

Archer Survey Report

Company: Archer Directional Services

Location: Sec 07-T35S-R07W

Well: Michael 3507 1-7H

Rig: Horizon 15

API or UWI:

Job Number: 04076-431-22

State: KS

Operator: Sandridge Energy

County: Harper

Magnetic Declination: 0.00

Comment

Proposed Azimuth: 179.59

North Reference: GRID

Tiein Survey Data:

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
232.00	0.80	277.20	231.99	0.20	-1.61	277.20	1.62	-0.21	0.34
478.00	0.50	277.20	477.98	0.55	-4.38	277.20	4.41	-0.58	0.12
721.00	0.50	277.20	720.97	0.82	-6.48	277.20	6.53	-0.86	0.00
853.00	0.40	277.20	852.96	0.95	-7.51	277.20	7.57	-1.00	0.08
1311.00	0.50	230.20	1310.95	-0.13	-10.63	269.30	10.63	0.05	0.08
1784.00	0.20	260.40	1783.94	-1.59	-13.03	263.05	13.13	1.50	0.07
2259.00	0.10	139.40	2258.94	-2.04	-13.58	261.45	13.73	1.94	0.06
2733.00	0.40	160.60	2732.94	-3.92	-12.76	252.93	13.35	3.83	0.07
3209.00	0.20	147.90	3208.93	-6.19	-11.76	242.26	13.29	6.10	0.04
3682.00	0.40	15.20	3681.93	-5.29	-10.89	244.08	12.11	5.22	0.12
3871.00	0.10	124.00	3870.92	-4.75	-10.58	245.83	11.60	4.67	0.23
3935.00	0.20	200.20	3934.92	-4.89	-10.58	245.21	11.65	4.81	0.31
3966.00	0.60	188.70	3965.92	-5.10	-10.62	244.36	11.78	5.02	1.31
3998.00	3.10	171.70	3997.90	-6.12	-10.52	239.81	12.17	6.04	7.91
4029.00	5.40	166.40	4028.82	-8.37	-10.06	230.24	13.08	8.29	7.52
4060.00	7.70	166.80	4059.61	-11.81	-9.24	218.04	14.99	11.74	7.42
4093.00	9.50	166.50	4092.24	-16.61	-8.10	205.99	18.48	16.55	5.46
4124.00	10.50	162.50	4122.77	-21.79	-6.65	196.97	22.78	21.74	3.93
4156.00	11.80	162.50	4154.16	-27.69	-4.79	189.81	28.10	27.66	4.06
4187.00	13.00	166.50	4184.44	-34.10	-3.02	185.06	34.24	34.08	4.76
4219.00	15.00	167.30	4215.49	-41.64	-1.27	181.75	41.66	41.63	6.28
4250.00	17.60	167.20	4245.24	-50.13	0.65	179.26	50.13	50.13	8.39
4282.00	20.40	166.10	4275.49	-60.26	3.06	177.09	60.34	60.28	8.82
4314.00	22.70	165.70	4305.26	-71.66	5.93	175.27	71.91	71.70	7.20
4345.00	25.20	166.10	4333.58	-83.87	8.99	173.88	84.35	83.93	8.08
4377.00	28.30	166.80	4362.16	-97.87	12.36	172.80	98.64	97.95	9.74
4408.00	30.90	168.20	4389.11	-112.82	15.67	172.09	113.90	112.93	8.68
4440.00	33.10	170.10	4416.25	-129.47	18.85	171.72	130.83	129.60	7.56
4472.00	35.10	171.60	4442.74	-147.18	21.70	171.61	148.77	147.33	6.78
4503.00	37.10	173.00	4467.79	-165.28	24.14	171.69	167.03	165.45	6.98
4535.00	38.60	173.50	4493.06	-184.78	26.44	171.86	186.66	184.96	4.78
4567.00	40.50	174.10	4517.73	-205.03	28.64	172.05	207.02	205.23	6.06
4598.00	43.00	174.90	4540.86	-225.58	30.62	172.27	227.65	225.79	8.25
4630.00	45.40	175.60	4563.79	-247.81	32.46	172.54	249.93	248.04	7.65
4662.00	47.50	175.70	4585.84	-270.94	34.22	172.80	273.09	271.17	6.57

4694.00	49.20	176.30	4607.11	-294.79	35.89	173.06	296.96	295.04	5.49
4726.00	50.10	176.30	4627.83	-319.12	37.46	173.31	321.31	319.38	2.81
4757.00	49.90	175.60	4647.75	-342.81	39.14	173.49	345.04	343.08	1.85
4789.00	49.60	174.80	4668.43	-367.15	41.18	173.60	369.45	367.43	2.13
4821.00	49.20	174.70	4689.25	-391.34	43.40	173.67	393.74	391.64	1.27
4851.00	49.50	174.80	4708.80	-414.01	45.49	173.73	416.50	414.32	1.03
4883.00	49.80	175.50	4729.51	-438.31	47.55	173.81	440.88	438.64	1.91
4915.00	51.20	175.60	4749.87	-462.93	49.46	173.90	465.56	463.27	4.38
4947.00	53.30	176.10	4769.46	-488.16	51.29	174.00	490.85	488.51	6.68
4979.00	56.30	176.30	4787.90	-514.25	53.02	174.11	516.97	514.61	9.39
5011.00	59.80	176.20	4804.83	-541.34	54.80	174.22	544.10	541.72	10.94
5042.00	64.00	177.10	4819.43	-568.63	56.39	174.34	571.42	569.02	13.79
5074.00	68.00	177.70	4832.44	-597.83	57.72	174.49	600.61	598.23	12.62
5105.00	71.60	178.50	4843.15	-626.90	58.68	174.65	629.64	627.30	11.86
5137.00	74.10	178.70	4852.58	-657.47	59.43	174.84	660.15	657.87	7.84
5169.00	77.00	179.10	4860.57	-688.44	60.02	175.02	691.06	688.86	9.14
5201.00	79.90	179.70	4866.97	-719.79	60.35	175.21	722.32	720.20	9.25
5232.00	83.10	179.80	4871.56	-750.45	60.48	175.39	752.88	750.86	10.33
5263.00	86.50	180.10	4874.36	-781.31	60.51	175.57	783.65	781.73	11.01
5358.00	90.50	181.60	4876.85	-876.25	59.10	176.14	878.24	876.65	4.50
5390.00	90.70	181.50	4876.52	-908.24	58.23	176.33	910.10	908.63	0.70
5422.00	90.50	182.50	4876.18	-940.21	57.12	176.52	941.95	940.60	3.19
5453.00	90.20	182.90	4875.99	-971.18	55.66	176.72	972.77	971.55	1.61
5485.00	90.40	182.90	4875.82	-1003.14	54.04	176.92	1004.59	1003.50	0.63
5580.00	89.80	184.20	4875.66	-1097.95	48.15	177.49	1099.01	1098.27	1.51
5674.00	89.30	183.90	4876.40	-1191.71	41.52	178.00	1192.44	1191.98	0.62
5769.00	90.20	185.00	4876.81	-1286.43	34.14	178.48	1286.88	1286.64	1.50
5863.00	88.60	184.20	4877.79	-1380.11	26.61	178.90	1380.37	1380.27	1.90
5958.00	88.20	184.50	4880.45	-1474.80	19.40	179.25	1474.93	1474.90	0.53
6052.00	88.30	183.20	4883.32	-1568.54	13.10	179.52	1568.60	1568.60	1.39
6147.00	88.70	181.90	4885.80	-1663.42	8.87	179.69	1663.44	1663.44	1.43
6242.00	88.70	181.60	4887.96	-1758.35	5.97	179.81	1758.36	1758.34	0.32
6337.00	88.80	181.50	4890.03	-1853.29	3.40	179.89	1853.29	1853.27	0.15
6432.00	89.30	180.60	4891.61	-1948.26	1.66	179.95	1948.26	1948.22	1.08
6527.00	88.50	180.60	4893.43	-2043.24	0.67	179.98	2043.24	2043.19	0.84
6622.00	88.50	179.30	4895.92	-2138.20	0.75	179.98	2138.20	2138.15	1.37
6716.00	91.00	179.30	4896.33	-2232.19	1.90	179.95	2232.19	2232.14	2.66
6810.00	92.20	179.30	4893.70	-2326.14	3.04	179.93	2326.14	2326.10	1.28
6904.00	90.50	179.20	4891.49	-2420.10	4.27	179.90	2420.11	2420.07	1.81
6999.00	89.80	178.90	4891.24	-2515.09	5.85	179.87	2515.10	2515.07	0.80
7094.00	91.50	179.20	4890.16	-2610.07	7.42	179.84	2610.08	2610.05	1.82
7188.00	91.60	179.30	4887.62	-2704.02	8.65	179.82	2704.04	2704.02	0.15
7283.00	91.40	178.60	4885.13	-2798.97	10.39	179.79	2798.99	2798.98	0.77
7378.00	90.50	178.40	4883.56	-2893.93	12.88	179.74	2893.96	2893.95	0.97
7472.00	89.60	177.30	4883.48	-2987.86	16.41	179.69	2987.90	2987.90	1.51
7567.00	91.60	177.60	4882.48	-3082.76	20.63	179.62	3082.82	3082.82	2.13
7688.00	94.90	179.20	4875.62	-3203.49	24.01	179.57	3203.58	3203.58	3.03
7783.00	92.70	180.50	4869.33	-3298.28	24.26	179.58	3298.36	3298.36	2.69
7877.00	91.30	181.60	4866.05	-3392.20	22.53	179.62	3392.27	3392.27	1.89
7972.00	88.80	182.10	4865.96	-3487.14	19.47	179.68	3487.20	3487.19	2.68
8067.00	88.20	182.90	4868.45	-3582.02	15.33	179.75	3582.05	3582.04	1.05
8161.00	87.40	184.30	4872.06	-3675.76	9.43	179.85	3675.77	3675.73	1.71
8255.00	86.70	184.40	4876.90	-3769.36	2.31	179.96	3769.36	3769.28	0.75
8350.00	85.50	184.30	4883.36	-3863.87	-4.88	180.07	3863.87	3863.74	1.27
8444.00	86.00	181.40	4890.32	-3957.48	-9.54	180.14	3957.50	3957.31	3.12
8539.00	89.10	180.20	4894.39	-4052.38	-10.86	180.15	4052.39	4052.19	3.50
8634.00	90.70	180.20	4894.55	-4147.37	-11.20	180.15	4147.39	4147.19	1.68

8729.00	90.00	179.10	4893.97	-4242.37	-10.62	180.14	4242.38	4242.18	1.37
8824.00	91.10	178.50	4893.06	-4337.34	-8.63	180.11	4337.35	4337.17	1.32
8920.00	87.70	178.20	4894.06	-4433.28	-5.86	180.08	4433.28	4433.12	3.56
9014.00	86.50	177.70	4898.82	-4527.10	-2.51	180.03	4527.10	4526.96	1.38
9109.00	88.60	178.20	4902.88	-4621.94	0.89	179.99	4621.94	4621.83	2.27
9204.00	92.50	178.20	4901.97	-4716.87	3.87	179.95	4716.88	4716.78	4.11
9299.00	89.30	179.20	4900.48	-4811.82	6.03	179.93	4811.83	4811.74	3.53
9394.00	89.80	179.70	4901.22	-4906.82	6.94	179.92	4906.82	4906.74	0.74
9489.00	89.30	179.10	4901.97	-5001.81	7.93	179.91	5001.81	5001.74	0.82
9584.00	89.00	179.20	4903.38	-5096.79	9.34	179.89	5096.79	5096.72	0.33
9679.00	88.40	180.60	4905.53	-5191.76	9.51	179.90	5191.77	5191.69	1.60
9774.00	89.50	179.70	4907.27	-5286.74	9.26	179.90	5286.75	5286.67	1.50
9868.00	91.50	179.20	4906.45	-5380.73	10.16	179.89	5380.74	5380.66	2.19
9962.00	90.50	177.10	4904.81	-5474.66	13.20	179.86	5474.67	5474.61	2.47
10058.00	89.30	176.90	4904.98	-5570.52	18.22	179.81	5570.55	5570.51	1.27
10099.00	89.30	176.90	4905.48	-5611.46	20.44	179.79	5611.50	5611.46	0.00