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DISTRICT II-ARTESIA O.C.D



Survey Report

Service Company: Intrepid Directional Drilling Specialists

Location: (Zeus State) Sec-9_T24-S_R-33-E

Well: Zeus Unit State #203H

Rig: H&P 388

API or UWI: 30-025-45757

Job Number: ID2180

State: New Mexico

Operating Company: Tap Rock Resources, LLC.

County: Lea

Magnetic Declination: 6.35

Country: United States

Proposed Azimuth: 359.59

Comment

North Reference: GRID

Latitude: 32.21725

Longitude: -103.56715

HOBBS OCD
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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
246.00	0.48	168.70	246.00	-1.01	0.20	168.70	1.03	-1.01	0.20
341.00	0.62	173.63	340.99	-1.91	0.34	170.00	1.94	-1.91	0.16
435.00	0.88	230.40	434.99	-2.88	-0.16	183.24	2.88	-2.88	0.80
548.00	1.49	231.63	547.96	-4.34	-1.98	204.55	4.77	-4.33	0.54
670.00	2.42	234.09	669.89	-6.84	-5.31	217.85	8.66	-6.80	0.77
793.00	3.03	233.13	792.75	-10.31	-10.02	224.17	14.38	-10.24	0.50
916.00	3.69	228.29	915.54	-14.90	-15.57	226.27	21.55	-14.78	0.58

1038.00	4.40	219.33	1037.23	-21.13	-21.47	225.46	30.12	-20.97	0.78
1161.00	5.41	215.64	1159.78	-29.49	-27.84	223.35	40.55	-29.29	0.86
1299.00	7.34	216.34	1296.92	-41.88	-36.85	221.35	55.79	-41.61	1.40
1443.00	7.16	217.55	1439.77	-56.40	-47.77	220.27	73.92	-56.06	0.16
1538.00	7.96	218.96	1533.94	-66.21	-55.52	219.98	86.41	-65.81	0.86
1633.00	9.14	218.43	1627.89	-77.24	-64.34	219.80	100.53	-76.78	1.24
1728.00	9.14	218.08	1721.68	-89.09	-73.69	219.60	115.61	-88.56	0.06
1822.00	9.23	218.27	1814.48	-100.88	-82.96	219.43	130.61	-100.29	0.10
1917.00	9.23	218.52	1908.25	-112.83	-92.43	219.32	145.85	-112.16	0.04
2012.00	9.27	218.78	2002.01	-124.75	-101.96	219.26	161.12	-124.02	0.06
2107.00	9.41	219.05	2095.75	-136.75	-111.65	219.23	176.54	-135.94	0.15
2202.00	8.53	214.83	2189.59	-148.56	-120.57	219.06	191.33	-147.70	1.16
2297.00	8.35	213.33	2283.56	-160.11	-128.38	218.72	205.22	-159.19	0.30
2391.00	8.35	214.74	2376.56	-171.42	-136.02	218.43	218.83	-170.44	0.22
2486.00	8.26	215.27	2470.57	-182.66	-143.89	218.23	232.53	-181.63	0.12
2581.00	8.04	215.53	2564.61	-193.64	-151.69	218.07	245.98	-192.55	0.23
2676.00	7.78	215.09	2658.70	-204.31	-159.25	217.94	259.04	-203.16	0.28
2771.00	7.60	215.00	2752.85	-214.71	-166.55	217.80	271.74	-213.52	0.19
2866.00	7.47	214.91	2847.03	-224.92	-173.69	217.68	284.18	-223.68	0.14
2960.00	7.30	215.62	2940.25	-234.79	-180.66	217.58	296.25	-233.49	0.21
3055.00	7.16	214.91	3034.49	-244.55	-187.56	217.49	308.20	-243.20	0.17
3150.00	7.08	214.48	3128.76	-254.23	-194.27	217.38	319.96	-252.84	0.10
3245.00	7.47	213.60	3223.00	-264.20	-201.00	217.26	331.97	-262.76	0.43
3340.00	7.91	213.60	3317.14	-274.79	-208.03	217.13	344.66	-273.29	0.46
3435.00	7.65	213.24	3411.27	-285.52	-215.12	216.99	357.49	-283.98	0.28
3529.00	7.69	213.07	3504.43	-296.03	-221.98	216.86	370.01	-294.43	0.05
3624.00	7.47	212.63	3598.60	-306.55	-228.78	216.73	382.51	-304.91	0.24
3719.00	7.38	213.07	3692.80	-316.87	-235.44	216.61	394.76	-315.17	0.11
3813.00	7.16	212.81	3786.04	-326.85	-241.90	216.51	406.63	-325.11	0.24

3908.00	6.77	212.28	3880.34	-336.56	-248.10	216.40	418.12	-334.78	0.42
4003.00	7.43	213.24	3974.61	-346.43	-254.46	216.30	429.84	-344.60	0.71
4098.00	7.82	214.48	4068.77	-356.90	-261.49	216.23	442.44	-355.02	0.45
4193.00	7.38	214.91	4162.94	-367.23	-268.64	216.19	455.00	-365.30	0.47
4287.00	6.95	214.91	4256.20	-376.84	-275.35	216.15	466.72	-374.86	0.46
4382.00	6.29	212.89	4350.57	-385.93	-281.46	216.10	477.66	-383.90	0.74
4477.00	6.55	208.50	4444.98	-395.06	-286.87	215.99	488.23	-392.99	0.58
4572.00	8.13	204.98	4539.19	-405.91	-292.30	215.76	500.20	-403.81	1.73
4667.00	8.92	204.10	4633.14	-418.72	-298.14	215.45	514.02	-416.58	0.84
4761.00	8.53	201.20	4726.06	-431.87	-303.64	215.11	527.93	-429.69	0.63
4856.00	8.48	195.84	4820.01	-445.18	-308.10	214.69	541.40	-442.97	0.84
4951.00	8.57	190.92	4913.97	-458.87	-311.35	214.16	554.53	-456.63	0.77
5007.00	8.40	188.02	4969.35	-467.02	-312.71	213.81	562.04	-464.77	0.82
5127.00	7.96	186.53	5088.13	-483.95	-314.88	213.05	577.37	-481.69	0.41
5221.00	7.69	203.93	5181.27	-496.17	-318.17	212.67	589.42	-493.88	2.53
5316.00	7.91	215.18	5275.40	-507.32	-324.51	212.61	602.23	-504.99	1.62
5410.00	8.31	217.90	5368.46	-517.97	-332.41	212.69	615.46	-515.58	0.59
5505.00	8.18	217.99	5462.47	-528.71	-340.79	212.80	629.03	-526.26	0.14
5600.00	7.34	215.71	5556.60	-538.97	-348.49	212.89	641.82	-536.46	0.94
5695.00	5.63	222.12	5650.99	-547.35	-355.16	212.98	652.48	-544.80	1.95
5790.00	4.40	241.90	5745.63	-552.52	-361.50	213.20	660.28	-549.92	2.22
5884.00	4.09	249.10	5839.38	-555.42	-367.81	213.51	666.17	-552.77	0.66
5979.00	4.09	246.38	5934.14	-557.98	-374.08	213.84	671.78	-555.29	0.20
6073.00	3.12	262.99	6027.95	-559.64	-379.69	214.16	676.29	-556.91	1.51
6168.00	2.37	274.15	6122.84	-559.81	-384.22	214.46	678.98	-557.05	0.97
6262.00	2.37	273.71	6216.76	-559.55	-388.10	214.74	680.96	-556.76	0.02
6357.00	2.51	274.59	6311.68	-559.25	-392.13	215.04	683.03	-556.43	0.15
6452.00	0.97	242.95	6406.63	-559.45	-394.92	215.22	684.80	-556.61	1.85
6547.00	0.75	229.15	6501.62	-560.23	-396.11	215.26	686.11	-557.38	0.32

6642.00	0.66	228.45	6596.61	-560.99	-396.99	215.29	687.25	-558.14	0.10
6737.00	0.84	237.59	6691.60	-561.73	-397.98	215.32	688.43	-558.87	0.23
6832.00	0.57	238.91	6786.60	-562.35	-398.98	215.36	689.51	-559.48	0.28
6926.00	0.79	254.90	6880.59	-562.76	-400.00	215.40	690.43	-559.88	0.31
7021.00	0.88	258.77	6975.58	-563.07	-401.35	215.48	691.47	-560.18	0.11
7116.00	0.97	245.76	7070.57	-563.54	-402.80	215.56	692.70	-560.65	0.24
7211.00	1.05	261.94	7165.55	-564.00	-404.39	215.64	693.99	-561.09	0.31
7305.00	0.97	241.55	7259.54	-564.50	-405.95	215.72	695.30	-561.58	0.39
7400.00	1.14	241.19	7354.52	-565.33	-407.48	215.78	696.88	-562.40	0.18
7495.00	1.19	240.23	7449.50	-566.28	-409.17	215.85	698.63	-563.34	0.06
7590.00	1.19	234.16	7544.48	-567.35	-410.82	215.91	700.47	-564.39	0.13
7684.00	0.66	30.78	7638.48	-567.45	-411.34	215.94	700.86	-564.49	1.93
7779.00	0.48	32.45	7733.47	-566.65	-410.84	215.94	699.91	-563.69	0.19
7874.00	0.57	40.36	7828.47	-565.95	-410.32	215.94	699.05	-563.00	0.12
7969.00	0.57	30.96	7923.46	-565.19	-409.77	215.94	698.10	-562.24	0.10
8063.00	0.09	296.48	8017.46	-564.75	-409.60	215.95	697.65	-561.81	0.62
8158.00	0.31	36.67	8112.46	-564.51	-409.51	215.96	697.41	-561.57	0.36
8253.00	0.18	203.58	8207.46	-564.44	-409.42	215.96	697.30	-561.50	0.51
8348.00	0.44	216.76	8302.46	-564.87	-409.70	215.95	697.81	-561.93	0.28
8442.00	0.92	219.05	8396.45	-565.75	-410.39	215.96	698.92	-562.80	0.51
8537.00	0.92	200.76	8491.44	-567.05	-411.14	215.94	700.42	-564.10	0.31
8632.00	0.92	158.66	8586.43	-568.48	-411.13	215.88	701.57	-565.52	0.70
8726.00	0.97	164.20	8680.42	-569.95	-410.64	215.77	702.47	-566.99	0.11
8821.00	0.97	155.59	8775.40	-571.45	-410.09	215.66	703.37	-568.50	0.15
8915.00	1.14	174.48	8869.39	-573.11	-409.67	215.56	704.47	-570.16	0.41
9010.00	1.63	169.83	8964.36	-575.38	-409.34	215.43	706.13	-572.43	0.53
9105.00	0.92	191.18	9059.34	-577.46	-409.25	215.33	707.77	-574.51	0.89
9200.00	0.53	205.25	9154.33	-578.60	-409.59	215.29	708.90	-575.65	0.45
9294.00	0.26	340.60	9248.33	-578.79	-409.84	215.30	709.21	-575.85	0.79

9389.00	1.05	349.39	9343.32	-577.73	-410.07	215.37	708.48	-574.78	0.84
9483.00	1.41	355.63	9437.30	-575.73	-410.32	215.48	706.99	-572.78	0.41
9578.00	1.19	1.60	9532.27	-573.58	-410.38	215.58	705.27	-570.63	0.27
9673.00	0.53	13.03	9627.26	-572.17	-410.26	215.64	704.05	-569.22	0.71
9767.00	0.44	177.74	9721.26	-572.11	-410.14	215.64	703.93	-569.16	1.02
9862.00	0.92	191.18	9816.26	-573.22	-410.28	215.59	704.92	-570.27	0.53
9957.00	0.84	231.88	9911.25	-574.40	-410.97	215.58	706.28	-571.44	0.65
10051.00	0.92	240.14	10005.23	-575.20	-412.17	215.62	707.63	-572.23	0.16
10145.00	1.27	286.72	10099.22	-575.27	-413.82	215.73	708.65	-572.30	0.98
10240.00	1.41	253.76	10194.19	-575.30	-415.95	215.87	709.92	-572.31	0.81
10335.00	1.45	274.15	10289.16	-575.54	-418.27	216.01	711.47	-572.53	0.53
10429.00	1.32	263.87	10383.14	-575.57	-420.54	216.15	712.83	-572.54	0.30
10524.00	1.41	264.66	10478.11	-575.79	-422.79	216.29	714.34	-572.75	0.10
10618.00	0.97	263.25	10572.09	-575.99	-424.73	216.40	715.66	-572.94	0.47
10713.00	1.05	263.87	10667.08	-576.18	-426.39	216.50	716.80	-573.12	0.08
10808.00	1.85	198.39	10762.05	-577.73	-427.74	216.52	718.84	-574.65	1.80
10902.00	0.79	182.92	10856.02	-579.82	-428.25	216.45	720.83	-576.74	1.18
10997.00	0.44	148.91	10951.02	-580.78	-428.10	216.39	721.51	-577.70	0.52
11186.00	1.14	199.18	11140.00	-583.18	-428.34	216.30	723.59	-580.10	0.49
11281.00	1.36	184.42	11234.98	-585.20	-428.74	216.23	725.45	-582.11	0.41
11376.00	0.22	74.38	11329.97	-586.27	-428.65	216.17	726.26	-583.19	1.53
11470.00	0.22	311.51	11423.97	-586.10	-428.61	216.18	726.10	-583.02	0.41
11565.00	2.02	242.25	11518.95	-586.76	-430.23	216.25	727.59	-583.67	2.06
11718.00	2.59	252.36	11671.83	-589.07	-435.91	216.50	732.81	-585.93	0.46
11789.00	2.51	255.17	11742.75	-589.95	-438.94	216.65	735.33	-586.79	0.21
11884.00	2.33	270.02	11837.67	-590.48	-442.89	216.87	738.12	-587.30	0.68
11931.00	9.63	347.81	11884.43	-586.63	-444.67	217.16	736.12	-583.43	20.03
11979.00	19.12	355.54	11930.87	-574.84	-446.14	217.82	727.65	-571.63	20.13
12026.00	23.65	0.11	11974.63	-557.73	-446.72	218.69	714.58	-554.52	10.26

12074.00	24.70	358.00	12018.42	-538.08	-447.05	219.72	699.56	-534.86	2.83
12121.00	26.73	354.13	12060.77	-517.75	-448.47	220.90	684.97	-514.52	5.60
12169.00	32.92	355.28	12102.39	-493.99	-450.65	222.37	668.66	-490.75	12.95
12216.00	37.05	358.09	12140.89	-467.09	-452.18	224.07	650.11	-463.84	9.43
12264.00	41.89	3.63	12177.94	-436.62	-451.64	225.97	628.19	-433.38	12.46
12311.00	44.18	5.91	12212.30	-404.66	-448.96	227.97	604.42	-401.44	5.89
12359.00	46.68	6.53	12245.98	-370.67	-445.25	230.22	579.35	-367.48	5.29
12406.00	50.11	5.47	12277.18	-335.73	-441.59	232.76	554.72	-332.56	7.49
12454.00	55.34	5.30	12306.25	-297.71	-438.01	235.80	529.61	-294.57	10.90
12501.00	60.75	5.73	12331.11	-258.04	-434.17	239.28	505.06	-254.92	11.54
12548.00	64.18	4.94	12352.84	-216.55	-430.30	243.29	481.72	-213.46	7.45
12595.00	65.05	3.54	12372.99	-174.20	-427.17	247.81	461.32	-171.14	3.27
12643.00	68.44	3.63	12391.93	-130.19	-424.41	252.95	443.93	-127.15	7.06
12690.00	77.45	2.04	12405.71	-85.36	-422.20	258.57	430.75	-82.34	19.44
12737.00	85.58	1.78	12412.63	-38.94	-420.66	264.71	422.46	-35.93	17.31
12832.00	89.76	4.42	12416.50	55.81	-415.52	277.65	419.25	58.78	5.20
12866.00	89.93	4.42	12416.59	89.71	-412.90	282.26	422.53	92.66	0.50
12961.00	90.02	5.12	12416.63	184.38	-405.00	294.48	445.00	187.27	0.74
13056.00	90.11	5.21	12416.52	278.99	-396.45	305.14	484.78	281.82	0.13
13151.00	89.71	3.19	12416.67	373.73	-389.49	313.82	539.80	376.51	2.17
13245.00	88.92	3.01	12417.79	467.59	-384.41	320.58	605.32	470.33	0.86
13340.00	88.26	2.57	12420.13	562.45	-379.79	325.97	678.66	565.15	0.83
13434.00	88.26	2.31	12422.99	656.32	-375.79	330.21	756.29	658.99	0.28
13529.00	88.84	2.39	12425.39	751.21	-371.89	333.66	838.22	753.85	0.62
13624.00	88.62	2.31	12427.50	846.10	-368.00	336.49	922.67	848.72	0.25
13718.00	89.63	1.60	12428.93	940.04	-364.79	338.79	1008.34	942.62	1.31
13813.00	89.14	0.99	12429.95	1035.01	-362.64	340.69	1096.70	1037.57	0.82
13908.00	87.96	0.55	12432.36	1129.96	-361.37	342.27	1186.34	1132.52	1.33
14003.00	90.59	359.85	12433.56	1224.95	-361.04	343.58	1277.05	1227.50	2.86

14098.00	90.99	359.58	12432.25	1319.94	-361.51	344.68	1368.55	1322.49	0.51
14193.00	91.16	358.79	12430.47	1414.91	-362.86	345.62	1460.70	1417.47	0.85
14289.00	90.90	357.74	12428.74	1510.85	-365.77	346.39	1554.49	1513.43	1.13
14384.00	90.68	357.82	12427.43	1605.77	-369.45	347.04	1647.72	1608.37	0.25
14479.00	91.12	358.26	12425.94	1700.70	-372.70	347.64	1741.06	1703.32	0.65
14574.00	90.64	357.39	12424.48	1795.62	-376.30	348.16	1834.63	1798.27	1.05
14669.00	90.15	356.15	12423.82	1890.46	-381.65	348.59	1928.60	1893.15	1.40
14764.00	90.11	356.24	12423.61	1985.25	-387.96	348.94	2022.81	1987.98	0.10
14859.00	90.24	357.65	12423.32	2080.12	-393.02	349.30	2116.92	2082.88	1.49
14954.00	91.87	358.35	12421.57	2175.04	-396.33	349.67	2210.85	2177.82	1.87
15049.00	91.60	357.47	12418.69	2269.93	-399.80	350.01	2304.87	2272.73	0.97
15144.00	91.74	356.95	12415.92	2364.78	-404.42	350.30	2399.11	2367.61	0.57
15239.00	90.46	357.39	12414.10	2459.64	-409.11	350.56	2493.43	2462.51	1.42
15334.00	91.25	358.26	12412.68	2554.56	-412.71	350.82	2587.69	2557.45	1.24
15428.00	94.37	358.35	12408.07	2648.40	-415.49	351.08	2680.79	2651.30	3.32
15523.00	92.26	359.23	12402.58	2743.21	-417.49	351.35	2774.80	2746.13	2.41
15618.00	91.25	358.79	12399.67	2838.15	-419.13	351.60	2868.93	2841.08	1.16
15713.00	89.63	359.32	12398.94	2933.13	-420.70	351.84	2963.15	2936.07	1.79
15808.00	88.75	359.41	12400.29	3028.11	-421.75	352.07	3057.34	3031.05	0.93
15903.00	88.70	359.49	12402.40	3123.09	-422.66	352.29	3151.56	3126.03	0.10
15998.00	89.14	359.06	12404.19	3218.06	-423.87	352.50	3245.86	3221.01	0.65
16092.00	90.64	358.79	12404.37	3312.04	-425.63	352.68	3339.28	3315.00	1.62
16187.00	89.01	358.53	12404.66	3407.01	-427.85	352.84	3433.77	3409.99	1.74
16282.00	87.47	358.18	12407.58	3501.93	-430.58	352.99	3528.30	3504.92	1.66
16377.00	87.08	358.00	12412.09	3596.76	-433.74	353.12	3622.82	3599.78	0.45
16471.00	87.82	359.41	12416.28	3690.64	-435.86	353.26	3716.29	3693.67	1.69
16567.00	87.74	1.25	12420.00	3786.57	-435.31	353.44	3811.51	3789.59	1.92
16661.00	87.87	1.25	12423.60	3880.48	-433.26	353.63	3904.59	3883.48	0.14
16756.00	87.78	1.96	12427.20	3975.37	-430.60	353.82	3998.62	3978.35	0.75