



Survey Report

Service Company: Wellbenders Directional Services, LLC

Location: Eddy County

Well: South Boyd 18H

Rig: Silver Oak #1

API or UWI: 30-015-44685

Job Number: NMDG2018-1100

State: New Mexico

Operating Company: Percussion Petroleum

County: Eddy

Magnetic Declination: 7.37

Country: United States

Proposed Azimuth: 359.26

Comment

North Reference: GRID

Latitude: 32.623094

Longitude: -104.468349

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
162.00	1.10	324.13	161.99	1.26	-0.91	324.13	1.56	1.27	0.68
223.00	0.79	354.27	222.98	2.15	-1.30	328.95	2.51	2.17	0.94
316.00	0.35	337.22	315.98	3.05	-1.47	334.28	3.39	3.07	0.50
407.00	0.48	325.01	406.97	3.62	-1.80	333.62	4.04	3.64	0.17
499.00	0.44	312.97	498.97	4.18	-2.28	331.42	4.76	4.21	0.11
590.00	1.23	301.89	589.96	4.93	-3.36	325.73	5.97	4.98	0.88
683.00	2.20	294.16	682.92	6.19	-5.84	316.68	8.51	6.26	1.07
773.00	3.21	283.52	772.82	7.49	-9.86	307.20	12.38	7.61	1.25
865.00	3.52	274.73	864.66	8.32	-15.18	298.73	17.31	8.52	0.65
957.00	3.47	279.57	956.49	9.02	-20.74	293.50	22.62	9.28	0.33
1049.00	3.47	273.85	1048.32	9.67	-26.27	290.21	27.99	10.01	0.38
1141.00	3.08	276.49	1140.17	10.13	-31.50	287.83	33.09	10.54	0.45
1234.00	3.47	271.92	1233.02	10.51	-36.79	285.94	38.27	10.98	0.50
1359.00	2.99	276.84	1357.82	11.02	-43.81	284.12	45.18	11.59	0.44
1453.00	2.77	279.92	1451.70	11.71	-48.48	283.58	49.88	12.33	0.29
1547.00	2.90	279.83	1545.59	12.51	-53.06	283.26	54.52	13.19	0.14
1641.00	0.66	187.11	1639.54	12.37	-55.48	282.57	56.84	13.09	3.20

1736.00	1.01	169.53	1734.53	11.01	-55.39	281.24	56.47	11.72	0.45
1829.00	1.10	186.23	1827.52	9.31	-55.34	279.55	56.12	10.03	0.34
1922.00	0.53	62.04	1920.51	8.63	-55.06	278.91	55.73	9.34	1.58
2015.00	0.57	58.96	2013.51	9.07	-54.28	279.49	55.03	9.77	0.05
2109.00	0.79	50.26	2107.50	9.72	-53.38	280.32	54.26	10.41	0.26
2203.00	2.77	20.29	2201.45	12.27	-52.09	283.25	53.52	12.94	2.26
2250.00	8.13	11.33	2248.22	16.60	-51.05	288.01	53.68	17.25	11.51
2296.00	13.98	7.99	2293.35	25.30	-49.63	297.01	55.71	25.93	12.79
2343.00	20.22	3.68	2338.25	39.04	-48.32	308.93	62.12	39.66	13.54
2390.00	24.04	358.14	2381.79	56.72	-48.11	319.69	74.38	57.34	9.25
2437.00	28.26	354.71	2423.97	77.38	-49.45	327.42	91.83	78.01	9.53
2485.00	32.13	355.50	2465.45	101.43	-51.50	333.08	113.75	102.08	8.10
2532.00	35.30	356.74	2504.54	127.45	-53.25	337.32	138.13	128.13	6.90
2579.00	38.77	358.32	2542.05	155.73	-54.46	340.73	164.97	156.42	7.66
2626.00	42.51	359.02	2577.71	186.32	-55.16	343.51	194.32	187.02	8.02
2673.00	46.55	359.02	2611.21	219.27	-55.72	345.74	226.24	219.97	8.60
2720.00	50.73	359.46	2642.26	254.54	-56.19	347.55	260.67	255.24	8.92
2766.00	55.34	359.99	2669.91	291.28	-56.36	349.05	296.68	291.99	10.06
2813.00	61.01	1.13	2694.69	331.20	-55.96	350.41	335.89	331.89	12.24
2860.00	66.02	1.57	2715.64	373.24	-54.96	351.62	377.26	373.92	10.69
2907.00	70.64	1.39	2732.99	416.89	-53.83	352.64	420.35	417.55	9.84
2955.00	75.25	1.31	2747.07	462.76	-52.75	353.50	465.75	463.40	9.61
3003.00	80.88	1.04	2756.99	509.69	-51.79	354.20	512.31	510.32	11.74
3050.00	86.11	0.95	2762.31	556.36	-50.98	354.76	558.69	556.98	11.13
3144.00	89.41	0.87	2765.99	650.27	-49.49	355.65	652.15	650.85	3.51
3238.00	90.37	359.46	2766.17	744.26	-49.22	356.22	745.89	744.84	1.81
3329.00	91.25	359.72	2764.88	835.25	-49.87	356.58	836.74	835.82	1.01
3422.00	89.71	358.84	2764.10	928.24	-51.04	356.85	929.64	928.82	1.91
3514.00	90.37	359.02	2764.04	1020.22	-52.76	357.04	1021.58	1020.82	0.74
3605.00	91.03	359.37	2762.93	1111.20	-54.04	357.22	1112.52	1111.81	0.82
3697.00	89.63	358.05	2762.40	1203.17	-56.11	357.33	1204.48	1203.80	2.09
3789.00	90.11	357.79	2762.60	1295.11	-59.45	357.37	1296.48	1295.77	0.59
3881.00	90.68	357.88	2761.97	1387.04	-62.92	357.40	1388.47	1387.74	0.63
3972.00	91.91	358.58	2759.91	1477.98	-65.73	357.45	1479.44	1478.70	1.56
4109.00	89.85	356.47	2757.81	1614.82	-71.65	357.46	1616.40	1615.61	2.15
4203.00	90.99	357.17	2757.12	1708.67	-76.86	357.42	1710.39	1709.52	1.42
4298.00	89.58	357.17	2756.65	1803.55	-81.55	357.41	1805.39	1804.45	1.48
4391.00	90.24	357.70	2756.79	1896.45	-85.71	357.41	1898.39	1897.40	0.91

4485.00	91.30	358.58	2755.53	1990.39	-88.76	357.45	1992.37	1991.37	1.47
4580.00	89.01	358.49	2755.27	2085.36	-91.19	357.50	2087.35	2086.36	2.41
4671.00	89.41	358.84	2756.53	2176.32	-93.31	357.54	2178.32	2177.35	0.58
4764.00	90.42	359.02	2756.67	2269.30	-95.05	357.60	2271.29	2270.34	1.10
4856.00	91.03	359.55	2755.50	2361.29	-96.20	357.67	2363.25	2362.33	0.88
4947.00	88.66	359.72	2755.75	2452.28	-96.78	357.74	2454.19	2453.33	2.61
5039.00	89.54	359.90	2757.19	2544.27	-97.08	357.81	2546.12	2545.31	0.98
5131.00	90.29	0.16	2757.33	2636.27	-97.03	357.89	2638.05	2637.30	0.86
5223.00	90.90	359.99	2756.37	2728.26	-96.91	357.97	2729.98	2729.28	0.69
5314.00	91.60	359.99	2754.39	2819.24	-96.93	358.03	2820.90	2820.26	0.77
5406.00	88.92	359.99	2753.97	2911.23	-96.95	358.09	2912.84	2912.24	2.91
5498.00	89.19	0.60	2755.49	3003.22	-96.47	358.16	3004.76	3004.21	0.73
5589.00	90.64	1.31	2755.62	3094.20	-94.96	358.24	3095.66	3095.17	1.77
5681.00	89.93	359.64	2755.17	3186.19	-94.19	358.31	3187.58	3187.14	1.97
5776.00	90.55	359.37	2754.77	3281.19	-95.01	358.34	3282.56	3282.14	0.71
5871.00	88.35	359.72	2755.68	3376.17	-95.77	358.38	3377.53	3377.13	2.34
5964.00	88.62	359.64	2758.14	3469.14	-96.29	358.41	3470.47	3470.09	0.30
6058.00	89.36	0.25	2759.80	3563.12	-96.38	358.45	3564.43	3564.07	1.02
6152.00	89.98	0.60	2760.34	3657.12	-95.68	358.50	3658.37	3658.05	0.76
6245.00	91.21	0.95	2759.37	3750.10	-94.42	358.56	3751.29	3751.01	1.38
6339.00	89.14	359.11	2759.08	3844.09	-94.37	358.59	3845.25	3844.99	2.95
6433.00	89.41	358.76	2760.27	3938.07	-96.12	358.60	3939.24	3938.98	0.47
6527.00	90.59	359.46	2760.27	4032.06	-97.58	358.61	4033.24	4032.98	1.46
6620.00	91.78	0.25	2758.35	4125.03	-97.82	358.64	4126.19	4125.95	1.54
6715.00	91.74	359.02	2755.43	4219.98	-98.42	358.66	4221.13	4220.90	1.29
6809.00	92.97	359.02	2751.57	4313.89	-100.03	358.67	4315.05	4314.82	1.31
6904.00	90.07	358.84	2749.05	4408.83	-101.80	358.68	4410.00	4409.78	3.06
6999.00	90.20	358.58	2748.83	4503.80	-103.94	358.68	4505.00	4504.77	0.31
7092.00	88.88	358.84	2749.57	4596.78	-106.03	358.68	4598.00	4597.76	1.45
7186.00	89.41	359.37	2750.98	4690.75	-107.50	358.69	4691.99	4691.75	0.80
7280.00	90.29	359.72	2751.22	4784.75	-108.25	358.70	4785.97	4785.75	1.01
7374.00	90.55	0.16	2750.53	4878.75	-108.35	358.73	4879.95	4879.74	0.54
7468.00	91.16	0.78	2749.13	4972.73	-107.57	358.76	4973.90	4973.71	0.93
7562.00	90.95	357.88	2747.40	5066.70	-108.67	358.77	5067.86	5067.68	3.09
7656.00	91.52	357.61	2745.37	5160.60	-112.37	358.75	5161.83	5161.63	0.67
7750.00	88.92	359.11	2745.01	5254.55	-115.06	358.75	5255.81	5255.60	3.19
7843.00	89.36	359.72	2746.41	5347.54	-116.01	358.76	5348.80	5348.59	0.81
7938.00	90.51	0.43	2746.52	5442.54	-115.89	358.78	5443.77	5443.58	1.42

8032.00	91.96	0.87	2744.49	5536.51	-114.82	358.81	5537.70	5537.53	1.61
8125.00	93.41	1.48	2740.13	5629.38	-112.92	358.85	5630.51	5630.37	1.69

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8187.00	93.41	1.48	2736.45	5691.25	-111.32	358.88	5692.34	5692.21	0.00

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