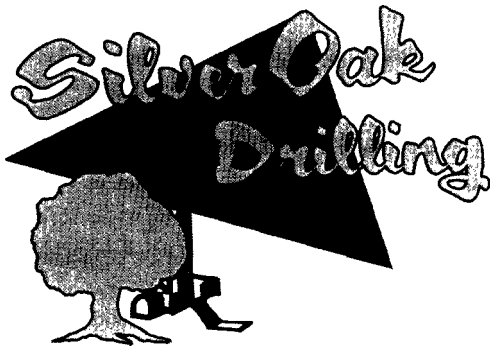




PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 19 2018

RECEIVED

October 4, 2017

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

RE: Carmen 3 Fed Com 91H
430' FNL & 170' FEL
Sec. 3, T17S, R30E
Eddy County, New Mexico

30-015-44271

Dear Sir,

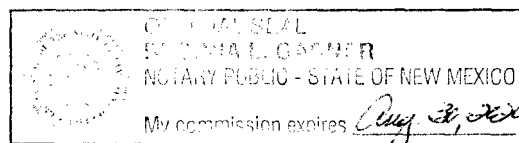
The attached is the Deviation Survey for the above captioned well.

Very truly yours,

Chris Graham
Asst. Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 4th day of October, 2017.

Notary Public

CARMEN 3 FED COM 91H

# MD(ftKB)	Incl(deg)	Azm(deg)	TVD(ftKB)	VS(ft)	NS(ft)	EW(ft)	DLS(deg/100ft)	SS(ft)	Status
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	OK
463.34	89.88	338.18	295.36	273.63	273.63	-109.55	19.40	-295.36	OK
1392.04	9.77	271.15	865.46	811.50	811.50	-422.05	9.27	-865.46	OK
1392.04	91.15	271.15	865.46	811.50	811.50	-422.05	0.00	-865.46	OK
1476.47	9.77	271.15	914.80	812.70	812.70	-481.82	96.39	-914.80	OK
1476.47	91.15	271.15	914.80	812.70	812.70	-481.82	0.00	-914.80	OK
2563.49	91.15	271.15	892.99	834.51	834.51	-1568.40	0.00	-892.99	OK
2563.49	9.77	271.15	892.99	834.51	834.51	-1568.40	0.00	-892.99	OK
2583.07	9.77	271.15	912.28	834.58	834.58	-1571.72	0.00	-912.28	OK
2583.07	91.15	271.15	912.28	834.58	834.58	-1571.72	0.00	-912.28	OK
2617.06	9.77	271.15	932.15	835.06	835.06	-1595.78	239.42	-932.15	OK
2617.06	91.15	271.15	932.15	835.06	835.06	-1595.78	0.00	-932.15	OK
3278.78	9.77	271.15	1318.88	844.46	844.46	-2064.16	12.30	-1318.88	OK
3278.78	91.15	271.15	1318.88	844.46	844.46	-2064.16	0.00	-1318.88	OK
3812.42	91.15	271.15	1308.17	855.17	855.17	-2597.59	0.00	-1308.17	OK
3812.42	9.77	271.15	1308.17	855.17	855.17	-2597.59	0.00	-1308.17	OK
4284.19	9.77	271.15	1773.10	856.78	856.78	-2677.63	0.00	-1773.10	OK
4284.19	91.15	271.15	1773.10	856.78	856.78	-2677.63	0.00	-1773.10	OK
4792.41	9.00	271.15	2072.04	863.94	863.94	-3034.77	16.16	-2072.04	OK
4792.41	91.15	271.15	2072.04	863.94	863.94	-3034.77	0.00	-2072.04	OK
5013.61	9.77	271.15	2201.32	867.09	867.09	-3191.34	36.79	-2201.32	OK
5013.61	91.15	271.15	2201.32	867.09	867.09	-3191.34	0.00	-2201.32	OK
5566.14	89.88	338.18	2195.69	1163.74	1163.74	-3620.26	12.13	-2195.69	OK
5566.14	89.88	38.90	2195.69	1163.74	1163.74	-3620.26	0.00	-2195.69	OK
5805.66	89.88	38.90	2196.20	1350.15	1350.15	-3469.85	0.00	-2196.20	OK
5805.66	89.88	338.18	2196.20	1350.15	1350.15	-3469.85	0.00	-2196.20	OK
6344.18	89.88	38.90	2197.44	1858.12	1858.12	-3393.57	11.28	-2197.44	OK
6344.18	89.88	338.18	2197.44	1858.12	1858.12	-3393.57	0.00	-2197.44	OK
6753.30	92.60	271.27	2187.43	2078.18	2078.18	-3710.85	16.36	-2187.43	OK

EOF