

RECEIVED

JUN 03 2019

Titus Oil & Gas Production, LLC
 District 1, Artesia O.C.D.
 Todd 2-24S-31E State 202H - 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
100		0	0	100	0	0	0
200		0	0	200	0	0	0
300		0	0	300	0	0	0
400		0	0	400	0	0	0
500		0	0	500	0	0	0
600		0	0	600	0	0	0
700		0	0	700	0	0	0
800		0	0	800	0	0	0
900		0	0	900	0	0	0
1000		0	0	1000	0	0	0
1100		0	0	1100	0	0	0
1200		0	0	1200	0	0	0
1300		0	0	1300	0	0	0
1400		0	0	1400	0	0	0
1500		0	0	1500	0	0	0
1600	1.5	254.182	1599.99	-0.36	-1.26	-0.16	1.5
1700	3	254.182	1699.91	-1.43	-5.04	-0.66	1.5
1800	4.5	254.182	1799.69	-3.21	-11.33	-1.48	1.5
1889.67	5.845	254.182	1888.99	-5.41	-19.11	-2.49	1.5
1900	5.845	254.182	1899.27	-5.7	-20.12	-2.62	0
2000	5.845	254.182	1998.75	-8.48	-29.92	-3.9	0
2100	5.845	254.182	2098.23	-11.25	-39.72	-5.17	0
2200	5.845	254.182	2197.71	-14.03	-49.51	-6.45	0
2300	5.845	254.182	2297.19	-16.8	-59.31	-7.72	0
2400	5.845	254.182	2396.67	-19.58	-69.11	-9	0
2500	5.845	254.182	2496.15	-22.36	-78.91	-10.28	0
2600	5.845	254.182	2595.63	-25.13	-88.71	-11.55	0
2700	5.845	254.182	2695.11	-27.91	-98.5	-12.83	0
2800	5.845	254.182	2794.59	-30.68	-108.3	-14.11	0
2900	5.845	254.182	2894.07	-33.46	-118.1	-15.38	0
3000	5.845	254.182	2993.55	-36.24	-127.9	-16.66	0

3100	5.845	254.182	3093.03	-39.01	-137.7	-17.93	0
3200	5.845	254.182	3192.51	-41.79	-147.49	-19.21	0
3300	5.845	254.182	3291.99	-44.56	-157.29	-20.49	0
3400	5.845	254.182	3391.47	-47.34	-167.09	-21.76	0
3500	5.845	254.182	3490.95	-50.12	-176.89	-23.04	0
3600	5.845	254.182	3590.43	-52.89	-186.69	-24.31	0
3700	5.845	254.182	3689.91	-55.67	-196.49	-25.59	0
3800	5.845	254.182	3789.39	-58.44	-206.28	-26.87	0
3900	5.845	254.182	3888.87	-61.22	-216.08	-28.14	0
4000	5.845	254.182	3988.35	-64	-225.88	-29.42	0
4100	5.845	254.182	4087.83	-66.77	-235.68	-30.69	0
4200	5.845	254.182	4187.31	-69.55	-245.48	-31.97	0
4300	5.845	254.182	4286.79	-72.32	-255.27	-33.25	0
4400	5.845	254.182	4386.27	-75.1	-265.07	-34.52	0
4500	5.845	254.182	4485.75	-77.88	-274.87	-35.8	0
4600	5.845	254.182	4585.23	-80.65	-284.67	-37.08	0
4700	5.845	254.182	4684.71	-83.43	-294.47	-38.35	0
4800	5.845	254.182	4784.19	-86.2	-304.26	-39.63	0
4900	5.845	254.182	4883.67	-88.98	-314.06	-40.9	0
5000	5.845	254.182	4983.15	-91.76	-323.86	-42.18	0
5100	5.845	254.182	5082.63	-94.53	-333.66	-43.46	0
5200	5.845	254.182	5182.11	-97.31	-343.46	-44.73	0
5300	5.845	254.182	5281.59	-100.08	-353.25	-46.01	0
5400	5.845	254.182	5381.07	-102.86	-363.05	-47.28	0
5500	5.845	254.182	5480.55	-105.64	-372.85	-48.56	0
5600	5.845	254.182	5580.03	-108.41	-382.65	-49.84	0
5700	5.845	254.182	5679.51	-111.19	-392.45	-51.11	0
5800	5.845	254.182	5778.99	-113.96	-402.25	-52.39	0
5900	5.845	254.182	5878.47	-116.74	-412.04	-53.66	0
6000	5.845	254.182	5977.95	-119.52	-421.84	-54.94	0
6100	5.845	254.182	6077.44	-122.29	-431.64	-56.22	0
6200	5.845	254.182	6176.92	-125.07	-441.44	-57.49	0
6300	5.845	254.182	6276.4	-127.84	-451.24	-58.77	0
6400	5.845	254.182	6375.88	-130.62	-461.03	-60.05	0
6500	5.845	254.182	6475.36	-133.4	-470.83	-61.32	0
6600	5.845	254.182	6574.84	-136.17	-480.63	-62.6	0
6700	5.845	254.182	6674.32	-138.95	-490.43	-63.87	0
6800	5.845	254.182	6773.8	-141.72	-500.23	-65.15	0
6900	5.845	254.182	6873.28	-144.5	-510.02	-66.43	0
7000	5.845	254.182	6972.76	-147.28	-519.82	-67.7	0
7100	5.845	254.182	7072.24	-150.05	-529.62	-68.98	0
7200	5.845	254.182	7171.72	-152.83	-539.42	-70.25	0
7300	5.845	254.182	7271.2	-155.6	-549.22	-71.53	0
7400	5.845	254.182	7370.68	-158.38	-559.02	-72.81	0
7500	5.845	254.182	7470.16	-161.16	-568.81	-74.08	0
7600	5.845	254.182	7569.64	-163.93	-578.61	-75.36	0
7700	5.845	254.182	7669.12	-166.71	-588.41	-76.63	0

7800	5.845	254.182	7768.6	-169.48	-598.21	-77.91	0
7900	5.845	254.182	7868.08	-172.26	-608.01	-79.19	0
8000	5.845	254.182	7967.56	-175.04	-617.8	-80.46	0
8100	5.845	254.182	8067.04	-177.81	-627.6	-81.74	0
8200	5.845	254.182	8166.52	-180.59	-637.4	-83.02	0
8300	5.845	254.182	8266	-183.36	-647.2	-84.29	0
8400	5.845	254.182	8365.48	-186.14	-657	-85.57	0
8500	5.845	254.182	8464.96	-188.92	-666.79	-86.84	0
8600	5.845	254.182	8564.44	-191.69	-676.59	-88.12	0
8700	5.845	254.182	8663.92	-194.47	-686.39	-89.4	0
8800	5.845	254.182	8763.4	-197.24	-696.19	-90.67	0
8900	5.845	254.182	8862.88	-200.02	-705.99	-91.95	0
9000	5.845	254.182	8962.36	-202.8	-715.79	-93.22	0
9037.85	5.845	254.182	9000.01	-203.85	-719.49	-93.71	0
9100	4.913	254.182	9061.89	-205.43	-725.1	-94.44	1.5
9200	3.413	254.182	9161.62	-207.41	-732.08	-95.35	1.5
9300	1.913	254.182	9261.51	-208.68	-736.55	-95.93	1.5
9400	0.413	254.182	9361.49	-209.23	-738.5	-96.18	1.5
9427.51	0	0.005	9389	-209.26	-738.6	-96.2	1.5
9500	0	0	9461.49	-209.26	-738.6	-96.2	0
9600	0	0	9561.49	-209.26	-738.6	-96.2	0
9700	0	0	9661.49	-209.26	-738.6	-96.2	0
9727.61	0	0.005	9689.1	-209.26	-738.6	-96.2	0
9750	2.686	359.768	9711.48	-208.74	-738.6	-95.68	12
9775	5.686	359.768	9736.41	-206.91	-738.61	-93.87	12
9800	8.686	359.768	9761.21	-203.78	-738.62	-90.78	12
9825	11.686	359.768	9785.81	-199.36	-738.64	-86.4	12
9850	14.686	359.768	9810.15	-193.66	-738.66	-80.76	12
9875	17.686	359.768	9834.16	-186.69	-738.69	-73.87	12
9900	20.686	359.768	9857.76	-178.48	-738.72	-65.74	12
9925	23.686	359.768	9880.91	-169.04	-738.76	-56.4	12
9950	26.686	359.768	9903.53	-158.4	-738.81	-45.88	12
9975	29.686	359.768	9925.56	-146.59	-738.85	-34.2	12
10000	32.686	359.768	9946.95	-133.65	-738.91	-21.39	12
10025	35.686	359.768	9967.63	-119.6	-738.96	-7.5	12
10050	38.686	359.768	9987.54	-104.5	-739.02	7.45	12
10075	41.686	359.768	10006.64	-88.37	-739.09	23.41	12
10100	44.686	359.768	10024.87	-71.26	-739.16	40.33	12
10125	47.686	359.768	10042.17	-53.22	-739.23	58.18	12
10150	50.686	359.768	10058.51	-34.3	-739.31	76.89	12
10175	53.686	359.768	10073.83	-14.55	-739.39	96.43	12
10200	56.686	359.768	10088.11	5.97	-739.47	116.73	12
10225	59.686	359.768	10101.28	27.21	-739.56	137.75	12
10250	62.686	359.768	10113.33	49.11	-739.64	159.41	12
10275	65.686	359.768	10124.22	71.61	-739.74	181.68	12
10300	68.686	359.768	10133.91	94.66	-739.83	204.47	12
10325	71.686	359.768	10142.38	118.17	-739.92	227.74	12

10350	74.686	359.768	10149.61	142.1	-740.02	251.41	12
10375	77.686	359.768	10155.58	166.38	-740.12	275.42	12
10400	80.686	359.768	10160.27	190.93	-740.22	299.72	12
10425	83.686	359.768	10163.67	215.69	-740.32	324.22	12
10450	86.686	359.768	10165.77	240.6	-740.42	348.86	12
10475	89.686	359.768	10166.56	265.59	-740.52	373.58	12
10481.78	90.5	359.768	10166.55	272.37	-740.55	380.28	12
10500	90.5	359.768	10166.39	290.59	-740.62	398.31	0
10600	90.5	359.768	10165.51	390.58	-741.02	497.23	0
10700	90.5	359.768	10164.64	490.58	-741.43	596.16	0
10800	90.5	359.768	10163.77	590.57	-741.83	695.09	0
10900	90.5	359.768	10162.9	690.57	-742.24	794.01	0
11000	90.5	359.768	10162.02	790.56	-742.64	892.94	0
11100	90.5	359.768	10161.15	890.56	-743.04	991.87	0
11200	90.5	359.768	10160.28	990.55	-743.45	1090.79	0
11300	90.5	359.768	10159.4	1090.55	-743.85	1189.72	0
11400	90.5	359.768	10158.53	1190.54	-744.26	1288.64	0
11500	90.5	359.768	10157.66	1290.54	-744.66	1387.57	0
11600	90.5	359.768	10156.79	1390.53	-745.07	1486.5	0
11700	90.5	359.768	10155.91	1490.53	-745.47	1585.42	0
11800	90.5	359.768	10155.04	1590.53	-745.87	1684.35	0
11900	90.5	359.768	10154.17	1690.52	-746.28	1783.28	0
12000	90.5	359.768	10153.3	1790.52	-746.68	1882.2	0
12100	90.5	359.768	10152.42	1890.51	-747.09	1981.13	0
12200	90.5	359.768	10151.55	1990.51	-747.49	2080.06	0
12300	90.5	359.768	10150.68	2090.5	-747.89	2178.98	0
12400	90.5	359.768	10149.8	2190.5	-748.3	2277.91	0
12500	90.5	359.768	10148.93	2290.49	-748.7	2376.84	0
12600	90.5	359.768	10148.06	2390.49	-749.11	2475.76	0
12700	90.5	359.768	10147.19	2490.48	-749.51	2574.69	0
12800	90.5	359.768	10146.31	2590.48	-749.92	2673.61	0
12900	90.5	359.768	10145.44	2690.47	-750.32	2772.54	0
13000	90.5	359.768	10144.57	2790.47	-750.72	2871.47	0
13100	90.5	359.768	10143.69	2890.47	-751.13	2970.39	0
13200	90.5	359.768	10142.82	2990.46	-751.53	3069.32	0
13300	90.5	359.768	10141.95	3090.46	-751.94	3168.25	0
13400	90.5	359.768	10141.08	3190.45	-752.34	3267.17	0
13500	90.5	359.768	10140.2	3290.45	-752.74	3366.1	0
13600	90.5	359.768	10139.33	3390.44	-753.15	3465.03	0
13700	90.5	359.768	10138.46	3490.44	-753.55	3563.95	0
13800	90.5	359.768	10137.58	3590.43	-753.96	3662.88	0
13900	90.5	359.768	10136.71	3690.43	-754.36	3761.81	0
14000	90.5	359.768	10135.84	3790.42	-754.76	3860.73	0
14100	90.5	359.768	10134.97	3890.42	-755.17	3959.66	0
14200	90.5	359.768	10134.09	3990.41	-755.57	4058.58	0
14300	90.5	359.768	10133.22	4090.41	-755.98	4157.51	0
14400	90.5	359.768	10132.35	4190.41	-756.38	4256.44	0

14500	90.5	359.768	10131.47	4290.4	-756.79	4355.36	0
14600	90.5	359.768	10130.6	4390.4	-757.19	4454.29	0
14700	90.5	359.768	10129.73	4490.39	-757.59	4553.22	0
14800	90.5	359.768	10128.86	4590.39	-758	4652.14	0
14900	90.5	359.768	10127.98	4690.38	-758.4	4751.07	0
15000	90.5	359.768	10127.11	4790.38	-758.81	4850	0
15100	90.5	359.768	10126.24	4890.37	-759.21	4948.92	0
15200	90.5	359.768	10125.36	4990.37	-759.61	5047.85	0
15221.13	90.5	359.768	10125.18	5011.5	-759.7	5068.75	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 351.380- (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 15221.13ft.,
the Bottom Hole Displacement is 5068.75ft., in the Direction of 351.380- (Grid).