

Company:		Matador Production Company										
Well Name:		Tony LaRussa State COM #201H										
Location:		Eddy County, NM										
Rig:		Patterson #282					Magnetic Declination:		7.14		REFERENCED TO GRID NORTH	
Job Number:		MSMO-66422										
API #:		30-015-45964										
Vertical Section Azimuth:			180.77			Proposed Direction:		180.77				
Survey Calculation Method:			Minimum Curvature									
PTB:	MD		INC		AZM	TVD	N/S	E/W		VS		
	13,876		89.6		174.9	9124.02	-4809.46	-350.35		4813.74		
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'	
TIE IN	0	0.00	0.00	0.00	0.00	0.00		0.00				
1	140	0.20	337.20	140.00	0.23	-0.09	-0.22	0.24	337.20	0.14	0.14	
2	325	0.20	341.50	325.00	0.83	-0.32	-0.82	0.89	338.76	0.01	0.00	
3	500	0.50	289.80	500.00	1.38	-1.14	-1.36	1.79	320.45	0.23	0.17	
4	684	0.50	288.50	683.99	1.90	-2.65	-1.87	3.27	305.65	0.01	0.00	
5	868	0.50	274.20	867.98	2.22	-4.22	-2.16	4.76	297.74	0.07	0.00	
6	1,056	0.30	237.30	1055.98	2.01	-5.45	-1.94	5.81	290.27	0.17	-0.11	
7	1,245	0.30	267.90	1244.97	1.73	-6.36	-1.64	6.59	285.19	0.08	0.00	
8	1,433	0.30	199.00	1432.97	1.24	-7.01	-1.15	7.12	280.05	0.18	0.00	
9	1,622	1.50	112.00	1621.95	-0.15	-4.88	0.22	4.88	268.22	0.80	0.63	
10	1,810	2.40	104.30	1809.84	-2.05	1.22	2.03	2.38	149.25	0.50	0.48	
11	1,998	3.90	92.00	1997.55	-3.24	11.42	3.09	11.87	105.84	0.87	0.80	
12	2,188	3.30	91.10	2187.18	-3.57	23.35	3.26	23.62	98.70	0.32	-0.32	
13	2,340	2.80	90.20	2338.96	-3.67	31.43	3.25	31.65	96.66	0.33	-0.33	
14	2,478	1.60	93.40	2476.86	-3.79	36.73	3.30	36.92	95.90	0.87	-0.87	
15	2,667	1.80	302.20	2665.82	-2.37	36.85	1.87	36.93	93.68	1.74	0.11	
16	2,856	6.70	293.30	2854.25	3.58	24.20	-3.90	24.47	81.59	2.61	2.59	
17	3,039	6.10	292.10	3036.11	11.46	5.39	-11.53	12.66	25.19	0.34	-0.33	
18	3,228	5.80	290.70	3224.09	18.61	-12.85	-18.44	22.62	325.38	0.18	-0.16	
19	3,417	7.30	295.60	3411.85	27.18	-32.61	-26.74	42.45	309.81	0.85	0.79	
20	3,605	6.50	294.60	3598.49	36.77	-53.06	-36.05	64.55	304.72	0.43	-0.43	
21	3,794	8.00	298.90	3785.97	47.58	-74.30	-46.57	88.23	302.63	0.84	0.79	
22	3,983	7.70	298.10	3973.20	59.90	-96.98	-58.59	113.99	301.70	0.17	-0.16	
23	4,172	6.50	294.40	4160.75	70.28	-117.90	-68.69	137.25	300.80	0.68	-0.63	
24	4,361	7.50	301.70	4348.34	81.18	-138.13	-79.32	160.22	300.44	0.71	0.53	
25	4,550	6.40	298.80	4535.95	92.74	-157.86	-90.61	183.08	300.43	0.61	-0.58	
26	4,739	7.70	303.70	4723.52	104.84	-177.63	-102.44	206.26	300.55	0.76	0.69	
27	4,927	6.60	302.30	4910.06	117.60	-197.24	-114.94	229.63	300.81	0.59	-0.59	
28	5,114	8.20	296.30	5095.50	129.25	-218.28	-126.31	253.68	300.63	0.95	0.86	
29	5,303	6.60	293.40	5282.92	139.54	-240.33	-136.30	277.90	300.14	0.87	-0.85	
30	5,492	7.40	300.20	5470.51	149.98	-260.82	-146.46	300.86	299.90	0.61	0.42	
31	5,682	5.80	299.30	5659.24	160.83	-279.77	-157.06	322.70	299.89	0.84	-0.84	
32	5,869	5.20	298.90	5845.38	169.55	-295.43	-165.56	340.62	299.85	0.32	-0.32	
33	6,058	4.40	318.20	6033.73	179.09	-307.76	-174.94	356.07	300.20	0.95	-0.42	

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Survey Calculation Method:					Minimum Curvature									
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	13,876		89.6		174.9		9124.02		-4809.46		-350.35		4813.74	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
34	6,246	0.60	15.10	6221.53	185.42	-312.31	-181.21	363.21	300.70	2.18	-2.02			
35	6,435	0.80	5.60	6410.51	187.69	-311.92	-183.48	364.04	301.04	0.12	0.11			
36	6,622	0.90	358.80	6597.49	190.46	-311.83	-186.25	365.39	301.42	0.08	0.05			
37	6,809	0.50	279.50	6784.48	192.06	-312.66	-187.84	366.94	301.56	0.51	-0.21			
38	6,997	1.40	260.80	6972.46	191.83	-315.74	-187.57	369.44	301.28	0.50	0.48			
39	7,185	0.30	28.80	7160.44	191.89	-317.77	-187.61	371.21	301.13	0.85	-0.59			
40	7,374	0.10	266.20	7349.44	192.32	-317.69	-188.03	371.37	301.19	0.19	-0.11			
41	7,561	1.80	82.60	7536.41	192.68	-314.94	-188.43	369.21	301.46	1.02	0.91			
42	7,750	0.50	121.30	7725.37	192.64	-311.30	-188.44	366.08	301.75	0.76	-0.69			
43	7,938	2.00	103.20	7913.32	191.46	-307.40	-187.31	362.15	301.92	0.82	0.80			
44	8,126	1.50	139.00	8101.24	188.86	-302.59	-184.77	356.69	301.97	0.63	-0.27			
45	8,314	3.50	197.80	8289.07	181.53	-302.73	-177.45	352.99	300.95	1.60	1.06			
46	8,503	1.30	204.20	8477.89	174.08	-305.38	-169.96	351.51	299.69	1.17	-1.16			
47	8,602	6.70	175.70	8576.62	167.30	-305.40	-163.18	348.22	298.71	5.65	5.45			
48	8,697	19.20	170.70	8669.02	146.27	-302.45	-142.19	335.96	295.81	13.20	13.16			
49	8,791	21.40	168.90	8757.18	114.18	-296.65	-110.19	317.87	291.05	2.43	2.34			
50	8,839	26.60	174.90	8801.02	94.87	-294.01	-90.91	308.93	287.88	11.95	10.83			
51	8,886	30.40	175.80	8842.32	72.52	-292.20	-68.59	301.07	283.94	8.14	8.09			
52	8,933	36.30	177.20	8881.56	46.74	-290.65	-42.83	294.38	279.14	12.66	12.55			
53	8,979	41.50	178.00	8917.35	17.89	-289.45	-14.00	290.00	273.54	11.36	11.30			
54	9,074	50.10	177.20	8983.52	-50.09	-286.57	53.94	290.91	260.09	9.07	9.05			
55	9,168	57.10	178.70	9039.27	-125.65	-283.91	129.46	310.47	246.13	7.56	7.45			
56	9,263	64.20	179.70	9085.80	-208.39	-282.78	212.18	351.27	233.61	7.53	7.47			
57	9,338	76.10	182.10	9111.23	-278.80	-283.94	282.59	397.93	225.52	16.15	15.87			
58	9,390	82.60	182.50	9120.83	-329.83	-285.99	333.65	436.55	220.93	12.52	12.50			
59	9,484	86.50	181.40	9129.76	-423.33	-289.17	427.18	512.67	214.34	4.31	4.15			
60	9,578	90.10	182.20	9132.55	-517.23	-292.12	521.11	594.02	209.46	3.92	3.83			
61	9,673	91.50	182.20	9131.22	-612.15	-295.77	616.07	679.86	205.79	1.47	1.47			
62	9,767	92.30	182.90	9128.10	-706.00	-299.95	709.97	767.08	203.02	1.13	0.85			
63	9,861	93.00	183.80	9123.76	-799.74	-305.43	803.77	856.08	200.90	1.21	0.74			
64	9,955	90.60	180.70	9120.80	-893.60	-309.12	897.68	945.56	199.08	4.17	-2.55			
65	10,050	90.70	180.20	9119.73	-988.59	-309.87	992.67	1036.02	197.40	0.54	0.11			
66	10,144	90.70	180.70	9118.58	-1082.58	-310.60	1086.66	1126.26	196.01	0.53	0.00			
67	10,238	91.00	181.10	9117.18	-1176.56	-312.08	1180.65	1217.25	194.86	0.53	0.32			

7/25/24/02

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Survey Calculation Method:			Minimum Curvature									
PTB:	MD		INC		AZM	TVD	N/S	E/W		VS		
	13,876		89.6		174.9	9124.02	-4809.46	-350.35		4813.74		
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'	
68	10,333	90.70	181.80	9115.78	-1271.52	-314.48	1275.63	1309.83	193.89	0.80	-0.32	
69	10,427	92.20	182.30	9113.40	-1365.43	-317.85	1369.57	1401.93	193.10	1.68	1.60	
70	10,521	92.90	182.80	9109.21	-1459.24	-322.02	1463.43	1494.35	192.44	0.91	0.74	
71	10,615	90.00	181.90	9106.84	-1553.12	-325.88	1557.36	1586.94	191.85	3.23	-3.09	
72	10,710	85.60	179.30	9110.48	-1648.01	-326.87	1652.26	1680.12	191.22	5.38	-4.63	
73	10,804	87.70	178.30	9115.98	-1741.82	-324.91	1746.03	1771.87	190.57	2.47	2.23	
74	10,899	91.70	178.40	9116.47	-1836.76	-322.17	1840.93	1864.80	189.95	4.21	4.21	
75	10,993	92.00	178.90	9113.44	-1930.69	-319.96	1934.81	1957.02	189.41	0.62	0.32	
76	11,088	87.20	179.00	9114.10	-2025.64	-318.22	2029.74	2050.49	188.93	5.05	-5.05	
77	11,182	89.20	177.90	9117.05	-2119.56	-315.68	2123.61	2142.93	188.47	2.43	2.13	
78	11,276	89.40	178.30	9118.20	-2213.50	-312.56	2217.50	2235.46	188.04	0.48	0.21	
79	11,371	89.90	178.50	9118.78	-2308.46	-309.91	2312.41	2329.17	187.65	0.57	0.53	
80	11,465	91.40	179.10	9117.72	-2402.43	-307.94	2406.35	2422.08	187.30	1.72	1.60	
81	11,559	91.60	179.80	9115.26	-2496.39	-307.04	2500.29	2515.20	187.01	0.77	0.21	
82	11,654	88.90	179.40	9114.84	-2591.38	-306.37	2595.26	2609.43	186.74	2.87	-2.84	
83	11,748	88.30	179.90	9117.14	-2685.35	-305.80	2689.21	2702.70	186.50	0.83	-0.64	
84	11,842	90.20	179.90	9118.37	-2779.33	-305.64	2783.19	2796.09	186.28	2.02	2.02	
85	11,937	89.90	180.10	9118.28	-2874.33	-305.64	2878.18	2890.54	186.07	0.38	-0.32	
86	12,031	91.10	181.10	9117.46	-2968.32	-306.62	2972.18	2984.12	185.90	1.66	1.28	
87	12,125	90.60	181.10	9116.07	-3062.30	-308.42	3066.16	3077.79	185.75	0.53	-0.53	
88	12,220	91.20	182.10	9114.58	-3157.24	-311.08	3161.14	3172.53	185.63	1.23	0.63	
89	12,314	90.10	182.50	9113.51	-3251.16	-314.85	3255.10	3266.37	185.53	1.25	-1.17	
90	12,408	91.60	184.00	9112.12	-3344.99	-320.18	3349.00	3360.28	185.47	2.26	1.60	
91	12,502	91.60	184.30	9109.49	-3438.71	-326.98	3442.79	3454.22	185.43	0.32	0.00	
92	12,597	89.30	184.70	9108.75	-3533.41	-334.43	3537.58	3549.20	185.41	2.46	-2.42	
93	12,691	89.10	184.70	9110.06	-3627.08	-342.13	3631.35	3643.18	185.39	0.21	-0.21	
94	12,786	89.10	184.90	9111.55	-3721.74	-350.08	3726.11	3738.17	185.37	0.21	0.00	
95	12,880	87.90	184.40	9114.01	-3815.40	-357.70	3819.86	3832.13	185.36	1.38	-1.28	
96	12,974	89.30	185.00	9116.31	-3909.05	-365.40	3913.61	3926.09	185.34	1.62	1.49	
97	13,088	88.90	184.20	9118.10	-4022.67	-374.54	4027.34	4040.06	185.32	0.78	-0.35	
98	13,182	86.30	179.40	9122.04	-4116.50	-377.49	4121.20	4133.77	185.24	5.80	-2.77	
99	13,276	87.70	177.70	9126.96	-4210.34	-375.11	4215.00	4227.01	185.09	2.34	1.49	
100	13,370	90.70	179.60	9128.27	-4304.29	-372.90	4308.91	4320.41	184.95	3.78	3.19	
101	13,464	92.10	180.50	9125.97	-4398.26	-372.98	4402.87	4414.04	184.85	1.77	1.49	

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V09.04.02

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	13,876	89.6	174.9	9124.02	-4809.46	-350.35	4813.74				
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'
102	13,559	90.20	177.70	9124.07	-4493.21	-371.49	4497.80	4508.54	184.73	3.56	-2.00
103	13,653	90.00	176.70	9123.90	-4587.10	-366.90	4591.61	4601.75	184.57	1.08	-0.21
104	13,747	90.40	176.20	9123.57	-4680.92	-361.08	4685.35	4694.82	184.41	0.68	0.43
105	13,812	89.60	174.90	9123.57	-4745.72	-356.04	4750.07	4759.05	184.29	2.35	-1.23
PTB:	13,876	89.60	174.90	9124.02	-4809.46	-350.35	4813.74	4822.21	184.17	0.00	0.00