

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

DATE: 1-24-2012  
API #: 47-097-03710

Farm name: James Ogden Operator Well No.: 5H (831781)

LOCATION: Elevation: 1,950' Quadrangle: Rock Cave

District: Banks County: Upshur  
Latitude: 8,495' Feet South of 38 Deg. 50 Min. 00 Sec.  
Longitude 9,250' Feet West of 80 Deg. 15 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

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Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 18496 Oklahoma City, OK 73154-0496	20"	40'	40	Driven
Agent: Eric Gillespie	13 3/8"	580'	580'	614 cf
Inspector: Bill Hatfield	9 5/8"	2407'	2407'	1059 cf
Date Permit Issued: 1/27/2010	5 1/2"	13293'	13293'	2761 cf
Date Well Work Commenced: 11/4/2010				
Date Well Work Completed: 5/10/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7,152'				
Total Measured Depth (ft): 13,294'				
Fresh Water Depth (ft.): 475'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): n/a				
Void(s) encountered (N/Y) Depth(s) Y 144'				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7,622-13151'

Gas: Initial open flow 2,662 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 3,218 psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams  
Signature

3-21-2012  
Date

09/14/2012

Were core samples taken? Yes \_\_\_\_\_ No

Were cuttings caught during drilling? Yes  No \_\_\_\_\_

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list none

**NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.**

Perforated Intervals, Fracturing, or Stimulating:

See Attached

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Plug Back Details Including Plug Type and Depth(s): BP@ 13,152'

Formations Encountered:	Top Depth	Bottom Depth
Surface:		

see attached

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FORMATION/LITHOLOGY	TOP DEPTH (ft)	BOTTOM DEPTH (ft)
SS and Shale	0	1425
Big Lime	1425	1646
Big Injun	1646	1850
SS and Sltst w/ minor Shale	1850	2450
Sltst w/ minor Shale	2450	3998
Benson	3998	4400
Sltst and SS w/ minor Shale	4400	4950
Sltst and Shale w/ minor SS	4950	6650
Sltst and Shale	6650	6795
Geneseo	6795	7140
Tully	7140	7163
Hamilton	7163	7315
Marcellus	7315	13293

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# 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: Upstur

Magnetic Declination: 0.00

Comment

Proposed Azimuth: 341.96

North Reference: GRID

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

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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	0.53	4168.38	3963.63	0.64
10773.00	88.00	341.40	7193.25	4233.02	-20.61	0.53	4233.27	4031.50	0.32
10837.00	88.50	342.60	7195.21	4293.86	-40.38	0.53	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	-86.41	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	0.66
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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