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Directional Survey



Survey Report

30-015-45114

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 06 2018

RECEIVED

Service Company: Wellbenders Directional Services

Location: Eddy County

Well: Rose 3H

Rig: Silver Oak #1

API or UWI: 30-015-45114

Job Number: NMDG2018-1115

State: New Mexico

Operating Company: Percussion Petroleum Operating

County: Eddy

Magnetic Declination: 7.32

Country: United States

Proposed Azimuth: 270.31

Comment

North Reference: GRID

Latitude: 32.680508

Longitude: -104.427371

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
133.00	0.22	342.01	133.00	0.24	-0.08	342.01	0.26	0.08	0.17
225.00	0.18	277.32	225.00	0.43	-0.28	327.19	0.51	0.28	0.24
317.00	0.18	289.45	317.00	0.50	-0.56	311.71	0.75	0.56	0.04
409.00	0.84	278.81	408.99	0.65	-1.36	295.46	1.51	1.36	0.72
500.00	1.80	236.98	499.97	-0.03	-3.22	269.48	3.22	3.22	1.43
592.00	4.62	235.22	591.82	-2.93	-7.47	248.58	8.03	7.46	3.07
683.00	7.25	235.04	682.32	-8.31	-15.19	241.31	17.32	15.14	2.89
775.00	9.10	229.51	773.38	-16.36	-25.48	237.29	30.28	25.39	2.18
868.00	10.15	222.48	865.08	-27.18	-36.61	233.41	45.60	36.46	1.69
960.00	10.59	219.84	955.57	-39.65	-47.50	230.14	61.88	47.28	0.70
1052.00	10.68	219.93	1045.99	-52.68	-58.39	227.94	78.64	58.10	0.10
1143.00	10.64	221.42	1135.42	-65.45	-69.36	226.66	95.36	69.00	0.31
1180.00	10.68	222.30	1171.79	-70.54	-73.92	226.34	102.18	73.54	0.45
1263.00	10.33	222.48	1253.39	-81.72	-84.13	225.83	117.28	83.68	0.42
1358.00	9.98	223.36	1346.91	-93.99	-95.53	225.47	134.01	95.02	0.40
1452.00	9.76	221.60	1439.51	-105.87	-106.41	225.15	150.11	105.84	0.40
1546.00	9.36	221.16	1532.21	-117.58	-116.73	224.79	165.69	116.10	0.43

1639.00	10.55	227.31	1623.81	-129.05	-127.97	224.76	181.74	127.27	1.71
1732.00	10.77	230.12	1715.21	-140.39	-140.90	225.10	198.90	140.13	0.61
1826.00	10.55	230.03	1807.58	-151.55	-154.23	225.50	216.23	153.41	0.23
1921.00	10.42	231.35	1901.00	-162.50	-167.61	225.89	233.45	166.72	0.29
2015.00	10.33	231.62	1993.46	-173.05	-180.85	226.26	250.30	179.91	0.11
2108.00	10.59	228.28	2084.92	-183.91	-193.77	226.49	267.15	192.77	0.71
2201.00	10.77	227.93	2176.30	-195.42	-206.59	226.59	284.38	205.53	0.21
2293.00	10.81	228.54	2266.68	-206.89	-219.44	226.69	301.59	218.32	0.13
2385.00	10.64	230.21	2357.07	-218.04	-232.43	226.83	318.69	231.25	0.39
2477.00	11.34	235.22	2447.39	-228.64	-246.39	227.14	336.13	245.15	1.29
2523.00	14.95	247.00	2492.18	-233.54	-255.57	227.58	346.20	254.30	9.73
2568.00	19.74	253.77	2535.13	-237.93	-268.22	228.42	358.54	266.93	11.53
2614.00	25.10	259.65	2577.64	-241.86	-285.29	229.71	374.01	283.98	12.62
2660.00	29.14	263.78	2618.58	-244.83	-306.03	231.34	391.91	304.70	9.68
2706.00	34.73	266.16	2657.60	-246.92	-330.26	233.22	412.36	328.92	12.45
2751.00	37.89	267.56	2693.86	-248.37	-356.86	235.16	434.78	355.51	7.26
2797.00	41.49	268.79	2729.25	-249.29	-386.22	237.16	459.68	384.86	8.01
2843.00	44.79	268.79	2762.81	-249.95	-417.66	239.10	486.74	416.30	7.17
2889.00	49.05	268.36	2794.22	-250.79	-451.24	240.94	516.25	449.88	9.29
2936.00	53.10	267.39	2823.75	-252.16	-487.77	242.66	549.09	486.40	8.77
2982.00	56.97	265.63	2850.11	-254.47	-525.39	244.16	583.77	524.00	8.98
3028.00	60.88	265.02	2873.84	-257.68	-564.65	245.47	620.67	563.25	8.58
3074.00	65.10	265.19	2894.73	-261.18	-605.47	246.67	659.40	604.05	9.18
3120.00	70.42	266.86	2912.14	-264.11	-647.93	247.82	699.69	646.49	12.04
3166.00	74.68	268.36	2925.93	-265.94	-691.76	248.97	741.12	690.32	9.77
3215.00	79.82	268.97	2936.74	-267.05	-739.53	250.15	786.27	738.07	10.56
3261.00	84.13	268.62	2943.16	-268.01	-785.06	251.15	829.54	783.59	9.40
3308.00	90.55	267.30	2945.34	-269.68	-831.95	252.04	874.57	830.48	13.94
3355.00	93.27	267.12	2943.77	-271.96	-878.86	252.81	919.98	877.38	5.80
3415.00	94.42	267.48	2939.75	-274.78	-938.66	253.68	978.05	937.16	2.01
3507.00	91.43	269.06	2935.05	-277.56	-1030.49	254.93	1067.21	1028.97	3.67
3598.00	90.11	269.41	2933.83	-278.77	-1121.47	256.04	1155.60	1119.94	1.50
3690.00	88.57	268.88	2934.89	-280.14	-1213.45	257.00	1245.37	1211.91	1.77
3783.00	89.05	268.79	2936.82	-282.03	-1306.41	257.82	1336.51	1304.86	0.53
3875.00	89.71	269.41	2937.82	-283.48	-1398.39	258.54	1426.83	1396.84	0.98
3967.00	90.33	269.50	2937.79	-284.35	-1490.39	259.20	1517.27	1488.83	0.68
4010.00	90.73	269.67	2937.39	-284.66	-1533.38	259.48	1559.58	1531.82	1.01
4103.00	91.43	270.03	2935.64	-284.91	-1626.37	260.06	1651.13	1624.80	0.85

4196.00	89.58	269.85	2934.82	-285.01	-1719.36	260.59	1742.82	1717.79	2.00
4291.00	90.24	270.11	2934.97	-285.04	-1814.36	261.07	1836.61	1812.79	0.75
4384.00	90.86	270.20	2934.07	-284.79	-1907.35	261.51	1928.50	1905.78	0.67
4478.00	89.45	270.73	2933.82	-284.02	-2001.35	261.92	2021.40	1999.78	1.60
4571.00	89.54	270.64	2934.64	-282.91	-2094.34	262.31	2113.36	2092.77	0.14
4665.00	90.15	270.82	2934.89	-281.71	-2188.33	262.66	2206.39	2186.77	0.68
4759.00	91.03	270.73	2933.92	-280.44	-2282.31	262.99	2299.48	2280.76	0.94
4827.00	90.90	270.90	2932.78	-279.48	-2350.30	263.22	2366.85	2348.75	0.31
4922.00	90.55	270.55	2931.58	-278.27	-2445.28	263.51	2461.06	2443.74	0.52
5015.00	91.60	270.46	2929.83	-277.45	-2538.26	263.76	2553.38	2536.72	1.13
5107.00	90.37	270.99	2928.25	-276.29	-2630.24	264.00	2644.71	2628.70	1.46
5199.00	90.81	271.17	2927.30	-274.56	-2722.21	264.24	2736.03	2720.69	0.52
5291.00	91.78	271.78	2925.22	-272.19	-2814.16	264.48	2827.29	2812.65	1.25
5382.00	90.99	271.78	2923.02	-269.36	-2905.09	264.70	2917.55	2903.59	0.87
5474.00	90.59	270.73	2921.76	-267.35	-2997.06	264.90	3008.96	2995.57	1.22
5565.00	91.43	271.34	2920.15	-265.71	-3088.03	265.08	3099.44	3086.54	1.14
5700.00	91.25	270.29	2917.00	-263.79	-3222.97	265.32	3233.75	3221.50	0.79
5793.00	90.33	270.20	2915.71	-263.39	-3315.96	265.46	3326.41	3314.49	0.99
5887.00	90.51	270.11	2915.02	-263.13	-3409.96	265.59	3420.10	3408.49	0.21
5981.00	91.03	270.73	2913.76	-262.45	-3503.95	265.72	3513.76	3502.48	0.86
6076.00	90.37	270.29	2912.60	-261.60	-3598.94	265.84	3608.43	3597.47	0.83
6170.00	90.24	270.03	2912.10	-261.34	-3692.93	265.95	3702.17	3691.47	0.31
6264.00	90.77	270.55	2911.27	-260.86	-3786.93	266.06	3795.90	3785.46	0.79
6357.00	91.12	269.41	2909.74	-260.89	-3879.91	266.15	3888.68	3878.45	1.28
6452.00	92.00	269.41	2907.15	-261.87	-3974.87	266.23	3983.49	3973.40	0.93
6545.00	92.84	270.29	2903.22	-262.12	-4067.79	266.31	4076.22	4066.31	1.31
6639.00	92.53	269.76	2898.82	-262.07	-4161.68	266.40	4169.93	4160.21	0.65
6733.00	92.79	269.41	2894.46	-262.75	-4255.58	266.47	4263.68	4254.10	0.46
6826.00	93.23	269.85	2889.57	-263.35	-4348.45	266.53	4356.42	4346.96	0.67
6920.00	92.04	269.32	2885.25	-264.03	-4442.35	266.60	4450.19	4440.85	1.39
7015.00	91.78	269.06	2882.09	-265.38	-4537.28	266.65	4545.04	4535.78	0.39
7108.00	92.04	269.41	2878.99	-266.62	-4630.22	266.70	4637.89	4628.71	0.47
7203.00	92.35	269.59	2875.35	-267.45	-4725.15	266.76	4732.71	4723.63	0.38
7297.00	92.70	269.85	2871.21	-267.90	-4819.06	266.82	4826.50	4817.54	0.46
7391.00	93.01	270.20	2866.53	-267.86	-4912.94	266.88	4920.24	4911.42	0.50
7484.00	91.82	270.20	2862.61	-267.54	-5005.86	266.94	5013.00	5004.33	1.28
7577.00	92.13	270.46	2859.40	-267.00	-5098.80	267.00	5105.78	5097.28	0.43
7669.00	92.40	270.90	2855.77	-265.91	-5190.72	267.07	5197.53	5189.21	0.56

7761.00	92.88	271.08	2851.53	-264.33	-5282.61	267.14	5289.22	5281.10	0.56
7853.00	90.99	270.90	2848.42	-262.74	-5374.54	267.20	5380.96	5373.04	2.06
7944.00	90.77	270.82	2847.02	-261.37	-5465.52	267.26	5471.76	5464.02	0.26
8036.00	91.08	271.26	2845.54	-259.70	-5557.49	267.32	5563.55	5556.00	0.58
8127.00	91.65	271.61	2843.37	-257.42	-5648.43	267.39	5654.30	5646.96	0.73
8219.00	91.03	270.82	2841.22	-255.47	-5740.39	267.45	5746.07	5738.92	1.09
8312.00	90.68	270.11	2839.83	-254.72	-5833.37	267.50	5838.93	5831.91	0.85
8404.00	90.68	270.38	2838.74	-254.33	-5925.37	267.54	5930.82	5923.90	0.29
8455.00	90.77	270.46	2838.10	-253.95	-5976.36	267.57	5981.75	5974.90	0.24

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8525.00	90.77	270.46	2837.15	-253.39	-6046.35	267.60	6051.66	6044.89	0.00

DigiDrill DataLogger

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