



Survey Report

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Service Company: Wellbenders Directional Services

Location: Eddy County

Well: Goodman 22 #6H

Rig: Silver Oak #1

API or UWI: 30-015-44365

Job Number: WTXDG 2017-1109

State: New Mexico

Operating Company: Percussion Petroleum LLC

County: Eddy

Magnetic Declination: 0.00

Country: United States

Proposed Azimuth: 90.16

Comment

North Reference: GRID

Latitude: 32.64296

Longitude: -104.473463

Tie-In Data

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

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
160.00	0.40	125.30	160.00	-0.32	0.46	125.30	0.56	0.46	0.25
337.00	2.30	171.50	336.94	-4.19	1.49	160.50	4.45	1.50	1.15
399.00	3.10	176.10	398.87	-7.10	1.78	165.89	7.32	1.80	1.34
491.00	5.10	182.50	490.64	-13.66	1.77	172.60	13.78	1.81	2.23
583.00	5.80	180.10	582.22	-22.40	1.59	175.95	22.45	1.65	0.80
674.00	5.80	183.10	672.75	-31.59	1.33	177.59	31.62	1.42	0.33
766.00	5.90	184.40	764.27	-40.94	0.72	179.00	40.95	0.83	0.18
858.00	6.00	184.40	855.78	-50.45	-0.02	180.02	50.45	0.13	0.11
950.00	6.00	189.10	947.27	-59.99	-1.14	181.09	60.00	-0.98	0.53
1041.00	5.90	190.60	1037.78	-69.29	-2.76	182.28	69.34	-2.56	0.20
1133.00	5.70	189.50	1129.31	-78.44	-4.38	183.20	78.56	-4.16	0.25
1162.00	5.70	191.50	1158.17	-81.27	-4.91	183.45	81.42	-4.68	0.68
1250.00	5.60	191.90	1245.74	-89.76	-6.66	184.25	90.00	-6.41	0.12
1346.00	2.20	166.70	1341.51	-96.14	-7.20	184.29	96.40	-6.94	3.88
1441.00	2.20	66.70	1436.47	-97.19	-5.11	183.01	97.32	-4.84	3.55
1535.00	1.40	37.70	1530.42	-95.57	-2.75	181.65	95.61	-2.48	1.26

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
1628.00	1.50	11.80	1623.40	-93.48	-1.81	181.11	93.49	-1.55	0.71
1722.00	0.50	302.20	1717.38	-92.05	-1.90	181.18	92.07	-1.64	1.50
1816.00	0.80	266.40	1811.38	-91.88	-2.90	181.81	91.92	-2.65	0.52
1911.00	0.80	269.20	1906.37	-91.93	-4.23	182.63	92.02	-3.97	0.04
2004.00	0.70	270.00	1999.36	-91.94	-5.45	183.39	92.10	-5.19	0.11
2098.00	2.40	106.90	2093.34	-92.51	-4.14	182.56	92.60	-3.88	3.27
2144.00	6.90	102.70	2139.17	-93.40	-0.52	180.32	93.40	-0.26	9.80
2191.00	12.70	98.10	2185.47	-94.75	7.36	175.56	95.03	7.62	12.44
2238.00	18.70	98.10	2230.69	-96.54	19.94	168.33	98.58	20.21	12.77
2287.00	23.80	97.40	2276.35	-98.92	37.54	159.22	105.80	37.81	10.42
2333.00	27.10	95.90	2317.88	-101.19	57.17	150.54	116.22	57.45	7.31
2380.00	30.20	93.60	2359.12	-103.04	79.62	142.30	130.21	79.91	7.00
2426.00	33.90	92.20	2398.10	-104.25	103.99	135.07	147.25	104.29	8.20
2473.00	37.40	92.20	2436.29	-105.31	131.36	128.72	168.36	131.66	7.45
2519.00	41.30	93.10	2471.85	-106.66	160.49	123.61	192.70	160.79	8.57
2566.00	44.90	93.00	2506.17	-108.37	192.56	119.37	220.96	192.86	7.66
2612.00	48.20	92.50	2537.80	-109.97	225.91	115.96	251.25	226.21	7.22
2659.00	51.50	90.10	2568.10	-110.77	261.81	112.93	284.28	262.12	8.03
2702.00	55.70	88.20	2593.61	-110.24	296.41	110.40	316.24	296.72	10.39
2751.00	60.50	87.10	2619.50	-108.52	337.96	107.80	354.96	338.26	9.98
2797.00	67.00	86.70	2639.83	-106.29	379.13	105.66	393.75	379.43	14.15
2844.00	74.10	87.10	2655.47	-103.90	423.36	103.79	435.92	423.65	15.13
2890.00	77.50	87.60	2666.76	-101.84	467.90	102.28	478.85	468.18	7.47
2937.00	79.20	88.70	2676.25	-100.35	513.90	101.05	523.61	514.18	4.28
2983.00	80.80	89.30	2684.24	-99.56	559.20	100.10	567.99	559.47	3.71
3030.00	82.70	89.20	2690.98	-98.95	605.70	99.28	613.73	605.98	4.05
3076.00	84.70	89.20	2696.03	-98.31	651.42	98.58	658.80	651.69	4.35
3124.00	85.60	89.90	2700.09	-97.94	699.25	97.97	706.07	699.52	2.37
3218.00	86.50	89.40	2706.56	-97.37	793.02	97.00	798.97	793.29	1.09
3312.00	87.10	89.60	2711.81	-96.55	886.87	96.21	892.11	887.13	0.67
3406.00	87.60	89.70	2716.15	-95.97	980.77	95.59	985.45	981.03	0.54
3499.00	88.30	89.90	2719.48	-95.65	1073.70	95.09	1077.96	1073.97	0.78
3593.00	89.10	90.00	2721.61	-95.57	1167.68	94.68	1171.58	1167.94	0.86
3688.00	90.10	90.10	2722.28	-95.65	1262.68	94.33	1266.29	1262.94	1.06
3782.00	87.80	90.50	2724.00	-96.14	1356.65	94.05	1360.05	1356.92	2.48
3874.00	88.40	90.10	2727.05	-96.62	1448.60	93.82	1451.82	1448.86	0.78
3968.00	89.00	90.30	2729.18	-96.95	1542.57	93.60	1545.62	1542.84	0.67

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
4062.00	87.10	90.10	2732.38	-97.28	1636.52	93.40	1639.40	1636.78	2.03
4157.00	87.60	90.80	2736.77	-98.02	1731.41	93.24	1734.18	1731.68	0.90
4250.00	88.30	91.20	2740.10	-99.65	1824.34	93.13	1827.06	1824.61	0.87
4344.00	87.30	90.50	2743.71	-101.04	1918.25	93.02	1920.91	1918.53	1.30
4438.00	88.10	90.70	2747.48	-102.02	2012.17	92.90	2014.76	2012.45	0.88
4558.00	86.30	89.40	2753.34	-102.13	2132.02	92.74	2134.47	2132.30	1.85
4652.00	87.60	88.20	2758.34	-100.16	2225.86	92.58	2228.12	2226.14	1.88
4746.00	88.70	88.80	2761.38	-97.70	2319.78	92.41	2321.84	2320.05	1.33
4839.00	87.50	87.30	2764.46	-94.54	2412.67	92.24	2414.52	2412.93	2.06
4934.00	88.10	87.20	2768.11	-89.99	2507.49	92.06	2509.11	2507.73	0.64
5027.00	89.40	86.50	2770.14	-84.88	2600.33	91.87	2601.71	2600.55	1.59
5121.00	88.40	87.90	2771.94	-80.29	2694.19	91.71	2695.39	2694.41	1.83
5216.00	88.70	88.10	2774.35	-76.97	2789.11	91.58	2790.17	2789.31	0.38
5309.00	89.60	87.60	2775.73	-73.48	2882.03	91.46	2882.97	2882.22	1.11
5404.00	87.70	88.90	2777.96	-70.58	2976.95	91.36	2977.79	2977.14	2.42
5497.00	87.90	89.40	2781.53	-69.20	3069.87	91.29	3070.65	3070.05	0.58
5591.00	88.90	89.20	2784.16	-68.06	3163.83	91.23	3164.56	3164.01	1.08
5684.00	87.60	89.30	2787.00	-66.84	3256.77	91.18	3257.46	3256.95	1.40
5778.00	88.40	88.20	2790.28	-64.79	3350.69	91.11	3351.32	3350.86	1.45
5872.00	89.50	88.70	2792.00	-62.25	3444.64	91.04	3445.20	3444.80	1.29
5966.00	88.50	87.90	2793.64	-59.46	3538.58	90.96	3539.08	3538.73	1.36
6059.00	89.20	88.00	2795.51	-56.13	3631.50	90.89	3631.94	3631.65	0.76
6154.00	88.00	89.40	2797.83	-53.98	3726.45	90.83	3726.84	3726.58	1.94
6247.00	87.00	88.00	2801.89	-51.87	3819.33	90.78	3819.68	3819.46	1.85
6341.00	87.50	88.60	2806.40	-49.09	3913.18	90.72	3913.49	3913.30	0.83
6435.00	88.50	88.30	2809.68	-46.55	4007.09	90.67	4007.36	4007.20	1.11
6527.00	86.90	88.70	2813.37	-44.14	4098.98	90.62	4099.22	4099.09	1.79
6620.00	87.30	89.40	2818.07	-42.60	4191.85	90.58	4192.06	4191.95	0.87
6713.00	87.10	91.50	2822.62	-43.33	4284.73	90.58	4284.95	4284.83	2.27
6808.00	87.80	92.30	2826.84	-46.47	4379.58	90.61	4379.83	4379.69	1.12
6901.00	88.40	92.80	2829.93	-50.61	4472.44	90.65	4472.72	4472.56	0.84
6994.00	87.10	93.00	2833.58	-55.31	4565.24	90.69	4565.58	4565.38	1.41
7086.00	87.60	93.20	2837.83	-60.28	4657.01	90.74	4657.40	4657.16	0.59
7178.00	88.80	93.80	2840.72	-65.90	4748.79	90.79	4749.25	4748.96	1.46
7270.00	87.90	93.00	2843.37	-71.35	4840.59	90.84	4841.11	4840.77	1.31
7361.00	86.30	93.00	2847.98	-76.11	4931.35	90.88	4931.93	4931.54	1.76
7453.00	86.70	93.10	2853.59	-80.99	5023.04	90.92	5023.70	5023.25	0.45

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
7545.00	87.50	93.20	2858.25	-86.04	5114.79	90.96	5115.51	5115.01	0.88
7637.00	88.50	93.80	2861.46	-91.65	5206.56	91.01	5207.36	5206.79	1.27
7728.00	89.50	93.70	2863.04	-97.60	5297.35	91.06	5298.25	5297.60	1.10
7820.00	90.60	93.80	2862.96	-103.62	5389.15	91.10	5390.14	5389.42	1.20
7925.00	91.70	94.40	2860.86	-111.13	5493.86	91.16	5494.98	5494.15	1.19

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
7998.00	91.70	94.40	2858.69	-116.72	5566.61	91.20	5567.83	5566.91	0.00