

30-015-43936



PHOENIX

TECHNOLOGY SERVICES

Job Number: 60835
 Company: Chevron
 Lease/Well: HH SO 10 P3 7H
 Location: Eddie County
 Rig Name: Patterson 270
 RKB:
 G.L. or M.S.L.:

State/Country: NM/US
 Declination:
 Grid:
 File name: C:\WINSERVE\CHEVRO~1\460835.SVY
 Date/Time: 27-Aug-17 / 16:20
 Curve Name: HH SO 10 P3 7H Surveys

Phoenix Technology Services

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 179.50
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

NM OIL CONSERVATION
 ARTESIA DISTRICT

JUL 03 2018

RECEIVED

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
466.00	2.50	202.40	465.69	-14.11	-6.83	14.05	15.68	205.83	.00
619.00	4.64	215.42	618.39	-22.24	-11.69	22.14	25.12	207.73	1.49
773.00	7.61	220.95	771.49	-35.02	-21.98	34.83	41.35	212.12	1.96
865.00	7.19	209.71	862.73	-44.62	-28.83	44.37	53.13	212.87	1.64
961.00	5.32	185.47	958.17	-54.27	-32.23	53.99	63.12	210.71	3.33
1055.00	3.26	146.92	1051.92	-60.85	-31.19	60.58	68.38	207.14	3.65
1151.00	.63	58.22	1147.87	-62.86	-29.25	62.60	69.33	204.95	3.44
1246.00	2.41	347.30	1242.83	-60.64	-29.25	60.38	67.32	205.75	2.40
1341.00	1.99	353.01	1337.76	-57.05	-29.89	56.79	64.41	207.65	.50
1436.00	1.48	352.29	1432.72	-54.20	-30.25	53.93	62.07	209.17	.54
1531.00	1.28	343.34	1527.69	-51.97	-30.72	51.70	60.37	210.59	.31
1626.00	1.62	8.94	1622.66	-49.62	-30.82	49.35	58.41	211.84	.76
1720.00	2.29	46.68	1716.61	-47.02	-29.24	46.77	55.37	211.88	1.50
1814.00	2.86	58.45	1810.52	-44.51	-25.88	44.28	51.48	210.17	.82
1909.00	3.91	73.39	1905.35	-42.34	-20.75	42.16	47.15	206.11	1.43
2004.00	3.56	88.33	2000.15	-41.33	-14.70	41.20	43.87	199.58	1.08
2098.00	3.59	93.59	2093.97	-41.43	-8.85	41.35	42.36	192.05	.35
2193.00	2.61	129.66	2188.84	-43.00	-4.21	42.96	43.20	185.60	2.25
2288.00	3.47	206.00	2283.74	-46.96	-3.81	46.93	47.12	184.64	4.02
2383.00	5.81	224.64	2378.42	-52.97	-8.45	52.89	53.64	189.06	2.90
2477.00	7.59	228.27	2471.78	-60.49	-16.42	60.34	62.68	195.19	1.95
2573.00	8.55	218.14	2566.83	-70.32	-25.56	70.09	74.82	199.98	1.78
2668.00	8.26	200.41	2660.83	-82.27	-32.31	81.99	88.39	201.44	2.73
2763.00	7.05	188.03	2754.98	-94.44	-35.50	94.13	100.89	200.60	2.15
2858.00	5.48	185.99	2849.41	-104.73	-36.79	104.40	111.00	199.36	1.67

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2953.00	6.37	187.39	2943.91	-114.46	-37.94	114.13	120.59	198.34	.95
3049.00	8.10	188.99	3039.14	-126.43	-39.68	126.08	132.51	197.43	1.81
3144.00	8.23	187.22	3133.18	-139.78	-41.58	139.41	145.84	196.57	.30
3239.00	5.65	184.90	3227.47	-151.19	-42.84	150.81	157.14	195.82	2.73
3334.00	4.33	179.73	3322.11	-159.44	-43.22	159.05	165.19	195.17	1.47
3429.00	5.24	179.60	3416.78	-167.36	-43.17	166.98	172.84	194.46	.96
3524.00	6.91	177.31	3511.24	-177.41	-42.87	177.03	182.51	193.59	1.78
3619.00	6.98	182.69	3605.54	-188.88	-42.88	188.50	193.69	192.79	.69
3713.00	6.87	186.58	3698.86	-200.17	-43.79	199.78	204.91	192.34	.51
3807.00	8.60	186.81	3792.00	-212.74	-45.27	212.33	217.50	192.01	1.84
3901.00	9.06	180.02	3884.89	-227.12	-46.10	226.71	231.75	191.47	1.21
3996.00	7.01	167.98	3978.96	-240.27	-44.90	239.87	244.43	190.58	2.78
4091.00	5.68	154.34	4073.38	-250.18	-41.65	249.80	253.62	189.45	2.11
4186.00	4.83	164.57	4167.98	-258.27	-38.55	257.92	261.13	188.49	1.33
4280.00	3.70	203.10	4261.74	-264.88	-38.69	264.53	267.69	188.31	3.20
4375.00	4.39	237.99	4356.51	-269.62	-42.98	269.24	273.03	189.06	2.64
4469.00	6.14	238.41	4450.11	-274.16	-50.31	273.72	278.74	190.40	1.86
4563.00	5.76	228.40	4543.61	-279.93	-58.12	279.41	285.90	191.73	1.17
4658.00	5.36	218.78	4638.17	-286.55	-64.46	285.98	293.72	192.68	1.07
4752.00	6.40	212.00	4731.67	-294.42	-69.99	293.80	302.62	193.37	1.33
4846.00	7.30	205.29	4825.00	-304.26	-75.32	303.59	313.45	193.90	1.28
4940.00	8.08	204.28	4918.15	-315.68	-80.59	314.97	325.81	194.32	.84
5034.00	7.59	200.45	5011.28	-327.52	-85.47	326.76	338.49	194.63	.76
5129.00	5.38	197.80	5105.66	-337.64	-89.03	336.85	349.18	194.77	2.35
5224.00	2.55	181.71	5200.43	-344.00	-90.45	343.20	355.69	194.73	3.17
5319.00	1.82	100.36	5295.38	-346.38	-89.03	345.59	357.64	194.41	3.05
5414.00	3.63	78.15	5390.27	-346.04	-84.60	345.28	356.23	193.74	2.17
5509.00	4.68	74.11	5485.02	-344.36	-77.93	343.66	353.06	192.75	1.15
5604.00	6.03	69.63	5579.60	-341.56	-69.52	340.94	348.56	191.51	1.49
5698.00	7.29	70.07	5672.97	-337.81	-59.29	337.28	342.97	189.95	1.34
5793.00	7.94	70.92	5767.13	-333.61	-47.42	333.18	336.96	188.09	.69
5888.00	6.42	76.53	5861.38	-330.23	-36.05	329.90	332.19	186.23	1.76
5982.00	4.17	89.75	5954.98	-328.99	-27.53	328.73	330.14	184.78	2.71
6076.00	3.17	91.44	6048.78	-329.04	-21.51	328.84	329.74	183.74	1.07
6171.00	1.75	82.47	6143.69	-328.91	-17.44	328.75	329.37	183.04	1.54
6266.00	.89	92.42	6238.67	-328.75	-15.27	328.61	329.11	182.66	.93
6361.00	.51	116.56	6333.66	-328.97	-14.15	328.84	329.28	182.46	.50
6455.00	.56	155.83	6427.66	-329.58	-13.59	329.45	329.86	182.36	.39
6550.00	.83	185.69	6522.65	-330.69	-13.47	330.56	330.96	182.33	.47
6644.00	1.40	178.04	6616.63	-332.51	-13.50	332.38	332.79	182.32	.63
6739.00	1.68	166.48	6711.60	-335.03	-13.13	334.90	335.28	182.24	.44
6834.00	1.50	159.60	6806.56	-337.55	-12.37	337.43	337.77	182.10	.28
6929.00	1.28	159.93	6901.53	-339.71	-11.58	339.59	339.91	181.95	.23
7024.00	1.07	165.79	6996.51	-341.56	-10.99	341.46	341.74	181.84	.25
7118.00	.90	171.55	7090.50	-343.15	-10.67	343.04	343.31	181.78	.21

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
7213.00	.90	181.88	7185.49	-344.63	-10.59	344.52	344.79	181.76	.17
7307.00	.93	195.18	7279.48	-346.10	-10.81	346.00	346.27	181.79	.23
7402.00	.99	233.33	7374.46	-347.34	-11.67	347.22	347.53	181.92	.66
7497.00	1.32	228.42	7469.44	-348.55	-13.15	348.43	348.80	182.16	.36
7592.00	1.47	228.80	7564.42	-350.08	-14.88	349.94	350.40	182.43	.16
7687.00	1.91	218.62	7659.37	-352.12	-16.79	351.96	352.52	182.73	.56
7782.00	2.04	210.08	7754.32	-354.82	-18.62	354.65	355.31	183.00	.34
7877.00	2.04	206.18	7849.26	-357.80	-20.22	357.61	358.37	183.23	.15
7972.00	2.00	210.28	7944.20	-360.75	-21.80	360.55	361.41	183.46	.16
8067.00	1.69	219.85	8039.15	-363.26	-23.53	363.04	364.02	183.71	.46
8162.00	1.40	245.07	8134.12	-364.82	-25.48	364.59	365.71	184.00	.77
8257.00	1.43	243.34	8229.09	-365.85	-27.59	365.59	366.88	184.31	.05
8351.00	1.22	256.59	8323.06	-366.60	-29.61	366.33	367.80	184.62	.39
8446.00	1.19	247.18	8418.04	-367.22	-31.51	366.93	368.57	184.90	.21
8541.00	1.46	242.00	8513.02	-368.17	-33.49	367.87	369.69	185.20	.31
8636.00	1.35	237.45	8607.99	-369.34	-35.50	369.02	371.04	185.49	.16
8731.00	1.38	250.05	8702.96	-370.33	-37.52	369.99	372.23	185.78	.32
8826.00	1.37	241.50	8797.93	-371.27	-39.59	370.91	373.37	186.09	.22
8921.00	1.34	253.79	8892.91	-372.12	-41.65	371.74	374.44	186.39	.31
9015.00	1.34	254.68	8986.88	-372.72	-43.77	372.32	375.28	186.70	.02
9110.00	1.15	249.98	9081.86	-373.34	-45.74	372.92	376.13	186.98	.23
9205.00	1.00	253.93	9176.84	-373.89	-47.43	373.46	376.89	187.23	.18
9265.00	.94	256.18	9236.83	-374.15	-48.41	373.72	377.27	187.37	.12
9448.00	8.69	181.42	9419.10	-388.36	-50.21	387.91	391.59	187.37	4.64
9543.00	18.53	181.39	9511.32	-410.68	-50.76	410.22	413.80	187.05	10.36
9637.00	28.43	180.76	9597.43	-448.08	-51.42	447.61	451.02	186.55	10.54
9732.00	34.35	175.70	9678.51	-497.47	-49.71	497.02	499.95	185.71	6.82
9826.00	42.25	179.15	9752.23	-555.61	-47.25	555.18	557.62	184.86	8.70
9921.00	52.51	182.03	9816.48	-625.41	-48.11	624.96	627.25	184.40	11.03
10016.00	64.38	179.93	9866.11	-706.20	-49.40	705.74	707.92	184.00	12.63
10111.00	76.81	178.17	9897.61	-795.61	-47.86	795.16	797.05	183.44	13.20
10205.00	83.33	178.38	9913.81	-888.11	-45.08	887.68	889.25	182.91	6.94
10300.00	84.96	178.69	9923.50	-982.58	-42.66	982.17	983.50	182.49	1.75
10395.00	85.68	178.02	9931.25	-1077.22	-39.94	1076.83	1077.96	182.12	1.03
10490.00	86.76	177.77	9937.52	-1171.95	-36.46	1171.58	1172.51	181.78	1.17
10585.00	89.46	179.44	9940.65	-1266.86	-34.15	1266.51	1267.32	181.54	3.34
10680.00	93.28	181.88	9938.38	-1361.80	-35.24	1361.44	1362.25	181.48	4.77
10774.00	90.28	178.74	9935.46	-1455.73	-35.75	1455.36	1456.17	181.41	4.62
10869.00	91.60	177.92	9933.90	-1550.67	-32.98	1550.33	1551.02	181.22	1.64
10964.00	90.61	176.67	9932.07	-1645.55	-28.50	1645.23	1645.79	180.99	1.68
11056.00	90.99	177.55	9930.78	-1737.42	-23.86	1737.14	1737.58	180.79	1.04
11149.00	88.07	179.70	9931.54	-1830.37	-21.63	1830.11	1830.50	180.68	3.90
11241.00	93.28	181.75	9930.46	-1922.32	-22.79	1922.05	1922.46	180.68	6.09
11333.00	86.48	182.41	9930.65	-2014.21	-26.13	2013.90	2014.38	180.74	7.43
11426.00	87.06	182.74	9935.89	-2106.97	-30.30	2106.62	2107.18	180.82	.72

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
11519.00	87.87	182.93	9940.01	-2199.76	-34.90	2199.37	2200.04	180.91	.89
11612.00	85.54	181.78	9945.35	-2292.52	-38.71	2292.09	2292.85	180.97	2.79
11706.00	87.81	180.79	9950.80	-2386.33	-40.82	2385.88	2386.68	180.98	2.63
11801.00	94.05	184.30	9949.26	-2481.16	-45.03	2480.68	2481.57	181.04	7.54
11896.00	85.79	181.42	9949.39	-2575.95	-49.76	2575.42	2576.43	181.11	9.21
11989.00	85.67	180.81	9956.32	-2668.68	-51.57	2668.12	2669.17	181.11	.67
12084.00	85.32	180.38	9963.78	-2763.38	-52.55	2762.81	2763.88	181.09	.58
12179.00	83.60	178.30	9972.95	-2857.92	-51.47	2857.36	2858.38	181.03	2.83
12274.00	89.12	177.90	9978.98	-2952.64	-48.32	2952.10	2953.03	180.94	5.83
12369.00	90.44	177.28	9979.35	-3047.55	-44.33	3047.05	3047.87	180.83	1.54
12464.00	88.97	175.61	9979.84	-3142.36	-38.44	3141.91	3142.60	180.70	2.34
12558.00	88.77	174.43	9981.69	-3235.99	-30.28	3235.60	3236.13	180.54	1.27
12653.00	88.88	174.85	9983.64	-3330.55	-21.41	3330.24	3330.62	180.37	.46
12748.00	87.69	174.37	9986.48	-3425.09	-12.49	3424.85	3425.11	180.21	1.35
12843.00	88.16	174.92	9989.92	-3519.61	-3.63	3519.44	3519.61	180.06	.76
12952.00	86.95	177.01	9994.57	-3628.23	4.03	3628.13	3628.23	179.94	2.21
13047.00	86.15	175.79	10000.29	-3722.87	9.99	3722.81	3722.88	179.85	1.53
13142.00	85.80	175.20	10006.96	-3817.34	17.43	3817.35	3817.38	179.74	.72
13237.00	87.52	177.06	10012.49	-3911.96	23.83	3912.02	3912.03	179.65	2.66
13331.00	86.59	176.53	10017.32	-4005.68	29.08	4005.79	4005.79	179.58	1.14
13426.00	86.95	177.20	10022.67	-4100.39	34.27	4100.53	4100.53	179.52	.80
13521.00	87.86	177.16	10026.97	-4195.18	38.93	4195.36	4195.36	179.47	.96
13615.00	87.50	176.58	10030.78	-4288.96	44.06	4289.18	4289.19	179.41	.73
13710.00	86.66	177.90	10035.62	-4383.72	48.63	4383.98	4383.99	179.36	1.65
13805.00	91.31	180.22	10037.30	-4478.66	50.19	4478.93	4478.94	179.36	5.47
13900.00	91.48	180.23	10034.99	-4573.63	49.82	4573.89	4573.91	179.38	.18
13995.00	94.85	180.88	10029.75	-4668.47	48.90	4668.72	4668.73	179.40	3.61
14090.00	95.32	180.86	10021.33	-4763.09	47.46	4763.32	4763.32	179.43	.50
14185.00	93.29	180.82	10014.19	-4857.80	46.07	4858.02	4858.02	179.46	2.14
14281.00	89.63	180.24	10011.75	-4953.75	45.18	4953.96	4953.96	179.48	3.86
14376.00	85.00	176.51	10016.20	-5048.57	47.87	5048.79	5048.79	179.46	6.26
14471.00	83.91	177.66	10025.38	-5143.00	52.68	5143.26	5143.27	179.41	1.66
14566.00	83.28	178.45	10035.98	-5237.35	55.88	5237.64	5237.64	179.39	1.06
14661.00	84.89	179.76	10045.77	-5331.82	57.36	5332.12	5332.13	179.38	2.18
14756.00	88.46	177.98	10051.28	-5426.63	59.23	5426.94	5426.95	179.37	4.20
14851.00	90.03	177.76	10052.53	-5521.55	62.76	5521.89	5521.91	179.35	1.67
14945.00	92.52	177.47	10050.44	-5615.44	66.67	5615.81	5615.83	179.32	2.67
15040.00	93.60	177.89	10045.37	-5710.22	70.51	5710.62	5710.66	179.29	1.22
15134.00	96.07	178.21	10037.44	-5803.83	73.70	5804.25	5804.29	179.27	2.65
15229.00	94.66	178.64	10028.56	-5898.37	76.30	5898.81	5898.87	179.26	1.55
15324.00	93.69	177.24	10021.64	-5993.06	79.70	5993.52	5993.59	179.24	1.79
15418.00	94.48	177.12	10014.95	-6086.70	84.32	6087.21	6087.29	179.21	.85
15514.00	94.61	176.20	10007.34	-6182.24	89.89	6182.79	6182.89	179.17	.96
15609.00	94.32	178.09	9999.94	-6276.83	94.61	6277.41	6277.54	179.14	2.01
15704.00	96.17	180.00	9991.26	-6371.41	96.19	6372.00	6372.13	179.14	2.79

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
15798.00	98.53	180.37	9979.23	-6464.63	95.89	6465.22	6465.34	179.15	2.54
15814.00	98.73	180.12	9976.83	-6480.45	95.82	6481.04	6481.15	179.15	1.99
15908.00	97.73	181.66	9963.38	-6573.46	94.37	6574.04	6574.14	179.18	1.94
16003.00	97.16	185.76	9951.06	-6667.44	88.28	6667.96	6668.03	179.24	4.32
16097.00	95.28	184.98	9940.88	-6760.47	79.53	6760.91	6760.94	179.33	2.16
16192.00	93.25	183.24	9933.81	-6854.96	72.75	6855.33	6855.35	179.39	2.81
16287.00	93.52	183.71	9928.20	-6949.62	67.00	6949.94	6949.94	179.45	.57
16382.00	93.86	183.06	9922.09	-7044.26	61.40	7044.52	7044.52	179.50	.77
16477.00	92.20	181.71	9917.07	-7139.04	57.45	7139.27	7139.27	179.54	2.25
16572.00	88.90	181.31	9916.16	-7233.98	54.95	7234.19	7234.19	179.56	3.50
16667.00	87.81	178.90	9918.88	-7328.94	54.78	7329.14	7329.14	179.57	2.78
16762.00	89.61	180.33	9921.02	-7423.90	55.41	7424.11	7424.11	179.57	2.42
16857.00	89.53	179.74	9921.74	-7518.90	55.36	7519.10	7519.11	179.58	.63
16952.00	89.08	178.43	9922.89	-7613.88	56.87	7614.09	7614.09	179.57	1.46
17032.00	90.06	179.37	9923.49	-7693.86	58.41	7694.08	7694.08	179.57	1.70
17127.00	91.25	179.87	9922.40	-7788.85	59.04	7789.07	7789.07	179.57	1.36
17221.00	89.86	176.33	9921.49	-7882.78	62.15	7883.02	7883.02	179.55	4.05
17316.00	90.50	176.07	9921.19	-7977.57	68.45	7977.86	7977.86	179.51	.73
17411.00	91.17	177.75	9919.81	-8072.42	73.57	8072.75	8072.75	179.48	1.90
17506.00	90.37	179.58	9918.53	-8167.38	75.78	8167.73	8167.73	179.47	2.10
17601.00	90.53	180.04	9917.79	-8262.37	76.10	8262.72	8262.72	179.47	.51
17696.00	91.20	178.82	9916.35	-8357.35	77.04	8357.71	8357.71	179.47	1.46
17790.00	92.17	180.00	9913.59	-8451.31	78.01	8451.67	8451.67	179.47	1.62
17884.00	93.40	180.50	9909.02	-8545.19	77.60	8545.54	8545.54	179.48	1.41
17979.00	94.73	183.75	9902.28	-8639.87	74.09	8640.19	8640.19	179.51	3.69
18074.00	95.90	184.08	9893.48	-8734.24	67.63	8734.50	8734.50	179.56	1.28
18170.00	95.50	186.82	9883.95	-8829.33	58.56	8829.50	8829.52	179.62	2.87
18265.00	91.60	186.54	9878.07	-8923.48	47.53	8923.56	8923.61	179.69	4.12
18360.00	92.20	185.76	9874.92	-9017.88	37.36	9017.86	9017.96	179.76	1.04
18455.00	87.47	184.76	9875.19	-9112.45	28.65	9112.36	9112.50	179.82	5.09
18550.00	87.66	183.81	9879.23	-9207.10	21.56	9206.94	9207.13	179.87	1.02
18645.00	86.56	179.50	9884.02	-9301.92	18.82	9301.73	9301.94	179.88	4.68
18740.00	87.52	178.07	9888.92	-9396.77	20.83	9396.59	9396.79	179.87	1.81
18834.00	87.29	178.49	9893.18	-9490.63	23.65	9490.47	9490.66	179.86	.51
18930.00	87.03	177.36	9897.94	-9586.44	27.12	9586.32	9586.48	179.84	1.21
19025.00	88.22	176.87	9901.87	-9681.24	31.90	9681.15	9681.29	179.81	1.35
19120.00	89.24	175.99	9903.98	-9776.03	37.82	9775.99	9776.10	179.78	1.42
19215.00	89.16	175.88	9905.31	-9870.78	44.55	9870.79	9870.88	179.74	.14
19311.00	91.02	175.85	9905.16	-9966.53	51.47	9966.60	9966.66	179.70	1.94
19406.00	88.93	174.48	9905.20	-10061.18	59.48	10061.32	10061.36	179.66	2.63
19501.00	89.31	173.63	9906.66	-10155.66	69.32	10155.88	10155.90	179.61	.98
19596.00	91.44	173.02	9906.03	-10250.01	80.36	10250.32	10250.32	179.55	2.33
19692.00	92.35	173.41	9902.86	-10345.28	91.69	10345.69	10345.69	179.49	1.03
19787.00	89.65	173.54	9901.20	-10439.64	102.49	10440.14	10440.15	179.44	2.85
19881.00	90.82	173.54	9900.82	-10533.04	113.06	10533.63	10533.65	179.39	1.24

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
19976.00	92.37	172.46	9898.17	-10627.30	124.63	10627.98	10628.03	179.33	1.99
20071.00	93.59	172.73	9893.23	-10721.37	136.86	10722.16	10722.25	179.27	1.32
20165.00	95.54	171.94	9885.75	-10814.23	149.36	10815.12	10815.26	179.21	2.24
20260.00	95.54	172.11	9876.58	-10907.87	162.48	10908.88	10909.08	179.15	.18
Projection to TD									
20330.00	95.54	172.11	9869.82	-10976.89	172.04	10977.97	10978.24	179.10	.00

Company:		Matador Production Company										
Well Name:		Jimmy Kone 05-24S-28E RB 221H - Original Wellbore										
Location:		Eddy County, NM										
Rig:		Patterson #282					Magnetic Declination:		7.08		REFERENCED TO GRID NORTH	
Job Number:		DDMO-180128										
API #:		30-015-44595										
Vertical Section Azimuth:				269.89		Proposed Direction:		269.89				
Survey Calculation Method:				Minimum Curvature								
PTB:	MD		INC		AZM	TVD	N/S	E/W		VS		
	13,136		94		269.3	10514.66	444.86	-2624.6		2623.74		
#	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	202	0.60	266.10	202.00	-0.07	-1.06	1.06	1.06	266.10	0.30	0.30	
2	293	1.40	260.10	292.98	-0.30	-2.63	2.63	2.64	263.58	0.89	0.88	
3	384	0.20	265.70	383.97	-0.50	-3.88	3.88	3.91	262.68	1.32	-1.32	
4	473	0.20	5.50	472.97	-0.36	-4.02	4.02	4.03	264.94	0.34	0.00	
5	536	0.50	1.60	535.97	0.03	-4.00	4.00	4.00	270.41	0.48	0.48	
6	655	0.90	12.80	654.96	1.46	-3.78	3.78	4.05	291.11	0.35	0.34	
7	745	0.60	5.50	744.95	2.62	-3.58	3.57	4.43	306.19	0.35	-0.33	
8	835	0.80	13.40	834.95	3.70	-3.39	3.38	5.01	317.51	0.25	0.22	
9	931	0.70	356.90	930.94	4.94	-3.26	3.25	5.92	326.53	0.25	-0.10	
10	1,026	1.40	7.80	1025.92	6.66	-3.14	3.12	7.37	334.79	0.76	0.74	
11	1,120	1.80	11.90	1119.88	9.25	-2.68	2.66	9.63	343.85	0.44	0.43	
12	1,215	1.80	14.90	1214.84	12.15	-1.99	1.96	12.31	350.72	0.10	0.00	
13	1,309	2.20	21.10	1308.78	15.26	-0.96	0.93	15.29	356.41	0.48	0.43	
14	1,404	2.60	22.80	1403.70	18.95	0.53	-0.57	18.95	1.62	0.43	0.42	
15	1,499	3.30	21.00	1498.57	23.49	2.35	-2.39	23.60	5.71	0.74	0.74	
16	1,593	4.70	20.40	1592.34	29.62	4.66	-4.72	29.99	8.94	1.49	1.49	
17	1,782	5.80	22.40	1780.54	45.71	11.00	-11.09	47.01	13.53	0.59	0.58	
18	1,970	5.40	39.10	1967.66	61.36	20.20	-20.32	64.60	18.22	0.89	-0.21	
19	2,159	6.40	33.40	2155.66	77.05	31.61	-31.76	83.28	22.30	0.61	0.53	
20	2,346	6.40	27.60	2341.49	94.99	42.17	-42.36	103.93	23.94	0.35	0.00	
21	2,536	4.80	31.10	2530.58	111.18	51.19	-51.40	122.40	24.72	0.86	-0.84	
22	2,557	4.70	29.80	2551.51	112.68	52.07	-52.28	124.13	24.80	0.70	-0.48	
23	2,651	4.50	32.40	2645.21	119.14	55.96	-56.19	131.62	25.16	0.31	-0.21	
24	2,842	6.10	1.20	2835.42	135.61	60.19	-60.45	148.37	23.93	1.69	0.84	
25	3,032	8.10	16.30	3023.97	158.56	64.16	-64.46	171.05	22.03	1.43	1.05	
26	3,220	8.40	16.70	3210.03	184.42	71.82	-72.17	197.91	21.28	0.16	0.16	
27	3,408	7.90	13.30	3396.13	210.15	78.74	-79.14	224.42	20.54	0.37	-0.27	
28	3,596	7.40	13.80	3582.45	234.48	84.60	-85.05	249.27	19.84	0.27	-0.27	
29	3,785	7.20	15.10	3769.92	257.74	90.59	-91.08	273.19	19.36	0.14	-0.11	
30	3,974	8.00	18.90	3957.26	281.61	97.93	-98.47	298.16	19.18	0.50	0.42	
31	4,162	7.40	17.50	4143.56	305.54	105.81	-106.40	323.34	19.10	0.33	-0.32	
32	4,350	7.10	18.10	4330.06	328.13	113.06	-113.69	347.06	19.01	0.16	-0.16	
33	4,538	8.50	21.50	4516.32	352.10	121.76	-122.44	372.56	19.08	0.78	0.74	

Company:		Matador Production Company										
Well Name:		Jimmy Kone 05-24S-28E RB 221H - Original Wellbore										
Location:		Eddy County, NM										
Rig:		Patterson #282					Magnetic Declination:		7.08		REFERENCED TO GRID NORTH	
Job Number:		DDMO-180128										
API #:		30-015-44595										
Vertical Section Azimuth:					269.89			Proposed Direction:		269.89		
Survey Calculation Method:					Minimum Curvature							
PTB:	MD		INC		AZM		TVD	N/S	E/W		VS	
	13,136		94		269.3		10514.66	444.86	-2624.6		2623.74	
#	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	4,727	7.70	20.60	4703.43	376.95	131.34	-132.06	399.17	19.21	0.43	-0.42	
35	4,915	5.60	15.00	4890.16	397.60	138.14	-138.91	420.92	19.16	1.17	-1.12	
36	5,104	7.50	20.40	5077.92	418.07	144.83	-145.63	442.45	19.11	1.06	1.01	
37	5,293	6.40	20.40	5265.53	439.51	152.80	-153.64	465.31	19.17	0.58	-0.58	
38	5,483	6.60	24.40	5454.31	459.38	161.00	-161.88	486.77	19.31	0.26	0.11	
39	5,672	5.40	23.10	5642.27	477.45	168.98	-169.90	506.47	19.49	0.64	-0.63	
40	5,861	3.60	23.10	5830.68	491.09	174.80	-175.74	521.27	19.59	0.95	-0.95	
41	6,051	1.10	14.80	6020.50	498.34	177.60	-178.56	529.04	19.62	1.32	-1.32	
42	6,240	0.80	331.50	6209.48	501.25	177.44	-178.40	531.73	19.49	0.40	-0.16	
43	6,429	0.10	55.30	6398.47	502.51	176.94	-177.91	532.75	19.40	0.42	-0.37	
44	6,619	0.80	276.60	6588.47	502.75	175.76	-176.73	532.59	19.27	0.46	0.37	
45	6,808	0.90	267.30	6777.45	502.83	172.97	-173.93	531.75	18.98	0.09	0.05	
46	6,997	0.60	177.50	6966.43	501.78	171.53	-172.49	530.28	18.87	0.57	-0.16	
47	7,185	1.00	215.60	7154.42	499.46	170.62	-171.58	527.80	18.86	0.34	0.21	
48	7,373	1.80	224.20	7342.36	496.01	167.60	-168.56	523.56	18.67	0.44	0.43	
49	7,562	2.70	149.60	7531.25	490.04	167.79	-168.73	517.97	18.90	1.49	0.48	
50	7,750	1.60	129.10	7719.11	484.56	172.07	-172.99	514.21	19.55	0.71	-0.59	
51	7,939	0.50	236.00	7908.09	482.44	173.43	-174.36	512.66	19.77	0.96	-0.58	
52	8,128	0.70	262.20	8097.08	481.82	171.60	-172.53	511.47	19.60	0.18	0.11	
53	8,317	0.70	344.60	8286.07	482.78	170.15	-171.08	511.88	19.41	0.49	0.00	
54	8,505	2.30	251.90	8474.01	482.71	166.26	-167.19	510.54	19.01	1.30	0.85	
55	8,695	2.00	270.90	8663.88	481.58	159.32	-160.25	507.25	18.31	0.40	-0.16	
56	8,883	0.70	92.10	8851.85	481.59	157.19	-158.11	506.59	18.08	1.44	-0.69	
57	9,072	1.00	130.80	9040.83	480.47	159.59	-160.51	506.28	18.37	0.33	0.16	
58	9,261	2.40	114.00	9229.75	477.78	164.45	-165.37	505.29	18.99	0.78	0.74	
59	9,450	1.80	118.20	9418.62	474.77	170.69	-171.60	504.52	19.77	0.33	-0.32	
60	9,641	1.40	144.00	9609.55	471.46	174.70	-175.61	502.79	20.33	0.43	-0.21	
61	9,829	0.50	274.40	9797.53	469.67	175.23	-176.13	501.29	20.46	0.94	-0.48	
62	9,867	0.60	268.70	9835.53	469.68	174.87	-175.77	501.17	20.42	0.30	0.26	
63	9,951	0.70	276.30	9919.52	469.72	173.92	-174.82	500.89	20.32	0.16	0.12	
64	10,045	9.70	284.00	10013.04	471.71	165.65	-166.55	499.95	19.35	9.58	9.57	
65	10,090	13.80	288.00	10057.09	474.28	156.86	-157.77	499.55	18.30	9.28	9.11	
66	10,140	14.40	286.70	10105.58	477.91	145.23	-146.15	499.49	16.90	1.36	1.20	
67	10,185	18.30	280.20	10148.76	480.77	132.92	-133.84	498.81	15.45	9.56	8.67	

05/04/02

Company:		Matador Production Company										
Well Name:		Jimmy Kone 05-24S-28E RB 221H - Original Wellbore										
Location:		Eddy County, NM										
Rig:		Patterson #282					Magnetic Declination:		7.08		REFERENCED TO GRID NORTH ▼	
Job Number:		DDMO-180128										
API #:		30-015-44595										
Vertical Section Azimuth:			269.89			Proposed Direction:		269.89				
Survey Calculation Method:			Minimum Curvature									
PTB:	MD		INC		AZM	TVD	N/S	E/W		VS		
	13,136		94		269.3	10514.66	444.86	-2624.6		2623.74		
#	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	10,234	22.70	276.70	10194.64	483.24	115.95	-116.87	496.95	13.49	9.32	8.98	
69	10,279	26.00	266.40	10235.65	483.63	97.46	-98.39	493.36	11.39	11.93	7.33	
70	10,329	30.20	267.90	10279.75	482.48	73.95	-74.87	488.12	8.71	8.52	8.40	
71	10,361	33.20	269.00	10306.97	482.04	57.14	-58.07	485.41	6.76	9.55	9.38	
72	10,392	36.30	269.60	10332.44	481.82	39.48	-40.40	483.44	4.68	10.06	10.00	
73	10,420	38.70	271.10	10354.66	481.93	22.43	-23.36	482.46	2.67	9.17	8.57	
74	10,455	41.20	272.30	10381.48	482.61	-0.03	-0.90	482.61	360.00	7.47	7.14	
75	10,487	44.20	270.50	10405.00	483.13	-21.72	20.79	483.62	357.43	10.12	9.38	
76	10,518	47.40	267.90	10426.61	482.80	-43.93	43.01	484.80	354.80	11.94	10.32	
77	10,550	52.30	268.60	10447.24	482.06	-68.37	67.45	486.89	351.93	15.40	15.31	
78	10,581	56.60	270.00	10465.26	481.76	-93.59	92.66	490.77	349.01	14.35	13.87	
79	10,602	59.50	270.30	10476.37	481.81	-111.40	110.48	494.52	346.98	13.86	13.81	
80	10,672	67.10	272.90	10507.80	483.60	-173.86	172.93	513.91	340.23	11.35	10.86	
81	10,721	71.50	272.20	10525.12	485.64	-219.64	218.71	533.00	335.66	9.08	8.98	
82	10,766	77.30	272.20	10537.22	487.30	-262.93	262.00	553.71	331.65	12.89	12.89	
83	10,814	81.00	271.60	10546.25	488.86	-310.04	309.10	578.89	327.62	7.81	7.71	
84	10,859	82.90	272.20	10552.55	490.34	-354.57	353.63	605.11	324.13	4.42	4.22	
85	10,908	82.70	271.70	10558.69	491.99	-403.16	402.21	636.08	320.67	1.09	-0.41	
86	10,953	85.00	270.80	10563.51	492.97	-447.88	446.94	666.05	317.74	5.48	5.11	
87	11,002	87.20	270.80	10566.85	493.65	-496.76	495.81	700.33	314.82	4.49	4.49	
88	11,095	91.60	271.20	10567.82	495.27	-589.72	588.77	770.11	310.03	4.75	4.73	
89	11,189	90.90	271.70	10565.77	497.65	-683.67	682.71	845.61	306.05	0.92	-0.74	
90	11,283	90.20	272.20	10564.87	500.85	-777.61	776.64	924.94	302.79	0.92	-0.74	
91	11,376	91.90	274.90	10563.16	506.61	-870.40	869.43	1007.10	300.20	3.43	1.83	
92	11,470	90.80	273.10	10560.95	513.16	-964.14	963.15	1092.20	298.02	2.24	-1.17	
93	11,564	90.60	271.90	10559.80	517.26	-1058.04	1057.05	1177.71	296.05	1.29	-0.21	
94	11,658	92.80	273.00	10557.01	521.28	-1151.91	1150.90	1264.37	294.35	2.62	2.34	
95	11,752	92.00	272.90	10553.07	526.11	-1245.70	1244.69	1352.24	292.90	0.86	-0.85	
96	11,845	91.60	271.30	10550.15	529.52	-1338.59	1337.57	1439.52	291.58	1.77	-0.43	
97	11,939	90.90	268.60	10548.10	529.43	-1432.56	1431.54	1527.26	290.28	2.97	-0.74	
98	12,033	91.00	272.90	10546.54	530.66	-1526.51	1525.49	1616.12	289.17	4.58	0.11	
99	12,126	91.60	266.90	10544.43	530.50	-1619.45	1618.42	1704.12	288.14	6.48	0.65	
100	12,220	90.90	263.00	10542.38	522.23	-1713.04	1712.03	1790.87	286.95	4.21	-0.74	
101	12,314	91.30	265.10	10540.58	512.49	-1806.51	1805.52	1877.80	285.84	2.27	0.43	

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Company:		Matador Production Company									
Well Name:		Jimmy Kone 05-24S-28E RB 221H - Original Wellbore									
Location:		Eddy County, NM									
Rig:		Patterson #282				Magnetic Declination:		7.08		REFERENCED TO GRID NORTH ▼	
Job Number:		DDMO-180128									
API #:		30-015-44595									
Vertical Section Azimuth:				269.89		Proposed Direction:		269.89			
Survey Calculation Method:				Minimum Curvature							
PTB:	MD	INC	AZM	TVD	N/S	E/W	VS				
	13,136	94	269.3	10514.66	444.86	-2624.6	2623.74				
#	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	12,407	90.30	263.00	10539.28	502.85	-1899.00	1898.03	1964.44	284.83	2.50	-1.08
103	12,501	89.00	262.80	10539.85	491.23	-1992.27	1991.32	2051.94	283.85	1.40	-1.38
104	12,595	91.00	263.60	10539.85	480.10	-2085.60	2084.68	2140.15	282.96	2.29	2.13
105	12,688	93.30	265.40	10536.36	471.19	-2178.10	2177.19	2228.48	282.21	3.14	2.47
106	12,783	93.30	266.50	10530.89	464.50	-2272.70	2271.81	2319.69	281.55	1.16	0.00
107	12,877	91.80	265.40	10526.71	457.86	-2366.37	2365.49	2410.26	280.95	1.98	-1.60
108	12,970	91.40	265.20	10524.11	450.25	-2459.02	2458.15	2499.90	280.38	0.48	-0.43
109	13,064	94.00	269.30	10519.68	445.74	-2552.78	2551.92	2591.41	279.90	5.16	2.77
PTB:	13,136	94.00	269.30	10514.66	444.86	-2624.60	2623.74	2662.04	279.62	0.00	0.00



SURVEY CALCULATION PROGRAM

4/30/18 9:20

Company:	Matador Production Company		
Well Name:	Jimmy Kone 05-24S-28E RB 221H - Sidetrack		
Location:	Eddy County, NM		
Rig:	Patterson #282	Magnetic Declination:	7.08
Job Number:	DDMO-180128		
API #:	30-015-44595		

REFERENCED TO GRID NORTH

Vertical Section Azimuth:	269.89	Proposed Direction:	269.89
Survey Calculation Method:	Minimum Curvature		

PTB:	M/D		INC		AZM		TVD		N/S		E/W		VS	
	15,400		89.1		263.3		10438.83		482.23		-4875.37		4874.44	
#	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	11,002	87.20	270.80	10566.85	493.65	-496.76		700.33	314.82					
1	11,012	86.30	271.70	10567.42	493.87	-506.74	505.79	707.60	314.26	12.72	-9.00			
2	11,096	81.70	257.00	10576.24	485.71	-589.62	588.69	763.92	309.48	18.24	-5.48			
3	11,143	84.30	257.30	10581.97	475.34	-635.10	634.19	793.29	306.81	5.57	5.53			
4	11,190	88.90	258.40	10584.76	465.47	-680.96	680.06	824.84	304.35	10.06	9.79			
5	11,283	88.30	262.10	10587.03	449.73	-772.57	771.70	893.93	300.20	4.03	-0.65			
6	11,377	89.70	263.90	10588.67	438.27	-865.85	865.00	970.45	296.85	2.43	1.49			
7	11,470	91.30	265.30	10587.86	429.52	-958.43	957.60	1050.27	294.14	2.29	1.72			
8	11,564	92.70	266.80	10584.58	423.05	-1052.14	1051.33	1134.01	291.90	2.18	1.49			
9	11,658	94.00	268.20	10579.09	418.96	-1145.89	1145.08	1220.07	290.08	2.03	1.38			
10	11,752	91.50	267.60	10574.58	415.52	-1239.71	1238.91	1307.49	288.53	2.73	-2.66			
11	11,846	93.60	267.50	10570.39	411.50	-1333.52	1332.73	1395.57	287.15	2.24	2.23			
12	11,939	94.40	268.40	10563.91	408.18	-1426.24	1425.45	1483.50	285.97	1.29	0.86			
13	12,033	94.00	267.90	10557.02	405.16	-1519.93	1519.15	1573.01	284.93	0.68	-0.43			
14	12,127	94.00	267.90	10550.46	401.72	-1613.64	1612.87	1662.89	283.98	0.00	0.00			
15	12,220	93.10	267.30	10544.71	397.83	-1706.38	1705.61	1752.14	283.12	1.16	-0.97			
16	12,314	91.50	266.40	10540.93	392.67	-1800.16	1799.40	1842.49	282.31	1.95	-1.70			
17	12,408	91.40	266.10	10538.56	386.53	-1893.93	1893.18	1932.97	281.53	0.34	-0.11			
18	12,501	94.10	270.50	10534.09	383.77	-1986.75	1986.01	2023.47	280.93	5.55	2.90			
19	12,595	93.20	269.40	10528.11	383.69	-2080.55	2079.81	2115.64	280.45	1.51	-0.96			
20	12,689	91.90	268.60	10523.93	382.05	-2174.44	2173.71	2207.75	279.97	1.62	-1.38			
21	12,784	92.60	268.40	10520.20	379.56	-2269.34	2268.60	2300.86	279.50	0.77	0.74			
22	12,877	91.50	267.00	10516.87	375.83	-2362.20	2361.47	2391.91	279.04	1.91	-1.18			
23	12,971	91.20	266.90	10514.65	370.83	-2456.04	2455.32	2483.88	278.59	0.34	-0.32			
24	13,064	92.50	270.30	10511.65	368.56	-2548.95	2548.24	2575.46	278.23	3.91	1.40			
25	13,158	91.30	270.90	10508.53	369.54	-2642.89	2642.18	2668.60	277.96	1.43	-1.28			
26	13,252	92.00	274.20	10505.83	373.72	-2736.74	2736.02	2762.14	277.78	3.59	0.74			
27	13,345	91.50	277.50	10502.99	383.20	-2829.20	2828.46	2855.04	277.71	3.59	-0.54			
28	13,439	90.40	275.10	10501.43	393.51	-2922.61	2921.85	2948.99	277.67	2.81	-1.17			
29	13,533	95.60	277.60	10496.51	403.88	-3015.87	3015.09	3042.79	277.63	6.14	5.53			
30	13,626	94.40	278.40	10488.40	416.78	-3107.61	3106.81	3135.44	277.64	1.55	-1.29			
31	13,720	92.30	276.10	10482.91	428.61	-3200.69	3199.86	3229.26	277.63	3.31	-2.23			
32	13,814	91.30	275.40	10479.96	438.03	-3294.17	3293.32	3323.16	277.57	1.30	-1.06			
33	13,908	91.50	276.70	10477.66	447.93	-3387.62	3386.75	3417.10	277.53	1.40	0.21			

Company:		Matador Production Company									
Well Name:		Jimmy Kone 05-24S-28E RB 221H - Sidetrack									
Location:		Eddy County, NM									
Rig:		Patterson #282				Magnetic Declination:		7.08		REFERENCED TO GRID NORTH	
Job Number:		DDMO-180128									
API #:		30-015-44595									
Vertical Section Azimuth:			269.89		Proposed Direction:		269.89				
Survey Calculation Method:			Minimum Curvature								
PTB:		VD	INC	AZM	TVD	N/S	E/W	VS			
		15,400	89.1	263.3	10438.83	482.23	-4875.37	4874.44			
#	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	14,002	94.50	277.70	10472.74	459.69	-3480.74	3479.85	3510.96	277.52	3.36	3.19
35	14,096	93.00	276.10	10466.59	470.96	-3573.85	3572.94	3604.75	277.51	2.33	-1.60
36	14,190	91.80	271.50	10462.65	477.18	-3667.53	3666.61	3698.45	277.41	5.05	-1.28
37	14,283	91.90	270.00	10459.65	478.40	-3760.47	3759.55	3790.78	277.25	1.62	0.11
38	14,377	92.40	272.90	10456.13	480.77	-3854.37	3853.44	3884.24	277.11	3.13	0.53
39	14,471	91.40	272.00	10453.01	484.79	-3948.23	3947.29	3977.88	277.00	1.43	-1.06
40	14,566	91.40	272.00	10450.69	488.10	-4043.14	4042.20	4072.50	276.88	0.00	0.00
41	14,660	91.40	272.60	10448.39	491.88	-4137.04	4136.09	4166.18	276.78	0.64	0.00
42	14,754	92.70	275.10	10445.03	498.18	-4230.76	4229.79	4259.99	276.72	3.00	1.38
43	14,849	92.70	272.60	10440.55	504.55	-4325.43	4324.45	4354.76	276.65	2.63	0.00
44	14,943	91.40	269.50	10437.19	506.27	-4419.34	4418.36	4448.24	276.54	3.57	-1.38
45	15,038	88.50	267.70	10437.27	503.95	-4514.30	4513.32	4542.34	276.37	3.59	-3.05
46	15,132	88.90	267.10	10439.40	499.69	-4608.18	4607.21	4635.19	276.19	0.77	0.43
47	15,226	91.90	269.30	10438.75	496.74	-4702.11	4701.15	4728.28	276.03	3.96	3.19
48	15,320	89.50	264.30	10437.60	491.49	-4795.92	4794.97	4821.04	275.85	5.90	-2.55
49	15,328	89.10	263.30	10437.70	490.63	-4803.87	4802.92	4828.86	275.83	13.46	-5.00
PTB:	15,400	89.10	263.30	10438.83	482.23	-4875.37	4874.44	4899.16	275.65	0.00	0.00