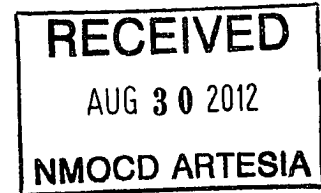




PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

30-015-39782



May 11, 2012

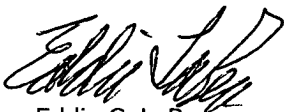
COG, LLC
Fasken Center, Tower II
550 West Texas Ave, Suite 1300
Midland, TX 79701

RE: Pinto 36 State Com #3H
150' FSL & 2260' FEL
Sec. 36, T18S, R25E
Eddy County, New Mexico

Dear Sir,

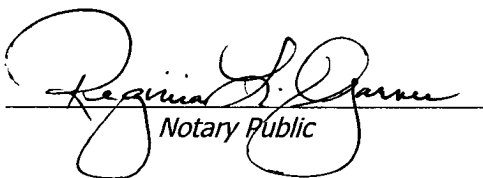
The attached is the Deviation Survey for the above captioned well.

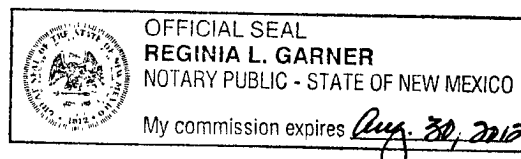
Very truly yours,


Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 11th day of May, 2012.


Regina L. Garner
Notary Public



Pinto 36 State Com #3H

Date	Depth	Deviation	Direction	TVD
4/21/2012	124	0.70		
4/21/2012	184	0.80		
4/21/2012	273	0.60		
4/21/2012	362	1.00		
4/21/2012	472	1.40		
4/22/2012	590	0.10		
4/22/2012	680	0.40		
4/23/2012	804	1.30		
4/23/2012	897	1.00		
4/23/2012	991	0.60		
4/23/2012	1187	1.80		
4/26/2012	1267	0.90		
4/26/2012	1454	0.50		
4/26/2012	1655	0.10		
4/27/2012	1923	1.00		
4/27/2012	2172	1.00		
4/27/2012	2422	0.70		
4/27/2012	2671	0.80		
4/27/2012	2921	0.80		
4/28/2012	3171	0.70		
4/28/2012	3420	0.10		
5/1/2012	1810	2.90	150.40	1809
5/1/2012	1841	6.50	157.00	1840
5/1/2012	1872	9.80	154.20	1871
5/1/2012	1903	13.40	152.40	1902
5/1/2012	1934	17.00	150.00	1931
5/1/2012	1966	20.30	150.90	1962
5/1/2012	1997	23.70	152.90	1990
5/1/2012	2028	27.00	155.60	2018
5/1/2012	2059	30.20	158.90	2045
5/2/2012	2090	33.20	161.20	2072
5/2/2012	2121	36.00	163.00	2097
5/2/2012	2152	39.20	164.20	2122
5/2/2012	2183	42.60	165.70	2145
5/2/2012	2215	45.90	167.40	2168
5/2/2012	2246	49.10	169.10	2188
5/2/2012	2277	52.20	170.50	2209
5/2/2012	2308	55.70	171.40	2227
5/2/2012	2339	58.70	172.70	2244
5/2/2012	2433	61.40	174.20	2260
5/2/2012	2464	70.30	178.70	2298
5/2/2012	2402	64.10	175.80	2274
5/2/2012	2495	73.20	179.80	2308

Date	Depth	Deviation	Direction	TVD
5/2/2012	2433	67.10	177.20	2287
5/2/2012	2576	76.00	181.00	2316
5/2/2012	2552	78.90	182.30	2322
5/3/2012	2618	85.20	183.90	2331
5/3/2012	2680	88.10	184.20	2335
5/3/2012	2774	89.00	183.20	2337
5/3/2012	2867	89.10	183.20	2334
5/3/2012	2961	98.80	183.10	2340
5/3/2012	3054	88.70	182.90	2343
5/3/2012	3148	88.90	182.10	2344
5/3/2012	3429	89.40	181.60	2346
5/3/2012	3242	89.50	181.30	2346
5/3/2012	3523	88.50	181.60	2344
5/3/2012	3336	90.00	181.40	2346
5/3/2012	3617	88.20	181.60	2351
5/3/2012	3742	88.90	181.80	2354
5/4/2012	3804	89.50	181.80	2354
5/4/2012	3898	89.10	182.50	2356
5/4/2012	3991	88.00	183.50	2358
5/4/2012	4085	88.80	183.80	2361
5/4/2012	4178	87.50	183.70	2364
5/4/2012	4272	87.70	183.60	2361
5/4/2012	4365	87.70	182.20	2371
5/4/2012	4459	87.90	181.00	2375
5/4/2012	4553	88.60	179.90	2378
5/4/2012	4946	89.60	179.80	2379
5/5/2012	4740	90.40	179.40	2379
5/5/2012	4834	89.00	179.70	2380
5/5/2012	4928	88.00	179.60	2382
5/5/2012	5021	88.60	179.50	2385
5/5/2012	5115	89.00	179.40	2387
5/5/2012	5395	87.90	180.60	2399
5/5/2012	5208	87.00	180.10	2390
5/5/2012	5302	87.30	180.30	2395
5/5/2012	5488	88.40	180.50	2402
5/6/2012	5582	89.50	180.70	2404
5/6/2012	5675	87.80	181.50	2406
5/6/2012	5769	88.30	181.70	2409
5/6/2012	5867	86.50	181.80	2413
5/6/2012	5960	86.50	181.90	2419
5/6/2012	6049	87.10	181.40	2424
5/6/2012	6143	87.20	180.90	2429
5/6/2012	6236	87.70	180.70	2433
5/6/2012	6330	88.20	180.60	
5/7/2012	6424	88.80	180.10	2439

Date	Depth	Deviation	Direction	TVD
5/7/2012	6518	89.20	180.10	2440
5/7/2012	6611	89.40	180.10	2441
5/7/2012	6705	90.00	180.20	2441
5/7/2012	6798	90.70	180.30	2441
5/7/2012	6867	91.30	180.70	2441



Minimum Curvature Calculation

Client Concho Oil and Gas
Well Pinto 36 State Com #3H
County Eddy
Rig Silver Oak #8

M.W.D. OPERATOR: M. Rainey/ CJ Hall
DIRECTIONAL DRILLERS: D. Orona / D. Patterson
Tool Azimuth to Grid North: 7.97
Job #: PB-12223

Vertical Section Angle: 180.16

Sur #	Meas. Depth	Inc.	Azm.	T.V.D.	Ver.Sect.	+N / -S	+E / -W	DLS
Tie In	1700.00	0.52	327.68	1699.88	-15.11	15.14	-10.00	0.00
1	1779.00	0.70	170.20	1778.88	-14.94	14.97	-10.11	1.52
2	1810.00	2.90	150.40	1809.86	-14.07	14.10	-9.69	7.27
3	1841.00	6.50	157.00	1840.75	-11.78	11.80	-8.62	11.72
4	1872.00	9.80	154.20	1871.43	-7.79	7.81	-6.78	10.72
5	1903.00	13.40	152.40	1901.80	-2.24	2.25	-3.97	11.67
6	1934.00	17.00	150.10	1931.71	4.87	-4.87	-0.04	11.77
7	1966.00	20.30	150.90	1962.02	13.76	-13.77	4.99	10.34
8	1997.00	23.70	152.90	1990.76	23.99	-24.02	10.44	11.23
9	2028.00	27.00	155.60	2018.77	35.93	-35.98	16.19	11.28
10	2059.00	30.20	158.90	2045.99	49.61	-49.67	21.91	11.51
11	2090.00	33.20	161.20	2072.36	64.90	-64.98	27.45	10.43
12	2121.00	36.00	163.00	2097.88	81.64	-81.73	32.85	9.61
13	2152.00	39.20	164.20	2122.44	99.77	-99.87	38.18	10.59
14	2183.00	42.60	165.70	2145.87	119.35	-119.47	43.44	11.42
15	2215.00	45.90	167.40	2168.78	141.05	-141.19	48.63	10.96
16	2246.00	49.10	169.10	2189.73	163.41	-163.56	53.27	11.09
17	2277.00	52.20	170.50	2209.38	186.99	-187.15	57.51	10.59
18	2308.00	55.70	171.40	2227.62	211.73	-211.90	61.45	11.53
19	2339.00	58.70	172.70	2244.41	237.52	-237.70	65.04	10.30
20	2371.00	61.40	174.20	2260.39	265.05	-265.25	68.20	9.36
21	2402.00	64.10	175.80	2274.58	292.50	-292.70	70.60	9.84
22	2433.00	67.10	177.20	2287.39	320.67	-320.87	72.32	10.51
23	2464.00	70.30	178.70	2298.65	349.53	-349.73	73.35	11.26
24	2495.00	73.20	179.80	2308.35	378.96	-379.17	73.73	9.94
25	2526.00	76.00	181.00	2316.58	408.84	-409.05	73.52	9.77
26	2552.00	78.90	182.30	2322.23	434.21	-434.41	72.79	12.17
27	2587.00	82.20	183.30	2327.98	468.69	-468.89	71.10	9.84
28	2618.00	85.20	183.90	2331.38	499.44	-499.64	69.16	9.87
29	2680.00	88.10	184.20	2335.00	561.19	-561.37	64.79	4.70
30	2774.00	89.00	183.20	2337.38	654.98	-655.14	58.73	1.43
31	2867.00	89.10	183.20	2338.92	747.83	-747.99	53.54	0.11
32	2961.00	88.80	183.10	2340.65	841.69	-841.83	48.37	0.34
33	3054.00	88.70	182.90	2342.68	934.55	-934.68	43.51	0.24
34	3148.00	88.90	182.10	2344.64	1028.45	-1028.57	39.41	0.88
35	3242.00	89.50	181.30	2345.96	1122.41	-1122.52	36.62	1.06
36	3336.00	90.00	181.40	2346.37	1216.39	-1216.49	34.41	0.54
37	3429.00	89.40	181.60	2346.85	1309.36	-1309.46	31.97	0.68

CRESCENT

DIRECTIONAL DRILLING

Minimum Curvature Calculation

Client Concho Oil and Gas
Well Pinto 36 State Com #3H
County Eddy
Rig Silver Oak #8

M.W.D. OPERATOR: M. Rainey/ CJ Hall
DIRECTIONAL DRILLERS: D. Orona / D. Patterson
Tool Azimuth to Grid North: 7.97
Job #: PB-12223

Vertical Section Angle: 180.16

Sur #	Meas. Depth	Inc.	Azm.	T.V.D.	Ver.Sect.	+N / -S	+E / -W	DLS
38	3523.00	88.50	181.60	2348.58	1403.32	-1403.40	29.35	0.96
39	3617.00	88.20	181.60	2351.28	1497.25	-1497.33	26.72	0.32
40	3710.00	88.90	181.80	2353.64	1590.18	-1590.26	23.97	0.78
41	3804.00	89.50	181.80	2354.95	1684.13	-1684.20	21.01	0.64
42	3898.00	89.10	182.50	2356.10	1778.07	-1778.13	17.49	0.86
43	3991.00	88.00	183.50	2358.45	1870.92	-1870.97	12.62	1.60
44	4085.00	88.80	183.80	2361.08	1964.71	-1964.74	6.64	0.91
45	4178.00	87.50	183.70	2364.08	2057.48	-2057.49	0.56	1.40
46	4272.00	87.70	183.60	2368.01	2151.22	-2151.22	-5.42	0.24
47	4365.00	87.70	182.20	2371.75	2244.04	-2244.02	-10.12	1.50
48	4459.00	87.90	181.00	2375.35	2337.94	-2337.91	-12.74	1.29
49	4553.00	88.60	179.90	2378.23	2431.89	-2431.86	-13.48	1.39
50	4646.00	89.60	179.80	2379.69	2524.88	-2524.85	-13.24	1.08
51	4740.00	90.40	179.40	2379.69	2618.87	-2618.85	-12.58	0.95
52	4834.00	89.00	179.70	2380.18	2712.86	-2712.84	-11.84	1.52
53	4928.00	88.00	179.60	2382.64	2806.82	-2806.80	-11.27	1.07
54	5021.00	88.60	179.50	2385.40	2899.78	-2899.76	-10.54	0.65
55	5115.00	89.00	179.40	2387.37	2993.75	-2993.74	-9.64	0.44
56	5208.00	87.00	180.10	2390.61	3086.69	-3086.67	-9.23	2.28
57	5302.00	87.30	180.30	2395.29	3180.57	-3180.56	-9.56	0.38
58	5395.00	87.90	180.60	2399.18	3273.49	-3273.47	-10.29	0.72
59	5488.00	88.40	180.50	2402.18	3366.44	-3366.42	-11.18	0.55
60	5582.00	89.50	180.70	2403.91	3460.42	-3460.39	-12.16	1.19
61	5675.00	87.80	181.50	2406.10	3553.37	-3553.35	-13.95	2.02
62	5769.00	88.30	181.70	2409.29	3647.29	-3647.26	-16.57	0.57
63	5862.00	86.50	181.80	2413.51	3740.15	-3740.11	-19.41	1.94
64	5956.00	86.50	181.90	2419.25	3833.94	-3833.89	-22.44	0.11
65	6049.00	87.10	181.40	2424.44	3926.76	-3926.70	-25.11	0.84
66	6143.00	87.20	180.90	2429.12	4020.63	-4020.57	-26.99	0.54
67	6236.00	87.70	180.70	2433.25	4113.53	-4113.47	-28.29	0.58
68	6330.00	88.20	180.60	2436.62	4207.47	-4207.40	-29.36	0.54
69	6424.00	88.80	180.10	2439.08	4301.43	-4301.37	-29.93	0.83
70	6518.00	89.20	180.10	2440.72	4395.42	-4395.35	-30.10	0.43
71	6611.00	89.40	180.10	2441.85	4488.41	-4488.34	-30.26	0.22
72	6705.00	90.00	180.20	2442.35	4582.41	-4582.34	-30.50	0.65
73	6798.00	90.70	180.30	2441.78	4675.41	-4675.34	-30.91	0.76
74	6867.00	91.30	180.70	2440.57	4744.40	-4744.33	-31.51	1.05
BHL	6917.00	91.30	180.70	2439.44	4794.38	-4794.31	-32.12	0.00