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MAY 29 2019



DISTRICT II-ARTESIA O.C.D.

Survey Report

Service Company: Wellbenders

Location: Artesia

Well: Ross Ranch 22 9H ST01

Rig: Akita 20

API or UWI: 30-015-45252

Job Number: NMDG 2019-1044

State: New Mexico

Operating Company: Percussion Petroleum

County: Eddy

Magnetic Declination: 7.31

Country: United States

Proposed Azimuth: 359.91

Comment

North Reference: GRID

Latitude: 32.637213

Longitude: -104.479324

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
1550.00	0.73	43.93	1549.86	17.49	8.12

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
1648.00	1.19	39.21	1647.85	18.73	9.20	26.15	20.86	18.71	0.48
1680.00	1.19	33.67	1679.84	19.26	9.59	26.47	21.52	19.25	0.36
1743.00	1.27	38.24	1742.82	20.35	10.39	27.03	22.85	20.34	0.20
1838.00	1.98	11.96	1837.79	22.79	11.38	26.53	25.47	22.77	1.07
1885.00	3.38	359.31	1884.73	24.97	11.53	24.79	27.50	24.95	3.22
1932.00	8.57	347.88	1931.46	29.78	10.78	19.89	31.67	29.76	11.27
1979.00	15.43	347.00	1977.41	39.31	8.63	12.39	40.24	39.29	14.60
2026.00	23.25	347.97	2021.72	54.50	5.29	5.54	54.75	54.49	16.65
2074.00	31.82	349.73	2064.25	76.25	1.05	0.79	76.26	76.25	17.93
2120.00	40.04	349.81	2101.46	102.80	-3.74	357.92	102.86	102.80	17.87
2167.00	47.03	349.29	2135.52	134.61	-9.62	355.91	134.95	134.62	14.89
2214.00	52.00	347.79	2166.02	169.63	-16.73	354.37	170.45	169.65	10.85
2261.00	53.89	347.44	2194.34	206.26	-24.78	353.15	207.74	206.30	4.06
2307.00	55.12	347.71	2221.05	242.84	-32.84	352.30	245.05	242.89	2.72
2355.00	56.09	348.06	2248.17	281.56	-41.15	351.69	284.55	281.63	2.11
2402.00	57.01	348.32	2274.07	319.95	-49.17	351.26	323.70	320.02	2.01

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
2449.00	57.58	348.14	2299.47	358.66	-57.24	350.93	363.20	358.75	1.25
2496.00	56.13	347.53	2325.16	397.13	-65.53	350.63	402.50	397.23	3.27
2543.00	56.70	347.44	2351.16	435.35	-74.02	350.35	441.60	435.47	1.22
2591.00	57.36	347.53	2377.28	474.67	-82.74	350.11	481.82	474.80	1.38
2638.00	58.29	347.79	2402.31	513.53	-91.24	349.92	521.57	513.67	2.03
2685.00	59.30	347.97	2426.66	552.83	-99.68	349.78	561.75	552.99	2.17
2732.00	60.26	348.23	2450.32	592.57	-108.06	349.67	602.34	592.74	2.10
2780.00	63.78	347.88	2472.83	634.04	-116.83	349.56	644.71	634.22	7.36
2827.00	67.52	347.27	2492.21	675.84	-126.05	349.44	687.50	676.04	8.04
2875.00	72.53	346.56	2508.60	719.77	-136.26	349.28	732.55	719.98	10.53
2922.00	77.63	346.56	2520.70	763.93	-146.81	349.12	777.91	764.16	10.85
2969.00	83.30	347.62	2528.48	809.09	-157.16	349.01	824.21	809.33	12.27
3016.00	87.65	348.94	2532.19	854.95	-166.67	348.97	871.05	855.21	9.67
3064.00	89.19	352.72	2533.51	902.31	-174.32	349.07	919.00	902.58	8.50
3111.00	89.71	356.58	2533.96	949.10	-178.70	349.34	965.77	949.38	8.29
3158.00	89.14	359.48	2534.44	996.06	-180.32	349.74	1012.25	996.34	6.29
3205.00	89.98	1.68	2534.80	1043.05	-179.84	350.22	1058.44	1043.33	5.01
3252.00	91.12	1.77	2534.35	1090.03	-178.43	350.70	1104.54	1090.31	2.43
3370.00	93.93	357.81	2529.15	1207.88	-178.85	351.58	1221.05	1208.16	4.11
3464.00	91.65	357.72	2524.57	1301.69	-182.51	352.02	1314.42	1301.97	2.43
3559.00	91.30	358.60	2522.12	1396.61	-185.56	352.43	1408.88	1396.90	1.00
3653.00	90.95	358.96	2520.28	1490.57	-187.56	352.83	1502.32	1490.86	0.53
3748.00	90.64	358.52	2518.96	1585.54	-189.65	353.18	1596.84	1585.83	0.57
3842.00	89.67	358.43	2518.71	1679.50	-192.15	353.47	1690.46	1679.80	1.04
3937.00	89.93	358.52	2519.04	1774.47	-194.68	353.74	1785.11	1774.77	0.29
4032.00	90.20	358.87	2518.93	1869.44	-196.85	353.99	1879.78	1869.75	0.47
4127.00	90.42	359.04	2518.42	1964.42	-198.58	354.23	1974.44	1964.73	0.29
4221.00	90.73	359.39	2517.47	2058.41	-199.87	354.45	2068.09	2058.72	0.50
4316.00	89.14	359.57	2517.58	2153.40	-200.73	354.67	2162.74	2153.72	1.68
4411.00	89.41	359.83	2518.78	2248.39	-201.23	354.89	2257.38	2248.71	0.39
4506.00	89.49	359.92	2519.70	2343.39	-201.43	355.09	2352.03	2343.70	0.13
4600.00	89.67	0.10	2520.38	2437.39	-201.42	355.28	2445.70	2437.70	0.27
4695.00	89.63	0.54	2520.96	2532.38	-200.89	355.46	2540.34	2532.70	0.47
4790.00	89.32	0.01	2521.84	2627.38	-200.43	355.64	2635.01	2627.69	0.65
4884.00	89.80	0.19	2522.56	2721.38	-200.27	355.79	2728.73	2721.69	0.55
4979.00	90.02	359.83	2522.71	2816.37	-200.25	355.93	2823.48	2816.69	0.44
5073.00	90.07	359.83	2522.63	2910.37	-200.53	356.06	2917.27	2910.69	0.05

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5168.00	90.24	0.10	2522.38	3005.37	-200.59	356.18	3012.06	3005.69	0.34
5263.00	90.46	0.10	2521.80	3100.37	-200.42	356.30	3106.84	3100.68	0.23
5358.00	90.64	0.36	2520.88	3195.37	-200.04	356.42	3201.62	3195.68	0.33
5452.00	90.68	0.63	2519.80	3289.36	-199.23	356.53	3295.38	3289.67	0.29
5547.00	90.68	0.98	2518.67	3384.34	-197.89	356.65	3390.12	3384.65	0.37
5641.00	90.86	1.06	2517.41	3478.32	-196.22	356.77	3483.85	3478.62	0.21
5735.00	90.64	1.33	2516.18	3572.29	-194.26	356.89	3577.57	3572.59	0.37
5830.00	90.64	1.86	2515.12	3667.25	-191.62	357.01	3672.25	3667.54	0.56
5924.00	89.58	1.42	2514.94	3761.21	-188.93	357.12	3765.95	3761.50	1.22
6019.00	89.54	0.54	2515.67	3856.19	-187.30	357.22	3860.73	3856.48	0.93
6113.00	90.77	0.45	2515.41	3950.18	-186.49	357.30	3954.58	3950.47	1.31
6207.00	91.43	0.01	2513.61	4044.16	-186.11	357.37	4048.44	4044.45	0.84
6302.00	90.95	359.31	2511.64	4139.14	-186.68	357.42	4143.35	4139.43	0.89
6397.00	91.08	358.52	2509.95	4234.11	-188.47	357.45	4238.30	4234.40	0.84
6491.00	91.34	358.78	2507.97	4328.06	-190.69	357.48	4332.26	4328.35	0.39
6582.00	89.93	358.52	2506.96	4419.03	-192.83	357.50	4423.23	4419.32	1.58
6674.00	89.80	358.87	2507.18	4511.00	-194.93	357.53	4515.21	4511.30	0.41
6764.00	89.36	358.87	2507.84	4600.98	-196.70	357.55	4605.19	4601.29	0.49
6855.00	89.41	358.25	2508.81	4691.95	-198.99	357.57	4696.17	4692.25	0.68
6946.00	89.05	357.72	2510.04	4782.88	-202.19	357.58	4787.15	4783.19	0.70
7037.00	90.11	358.08	2510.70	4873.82	-205.52	357.59	4878.15	4874.13	1.23
7128.00	90.59	358.25	2510.15	4964.77	-208.44	357.60	4969.14	4965.09	0.56
7219.00	91.08	358.52	2508.82	5055.72	-211.00	357.61	5060.12	5056.05	0.61
7309.00	91.47	359.04	2506.82	5145.68	-212.92	357.63	5150.08	5146.01	0.72
7399.00	90.90	359.39	2504.96	5235.65	-214.15	357.66	5240.03	5235.98	0.74
7491.00	91.43	359.83	2503.09	5327.63	-214.78	357.69	5331.96	5327.96	0.75
7582.00	89.89	359.83	2502.04	5418.62	-215.04	357.73	5422.89	5418.95	1.69
7673.00	89.85	0.10	2502.24	5509.62	-215.10	357.76	5513.82	5509.95	0.30
7764.00	89.93	0.10	2502.42	5600.62	-214.94	357.80	5604.74	5600.95	0.09
7855.00	90.29	0.36	2502.24	5691.62	-214.58	357.84	5695.66	5691.95	0.49
7946.00	89.93	0.36	2502.07	5782.62	-214.00	357.88	5786.58	5782.95	0.40
8041.00	90.29	1.15	2501.89	5877.61	-212.75	357.93	5881.46	5877.93	0.91
8125.00	90.59	1.15	2501.24	5961.59	-211.07	357.97	5965.32	5961.91	0.36

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8180.00	90.59	1.15	2500.68	6016.57	-209.96	358.00	6020.24	6016.90	0.00