

DRILTECH MWD SURVEY REPORT

30-015-37371



Company: Devon Energy
Well: Laguna Salado 22 Fed 6H
Location: Eddy Co., NM
Rig: Patterson 41

Job Number: M-2011022-IWDT
Magnetic Decl.: 7.83
Grid Corr.: -0.18
Total Grid Corr.: 7.65

Calculation Method: Minimum Curvature
Proposed Azimuth: 150.27
WELL API #: 30-015-37371
Tie Into: Inwell Survey Program

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Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')
N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)										
Tie In		8594	90.90	141.10	32	6717.61	1877.57	-1047.04	1952.65			7.7	
1	mwd	8644.00	90.80	145.30	50	6716.87	1927.17	1087.06 S	1982.59 E	2261.06	118.74	8.40	-0.20
2	mwd	8676.00	90.60	147.40	32	6716.48	1959.09	1113.70 S	2000.32 E	2289.46	119.11	6.59	-0.63
3	mwd	8708.00	91.30	149.70	32	6715.95	1991.07	1140.99 S	2017.01 E	2317.37	119.50	7.51	2.19
4	mwd	8739.00	91.80	151.60	31	6715.11	2022.06	1168.00 S	2032.20 E	2343.94	119.89	6.34	1.61
5	mwd	8771.00	92.70	154.10	32	6713.85	2054.00	1196.45 S	2046.79 E	2370.83	120.31	8.30	2.81
6	mwd	8803.00	92.40	155.70	32	6712.43	2085.86	1225.40 S	2060.35 E	2397.22	120.74	5.08	-0.94
7	mwd	8834.00	92.70	157.90	31	6711.05	2116.62	1253.86 S	2072.55 E	2422.32	121.17	7.16	0.97
8	mwd	8866.00	91.80	159.50	32	6709.79	2148.25	1283.65 S	2084.17 E	2447.76	121.63	5.73	-2.81
9	mwd	8898.00	92.00	159.30	32	6708.73	2179.83	1313.59 S	2095.42 E	2473.11	122.08	0.88	0.63
10	mwd	8930.00	92.40	159.30	32	6707.50	2211.41	1343.50 S	2106.72 E	2498.65	122.53	1.25	1.25
11	mwd	8961.00	91.50	161.60	31	6706.45	2241.90	1372.69 S	2117.09 E	2523.16	122.96	7.96	-2.90
12	mwd	8993.00	91.10	163.90	32	6705.72	2273.14	1403.25 S	2126.57 E	2547.83	123.42	7.29	-1.25
13	mwd	9025.00	91.30	165.10	32	6705.05	2304.15	1434.07 S	2135.12 E	2572.03	123.89	3.80	0.63
14	mwd	9056.00	91.70	167.30	31	6704.24	2333.94	1464.17 S	2142.52 E	2595.03	124.35	7.21	1.29
15	mwd	9088.00	91.70	168.00	32	6703.29	2364.47	1495.41 S	2149.36 E	2618.40	124.83	2.19	0.00
16	mwd	9120.00	92.00	168.80	32	6702.26	2394.86	1526.74 S	2155.79 E	2641.66	125.31	2.67	0.94
17	mwd	9152.00	91.80	171.10	32	6701.20	2424.98	1558.23 S	2161.37 E	2664.51	125.79	7.21	-0.63
18	mwd	9183.00	91.00	173.90	31	6700.44	2453.66	1588.95 S	2165.41 E	2685.85	126.27	9.39	-2.58
19	mwd	9215.00	90.60	176.40	32	6699.99	2482.69	1620.83 S	2168.12 E	2707.00	126.78	7.91	-1.25
20	mwd	9246.00	90.60	178.20	31	6699.67	2510.30	1651.80 S	2169.58 E	2726.81	127.28	5.81	0.00
21	mwd	9278.00	91.00	178.20	32	6699.22	2538.57	1683.78 S	2170.58 E	2747.10	127.80	1.25	1.25
22	mwd	9310.00	91.70	178.00	32	6698.47	2566.86	1715.75 S	2171.64 E	2767.64	128.31	2.27	2.19
23	mwd	9342.00	91.00	179.70	32	6697.71	2594.95	1747.73 S	2172.29 E	2788.08	128.82	5.74	-2.19
24	mwd	9373.00	90.80	181.10	31	6697.23	2621.76	1778.73 S	2172.07 E	2807.45	129.31	4.56	-0.65
25	mwd	9405.00	91.30	180.80	32	6696.64	2649.27	1810.72 S	2171.54 E	2827.42	129.82	1.82	1.56
26	mwd	9437.00	89.70	180.80	32	6696.36	2676.83	1842.71 S	2171.09 E	2847.67	130.32	5.00	-5.00
27	mwd	9469.00	89.20	181.00	32	6696.67	2704.37	1874.71 S	2170.59 E	2868.10	130.82	1.68	-1.56
28	mwd	9500.00	89.60	179.70	31	6696.99	2731.19	1905.71 S	2170.40 E	2888.31	131.28	4.39	1.29
29	mwd	9532.00	90.10	179.60	32	6697.08	2759.08	1937.70 S	2170.60 E	2909.67	131.76	1.59	1.56
30	mwd	9564.00	90.80	180.10	32	6696.82	2786.90	1969.70 S	2170.68 E	2931.14	132.22	2.69	2.19
31	mwd	9595.00	91.00	179.70	31	6696.34	2813.85	2000.70 S	2170.73 E	2952.10	132.67	1.44	0.65

DRILTECH MWD SURVEY REPORT



Company: Devon Energy
 Well: Laguna Salado 22 Fed 6H
 Location: Eddy Co., NM
 Rig: Patterson 41

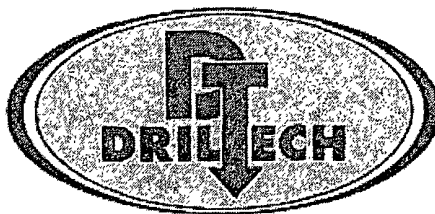
Job Number: M-2011022-IWDT
 Magnetic Decl.: 7.83
 Grid Corr.: -0.18
 Total Grid Corr.: 7.65

Calculation Method: Minimum Curvature
 Proposed Azimuth: 150.27
 WELL API #: 30-015-37371
 Tie Into: Inwell Survey Program

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)		
32	mwd	9627.00	89.70	181.30	32	6696.14	2841.49	2032.70 S	2170.45 E	2973.67	133.12	6.44	-4.06
33	mwd	9659.00	90.10	180.60	32	6696.20	2869.01	2064.69 S	2169.92 E	2995.25	133.58	2.52	1.25
34	mwd	9691.00	90.30	180.40	32	6696.09	2896.66	2096.69 S	2169.64 E	3017.19	134.02	0.88	0.63
35	mwd	9722.00	88.30	181.80	31	6696.46	2923.28	2127.68 S	2169.05 E	3038.39	134.45	7.87	-6.45
36	mwd	9754.00	88.00	182.20	32	6697.50	2950.48	2159.64 S	2167.93 E	3060.06	134.89	1.56	-0.94
37	mwd	9786.00	88.30	182.60	32	6698.53	2977.57	2191.60 S	2166.59 E	3081.76	135.33	1.56	0.94
38	mwd	9817.00	88.70	181.80	31	6699.34	3003.87	2222.56 S	2165.40 E	3103.03	135.75	2.88	1.29
39	mwd	9849.00	89.00	182.40	32	6699.98	3031.05	2254.54 S	2164.23 E	3125.19	136.17	2.10	0.94
40	mwd	9881.00	89.60	182.20	32	6700.38	3058.17	2286.51 S	2162.95 E	3147.45	136.59	1.98	1.87
41	mwd	9913.00	89.40	181.10	32	6700.65	3085.49	2318.49 S	2162.03 E	3170.14	137.00	3.49	-0.62
42	mwd	9944.00	89.20	180.40	31	6701.03	3112.21	2349.49 S	2161.62 E	3192.60	137.38	2.35	-0.65
43	mwd	9976.00	89.40	180.40	32	6701.42	3139.88	2381.48 S	2161.40 E	3216.07	137.77	0.62	0.63
44	mwd	10007.00	88.70	178.50	31	6701.94	3166.94	2412.48 S	2161.69 E	3239.29	138.14	6.53	-2.26
45	mwd	10038.00	88.70	178.50	31	6702.64	3194.25	2443.46 S	2162.51 E	3262.96	138.49	0.00	0.00
46	mwd	10070.00	89.20	178.00	32	6703.23	3222.50	2475.44 S	2163.48 E	3287.62	138.85	2.21	1.56
47	mwd	10102.00	88.90	178.90	32	6703.76	3250.70	2507.42 S	2164.35 E	3312.34	139.20	2.96	-0.94
48	mwd	10133.00	88.70	177.50	31	6704.41	3278.09	2538.40 S	2165.32 E	3336.48	139.53	4.56	-0.65
49	mwd	10165.00	88.70	178.30	32	6705.13	3306.43	2570.37 S	2166.49 E	3361.62	139.87	2.50	0.00
50	mwd	10197.00	88.30	178.50	32	6705.97	3334.64	2602.35 S	2167.39 E	3386.70	140.21	1.40	-1.25
51	mwd	10229.00	88.00	178.30	32	6707.00	3362.85	2634.32 S	2168.28 E	3411.90	140.54	1.13	-0.94
52	mwd	10261.00	88.30	178.00	32	6708.04	3391.12	2666.28 S	2169.31 E	3437.29	140.87	1.33	0.94
53	mwd	10292.00	88.70	177.30	31	6708.85	3418.63	2697.25 S	2170.58 E	3462.16	141.17	2.60	1.29
54	mwd	10324.00	89.40	177.80	32	6709.38	3447.07	2729.21 S	2171.95 E	3487.97	141.49	2.69	2.19
55	mwd	10356.00	89.40	179.40	32	6709.71	3475.24	2761.20 S	2172.73 E	3513.54	141.80	5.00	0.00
56	mwd	10387.00	89.20	178.90	31	6710.09	3502.38	2792.19 S	2173.19 E	3538.24	142.11	1.74	-0.65
57	mwd	10419.00	89.00	179.40	32	6710.60	3530.39	2824.19 S	2173.67 E	3563.83	142.42	1.68	-0.63
58	mwd	10451.00	89.90	178.90	32	6710.90	3558.41	2856.18 S	2174.14 E	3589.52	142.72	3.22	2.81
59	mwd	10483.00	89.90	180.10	32	6710.96	3586.34	2888.18 S	2174.42 E	3615.20	143.03	3.75	0.00
60	mwd	10514.00	89.90	178.70	31	6711.01	3613.42	2919.18 S	2174.75 E	3640.21	143.31	4.52	0.00
61	mwd	10546.00	89.70	179.00	32	6711.12	3641.52	2951.17 S	2175.39 E	3666.29	143.61	1.13	-0.63
62	mwd	10578.00	90.40	180.40	32	6711.10	3669.39	2983.17 S	2175.56 E	3692.20	143.90	4.89	2.19
63	mwd	10610.00	90.80	181.70	32	6710.76	3696.88	3015.16 S	2174.97 E	3717.75	144.20	4.25	1.25
64	mwd	10642.00	91.00	181.00	32	6710.26	3724.28	3047.15 S	2174.22 E	3743.30	144.49	2.27	0.63
65	mwd	10673.00	91.00	180.60	31	6709.72	3750.98	3078.14 S	2173.78 E	3768.33	144.77	1.29	0.00
66	mwd	10705.00	90.80	181.00	32	6709.22	3778.54	3110.13 S	2173.34 E	3794.25	145.05	1.40	-0.63

Calculation Method	Minimum Curvature
Proposed Azimuth	150.27
WELL API #	30-015-37371
Tie Into:	Inwell Survey Program

DrilTech Survey Report 2011022



State of New Mexico
County of EDDY

I, PAUL MILLER, certify that; I am employed by DrilTech SWD, L.L.C. I did on the day(s) of 1/26/11 through 2/4/11 conduct or supervise the taking of the 87 survey(s) from a measured depth of 8,594 feet to a measured depth of 11,400 feet. The data is true, correct, complete and within the limitations of the tool as set forth by DrilTech SWD, L.L.C. I am authorized and qualified to make this report, and this survey(s) was/were conducted at the request of Devon Energy for the Laguna Salado 22 Fed 6H, API No. 30-015-37371 in Eddy County, New Mexico. I have reviewed this report, and find that it conforms to the principles and procedures as set forth by DrilTech SWD, L.L.C..


Signature

PAUL MILLER
Name

OPERATIONS COORDINATOR
Title