



# Survey Report

Company: Chesapeake Appalachia LLC

Location: French Creek

Well: James Ogden 5H

Rig: Nomac 37

API or UWI:

Job Number: SEM -10625

State: WV

Operator: Sharewell MWD Service LP

County: Upsur

Magnetic Declination: 0.00

Comment

Proposed Azimuth: 341.96

North Reference: GRID

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Tiein Survey Data:

MD	Inclination	Azimuth	TVD	NS	EW
7556.00	88.90	342.90	7152.35	1168.29	954.04

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
7615.00	90.40	343.20	7152.71	1224.72	936.84	37.41	1541.95	874.40	2.59
7678.00	90.60	343.10	7152.16	1285.02	918.58	35.56	1579.57	937.38	0.35
7740.00	91.20	343.30	7151.19	1344.36	900.66	33.82	1618.18	999.36	1.02
7803.00	89.70	343.30	7150.69	1404.70	882.56	32.14	1658.95	1062.34	2.38
7867.00	89.80	343.40	7150.97	1466.02	864.22	30.52	1701.79	1126.32	0.22
7929.00	90.20	343.40	7150.97	1525.43	846.51	29.03	1744.57	1188.30	0.65
7993.00	90.40	343.60	7150.64	1586.80	828.33	27.57	1789.99	1252.27	0.44
8056.00	90.70	343.30	7150.03	1647.19	810.39	26.20	1835.74	1315.25	0.67
8120.00	91.00	343.20	7149.08	1708.46	791.94	24.87	1883.09	1379.23	0.49
8183.00	90.10	341.30	7148.48	1768.46	772.74	23.60	1929.91	1442.22	3.34
8246.00	90.30	341.30	7148.26	1828.13	752.54	22.37	1976.96	1505.21	0.32
8306.00	90.50	341.10	7147.84	1884.93	733.21	21.26	2022.51	1565.21	0.47
8369.00	90.60	341.00	7147.23	1944.51	712.75	20.13	2071.02	1628.20	0.22
8432.00	90.80	341.00	7146.46	2004.07	692.24	19.06	2120.26	1691.18	0.32
8495.00	90.00	341.80	7146.02	2063.78	672.15	18.04	2170.48	1754.18	1.80

8557.00	88.80	342.80	7146.67	2122.84	653.30	17.11	2221.09	1816.17	2.52
8621.00	88.70	343.10	7148.07	2184.01	634.54	16.20	2274.33	1880.15	0.49
8684.00	88.80	342.50	7149.44	2244.18	615.91	15.35	2327.17	1943.12	0.97
8748.00	88.80	342.10	7150.78	2305.14	596.46	14.51	2381.06	2007.11	0.62
8811.00	88.80	342.20	7152.10	2365.09	577.15	13.71	2434.50	2070.09	0.16
8874.00	88.80	342.00	7153.42	2425.03	557.79	12.95	2488.35	2133.08	0.32
8938.00	88.60	342.40	7154.88	2485.95	538.23	12.22	2543.55	2197.06	0.70
9001.00	88.40	342.40	7156.52	2545.98	519.19	11.53	2598.38	2260.04	0.32
9065.00	88.50	342.10	7158.26	2606.91	499.69	10.85	2654.37	2324.02	0.49
9128.00	89.10	341.90	7159.57	2666.82	480.22	10.21	2709.71	2387.00	1.00
9191.00	89.10	341.80	7160.56	2726.67	460.60	9.59	2765.30	2449.99	0.16
9255.00	89.00	341.80	7161.63	2787.46	440.61	8.98	2822.07	2513.98	0.16
9317.00	88.80	341.50	7162.82	2846.30	421.10	8.42	2877.28	2575.97	0.58
9380.00	89.10	342.10	7163.97	2906.14	401.42	7.86	2933.73	2638.96	1.06
9443.00	89.10	341.70	7164.96	2966.01	381.85	7.34	2990.49	2701.95	0.63
9505.00	89.00	341.10	7165.99	3024.77	362.08	6.83	3046.36	2763.94	0.98
9569.00	89.00	340.90	7167.10	3085.27	341.25	6.31	3104.08	2827.92	0.31
9633.00	90.10	341.30	7167.61	3145.82	320.52	5.82	3162.10	2891.91	1.83
9697.00	90.40	342.30	7167.33	3206.61	300.53	5.35	3220.67	2955.91	1.63
9759.00	90.80	342.50	7166.68	3265.71	281.78	4.93	3277.84	3017.90	0.72
9822.00	89.60	343.30	7166.46	3325.92	263.26	4.53	3336.32	3080.89	2.29
9886.00	89.50	342.50	7166.96	3387.09	244.44	4.13	3395.90	3144.88	1.26
9949.00	89.30	343.60	7167.62	3447.35	226.08	3.75	3454.75	3207.87	1.77
10013.00	89.20	343.50	7168.46	3508.72	207.95	3.39	3514.88	3271.84	0.22
10075.00	89.40	343.80	7169.22	3568.21	190.50	3.06	3573.29	3333.81	0.58
10137.00	88.90	342.90	7170.14	3627.60	172.74	2.73	3631.71	3395.78	1.66
10204.00	87.80	343.10	7172.07	3691.65	153.16	2.38	3694.82	3462.74	1.67
10267.00	88.20	343.10	7174.26	3751.89	134.86	2.06	3754.31	3525.69	0.63
10330.00	88.60	342.80	7176.02	3812.10	116.39	1.75	3813.88	3588.65	0.79
10393.00	87.80	342.20	7178.00	3872.15	97.46	1.44	3873.38	3651.62	1.59
10457.00	87.70	341.90	7180.52	3932.99	77.75	1.13	3933.76	3715.57	0.49
10520.00	87.50	342.20	7183.15	3992.87	58.35	0.84	3993.30	3778.51	0.57
10583.00	87.60	342.20	7185.85	4052.80	39.11	0.55	4052.99	3841.46	0.16
10646.00	87.70	341.80	7188.43	4112.67	19.66	0.27	4112.71	3904.40	0.65
10710.00	87.80	341.40	7190.94	4173.35	-0.53	359.99	4168.38	3963.63	0.64
10773.00	88.00	341.40	7193.25	4233.02	-20.61	359.72	4233.27	4031.50	0.32
10837.00	88.50	342.60	7195.21	4293.86	-40.38	359.46	4294.01	4095.25	2.03

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10900.00	88.90	342.80	7196.63	4353.99	-59.11	359.22	4354.35	4158.21	0.71
10963.00	88.90	342.70	7197.84	4414.15	-77.79	358.99	4414.81	4221.22	0.16
11026.00	89.20	342.90	7198.89	4474.32	-96.41	358.77	4475.39	4284.25	0.57
11090.00	89.60	342.60	7199.56	4535.44	-115.39	358.54	4536.90	4348.21	0.78
11153.00	89.50	342.10	7200.05	4595.47	-134.49	358.32	4597.42	4411.19	0.81
11215.00	89.60	341.90	7200.54	4654.43	-153.65	358.11	4656.96	4473.19	0.36
11279.00	88.90	342.70	7201.38	4715.40	-173.11	357.90	4718.60	4537.22	1.66
11342.00	88.40	342.30	7202.86	4775.46	-192.05	357.70	4779.34	4600.19	1.02
11405.00	88.10	343.70	7204.79	4835.68	-210.46	357.51	4840.27	4663.15	2.27
11469.00	88.20	344.20	7206.85	4897.16	-228.14	357.33	4902.46	4727.06	0.80
11532.00	88.70	344.10	7208.56	4957.74	-245.34	357.17	4963.80	4789.99	0.81
11595.00	88.90	344.10	7209.88	5018.31	-262.60	357.00	5025.17	4852.93	0.32
11658.00	88.90	344.10	7211.08	5078.89	-279.85	356.85	5086.62	4915.90	0.00
11721.00	89.50	344.00	7211.96	5139.46	-297.16	356.69	5148.05	4978.84	0.97
11784.00	89.60	343.90	7212.46	5200.00	-314.58	356.54	5209.52	5041.80	0.22
11848.00	90.40	343.80	7212.46	5261.48	-332.38	356.39	5271.96	5105.76	1.26
11911.00	89.00	344.00	7212.79	5322.00	-349.85	356.24	5333.50	5168.73	2.24
11974.00	89.20	344.00	7213.78	5382.56	-367.22	356.10	5395.07	5231.67	0.32
12038.00	89.50	344.00	7214.50	5444.07	-384.86	355.96	5457.68	5295.64	0.47
12102.00	89.30	342.70	7215.18	5505.38	-403.19	355.81	5520.12	5359.59	2.05
12166.00	89.60	342.20	7215.79	5566.40	-422.49	355.66	5582.40	5423.58	0.91
12229.00	88.80	342.10	7216.67	5626.36	-441.80	355.51	5643.68	5486.58	1.28
12291.00	88.50	342.10	7218.13	5685.35	-460.85	355.37	5703.99	5548.57	0.48
12353.00	88.70	342.40	7219.64	5744.38	-479.75	355.23	5764.37	5610.55	0.58
12415.00	88.90	342.70	7220.94	5803.51	-498.33	355.09	5824.87	5672.54	0.58
12478.00	88.90	342.90	7222.15	5863.68	-516.96	354.96	5886.42	5735.51	0.32
12541.00	88.90	342.90	7223.36	5923.89	-535.48	354.83	5948.05	5798.51	0.00
12604.00	89.20	342.60	7224.41	5984.04	-554.16	354.71	6009.64	5861.47	0.67
12667.00	89.50	341.90	7225.12	6044.04	-573.37	354.58	6071.18	5924.49	1.21
12729.00	89.80	341.90	7225.50	6102.97	-592.63	354.45	6131.68	5986.48	0.48
12790.00	89.00	342.00	7226.14	6160.96	-611.53	354.33	6191.25	6047.48	1.32
12853.00	87.80	341.50	7227.90	6220.77	-631.25	354.21	6252.72	6110.45	2.06
12916.00	88.40	342.70	7229.99	6280.69	-650.60	354.09	6314.29	6173.40	2.13
12979.00	89.20	343.40	7231.31	6340.94	-668.96	353.98	6376.14	6236.40	1.69
13043.00	89.30	343.10	7232.14	6402.22	-687.41	353.87	6439.01	6300.36	0.49
13107.00	89.10	342.70	7233.04	6463.38	-706.22	353.76	6501.86	6364.36	0.00
13107.00	89.10	342.70	7233.04	6463.38	-706.22	353.76	6501.86	6364.36	0.70

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13170.00	89.20	342.30	7233.97	6523.46	-725.16	353.66	6563.64	6427.34	0.65
13234.00	89.00	341.80	7234.98	6584.33	-744.89	353.55	6626.33	6491.32	0.84
13244.00	89.20	341.60	7235.13	6593.83	-748.03	353.53	6636.13	6501.34	2.83
13293.00	89.20	341.60	7235.82	6640.32	-763.49	353.44	6684.08	6550.34	0.00

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