

NOV 16 2017



Survey Report

RECEIVED

30-015-43820

Service Company: Premier Directional Drilling

Location: Malaga

Well: Dr Scrivner Fed Com 124H

Rig: Patterson 282

API or UWI: 3001543820

Job Number: M17253

State: NM

Operating Company: Matador Resource Company

County: Eddy

Magnetic Declination: 7.22

Country: USA

Proposed Azimuth: 269.74

Comment Datum: NAD 1927
 Projection: New Mexico East 3001
 Total Correction: 7.06°
 Grid Convergence: 0.16

North Reference: GRID

Latitude: 32.24135556

Longitude: -104.0339611

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

**Please provide signature
page for directional survey**

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
192.00	0.80	201.91	191.99	-1.24	-0.50	201.91	1.34	0.51	0.42
284.00	1.64	196.27	283.97	-3.10	-1.11	199.66	3.30	1.12	0.92
400.00	1.75	208.41	399.92	-6.25	-2.42	201.12	6.71	2.44	0.32
495.00	1.54	210.42	494.88	-8.63	-3.75	203.50	9.41	3.79	0.23
587.00	1.58	131.98	586.86	-10.55	-3.44	198.05	11.09	3.48	2.14
679.00	4.07	89.92	678.75	-11.39	0.77	176.12	11.42	-0.72	3.35
771.00	7.02	89.02	770.31	-11.29	9.66	139.45	14.86	-9.61	3.21
863.00	8.57	88.03	861.45	-10.96	22.13	116.34	24.70	-22.08	1.69
957.00	8.41	89.43	954.42	-10.65	36.01	106.47	37.55	-35.96	0.28
1052.00	8.12	90.38	1048.44	-10.62	49.66	102.07	50.79	-49.61	0.34
1148.00	7.54	90.50	1143.54	-10.72	62.74	99.70	63.65	-62.69	0.60
1242.00	6.92	89.25	1236.79	-10.70	74.57	98.17	75.33	-74.52	0.68
1336.00	6.63	90.98	1330.14	-10.72	85.66	97.13	86.33	-85.61	0.38
1431.00	6.10	89.95	1424.55	-10.81	96.19	96.41	96.79	-96.14	0.57
1526.00	5.82	88.80	1519.04	-10.71	106.05	95.76	106.59	-106.00	0.32
1620.00	5.12	89.09	1612.61	-10.54	115.01	95.24	115.49	-114.96	0.75
1715.00	4.28	90.60	1707.29	-10.51	122.79	94.89	123.24	-122.75	0.89
1809.00	3.72	90.97	1801.06	-10.60	129.35	94.68	129.78	-129.30	0.60
1904.00	4.07	77.84	1895.84	-9.94	135.73	94.19	136.09	-135.68	1.01
1999.00	4.89	80.49	1990.55	-8.56	143.02	93.43	143.27	-142.98	0.89

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
2094.00	4.75	87.84	2085.21	-7.74	150.94	92.94	151.14	-150.90	0.67
2189.00	4.52	93.24	2179.90	-7.81	158.61	92.82	158.80	-158.57	0.52
2283.00	3.90	100.11	2273.65	-8.58	165.45	92.97	165.68	-165.41	0.85
2379.00	4.57	100.05	2369.39	-9.82	172.43	93.26	172.71	-172.39	0.70
2474.00	5.52	102.74	2464.02	-11.49	180.62	93.64	180.98	-180.56	1.03
2569.00	5.26	101.89	2558.60	-13.39	189.34	94.05	189.81	-189.27	0.29
2640.00	4.44	100.48	2629.34	-14.56	195.22	94.27	195.77	-195.15	1.17
2760.00	3.59	101.89	2749.05	-16.18	203.47	94.55	204.11	-203.39	0.71
2854.00	5.11	98.05	2842.78	-17.37	210.49	94.72	211.21	-210.41	1.65
2948.00	5.69	97.16	2936.36	-18.54	219.26	94.83	220.04	-219.17	0.62
3044.00	6.48	86.00	3031.82	-18.76	229.39	94.67	230.15	-229.30	1.48
3140.00	6.82	85.09	3127.17	-17.89	240.47	94.25	241.13	-240.39	0.37
3236.00	6.90	84.69	3222.49	-16.87	251.89	93.83	252.46	-251.81	0.10
3332.00	6.91	82.80	3317.79	-15.61	263.36	93.39	263.82	-263.29	0.24
3428.00	6.71	81.88	3413.11	-14.09	274.64	92.94	275.01	-274.58	0.24
3524.00	6.66	81.79	3508.46	-12.51	285.71	92.51	285.98	-285.65	0.05
3619.00	6.00	80.46	3602.88	-10.90	296.06	92.11	296.26	-296.00	0.71
3714.00	5.67	80.57	3697.39	-9.31	305.58	91.74	305.72	-305.54	0.35
3809.00	5.68	78.46	3791.92	-7.60	314.82	91.38	314.91	-314.78	0.22
3904.00	6.59	76.28	3886.38	-5.36	324.72	90.95	324.76	-324.69	0.99
3999.00	6.98	75.23	3980.71	-2.60	335.60	90.44	335.61	-335.58	0.43
4094.00	7.17	74.90	4074.99	0.42	346.90	89.93	346.90	-346.90	0.20
4189.00	6.77	72.88	4169.29	3.61	357.98	89.42	358.00	-357.99	0.49
4283.00	6.34	73.62	4262.67	6.71	368.25	88.96	368.31	-368.28	0.47
4378.00	6.01	73.49	4357.12	9.60	378.05	88.55	378.17	-378.09	0.35
4472.00	6.00	71.45	4450.61	12.56	387.43	88.14	387.63	-387.48	0.23
4567.00	6.04	73.01	4545.08	15.60	396.92	87.75	397.22	-396.98	0.18
4661.00	6.30	73.51	4638.54	18.51	406.59	87.39	407.01	-406.67	0.28
4756.00	6.26	73.64	4732.97	21.45	416.56	87.05	417.11	-416.65	0.04
4851.00	6.45	73.14	4827.38	24.45	426.63	86.72	427.33	-426.74	0.21
4946.00	5.95	75.12	4921.83	27.27	436.50	86.43	437.35	-436.62	0.57
5041.00	5.51	77.02	5016.35	29.55	445.70	86.21	446.68	-445.83	0.50
5135.00	4.60	75.99	5109.99	31.48	453.76	86.03	454.85	-453.90	0.97
5229.00	4.70	82.04	5203.68	32.93	461.23	85.92	462.40	-461.37	0.53
5324.00	4.32	81.47	5298.38	34.00	468.62	85.85	469.85	-468.77	0.40
5419.00	4.06	81.07	5393.13	35.05	475.48	85.78	476.77	-475.64	0.28
5513.00	5.00	94.16	5486.84	35.27	482.86	85.82	484.14	-483.01	1.48
5607.00	6.13	103.26	5580.39	33.82	491.83	86.07	492.99	-491.98	1.52
5701.00	6.42	106.17	5673.83	31.20	501.76	86.44	502.73	-501.90	0.46
5794.00	5.86	107.42	5766.30	28.34	511.28	86.83	512.07	-511.41	0.62
5888.00	5.98	109.35	5859.80	25.28	520.48	87.22	521.10	-520.59	0.25

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5982.00	5.70	110.63	5953.31	22.01	529.47	87.62	529.93	-529.57	0.33
6076.00	5.04	115.27	6046.89	18.60	537.57	88.02	537.90	-537.65	0.84
6171.00	4.57	117.88	6141.56	15.05	544.69	88.42	544.90	-544.76	0.55
6265.00	4.32	119.23	6235.28	11.57	551.09	88.80	551.21	-551.14	0.29
6359.00	3.37	110.28	6329.07	8.88	556.77	89.09	556.84	-556.81	1.19
6453.00	2.64	100.37	6422.94	7.54	561.49	89.23	561.55	-561.52	0.95
6548.00	1.93	101.11	6517.86	6.83	565.22	89.31	565.26	-565.24	0.75
6642.00	1.23	88.86	6611.82	6.55	567.78	89.34	567.82	-567.80	0.82
6737.00	0.59	98.46	6706.81	6.50	569.28	89.35	569.32	-569.31	0.69
6831.00	0.30	233.35	6800.81	6.28	569.56	89.37	569.60	-569.59	0.88
6926.00	1.28	247.24	6895.80	5.72	568.38	89.42	568.41	-568.40	1.04
7022.00	1.69	235.65	6991.77	4.51	566.23	89.54	566.25	-566.24	0.53
7118.00	0.81	273.93	7087.75	3.76	564.38	89.62	564.39	-564.39	1.22
7213.00	0.95	327.77	7182.74	4.47	563.29	89.55	563.31	-563.31	0.85
7310.00	2.42	42.45	7279.70	6.66	564.25	89.32	564.28	-564.27	2.43
7405.00	1.81	52.84	7374.64	9.05	566.79	89.09	566.87	-566.83	0.76
7501.00	2.02	84.07	7470.58	10.14	569.69	88.98	569.78	-569.73	1.09
7598.00	1.89	97.86	7567.53	10.09	572.97	88.99	573.06	-573.01	0.50
7694.00	1.72	98.95	7663.48	9.65	575.96	89.04	576.04	-576.00	0.18
7782.00	1.36	96.17	7751.45	9.34	578.30	89.08	578.38	-578.34	0.42
7865.00	3.87	245.87	7834.40	8.08	576.73	89.20	576.78	-576.76	6.13
7960.00	15.71	272.06	7927.88	7.23	560.89	89.26	560.93	-560.91	13.00
8055.00	24.92	280.20	8016.89	11.25	528.26	88.78	528.38	-528.30	10.12
8150.00	34.60	274.13	8099.28	16.75	481.54	88.01	481.83	-481.61	10.66
8244.00	44.13	269.71	8171.88	18.51	422.04	87.49	422.45	-422.12	10.56
8338.00	54.12	269.00	8233.32	17.68	351.06	87.12	351.51	-351.14	10.64
8433.00	59.48	265.59	8285.33	13.86	271.71	87.08	272.06	-271.77	6.39
8528.00	64.24	263.20	8330.13	5.64	188.38	88.29	188.46	-188.40	5.48
8623.00	71.29	265.58	8366.06	-2.91	100.92	91.65	100.96	-100.91	7.77
8717.00	77.65	267.89	8391.22	-8.03	10.55	127.28	13.26	-10.51	7.17
8810.00	79.48	270.26	8409.66	-9.50	-80.58	263.28	81.14	80.62	3.18
8906.00	85.22	271.98	8422.43	-7.63	-175.66	267.51	175.83	175.70	6.24
9000.00	86.94	272.67	8428.86	-3.82	-269.36	269.19	269.39	269.38	1.97
9095.00	86.35	273.41	8434.42	1.20	-364.07	270.19	364.07	364.06	1.00
9190.00	85.84	273.64	8440.89	7.03	-458.67	270.88	458.72	458.63	0.59
9283.00	85.90	275.01	8447.59	14.03	-551.16	271.46	551.34	551.09	1.47
9378.00	90.23	272.31	8450.79	20.08	-645.88	271.78	646.19	645.78	5.37
9471.00	90.79	271.48	8449.96	23.16	-738.82	271.80	739.19	738.71	1.08
9566.00	90.84	272.17	8448.61	26.18	-833.77	271.80	834.18	833.64	0.73
9660.00	90.90	273.01	8447.19	30.43	-927.66	271.88	928.16	927.51	0.90
9754.00	89.17	271.52	8447.13	34.15	-1021.58	271.91	1022.15	1021.41	2.43

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
9848.00	87.13	266.81	8450.16	32.78	-1115.49	271.68	1115.97	1115.33	5.46
9943.00	86.58	267.21	8455.38	27.83	-1210.21	271.32	1210.53	1210.08	0.72
10037.00	89.02	265.63	8458.99	21.97	-1303.95	270.97	1304.14	1303.84	3.09
10131.00	89.56	266.04	8460.15	15.14	-1397.70	270.62	1397.78	1397.61	0.72
10225.00	90.87	266.20	8459.80	8.78	-1491.48	270.34	1491.50	1491.42	1.40
10319.00	90.76	266.69	8458.46	2.95	-1585.29	270.11	1585.29	1585.26	0.53
10411.00	91.20	267.54	8456.89	-1.68	-1677.16	269.94	1677.16	1677.15	1.04
10505.00	93.79	267.70	8452.80	-5.58	-1770.98	269.82	1770.99	1770.98	2.76
10599.00	93.66	267.85	8446.69	-9.22	-1864.71	269.72	1864.73	1864.73	0.21
10694.00	93.38	267.52	8440.86	-13.05	-1959.45	269.62	1959.49	1959.49	0.46
10788.00	92.86	267.40	8435.74	-17.21	-2053.22	269.52	2053.29	2053.28	0.57
10883.00	92.36	267.02	8431.41	-21.83	-2148.01	269.42	2148.12	2148.09	0.66
10976.00	91.62	267.15	8428.18	-26.56	-2240.83	269.32	2240.99	2240.93	0.81
11070.00	92.93	267.05	8424.45	-31.31	-2334.63	269.23	2334.84	2334.75	1.40
11165.00	92.70	266.83	8419.79	-36.37	-2429.38	269.14	2429.66	2429.52	0.33
11259.00	93.59	269.27	8414.63	-39.57	-2523.18	269.10	2523.49	2523.33	2.76
11353.00	94.18	271.14	8408.26	-39.23	-2616.96	269.14	2617.25	2617.11	2.08
11448.00	93.93	270.87	8401.54	-37.57	-2711.71	269.21	2711.97	2711.85	0.39
11542.00	91.86	270.84	8396.79	-36.17	-2805.57	269.26	2805.80	2805.71	2.20
11637.00	90.94	271.28	8394.47	-34.41	-2900.53	269.32	2900.73	2900.65	1.07
11731.00	90.99	271.00	8392.89	-32.54	-2994.49	269.38	2994.67	2994.61	0.30
11826.00	90.71	270.83	8391.48	-31.03	-3089.47	269.42	3089.63	3089.58	0.34
11920.00	90.45	271.09	8390.53	-29.45	-3183.45	269.47	3183.59	3183.55	0.39
12015.00	90.54	271.30	8389.71	-27.47	-3278.43	269.52	3278.54	3278.52	0.24
12110.00	90.09	271.56	8389.19	-25.10	-3373.40	269.57	3373.49	3373.48	0.55
12205.00	89.67	271.10	8389.39	-22.89	-3468.37	269.62	3468.45	3468.44	0.66
12300.00	89.09	271.16	8390.41	-21.02	-3563.35	269.66	3563.41	3563.40	0.61
12395.00	90.74	271.17	8390.55	-19.09	-3658.32	269.70	3658.37	3658.37	1.74
12490.00	91.85	271.15	8388.41	-17.17	-3753.28	269.74	3753.32	3753.32	1.17
12584.00	91.37	271.39	8385.77	-15.08	-3847.22	269.78	3847.25	3847.25	0.57
12678.00	90.93	271.27	8383.88	-12.90	-3941.17	269.81	3941.19	3941.19	0.49
12773.00	90.58	271.44	8382.63	-10.66	-4036.14	269.85	4036.15	4036.14	0.41
12868.00	90.62	270.64	8381.63	-8.93	-4131.12	269.88	4131.13	4131.11	0.84
12962.00	90.39	270.70	8380.80	-7.83	-4225.11	269.89	4225.11	4225.10	0.25
13057.00	90.07	270.41	8380.42	-6.91	-4320.10	269.91	4320.11	4320.09	0.45
13090.00	90.02	270.43	8380.40	-6.67	-4353.10	269.91	4353.10	4353.09	0.16

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
13165.00	90.02	270.43	8380.37	-6.11	-4428.10	269.92	4428.10	4428.08	0.00