

Titus Oil & Gas Production, LLC
 Todd 2-24S-31E State 207H - Plan #1-Rev0

RECEIVED
 JUN 03 2019
 DISTRICT II-ARTESIA O.C.D.

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	106.614	1599.99	-0.37	1.25	-0.25	1.5
1700	3	106.614	1699.91	-1.5	5.02	-1	1.5
1762.51	3.938	106.614	1762.3	-2.58	8.64	-1.72	1.5
1800	3.938	106.614	1799.7	-3.31	11.11	-2.21	0
1900	3.938	106.614	1899.47	-5.28	17.69	-3.53	0
2000	3.938	106.614	1999.23	-7.24	24.27	-4.84	0
2100	3.938	106.614	2099	-9.2	30.85	-6.15	0
2200	3.938	106.614	2198.76	-11.17	37.43	-7.46	0
2300	3.938	106.614	2298.52	-13.13	44.01	-8.77	0
2400	3.938	106.614	2398.29	-15.1	50.59	-10.08	0
2500	3.938	106.614	2498.05	-17.06	57.17	-11.39	0
2600	3.938	106.614	2597.82	-19.02	63.75	-12.71	0
2700	3.938	106.614	2697.58	-20.99	70.33	-14.02	0
2800	3.938	106.614	2797.34	-22.95	76.91	-15.33	0
2900	3.938	106.614	2897.11	-24.91	83.49	-16.64	0
3000	3.938	106.614	2996.87	-26.88	90.07	-17.95	0

3100	3.938	106.614	3096.64	-28.84	96.65	-19.26	0
3200	3.938	106.614	3196.4	-30.8	103.23	-20.57	0
3300	3.938	106.614	3296.16	-32.77	109.81	-21.89	0
3400	3.938	106.614	3395.93	-34.73	116.39	-23.2	0
3500	3.938	106.614	3495.69	-36.69	122.97	-24.51	0
3600	3.938	106.614	3595.46	-38.66	129.56	-25.82	0
3700	3.938	106.614	3695.22	-40.62	136.14	-27.13	0
3800	3.938	106.614	3794.98	-42.58	142.72	-28.44	0
3900	3.938	106.614	3894.75	-44.55	149.3	-29.75	0
4000	3.938	106.614	3994.51	-46.51	155.88	-31.07	0
4100	3.938	106.614	4094.28	-48.48	162.46	-32.38	0
4200	3.938	106.614	4194.04	-50.44	169.04	-33.69	0
4300	3.938	106.614	4293.8	-52.4	175.62	-35	0
4400	3.938	106.614	4393.57	-54.37	182.2	-36.31	0
4500	3.938	106.614	4493.33	-56.33	188.78	-37.62	0
4600	3.938	106.614	4593.1	-58.29	195.36	-38.93	0
4700	3.938	106.614	4692.86	-60.26	201.94	-40.25	0
4800	3.938	106.614	4792.62	-62.22	208.52	-41.56	0
4900	3.938	106.614	4892.39	-64.18	215.1	-42.87	0
5000	3.938	106.614	4992.15	-66.15	221.68	-44.18	0
5100	3.938	106.614	5091.91	-68.11	228.26	-45.49	0
5200	3.938	106.614	5191.68	-70.07	234.84	-46.8	0
5300	3.938	106.614	5291.44	-72.04	241.42	-48.11	0
5400	3.938	106.614	5391.21	-74	248	-49.43	0
5500	3.938	106.614	5490.97	-75.96	254.58	-50.74	0
5600	3.938	106.614	5590.73	-77.93	261.16	-52.05	0
5700	3.938	106.614	5690.5	-79.89	267.74	-53.36	0
5800	3.938	106.614	5790.26	-81.85	274.32	-54.67	0
5900	3.938	106.614	5890.03	-83.82	280.91	-55.98	0
6000	3.938	106.614	5989.79	-85.78	287.49	-57.29	0
6100	3.938	106.614	6089.55	-87.75	294.07	-58.61	0
6200	3.938	106.614	6189.32	-89.71	300.65	-59.92	0
6300	3.938	106.614	6289.08	-91.67	307.23	-61.23	0
6400	3.938	106.614	6388.85	-93.64	313.81	-62.54	0
6500	3.938	106.614	6488.61	-95.6	320.39	-63.85	0
6600	3.938	106.614	6588.37	-97.56	326.97	-65.16	0
6700	3.938	106.614	6688.14	-99.53	333.55	-66.47	0
6800	3.938	106.614	6787.9	-101.49	340.13	-67.79	0
6900	3.938	106.614	6887.67	-103.45	346.71	-69.1	0
7000	3.938	106.614	6987.43	-105.42	353.29	-70.41	0
7100	3.938	106.614	7087.19	-107.38	359.87	-71.72	0
7200	3.938	106.614	7186.96	-109.34	366.45	-73.03	0
7300	3.938	106.614	7286.72	-111.31	373.03	-74.34	0
7400	3.938	106.614	7386.49	-113.27	379.61	-75.65	0
7500	3.938	106.614	7486.25	-115.23	386.19	-76.97	0
7600	3.938	106.614	7586.01	-117.2	392.77	-78.28	0
7700	3.938	106.614	7685.78	-119.16	399.35	-79.59	0

7800	3.938	106.614	7785.54	-121.12	405.93	-80.9	0
7900	3.938	106.614	7885.3	-123.09	412.51	-82.21	0
8000	3.938	106.614	7985.07	-125.05	419.09	-83.52	0
8100	3.938	106.614	8084.83	-127.02	425.67	-84.83	0
8200	3.938	106.614	8184.6	-128.98	432.26	-86.15	0
8300	3.938	106.614	8284.36	-130.94	438.84	-87.46	0
8400	3.938	106.614	8384.12	-132.91	445.42	-88.77	0
8500	3.938	106.614	8483.89	-134.87	452	-90.08	0
8600	3.938	106.614	8583.65	-136.83	458.58	-91.39	0
8700	3.938	106.614	8683.42	-138.8	465.16	-92.7	0
8800	3.938	106.614	8783.18	-140.76	471.74	-94.01	0
8900	3.938	106.614	8882.94	-142.72	478.32	-95.33	0
9000	3.938	106.614	8982.71	-144.69	484.9	-96.64	0
9100	3.938	106.614	9082.47	-146.65	491.48	-97.95	0
9200	3.938	106.614	9182.24	-148.61	498.06	-99.26	0
9300	3.938	106.614	9282	-150.58	504.64	-100.57	0
9400	3.938	106.614	9381.76	-152.54	511.22	-101.88	0
9456.06	3.938	106.614	9437.7	-153.64	514.91	-102.62	0
9500	3.279	106.614	9481.54	-154.43	517.56	-103.15	1.5
9600	1.779	106.614	9581.44	-155.69	521.79	-103.99	1.5
9700	0.279	106.614	9681.43	-156.21	523.51	-104.33	1.5
9718.58	0	0.005	9700	-156.22	523.55	-104.34	1.5
9800	0	0	9781.42	-156.22	523.55	-104.34	0
9900	0	0	9881.42	-156.22	523.55	-104.34	0
10000	0	0	9981.42	-156.22	523.55	-104.34	0
10019.75	0	0.005	10001.17	-156.22	523.55	-104.34	0
10025	0.631	359.707	10006.42	-156.19	523.55	-104.31	12
10050	3.631	359.707	10031.4	-155.26	523.55	-103.39	12
10075	6.631	359.707	10056.3	-153.03	523.53	-101.16	12
10100	9.631	359.707	10081.05	-149.49	523.52	-97.65	12
10125	12.631	359.707	10105.57	-144.67	523.49	-92.85	12
10150	15.631	359.707	10129.82	-138.56	523.46	-86.78	12
10175	18.631	359.707	10153.7	-131.2	523.42	-79.45	12
10200	21.631	359.707	10177.17	-122.6	523.38	-70.9	12
10225	24.631	359.707	10200.16	-112.78	523.33	-61.13	12
10250	27.631	359.707	10222.6	-101.77	523.27	-50.18	12
10275	30.631	359.707	10244.44	-89.6	523.21	-38.07	12
10300	33.631	359.707	10265.61	-76.31	523.14	-24.85	12
10325	36.631	359.707	10286.05	-61.92	523.07	-10.54	12
10350	39.631	359.707	10305.71	-46.49	522.99	4.81	12
10375	42.631	359.707	10324.54	-30.04	522.91	21.17	12
10400	45.631	359.707	10342.48	-12.64	522.82	38.48	12
10425	48.631	359.707	10359.49	5.68	522.72	56.71	12
10450	51.631	359.707	10375.51	24.87	522.63	75.79	12
10475	54.631	359.707	10390.51	44.86	522.52	95.68	12
10500	57.631	359.707	10404.44	65.62	522.42	116.33	12
10525	60.631	359.707	10417.27	87.07	522.31	137.67	12

10550	63.631	359.707	10428.95	109.17	522.2	159.65	12
10575	66.631	359.707	10439.47	131.85	522.08	182.21	12
10600	69.631	359.707	10448.78	155.05	521.96	205.28	12
10625	72.631	359.707	10456.86	178.7	521.84	228.81	12
10650	75.631	359.707	10463.7	202.75	521.72	252.73	12
10675	78.631	359.707	10469.27	227.12	521.59	276.97	12
10700	81.631	359.707	10473.55	251.74	521.47	301.47	12
10725	84.631	359.707	10476.54	276.56	521.34	326.15	12
10750	87.631	359.707	10478.23	301.5	521.21	350.96	12
10772.99	90.39	359.707	10478.62	324.49	521.1	373.83	12
10800	90.39	359.707	10478.44	351.49	520.96	400.69	0
10900	90.39	359.707	10477.76	451.49	520.45	500.16	0
11000	90.39	359.707	10477.08	551.49	519.94	599.63	0
11100	90.39	359.707	10476.4	651.48	519.43	699.1	0
11200	90.39	359.707	10475.72	751.48	518.92	798.57	0
11300	90.39	359.707	10475.04	851.47	518.41	898.03	0
11400	90.39	359.707	10474.36	951.47	517.89	997.5	0
11500	90.39	359.707	10473.68	1051.47	517.38	1096.97	0
11600	90.39	359.707	10473	1151.46	516.87	1196.44	0
11700	90.39	359.707	10472.32	1251.46	516.36	1295.91	0
11800	90.39	359.707	10471.64	1351.46	515.85	1395.38	0
11900	90.39	359.707	10470.96	1451.45	515.34	1494.84	0
12000	90.39	359.707	10470.28	1551.45	514.83	1594.31	0
12100	90.39	359.707	10469.6	1651.45	514.32	1693.78	0
12200	90.39	359.707	10468.92	1751.44	513.81	1793.25	0
12300	90.39	359.707	10468.24	1851.44	513.3	1892.72	0
12400	90.39	359.707	10467.56	1951.43	512.79	1992.19	0
12500	90.39	359.707	10466.88	2051.43	512.28	2091.66	0
12600	90.39	359.707	10466.2	2151.43	511.77	2191.12	0
12700	90.39	359.707	10465.52	2251.42	511.26	2290.59	0
12800	90.39	359.707	10464.84	2351.42	510.75	2390.06	0
12900	90.39	359.707	10464.16	2451.42	510.24	2489.53	0
13000	90.39	359.707	10463.48	2551.41	509.73	2589	0
13100	90.39	359.707	10462.8	2651.41	509.22	2688.47	0
13200	90.39	359.707	10462.12	2751.41	508.7	2787.93	0
13300	90.39	359.707	10461.44	2851.4	508.19	2887.4	0
13400	90.39	359.707	10460.76	2951.4	507.68	2986.87	0
13500	90.39	359.707	10460.08	3051.39	507.17	3086.34	0
13600	90.39	359.707	10459.4	3151.39	506.66	3185.81	0
13700	90.39	359.707	10458.72	3251.39	506.15	3285.28	0
13800	90.39	359.707	10458.04	3351.38	505.64	3384.75	0
13900	90.39	359.707	10457.36	3451.38	505.13	3484.21	0
14000	90.39	359.707	10456.68	3551.38	504.62	3583.68	0
14100	90.39	359.707	10455.99	3651.37	504.11	3683.15	0
14200	90.39	359.707	10455.31	3751.37	503.6	3782.62	0
14300	90.39	359.707	10454.63	3851.37	503.09	3882.09	0
14400	90.39	359.707	10453.95	3951.36	502.58	3981.56	0

14500	90.39	359.707	10453.27	4051.36	502.07	4081.02	0
14600	90.39	359.707	10452.59	4151.36	501.56	4180.49	0
14700	90.39	359.707	10451.91	4251.35	501.05	4279.96	0
14800	90.39	359.707	10451.23	4351.35	500.54	4379.43	0
14900	90.39	359.707	10450.55	4451.34	500.03	4478.9	0
15000	90.39	359.707	10449.87	4551.34	499.51	4578.37	0
15100	90.39	359.707	10449.19	4651.34	499	4677.84	0
15200	90.39	359.707	10448.51	4751.33	498.49	4777.3	0
15300	90.39	359.707	10447.83	4851.33	497.98	4876.77	0
15400	90.39	359.707	10447.15	4951.33	497.47	4976.24	0
15500	90.39	359.707	10446.47	5051.32	496.96	5075.71	0
15512.18	90.39	359.707	10446.39	5063.5	496.9	5087.82	0

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to 3508+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 5.605- (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 15512.18ft.,
the Bottom Hole Displacement is 5087.82ft., in the Direction of 5.605- (Grid).