889	88.29	180.35
3984	87.79	180.95
4080	88.21	179.99
4270	87.27	179.46
4365	88.71	177.14
4460	88.74	174.57
4555	87.80	172.28
4649	88.65	176.10
4745	90.08	169.10
4838	89.99	170.02
4933	89.24	170.71
5218	89.39	170.82
5314	88.64	171.63
5409	87.64	172.24
5504	86.88	173.70
5599	86.86	176.09
5694	86.88	178.16
5884	88.10	181.00
5979	88.00	182.00
6202	87.19	180.55
6296	87.25	181.87
6390	87.53	180.56
6485	83.43	179.95
6675	87.32	681.17
6769	87.05	180.91
7053	87.20	17.90
7243	87.50	181.00
7526	86.40	180.00
7905	89.36	179.23
8000	89.21	181.04
8095	88.86	180.03
8189	89.21	180.17
8284	88.94	181.62
8474	88.98	180.31
8568	88.85	181.04
8757	86.57	181.12
8851	86.39	180.22
8945	87.61	179.73
9478	89.39	181.29
9573	89.98	180.23
9762	89.45	181.87

Depth	Deviation	Direction
9857	89.76	180.55
9951	89.26	181.24
10141	89.30	181.00
10236	89.10	179.00