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WR-35
Rev (9-11)

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

Date: 9/16/2013
API: 47-021-05750

Farm Name: Kenneth Meadows, ET AL _____ Operator Well No: NORM-1F-HS

LOCATION: Normantown Elevation: 810.00 Quadrangle: Normantown 1

District: Center County: GILMER
Latitude: _____ Feet South of Deg. Min. Sec. 38.84872100
Longitude: _____ Feet South of Deg. Min. Sec. -80.94571900

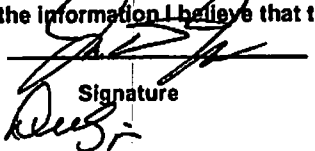
Company: CNX Gas Company LLC	Casing & Tubing	Used In Drilling	Left in Well	Cement fill up Cu. FL
Address: 200 Evergreene Drive Waynesburg, PA 15370	20	40.0	40.0	Cemented in
Agent: Steven Haught	13 3/8	467.7	467.7	Cemented w/ 508 sxs (110.4 bbbls) cement - 33 bbbls to surface
Inspector: Bill Hendershot	9 5/8	5,970.0	5,970.0	Cemented w/ 1082.3 sxs (227 bbbls) - 68 bbbls to surface
Date Permit issued: 7/24/2012	5 1/2	13,653.1	13,653.1	Cemented w/ 2077 sxs (526 bbbls)- full returns, 50 bbl spacer back to surface, TOC @ 1077'
Date Well Work Commenced: 11/1/2012				
Date Well Work Completed: 9/3/2013				
Verbal Plugging:				
Date Permission granted on: 11/1/2012				
Rotary Cable Rig X				
Total Vertical Depth (ft): 5,983.4				
Total Measured Depth (ft): 13,672.0				
Fresh Water Depth (ft): 192'				
Salt Water Depth (ft): 1482'				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 332'				
Void(s) encountered (N/Y) Depth(s)				

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

Producing formation Marcellus Pay zone depth (ft) N/A
Gas: Initial open flow) N/A MCF/d Oil: Initial open flow) N/A Bbl/d
Final open flow) N/A MCF/d Final open flow) N/A Bbl/d
Time of open flow between initial and final tests) N/A Hours
Static rock Pressure) N/A psig (surface pressure) after) N/A 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.

 _____
Signature Date
3/7/14
1-29-14

Were core samples taken? Yes__ No_x__

Were cuttings caught during drilling? Yes_x_ No__

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Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list: Bond Log, Gamma Ray Log

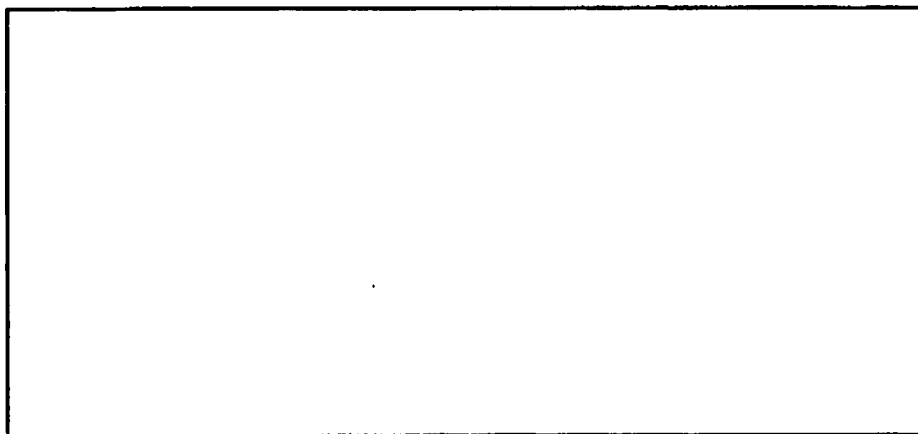
NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL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

Perforated Intervals, Fracturing or Stimulating: Please See Attached

Plug Back Details including Plug Type and Depth(s): Please see Attached

Surface:

Formations Encountered: PLEASE SEE ATTACHED



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Date	Stage #	Formation	Frac Type	Top Perf	Bottom Perf	# of Perfs	BD Press (psi)	ATP (psi)	Avg Rate (bpm)	ISIP (psi)	Frac Gradient	Sand (lbs)	Acid (gals)	Water (gals)
7/8/2013	1	Marcellus	Slickwater	13278	13560	48	5987	8179	77.5	4695	1.22	194294	3000	361,252
7/9/2013	1RP	Marcellus	Slickwater	13270	13315	24	5690	8051	74.6	6080	1.45	318763	6000	488,255
7/11/2013	2	Marcellus	Slickwater	12975	13227	40	5212	7646	76.7	3897	1.08	440312	3000	490,662
7/11/2013	3	Marcellus	Slickwater	12675	12927	40	6496	8041	76.2	5718	1.39	286399	3000	443,375
7/11/2013	3RP	Marcellus	Slickwater	12665	12709	24	7506	8343	70.0	4699	1.22	250623	3000	385,749
7/12/2013	4	Marcellus	Slickwater	12375	12627	40	5883	8073	77.2	7126	1.62	346280	3000	383,917
7/15/2013	4inj	Marcellus	Slickwater	12375	12627	N/A	7388	6618	5.4	N/A	N/A	N/A	3000	35,050
7/16/2013	4inj-2	Marcellus	Slickwater	12375	12627	N/A	N/A	5740	16	N/A	N/A	N/A	N/A	19,011
7/16/2013	5inj	Marcellus	Slickwater	12076	12327	40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Stage #	Plug Type	Plug Depth
1	No Plug	No Plug
2	Composite Flow Throug Plug	13250
3	Composite Flow Throug Plug	12950
4	Composite Flow Throug Plug	12650
5	Composite Flow Throug Plug	12350

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Formations	Top TVD	Base TVD	Top MD	Base MD	Fluid
Sandstone and Shale, Undif.	0	472	0	472	
Shale	472	533	472	533	
Sandstone	533	656	533	656	
Shale	656	723	656	724	
Sandstone	723	769	724	770	
Shale	769	788	770	790	
Sandstone	788	906	790	911	
Shale	906	955	911	961	
Sandstone	955	989	961	996	
Shale	989	1105	996	1114	
Sandstone	1105	1150	1114	1160	
Shale	1150	1270	1160	1280	
Sandstone	1270	1305	1280	1315	
Shale	1305	1463	1315	1474	
Big Lime	1463	1720	1474	1737	
Shale	1720	1910	1737	1933	
Weir	1910	1962	1933	1985	
Upper Devonian Undif.	1962	3197	1985	3246	
Lower Huron	3197	4346	3246	4428	
Benson	4346	4366	4428	4721	
Angola	4632	4703	4721	4794	
Alexander	4703	4797	4794	4995	
Rheinstreet	4899	5496	4995	5656	
Sycamore	5496	5528	5656	5699	
Cashaqua	5528	5762	5699	6094	
Middlesex	5762	5804	6094	6181	
West River	5804	5869	6181	6316	
Burkett	5869	5895	6316	6380	
Tully Limestone	5895	5897	6380	6386	
Hamilton	5897	5899	6386	6392	
Marcellus	5899	5947	6392	not encountered	Gas
Onondaga	5947	5952	not encountered	not encountered	
Huntersville	5952	not encountered	not encountered	not encountered	

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Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Fresh Water	Operator				100.00%	91.47406%	Density = 8.340
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10.00%	0.07781%	
SAND - COMMON WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00%	2.21582%	
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00%	5.36560%	
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10.00%	0.00376%	
Scalechek® LP-65 Scale Inhibitor	Halliburton	Scale Inhibitor	Ammonium chloride	12125-02-9	10.00%	0.00223%	
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30.00%	0.01795%	
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60.00%	0.00029%	
			Naphtha, hydrotreated heavy	64742-48-9	60.00%	0.00029%	
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1.00%	0.00001%	
			Ethanol	64-17-5	60.00%	0.00081%	
			Heavy aromatic petroleum naphtha	64742-94-5	30.00%	0.00041%	
			Naphthalene	91-20-3	5.00%	0.00007%	
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5.00%	0.00007%	
FE-1A ACIDIZING COMPOSITION	Halliburton	Additive	Acetic acid	64-19-7	60.00%	0.00242%	
			Acetic anhydride	108-24-7	100.00%	0.00404%	
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60.00%	0.00040%	
			Propargyl alcohol	107-19-7	10.00%	0.00007%	
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100.00%	0.03888%	
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100.00%	0.00129%	
Ingredients Listed Below This Line Are Part of the Fluid Composition Provided by Halliburton Which Do Not Appear On the Material Safety Data Sheet							
			Acetic acid	64-19-7			
			Acetic anhydride	108-24-7			
			Alcohols, C12-16, ethoxylated	68551-12-2			
			Alcohols, C14-C15, ethoxylated	68951-67-7			
			Ammonium chloride	12125-02-9			

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			Bentonite, benzy(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4		
			Citric acid	77-92-9		
			Crystalline silica, quartz	14808-60-7		
			Fatty acid tall oil amide	Confidential Business Information		
			Fatty acids, tall oil	Confidential Business Information		
			Fatty alcohol polyglycol ether surfactant	9043-30-5		
			Formaldehyde	50-00-0		
			Olefins	Confidential Business Information		
			Olefins	Confidential Business Information		
			Olefins	Confidential Business Information		
			Olefins	Confidential Business Information		
			Organic phosphonate	Confidential Business Information		
			Oxyalkylated phenolic resin	Confidential Business Information		
			Oxyalkylated phenolic resin	Confidential Business Information		
			Polyacrylamide copolymer	Confidential Business Information		
			Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl salts with bentonite	68953-58-2		
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1		
			Silica gel	112926-00-8		
			Sodium chloride	7647-14-5		
			Sodium sulfate	7757-82-6		
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6		

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			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8			
			Surfactant mixture	Confidential Business Information			
			Surfactant mixture	Confidential Business Information			
			Water	7732-18-5			