



SURVEY REPORT

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30-015-39012

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Report created using job file: Apache

Empire Avo Unit # 420-15SEP11

Report saved on 23 Sep 2011 05:17

Depth in feet

WELL NAME Empire Avo Unit # 420
JOB ID Apache Empire Avo Unit # 420
COMPANY Apache Corp.
CONTRACTOR Aztec # 124
START DATE 15 SEP 11
API #
LOCATION Empire Avo Unit # 420

SURVEY #	SURVEY DEPTH	DATE	TIME	INCLINATION
Tie-in	0.0	15-Sep-11	14:31	00.0
0199	6333.5	22-Sep-11	08:49	01.2
Manual	497.0	22-Sep-11	08:16	01.0
0005	557.5	16-Sep-11	19:24	02.1
0006	586.5	16-Sep-11	19:53	01.6
0007	617.5	16-Sep-11	20:15	02.3
Manual	649.0	16-Sep-11	20:43	01.6
0010	678.5	16-Sep-11	21:01	01.8
0011	741.5	16-Sep-11	21:28	01.7
0013	772.5	16-Sep-11	22:30	01.9
0017	825.5	17-Sep-11	00:17	01.3
0018	867.5	17-Sep-11	00:50	02.0
0019	897.5	17-Sep-11	01:21	01.6
0020	929.5	17-Sep-11	01:49	00.8
0021	961.5	17-Sep-11	02:22	01.4
0022	992.5	17-Sep-11	02:54	00.7
0024	1055.5	17-Sep-11	03:52	01.5
0025	1085.5	17-Sep-11	04:15	01.7
0026	1117.5	17-Sep-11	04:35	00.6
0027	1148.5	17-Sep-11	04:57	00.5
0029	1211.5	17-Sep-11	05:35	01.3
0031	1274.5	17-Sep-11	06:11	01.4



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SURVEY #	SURVEY DEPTH	DATE	TIME	INCLINATION
0032	1305.5	17-Sep-11	06:30	01.4
0033	1336.5	17-Sep-11	06:49	01.0
0034	1368.5	17-Sep-11	07:09	01.1
0035	1400.5	17-Sep-11	07:29	00.8
0036	1430.5	17-Sep-11	07:48	00.9
0037	1462.5	17-Sep-11	08:05	00.8
0039	1493.5	17-Sep-11	08:38	00.6
0040	1524.5	17-Sep-11	08:59	00.6
0041	1556.5	17-Sep-11	09:24	00.3
0042	1588.5	17-Sep-11	09:47	01.1
0043	1619.5	17-Sep-11	10:09	01.2
0044	1651.5	17-Sep-11	10:35	00.6
0045	1682.5	17-Sep-11	10:57	01.1
0046	1714.5	17-Sep-11	11:18	01.0
0047	1746.5	17-Sep-11	11:41	00.2
0048	1778.5	17-Sep-11	12:04	00.9
0049	1809.5	17-Sep-11	12:29	00.7
0050	1841.5	17-Sep-11	12:52	01.0
0051	1873.5	17-Sep-11	13:19	01.0
0052	1905.5	17-Sep-11	13:44	00.7
0053	1935.5	17-Sep-11	14:06	00.8
0054	1966.5	17-Sep-11	14:45	00.6
0055	1997.5	17-Sep-11	15:08	00.4
0056	2029.5	17-Sep-11	15:34	00.9
0057	2061.5	17-Sep-11	15:58	00.6
0058	2092.5	17-Sep-11	16:23	00.8
0059	2123.5	17-Sep-11	17:16	00.2
0060	2155.5	17-Sep-11	18:06	00.3
0061	2187.5	17-Sep-11	19:26	00.7
0062	2218.5	17-Sep-11	20:07	00.8
0063	2250.5	17-Sep-11	20:48	00.7
0064	2281.5	17-Sep-11	21:30	00.3
0065	2312.5	17-Sep-11	22:16	00.9
0066	2343.5	17-Sep-11	23:03	00.8
0067	2374.5	17-Sep-11	23:39	00.1
0068	2406.5	18-Sep-11	00:21	00.7
0069	2437.5	18-Sep-11	00:58	00.9
0070	2469.5	18-Sep-11	01:33	00.9
0072	2564.5	18-Sep-11	04:16	00.7
0073	2597.5	18-Sep-11	04:52	00.4
0074	2627.5	18-Sep-11	05:34	00.5
0075	2658.5	18-Sep-11	06:11	00.6
0076	2689.5	18-Sep-11	06:43	00.4
0077	2753.5	18-Sep-11	07:56	00.1
0078	2784.5	18-Sep-11	08:31	00.7



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SURVEY #	SURVEY DEPTH	DATE	TIME	INCLINATION
0079	2814.5	18-Sep-11	09:06	00.8
0080	2846.5	18-Sep-11	09:39	00.6
0081	2877.5	18-Sep-11	10:16	00.6
0082	2908.5	18-Sep-11	10:48	01.0
0083	2939.5	18-Sep-11	11:23	01.0
0084	2971.5	18-Sep-11	11:55	00.2
0085	3003.5	18-Sep-11	12:24	01.0
0086	3034.5	18-Sep-11	13:01	00.2
0087	3065.5	18-Sep-11	13:41	00.2
0088	3097.5	18-Sep-11	14:23	00.8
0089	3128.5	18-Sep-11	15:01	00.2
0091	3191.5	18-Sep-11	16:17	00.3
0093	3254.5	18-Sep-11	17:20	00.7
0094	3285.5	18-Sep-11	17:59	01.0
0095	3317.5	18-Sep-11	18:27	00.4
0096	3348.5	18-Sep-11	19:02	00.7
0097	3379.5	18-Sep-11	19:34	00.7
0098	3410.5	18-Sep-11	20:03	00.5
0099	3442.5	18-Sep-11	20:50	00.8
0100	3474.5	18-Sep-11	21:24	00.7
0101	3505.5	18-Sep-11	21:55	00.4
0102	3537.5	18-Sep-11	22:23	00.9
0103	3568.5	18-Sep-11	22:54	00.2
0104	3600.5	18-Sep-11	23:22	00.4
0105	3631.5	18-Sep-11	23:50	01.0
0106	3662.5	19-Sep-11	00:23	00.8
0107	3693.5	19-Sep-11	00:53	00.3
0109	3725.5	19-Sep-11	01:31	01.1
0110	3756.5	19-Sep-11	01:59	00.7
0111	3787.5	19-Sep-11	02:22	00.5
0113	3849.5	19-Sep-11	03:41	00.9
0114	3880.5	19-Sep-11	04:19	00.9
0115	3911.5	19-Sep-11	04:56	01.2
0116	3943.5	19-Sep-11	05:33	00.5
0117	3974.5	19-Sep-11	05:59	01.3
0118	4006.5	19-Sep-11	06:24	00.6
0119	4038.5	19-Sep-11	06:52	00.4
0120	4069.5	19-Sep-11	07:23	01.0
0132	5205.5	19-Sep-11	16:21	01.1
Manual	5269.0	21-Sep-11	04:27	01.7
Manual	5301.0	21-Sep-11	04:47	01.8
Manual	5333.0	21-Sep-11	05:52	02.0
0168	5363.5	21-Sep-11	06:49	02.2
0172	5400.5	21-Sep-11	10:19	02.6
0170	5427.5	21-Sep-11	08:35	02.9



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SURVEY #	SURVEY DEPTH	DATE	TIME	INCLINATION
0174	5522.5	21-Sep-11	11:20	03.0
0175	5553.5	21-Sep-11	12:04	02.4
0176	5585.5	21-Sep-11	12:48	02.7
0178	5616.5	21-Sep-11	14:04	03.0
0179	5677.5	21-Sep-11	16:07	02.2
0180	5708.5	21-Sep-11	17:09	02.7
0181	5739.5	21-Sep-11	18:02	01.9
0182	5770.5	21-Sep-11	18:48	02.5
0183	5864.5	21-Sep-11	21:03	01.3
0184	5896.5	21-Sep-11	21:48	02.4
0185	5927.5	21-Sep-11	22:43	01.6
0186	5958.5	21-Sep-11	23:27	01.5
0187	5989.5	22-Sep-11	00:11	02.2
0188	6020.5	22-Sep-11	00:56	01.2
0189	6052.5	22-Sep-11	01:38	01.2
0190	6084.5	22-Sep-11	02:21	02.1
0191	6116.5	22-Sep-11	03:05	01.1
0192	6147.5	22-Sep-11	03:48	01.2
0193	6178.5	22-Sep-11	04:43	00.9
0194	6209.5	22-Sep-11	05:28	01.0
0195	6241.5	22-Sep-11	06:07	01.6
0196	6272.5	22-Sep-11	06:43	01.9