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DISTRICT II-ARTESIA O.C.D.

Titus Oil & Gas Production, LLC
 Todd 2-24S-31E State 203H - Plan #1-Rev0

Eddy County, NM (NAD83-NME)
 A01 Todd DSU
 Your Ref:

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (-/100ft)
0	0	0	0	0	0	0	0
100	0	0	100	0	0	0	0
200	0	0	200	0	0	0	0
300	0	0	300	0	0	0	0
400	0	0	400	0	0	0	0
500	0	0	500	0	0	0	0
600	0	0	600	0	0	0	0
700	0	0	700	0	0	0	0
800	0	0	800	0	0	0	0
900	0	0	900	0	0	0	0
1000	0	0	1000	0	0	0	0
1100	0	0	1100	0	0	0	0
1200	0	0	1200	0	0	0	0
1300	0	0	1300	0	0	0	0
1400	0	0	1400	0	0	0	0
1500	0	0	1500	0	0	0	0
1600	1.5	105.066	1599.99	-0.34	1.26	-0.16	1.5
1700	3	105.066	1699.91	-1.36	5.05	-0.63	1.5
1800	4.5	105.066	1799.69	-3.06	11.37	-1.42	1.5
1890.25	5.854	105.066	1889.58	-5.18	19.23	-2.41	1.5
1900	5.854	105.066	1899.27	-5.44	20.19	-2.53	0
2000	5.854	105.066	1998.75	-8.09	30.04	-3.76	0
2100	5.854	105.066	2098.23	-10.74	39.89	-4.99	0
2200	5.854	105.066	2197.71	-13.39	49.74	-6.22	0
2300	5.854	105.066	2297.18	-16.04	59.59	-7.45	0
2400	5.854	105.066	2396.66	-18.69	69.44	-8.69	0
2500	5.854	105.066	2496.14	-21.34	79.28	-9.92	0
2600	5.854	105.066	2595.62	-23.99	89.13	-11.15	0
2700	5.854	105.066	2695.1	-26.64	98.98	-12.38	0
2800	5.854	105.066	2794.58	-29.29	108.83	-13.62	0
2900	5.854	105.066	2894.06	-31.95	118.68	-14.85	0
3000	5.854	105.066	2993.53	-34.6	128.53	-16.08	0

3100	5.854	105.066	3093.01	-37.25	138.38	-17.31	0
3200	5.854	105.066	3192.49	-39.9	148.22	-18.54	0
3300	5.854	105.066	3291.97	-42.55	158.07	-19.78	0
3400	5.854	105.066	3391.45	-45.2	167.92	-21.01	0
3500	5.854	105.066	3490.93	-47.85	177.77	-22.24	0
3600	5.854	105.066	3590.41	-50.5	187.62	-23.47	0
3700	5.854	105.066	3689.88	-53.15	197.47	-24.7	0
3800	5.854	105.066	3789.36	-55.81	207.31	-25.94	0
3900	5.854	105.066	3888.84	-58.46	217.16	-27.17	0
4000	5.854	105.066	3988.32	-61.11	227.01	-28.4	0
4100	5.854	105.066	4087.8	-63.76	236.86	-29.63	0
4200	5.854	105.066	4187.28	-66.41	246.71	-30.86	0
4300	5.854	105.066	4286.76	-69.06	256.56	-32.1	0
4400	5.854	105.066	4386.23	-71.71	266.41	-33.33	0
4500	5.854	105.066	4485.71	-74.36	276.25	-34.56	0
4600	5.854	105.066	4585.19	-77.01	286.1	-35.79	0
4700	5.854	105.066	4684.67	-79.66	295.95	-37.03	0
4800	5.854	105.066	4784.15	-82.32	305.8	-38.26	0
4900	5.854	105.066	4883.63	-84.97	315.65	-39.49	0
5000	5.854	105.066	4983.11	-87.62	325.5	-40.72	0
5100	5.854	105.066	5082.58	-90.27	335.35	-41.95	0
5200	5.854	105.066	5182.06	-92.92	345.19	-43.19	0
5300	5.854	105.066	5281.54	-95.57	355.04	-44.42	0
5400	5.854	105.066	5381.02	-98.22	364.89	-45.65	0
5500	5.854	105.066	5480.5	-100.87	374.74	-46.88	0
5600	5.854	105.066	5579.98	-103.52	384.59	-48.11	0
5700	5.854	105.066	5679.45	-106.17	394.44	-49.35	0
5800	5.854	105.066	5778.93	-108.83	404.28	-50.58	0
5900	5.854	105.066	5878.41	-111.48	414.13	-51.81	0
6000	5.854	105.066	5977.89	-114.13	423.98	-53.04	0
6100	5.854	105.066	6077.37	-116.78	433.83	-54.27	0
6200	5.854	105.066	6176.85	-119.43	443.68	-55.51	0
6300	5.854	105.066	6276.33	-122.08	453.53	-56.74	0
6400	5.854	105.066	6375.8	-124.73	463.38	-57.97	0
6500	5.854	105.066	6475.28	-127.38	473.22	-59.2	0
6600	5.854	105.066	6574.76	-130.03	483.07	-60.44	0
6700	5.854	105.066	6674.24	-132.69	492.92	-61.67	0
6800	5.854	105.066	6773.72	-135.34	502.77	-62.9	0
6900	5.854	105.066	6873.2	-137.99	512.62	-64.13	0
7000	5.854	105.066	6972.68	-140.64	522.47	-65.36	0
7100	5.854	105.066	7072.15	-143.29	532.32	-66.6	0
7200	5.854	105.066	7171.63	-145.94	542.16	-67.83	0
7300	5.854	105.066	7271.11	-148.59	552.01	-69.06	0
7400	5.854	105.066	7370.59	-151.24	561.86	-70.29	0
7500	5.854	105.066	7470.07	-153.89	571.71	-71.52	0
7600	5.854	105.066	7569.55	-156.54	581.56	-72.76	0
7700	5.854	105.066	7669.03	-159.2	591.41	-73.99	0

7800	5.854	105.066	7768.5	-161.85	601.25	-75.22	0
7900	5.854	105.066	7867.98	-164.5	611.1	-76.45	0
8000	5.854	105.066	7967.46	-167.15	620.95	-77.68	0
8100	5.854	105.066	8066.94	-169.8	630.8	-78.92	0
8200	5.854	105.066	8166.42	-172.45	640.65	-80.15	0
8300	5.854	105.066	8265.9	-175.1	650.5	-81.38	0
8400	5.854	105.066	8365.38	-177.75	660.35	-82.61	0
8500	5.854	105.066	8464.85	-180.4	670.19	-83.85	0
8600	5.854	105.066	8564.33	-183.05	680.04	-85.08	0
8700	5.854	105.066	8663.81	-185.71	689.89	-86.31	0
8800	5.854	105.066	8763.29	-188.36	699.74	-87.54	0
8900	5.854	105.066	8862.77	-191.01	709.59	-88.77	0
9000	5.854	105.066	8962.25	-193.66	719.44	-90.01	0
9048.43	5.854	105.066	9010.42	-194.94	724.21	-90.6	0
9100	5.08	105.066	9061.76	-196.22	728.95	-91.2	1.5
9200	3.58	105.066	9161.47	-198.18	736.24	-92.11	1.5
9300	2.08	105.066	9261.35	-199.47	741.01	-92.7	1.5
9400	0.58	105.066	9361.32	-200.07	743.25	-92.99	1.5
9438.68	0	0.005	9400	-200.12	743.44	-93.01	1.5
9500	0	0	9461.32	-200.12	743.44	-93.01	0
9600	0	0	9561.32	-200.12	743.44	-93.01	0
9700	0	0	9661.32	-200.12	743.44	-93.01	0
9754.04	0	0.005	9715.36	-200.12	743.44	-93.01	0
9775	2.515	359.708	9736.31	-199.66	743.44	-92.55	12
9800	5.515	359.708	9761.24	-197.91	743.43	-90.82	12
9825	8.515	359.708	9786.05	-194.86	743.41	-87.8	12
9850	11.515	359.708	9810.67	-190.51	743.39	-83.5	12
9875	14.515	359.708	9835.03	-184.88	743.36	-77.93	12
9900	17.515	359.708	9859.05	-177.98	743.33	-71.11	12
9925	20.515	359.708	9882.69	-169.84	743.29	-63.06	12
9950	23.515	359.708	9905.86	-160.47	743.24	-53.79	12
9975	26.515	359.708	9928.51	-149.9	743.18	-43.33	12
10000	29.515	359.708	9950.58	-138.16	743.12	-31.72	12
10025	32.515	359.708	9972	-125.28	743.06	-18.97	12
10050	35.515	359.708	9992.72	-111.3	742.99	-5.14	12
10075	38.515	359.708	10012.68	-96.25	742.91	9.74	12
10100	41.515	359.708	10031.83	-80.18	742.83	25.64	12
10125	44.515	359.708	10050.11	-63.12	742.74	42.51	12
10150	47.515	359.708	10067.47	-45.14	742.65	60.31	12
10175	50.515	359.708	10083.86	-26.27	742.55	78.97	12
10200	53.515	359.708	10099.25	-6.57	742.45	98.46	12
10225	56.515	359.708	10113.58	13.91	742.35	118.72	12
10250	59.515	359.708	10126.82	35.12	742.24	139.69	12
10275	62.515	359.708	10138.93	56.98	742.13	161.32	12
10300	65.515	359.708	10149.89	79.45	742.01	183.55	12
10325	68.515	359.708	10159.65	102.46	741.9	206.32	12
10350	71.515	359.708	10168.19	125.95	741.78	229.56	12

10375	74.515	359.708	10175.49	149.86	741.65	253.2	12
10400	77.515	359.708	10181.53	174.12	741.53	277.2	12
10425	80.515	359.708	10186.3	198.66	741.4	301.47	12
10450	83.515	359.708	10189.77	223.41	741.28	325.96	12
10475	86.515	359.708	10191.94	248.31	741.15	350.6	12
10500	89.515	359.708	10192.81	273.29	741.02	375.31	12
10507.21	90.379	359.708	10192.81	280.5	740.99	382.44	12
10600	90.379	359.708	10192.2	373.29	740.51	474.23	0
10700	90.379	359.708	10191.54	473.29	740	573.15	0
10800	90.379	359.708	10190.88	573.28	739.49	672.07	0
10900	90.379	359.708	10190.21	673.28	738.98	770.99	0
11000	90.379	359.708	10189.55	773.28	738.47	869.91	0
11100	90.379	359.708	10188.89	873.27	737.96	968.83	0
11200	90.379	359.708	10188.23	973.27	737.45	1067.75	0
11300	90.379	359.708	10187.57	1073.27	736.94	1166.67	0
11400	90.379	359.708	10186.9	1173.26	736.43	1265.59	0
11500	90.379	359.708	10186.24	1273.26	735.92	1364.51	0
11600	90.379	359.708	10185.58	1373.26	735.41	1463.43	0
11700	90.379	359.708	10184.92	1473.25	734.9	1562.35	0
11800	90.379	359.708	10184.26	1573.25	734.39	1661.27	0
11900	90.379	359.708	10183.59	1673.25	733.88	1760.19	0
12000	90.379	359.708	10182.93	1773.24	733.37	1859.11	0
12100	90.379	359.708	10182.27	1873.24	732.86	1958.03	0
12200	90.379	359.708	10181.61	1973.23	732.35	2056.95	0
12300	90.379	359.708	10180.95	2073.23	731.84	2155.87	0
12400	90.379	359.708	10180.28	2173.23	731.33	2254.79	0
12500	90.379	359.708	10179.62	2273.22	730.82	2353.71	0
12600	90.379	359.708	10178.96	2373.22	730.31	2452.63	0
12700	90.379	359.708	10178.3	2473.22	729.8	2551.55	0
12800	90.379	359.708	10177.64	2573.21	729.29	2650.47	0
12900	90.379	359.708	10176.97	2673.21	728.77	2749.39	0
13000	90.379	359.708	10176.31	2773.21	728.26	2848.31	0
13100	90.379	359.708	10175.65	2873.2	727.75	2947.23	0
13200	90.379	359.708	10174.99	2973.2	727.24	3046.15	0
13300	90.379	359.708	10174.33	3073.2	726.73	3145.07	0
13400	90.379	359.708	10173.66	3173.19	726.22	3243.99	0
13500	90.379	359.708	10173	3273.19	725.71	3342.91	0
13600	90.379	359.708	10172.34	3373.19	725.2	3441.83	0
13700	90.379	359.708	10171.68	3473.18	724.69	3540.75	0
13800	90.379	359.708	10171.01	3573.18	724.18	3639.67	0
13900	90.379	359.708	10170.35	3673.18	723.67	3738.59	0
14000	90.379	359.708	10169.69	3773.17	723.16	3837.51	0
14100	90.379	359.708	10169.03	3873.17	722.65	3936.43	0
14200	90.379	359.708	10168.37	3973.17	722.14	4035.35	0
14300	90.379	359.708	10167.7	4073.16	721.63	4134.27	0
14400	90.379	359.708	10167.04	4173.16	721.12	4233.19	0
14500	90.379	359.708	10166.38	4273.15	720.61	4332.11	0

14600	90.379	359.708	10165.72	4373.15	720.1	4431.03	0
14700	90.379	359.708	10165.06	4473.15	719.59	4529.95	0
14800	90.379	359.708	10164.39	4573.14	719.08	4628.87	0
14900	90.379	359.708	10163.73	4673.14	718.57	4727.79	0
15000	90.379	359.708	10163.07	4773.14	718.06	4826.71	0
15100	90.379	359.708	10162.41	4873.13	717.55	4925.63	0
15200	90.379	359.708	10161.75	4973.13	717.04	5024.55	0
15246.27	90.379	359.708	10161.44	5019.4	716.8	5070.32	0

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to 3507+25. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 8.127- (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.

Central meridian is -104.333-.

Grid Convergence at Surface is 0.312-.

Based upon Minimum Curvature type calculations, at a Measured Depth of 15246.27ft.,
the Bottom Hole Displacement is 5070.32ft., in the Direction of 8.127- (Grid).