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AUG 12 2019

DISTRICT 7 - ARTESIA O.C.D.



Survey Report

Service Company: Wellbenders

Location: 18 Miles South of Artesia

Well: Huber Fed 10H

Rig: Akita 20

API or UWI: 30-015-44848

Job Number: NMDG 2019-1009

State: NM

Operating Company: Percussion

County: Eddy

Magnetic Declination: 0.00

Country: USA

Proposed Azimuth: 180.15

Comment

North Reference: GRID

Latitude: 32.610978

Longitude: -104.473491

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
135.00	0.44	327.68	135.00	0.44	-0.28	327.68	0.52	-0.44	0.33
227.00	1.01	306.58	226.99	1.22	-1.12	317.52	1.65	-1.22	0.67
318.00	1.80	354.04	317.97	3.12	-1.91	328.53	3.66	-3.11	1.47
411.00	3.47	14.79	410.87	7.29	-1.34	349.57	7.42	-7.29	2.04
502.00	5.93	24.98	501.55	14.22	1.35	5.41	14.28	-14.22	2.84
591.00	8.75	28.76	589.82	24.32	6.55	15.06	25.19	-24.34	3.21
682.00	10.68	32.45	679.51	37.51	14.40	21.00	40.18	-37.54	2.23
773.00	10.99	32.45	768.89	51.94	23.58	24.42	57.04	-52.00	0.34
863.00	10.81	34.12	857.26	66.17	32.92	26.45	73.90	-66.25	0.40
955.00	10.90	33.68	947.62	80.55	42.58	27.86	91.11	-80.66	0.13
1046.00	10.68	37.02	1037.01	94.44	52.43	29.04	108.02	-94.58	0.73
1135.00	10.73	39.84	1124.46	107.39	62.70	30.28	124.35	-107.55	0.59
1221.00	10.81	40.27	1208.95	119.69	73.04	31.39	140.22	-119.88	0.13
1365.00	10.46	40.41	1350.47	139.95	90.25	32.82	166.52	-140.18	0.24
1459.00	9.27	50.52	1443.09	151.26	101.62	33.90	182.22	-151.52	2.23
1554.00	8.79	60.45	1536.91	159.70	113.84	35.48	196.13	-160.00	1.71

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
1648.00	8.53	77.94	1629.86	164.70	126.91	37.62	207.93	-165.03	2.80
1743.00	11.47	96.31	1723.43	165.14	143.20	40.93	218.58	-165.51	4.53
1790.00	11.87	97.98	1769.46	163.95	152.63	42.95	224.00	-164.35	1.11
1837.00	11.38	109.67	1815.50	161.72	161.78	45.01	228.75	-162.14	5.11
1884.00	11.34	124.26	1861.59	157.56	169.97	47.17	231.76	-158.00	6.10
1932.00	12.57	136.57	1908.55	151.11	177.46	49.59	233.08	-151.57	5.88
1979.00	13.98	146.50	1954.30	142.66	184.11	52.23	232.91	-143.14	5.69
2026.00	15.74	157.66	1999.74	132.02	189.67	55.16	231.10	-132.52	7.13
2073.00	18.33	166.45	2044.68	118.94	193.83	58.47	227.41	-119.44	7.76
2121.00	21.63	174.01	2089.79	102.79	196.52	62.39	221.78	-103.31	8.72
2168.00	24.53	179.02	2133.03	84.42	197.59	66.87	214.87	-84.93	7.45
2215.00	27.21	181.30	2175.32	63.92	197.52	72.07	207.60	-64.43	6.08
2262.00	30.51	182.97	2216.48	41.25	196.65	78.15	200.93	-41.77	7.23
2309.00	34.24	182.97	2256.16	16.12	195.35	85.28	196.01	-16.63	7.94
2356.00	37.49	183.06	2294.25	-11.37	193.90	93.36	194.23	10.86	6.92
2404.00	39.96	182.45	2331.69	-41.36	192.46	102.13	196.86	40.86	5.21
2451.00	42.64	182.09	2367.00	-72.35	191.24	110.72	204.47	71.85	5.72
2499.00	45.36	181.30	2401.52	-105.68	190.26	119.05	217.64	105.18	5.78
2546.00	45.54	181.13	2434.50	-139.17	189.54	126.29	235.15	138.67	0.46
2594.00	45.71	181.39	2468.06	-173.47	188.79	132.58	256.38	172.97	0.52
2641.00	47.12	182.09	2500.47	-207.50	187.75	137.86	279.83	207.00	3.19
2688.00	52.13	183.41	2530.90	-243.25	186.02	142.59	306.22	242.76	10.87
2735.00	57.71	185.08	2557.91	-281.58	183.16	146.96	335.91	281.10	12.22
2783.00	63.03	185.43	2581.63	-323.12	179.33	150.97	369.55	322.65	11.10
2830.00	68.70	183.76	2600.84	-365.85	175.91	154.32	405.95	365.39	12.49
2877.00	74.90	183.06	2615.51	-410.40	173.26	157.11	445.48	409.95	13.27
2924.00	80.84	182.53	2625.38	-456.28	171.03	159.45	487.28	455.83	12.69
2971.00	83.69	181.83	2631.71	-502.81	169.26	161.40	530.53	502.36	6.24
3065.00	89.93	181.39	2636.94	-596.58	166.62	164.40	619.41	596.14	6.65
3160.00	91.12	180.86	2636.07	-691.56	164.76	166.60	710.91	691.12	1.37
3255.00	91.16	179.55	2634.18	-786.53	164.42	168.19	803.53	786.10	1.38
3349.00	89.54	178.49	2633.60	-880.51	166.02	169.32	896.03	880.08	2.06
3443.00	89.93	178.58	2634.04	-974.48	168.43	170.19	988.93	974.04	0.43
3565.00	89.49	179.02	2634.66	-1096.45	170.98	171.14	1109.70	1096.00	0.51
3660.00	88.97	178.84	2635.93	-1191.43	172.76	171.75	1203.89	1190.97	0.58
3754.00	88.97	178.49	2637.62	-1285.39	174.95	172.25	1297.24	1284.92	0.37
3849.00	89.58	178.49	2638.82	-1380.35	177.45	172.67	1391.70	1379.88	0.64

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
3944.00	90.02	179.37	2639.16	-1475.33	179.22	173.07	1486.17	1474.85	1.04
4038.00	90.07	179.28	2639.08	-1569.32	180.33	173.44	1579.65	1568.84	0.11
4133.00	90.20	179.72	2638.86	-1664.32	181.16	173.79	1674.15	1663.84	0.48
4227.00	90.11	180.34	2638.60	-1758.32	181.11	174.12	1767.62	1757.84	0.67
4321.00	89.80	180.60	2638.68	-1852.31	180.34	174.44	1861.07	1851.83	0.43
4416.00	90.37	180.86	2638.54	-1947.30	179.13	174.74	1955.53	1946.83	0.66
4511.00	90.07	181.39	2638.17	-2042.28	177.26	175.04	2049.96	2041.81	0.64
4606.00	89.67	181.65	2638.39	-2137.25	174.74	175.33	2144.38	2136.79	0.50
4701.00	90.37	181.57	2638.35	-2232.21	172.07	175.59	2238.84	2231.75	0.74
4793.00	90.77	181.13	2637.44	-2324.18	169.91	175.82	2330.38	2323.73	0.65
4888.00	91.74	181.48	2635.36	-2419.13	167.74	176.03	2424.94	2418.69	1.09
4983.00	90.90	180.60	2633.17	-2514.09	166.02	176.22	2519.57	2513.65	1.28
5077.00	91.03	179.90	2631.59	-2608.08	165.61	176.37	2613.33	2607.63	0.76
5172.00	91.34	180.25	2629.62	-2703.06	165.49	176.50	2708.12	2702.61	0.49
5266.00	91.69	179.55	2627.14	-2797.02	165.65	176.61	2801.92	2796.58	0.83
5361.00	91.30	180.07	2624.66	-2891.99	165.96	176.72	2896.75	2891.54	0.68
5456.00	90.81	180.25	2622.91	-2986.97	165.70	176.82	2991.56	2986.53	0.55
5551.00	90.20	180.51	2622.07	-3081.97	165.07	176.93	3086.38	3081.52	0.70
5643.00	89.58	180.95	2622.25	-3173.96	163.90	177.04	3178.19	3173.52	0.83
5735.00	89.36	180.42	2623.10	-3265.95	162.80	177.15	3270.00	3265.51	0.62
5827.00	89.54	179.90	2623.98	-3357.94	162.54	177.23	3361.87	3357.50	0.60
5919.00	89.67	179.90	2624.62	-3449.94	162.70	177.30	3453.77	3449.50	0.14
6010.00	90.02	179.99	2624.86	-3540.94	162.79	177.37	3544.68	3540.50	0.40
6099.00	90.46	180.34	2624.49	-3629.94	162.53	177.44	3633.57	3629.50	0.63
6190.00	89.80	180.69	2624.28	-3720.93	161.71	177.51	3724.44	3720.50	0.82
6281.00	90.33	180.69	2624.18	-3811.93	160.62	177.59	3815.31	3811.49	0.58
6372.00	90.11	181.65	2623.83	-3902.90	158.76	177.67	3906.13	3902.48	1.08
6462.00	89.54	181.92	2624.11	-3992.86	155.96	177.76	3995.90	3992.44	0.70
6554.00	89.58	182.01	2624.81	-4084.80	152.80	177.86	4087.66	4084.39	0.11
6644.00	88.92	180.86	2625.99	-4174.77	150.55	177.93	4177.48	4174.36	1.47
6736.00	88.79	179.37	2627.83	-4266.74	150.36	177.98	4269.39	4266.34	1.63
6827.00	89.41	178.23	2629.26	-4357.71	152.27	178.00	4360.37	4357.30	1.43
6919.00	90.11	178.14	2629.64	-4449.66	155.18	178.00	4452.37	4449.24	0.77
7009.00	90.64	178.14	2629.05	-4539.61	158.10	178.01	4542.37	4539.18	0.59
7100.00	90.77	177.70	2627.93	-4630.55	161.41	178.00	4633.36	4630.11	0.50
7194.00	90.95	178.32	2626.52	-4724.48	164.67	178.00	4727.35	4724.03	0.69
7289.00	90.64	178.32	2625.21	-4819.43	167.46	178.01	4822.34	4818.97	0.33

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
7384.00	90.11	178.67	2624.58	-4914.39	169.95	178.02	4917.33	4913.93	0.67
7479.00	90.29	179.19	2624.25	-5009.38	171.72	178.04	5012.32	5008.91	0.58
7573.00	90.95	180.51	2623.24	-5103.37	171.97	178.07	5106.26	5102.90	1.57
7668.00	90.64	180.42	2621.92	-5198.35	171.20	178.11	5201.17	5197.89	0.34
7763.00	90.33	180.51	2621.11	-5293.35	170.43	178.16	5296.09	5292.88	0.34
7858.00	89.93	182.01	2620.90	-5388.32	168.34	178.21	5390.95	5387.86	1.63
7952.00	89.58	181.30	2621.30	-5482.28	165.63	178.27	5484.78	5481.83	0.84
8046.00	89.27	181.04	2622.24	-5576.26	163.71	178.32	5578.66	5575.81	0.43
8087.00	89.10	181.04	2622.83	-5617.25	162.96	178.34	5619.61	5616.80	0.41

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8143.00	89.10	181.04	2623.71	-5673.23	161.95	178.36	5675.54	5672.79	0.00