



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Friday, January 05, 2018
WELL WORK PERMIT
Horizontal 6A / New Drill

CNX GAS COMPANY LLC
POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for MAJ6EHSUT
47-051-01938-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: MAJ6EHSUT
Farm Name: CNX LAND, LLC
U.S. WELL NUMBER: 47-051-01938-00-00
Horizontal 6A / New Drill
Date Issued: 1/5/2018

Promoting a healthy environment.

01/05/2018

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street, SE Charleston, WV 25304
(304)926-0499, Ext 1656

Jim Justice, Governor
Barry K. Lay, Chairman
ogcc.wv.gov

November 7, 2017

Department of Environmental Protection
Office of Oil and Gas
Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-051-01938

COMPANY: CNX Gas Company, LLC

FARM: MAJ6EHSUT

COUNTY: Marshall DISTRICT: Webster QUAD: Majorsville

The deep well review of the application for the above company is Approved to drill to Trenton for Point Pleasant completion.

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1. Comments to Notice of Deviation filed? Yes – withdrawn on November 2, 2017
2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? yes
3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: none
4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Susan Rose
Administrator

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: CNX Gas Company, LLC 494458046 Marshall Webster Majorsville
Operator ID County District Quadrangle

2) Operator's Well Number: MAJ6EHSUT Well Pad Name: MAJ6HSUT

3) Farm Name/Surface Owner: Majorsville Public Road Access: Lone Oak Road

4) Elevation, current ground: 1,370.14 Elevation, proposed post-construction: 1345.4

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No NO

JN 12/6/17

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
POINT PLEASANT, 11,952' TVDGL, 78', 10,757psi (0.9 psi/ft. pressure gradient)

8) Proposed Total Vertical Depth: 12,220' (at pilot hole/Trenton), 11,952' (at producing formation/Point Pleasant)

9) Formation at Total Vertical Depth: PILOT-TRENTON, PRODUCING-POINT PLEASANT

10) Proposed Total Measured Depth: 18,600'

11) Proposed Horizontal Leg Length: 7,000'

12) Approximate Fresh Water Strata Depths: 378'

13) Method to Determine Fresh Water Depths: 2,500' RADIUS SEARCH

14) Approximate Saltwater Depths: N/A

15) Approximate Coal Seam Depths: 772' (PITTSBURGH)

16) Approximate Depth to Possible Void (coal mine, karst, other): 769'

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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WW-6B
(04/15)

API NO. 47- 051-01938
 OPERATOR WELL NO. MAJ6HSUT
 Well Pad Name: MAJ6HSUT

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30	N	A-252	99	80	80	130/CTS
Fresh Water							
Coal	18.625	N	J-55	87.5	900	900	843/CTS
Intermediate	13.375	N	NT-80LHE	68	3200	3200	1667/CTS
Production	5.5	N	Q-125VAXP	23	18550	18550	2186/ TOC@10,050'
Tubing							
Liners	9.625	N	P-110HP	43.5	11050	11050	2595/ TOC@2200'

JN 12/6/17

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30	36	0.312		50	A	1.18
Fresh Water							
Coal	18.625	24	0.435	2250	975	A	1.19
Intermediate	13.375	17.5	0.480	4930	4000	A	1.18
Production	5.5	8.5	0.415	19040	9000	A	1.01
Tubing							
Liners	9.625	12.25	0.395	9900	6700	A	2.28

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Kind:	none		Environmental Protection
Sizes:	none		
Depths Set:	none		

JW 12/6/17

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

The well will be drilled to a depth of 12,220ft for the pilot hole. After setting the deep intermediate casing string, the well will be drilled to the top of the Utica formation where coring tools will be rigged up. Full core will be obtained through the Utica and Point Pleasant formations. A quad-combo log suite, litho-scanner, sonic scanner and image log will then be run through the open hole after the core is extracted from TD back to the deep intermediate casing point. The well will then be plugged back to a kick-off point necessary to land the horizontal portion of the well in the target/producing formation, the Point Pleasant, at a TVD of 11,952ft prior to running production casing and drilling to TMD.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals.
Max Pressure - 14,500 psi. Max Rate - 100 bbl/min.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 13.0

22) Area to be disturbed for well pad only, less access road (acres): 5.4

23) Describe centralizer placement for each casing string:

Centralizers will be placed in each string to optimize stand off efficiency. Surface strings will not have centralizers placed within 80' of surface in the event of a grout job to get cement to surface. Typical procedure of 1:3 through vertical hole, and 1:1 through the curve/lateral will be followed. Conductor will not have any centralizers run.

24) Describe all cement additives associated with each cement type:

See attached cement additives list.

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25) Proposed borehole conditioning procedures:

Conductor- The hole is auger drilled w/ air and casing ran in air hole.
Surface- The hole is drilled w/ air and casing ran in air hole. Fresh water will be circulated prior to cementing.
Intermediate 1- The hole is drilled w/ air and casing is ran in air hole. Soap will be ran to help transport cuttings.
Intermediate 2- The hole is drilled w/ air and casing is ran in a brine filled hole.
Production- The hole will be drilled on synthetic based fluid, conditioned well bore at TD, run casing in SOBM filled hole.

*Note: Attach additional sheets as needed.

51-01938



WELL: MAJBAHSU
 LOCATION: 33 934432 -40 54853 (NAD27 GCS)

COUNTY & STATE: Greene County, PA
 Surface Elevation: 1,343 KS: n/a

Top Depth from Ground Elevation (TVD)	Formation	Possible Show	Coal Seam Thickness (FEET)	Minable Coal Seam	General Rock Type	Drilling Problems	Type of Formation Evaluation	Bit Size	Casing Size & Grade	Casing Depth	Frac Gradient	Abnormal Pressure	Drilling Fluid
	Soil and Rock	Unknown			Top Soil and Rock				CONDUIT	80			
378	Deepest Surrounding Water Well Depth (2500' radius)	WATER			Coal		"RED ROCK" is known to swell and cave		SURFACE / COAL (18 5/8")	900		Not Expected	Freshwater Only
769	Roof Coal Zone		0.0	no									
772	Pittsburgh Coal Seam		4.0	yes									
COAL PROTECTIVE STRING													
1954	Big Lime				Limestone								
1982	Big Injun Top	GAS / WATER			Sand		The Big Injun is known to be a water producer						
2124	Big Injun Base				Shale								
2475	Gantz				Sandstone								
2800	50 Foot				Sandstone								
3286	Nineveh Sand				Sandstone								
2834	Gordon	GAS / WATER			Sandstone		The Upper Devonian Sands are known to produce water in surrounding wells		STORAGE PROTECTION (13 3/8")				
2860	Fourth	GAS / WATER			Sandstone								
2956	Fifth	GAS / WATER			Sandstone								
3200	STORAGE PROTECTION STRING									3200	N/A		
6247	Rhinestreet	GAS			Grey Shale								
6632	Tully	GAS			Limestone								
6660	Hamilton	GAS			Grey Shale								
6775	Marcellus	GAS			Black Shale								
6830	Onondaga	GAS			Limestone								
6925	Oriskany	GAS			Sandstone								
6971	Helderberg				Limestone								
7265	Salina				Salt								
8445	Lockport				Dolomite								
9597	Rochester-Rose Hill				Grey Shale								
9010	Packer Shell				Limestone								
9627	Clinton				Sandstone								
9897	Queenston				Red Silty Shale								
10800	Reedsville				Grey								
INTERMEDIATE CASING													
11797	Utica				Grey Shale								
11952	Point Pleasant	GAS			Black Silty Marl								
12030	Lexington	GAS			Limestone								
12070	Trenton				Limestone								
12220	TD				TOTAL DEPTH					12320			
									PRODUCTION (5 1/2")		Unknown (estimated around 0.05 cfm)	The Point Pleasant should be overpressured.	-9710 11053 -9680 11323 -10260 11593
									INTERMEDIATE CASING (8 5/8")			The Marcellus is expected to be overpressured.	AIRSCAP (as needed) 6593 7433 8058
									STORAGE PROTECTION (13 3/8")				

CONSOL Energy cement additives as of 12/29/16

Conductor:

- 2% CaCl₂

Surface:

Stage 1 Lead 1 Class A
Base Slurry Class A Cement
1.5% BWOC Calcium Chloride

Intermediate 1:

Lead 1 Class A
Base Slurry Class A Cement
1% BWOC Calcium Chloride
0.4 lb/sk Gas Block
0.4 lb/sk Powdered Defoamer
0.25 lb/sk Flo-Seal (Polyflake LCM)

Intermediate 2:

Tail 1 Class H
Base Slurry Class H
0.3% BWOC Fluid Loss Latex
0.4% BWOC Powdered Defoamer
0.2% BWOC Suspension Agent - High Temp
0.2% BWOC Low Temp Retarder

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Lead 1 75:25 Type III:Poz blend
Base Slurry 75:25 Type III:Poz blend
12% BWOW Sodium Chloride
0.25% BWOC Suspension Agent - High Temp
0.4% BWOC Powdered Defoamer
0.2% BWOC Low Temp Retarder
5 lb/sk Silica Fume Alternative
0.5% BWOC Fluid Loss - Light Weight

Production:

Lead 1 50:50 Class H:Poz blend
Base Slurry 50:50 Class H:Poz blend
0.2% BWOC Gas Block
0.25% BWOC Low Temp Retarder
0.5% BWOC Premium Gel
0.7% BWOC Powdered Defoamer
0.05% BWOC Suspension Agent - High Temp

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CNX Gas Company, LLC

Conventional Operator Notice and Monitoring Plan – Hydraulic Fracturing Activity

MAJ6HSUT Well Pad

Marshall County, West Virginia



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Purpose:

The purpose of this hydraulic monitoring plan is to identify and notify any potentially affected conventional well operators near planned CNX hydraulic fracturing activity.

CNX has evaluated the existing geologic conditions in the area, and the potential for communication between the geologic zone being stimulated by CNX and the zone being produced by the conventional wells exists.

This plan is being implemented as an additional safety measure to be utilized in conjunction with the existing best management practices and the site safety/emergency response plans included for the site.

1. Communications with Conventional Well Operators

CNX has identified all known conventional wells and well operators within five hundred feet (500') of this pad and lateral sections pursuant to WV Code 35 CSR 8(5.11). A list and map of these wells and operators is provided as **Attachment A**.

Upon approval of this plan, CNX will notify operators identified in the referenced attachment, via letter, of the anticipated fracturing schedule associated with this pad. A copy of this letter is included as Attachment B, and includes the recommended steps a conventional operator can take to ensure safe and compliant operations.

2. Reporting

CNX will provide information relating to the hydraulic fracturing schedule, any communication with conventional operators, and ongoing monitoring of the work upon request of the OOG or immediately in the event of any discovered abnormalities that create additional risk or concern.

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Attachment A:

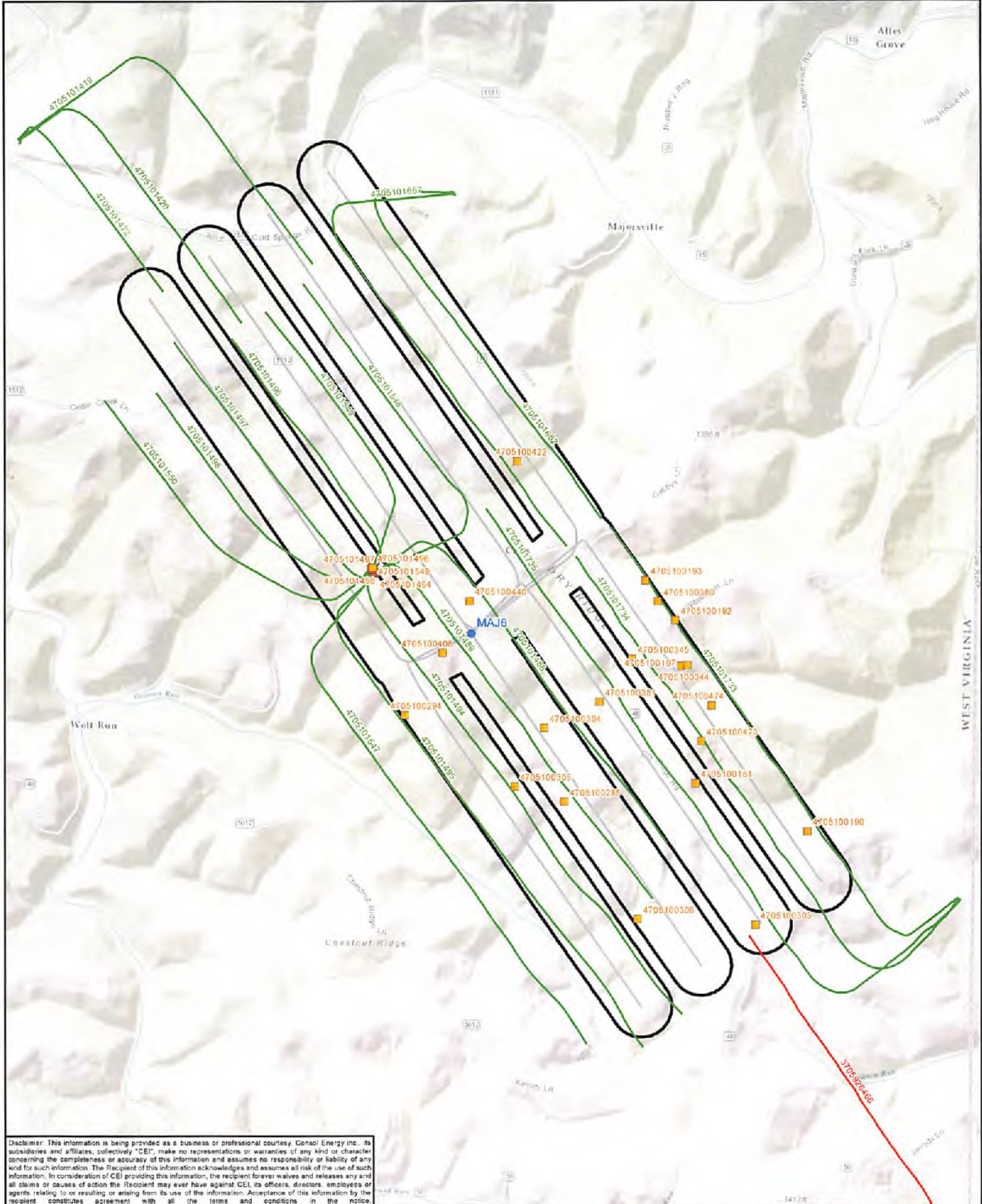
Map and List of Conventional Operators in the MAJ6 Project Area

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Legend

- MAJ6 Proposed Well Pad Location
- MAJ6 500ft Lateral Buffer
- Seneca/WVDEP Conventional/Unconventional Well Locations
- Noble Energy Drilled Laterals
- CNX Drilled Laterals
- MAJ5 Proposed Laterals



0 250 500 1000 1500 2000 Feet
1 inch = 2,000 feet

Date: 2/14/2017 Prepared By: J Steiner
Revisions: 1 Approved By: S Veltre

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Intersecting Well Information

API	Operator	Well Number	TD	Producing Formation at TD	Permit Date	Well Status
4705100294	CONSOL PENNSYLVANIA COAL COMPAI	F-3486	1298	DUNKARD, BIG	1/1/1968	PLUGGED UNKNOWN
4705100381	MANUFACTURERS LIGHT & HEAT CO.	L-4568	1415	SALT SANDS	unknown	DRY HOLE
4705100197	CONSOLIDATION COAL COMPANY	772215	1487	SALT SANDS	2/26/1949	PLUGGED GAS
4705100344	CONSOLIDATION COAL COMPANY	4527	1932	BIG INJUN	1/1/1961	STORAGE WELL
4705100473	MANUFACTURERS LIGHT & HEAT CO.	L-4699	1938	BIG INJUN	10/1/1962	STORAGE WELL
4705100304	MANUFACTURERS LIGHT & HEAT CO.	618417	1939	BIG INJUN	8/18/1957	PLUGGED GAS
4705100193	CONSOLIDATION COAL COMPANY	{3-4008} SGW 107	1944	BIG INJUN	10/1/1962	PLUGGED STORAGE
4705100380	CONSOLIDATION COAL COMPANY	4567	1965	BIG INJUN	1/1/1961	PLUGGED GAS
4705100190	CONSOL PENNSYLVANIA COAL COMPAI	4000 OR 5003	1966	BIG INJUN	11/26/1948	PLUGGED GAS
4705100192	CONSOLIDATION COAL COMPANY	768503	1978	BIG INJUN	11/26/1948	STORAGE WELL
4705100408	MANUFACTURERS LIGHT & HEAT CO.	L-4620	1978	BIG INJUN	12/11/1961	STORAGE WELL
4705100440	CONSOLIDATION COAL COMPANY	L-4691	1980	BIG INJUN	6/6/1963	PLUGGED
4705100305	OPERATOR UNKNOWN	4445	1985	BIG INJUN	3/1/1958	PLUGGED UNKNOWN
4705100303	CONSOL PENNSYLVANIA COAL COMPAI	131124	2008	BIG INJUN	11/19/2008	PLUGGED GAS
4705100474	MANUFACTURERS LIGHT & HEAT CO.	L-4700	2008	BIG INJUN	9/17/1962	STORAGE WELL
4705100345	CONSOLIDATION COAL COMPANY	4528	2022	BIG INJUN	3/1/1961	PLUGGED STORAGE
4705100306	CONSOL PENNSYLVANIA COAL COMPAI	4464	2043	BIG INJUN	6/1/1958	PLUGGED UNKNOWN
4705100181	CONSOL PENNSYLVANIA COAL COMPAI	3-3975 / 5118	2098	BIG INJUN	8/26/1948	PLUGGED GAS
4705100285	MANUFACTURERS LIGHT & HEAT CO.	878104	2170	BIG INJUN	5/1/1955	PLUGGED GAS
4705100422	CONSOLIDATION COAL COMPANY	4624	2850	FIFTH SAND	11/1/1961	PLUGGED STORAGE
4705101472	Noble Energy	SHL6JHS	6229	MARCELLUS	4/25/2011	HORIZONTAL GAS AND OIL
4705101419	Noble Energy	SHL6EHS	6235	MARCELLUS	1/3/2011	HORIZONTAL GAS AND OIL
4705101420	Noble Energy	SHL6FHS	6248	MARCELLUS	1/3/2011	HORIZONTAL GAS AND OIL
4705101667	Noble Energy	WEB13GHS	6668	MARCELLUS	8/15/2013	HORIZONTAL GAS AND OIL
4705101662	Noble Energy	WEB13AHS	6668	MARCELLUS	8/14/2013	HORIZONTAL GAS AND OIL
4705101497	Noble Energy	WEB4KHS WV0510594HS	6691	MARCELLUS	8/25/2011	HORIZONTAL GAS AND OIL
4705101497	Noble Energy	WEB4KHS	6691	MARCELLUS	4/26/2011	HORIZONTAL GAS AND OIL
4705101549	Noble Energy	WEB4HHS	6693	MARCELLUS	5/21/2012	HORIZONTAL GAS AND OIL
4705101549	Noble Energy	WEB4HHS	6693	MARCELLUS	11/28/2011	HORIZONTAL GAS AND OIL
4705101548	Noble Energy	WEB4GHS	6701	MARCELLUS	5/21/2012	HORIZONTAL GAS AND OIL
4705101548	Noble Energy	WEB4GHS	6701	MARCELLUS	11/29/2011	HORIZONTAL GAS AND OIL
4705101550	Noble Energy	WEB4MHS	6705	MARCELLUS	5/21/2012	HORIZONTAL GAS AND OIL
4705101550	Noble Energy	WEB4MHS	6705	MARCELLUS	11/30/2011	HORIZONTAL GAS AND OIL
4705101498	Noble Energy	WEB4LHS WV0510595HS	6724	MARCELLUS	8/25/2011	HORIZONTAL GAS AND OIL
4705101498	Noble Energy	WEB4LHS	6724	MARCELLUS	4/26/2011	HORIZONTAL GAS AND OIL
4705101488	Noble Energy	WEB4BHS NO. WV0510590HS	6801	MARCELLUS	11/28/2011	HORIZONTAL GAS AND OIL
4705101488	Noble Energy	WEB4BHS	6801	MARCELLUS	4/26/2011	HORIZONTAL GAS AND OIL
4705101489	Noble Energy	WEB4CHS WV0510591HS	6805	MARCELLUS	9/1/2011	HORIZONTAL GAS AND OIL
4705101489	Noble Energy	WEB4CHS	6805	MARCELLUS	4/26/2011	HORIZONTAL GAS AND OIL
4705101547	Noble Energy	WEB4FHS	6824	MARCELLUS	5/21/2012	HORIZONTAL GAS AND OIL
4705101547	Noble Energy	WEB4FHS	6824	MARCELLUS	11/29/2011	HORIZONTAL GAS AND OIL
4705101495	Noble Energy	WEB4EHS WV0510324HS	6830	MARCELLUS	8/25/2011	HORIZONTAL GAS AND OIL
4705101495	Noble Energy	WEB4EHS	6830	MARCELLUS	4/26/2011	HORIZONTAL GAS AND OIL
4705101494	Noble Energy	WEB4DHS WV0510325HS	6843	MARCELLUS	8/25/2011	HORIZONTAL GAS AND OIL
4705101494	Noble Energy	WEB4DHS	6843	MARCELLUS	4/26/2011	HORIZONTAL GAS AND OIL
4705101496	Noble Energy	WEB4JHS WV0510593HS	6895	MARCELLUS	8/25/2011	HORIZONTAL GAS AND OIL
4705101496	Noble Energy	WEB4JHS	6895	MARCELLUS	4/26/2011	HORIZONTAL GAS AND OIL
4705101735	Noble Energy	WEB22FHS	6922	MARCELLUS	2/10/2014	HORIZONTAL GAS AND OIL
4705101734	Noble Energy	WEB22EHS	6922	MARCELLUS	2/10/2014	HORIZONTAL GAS AND OIL
4705101733	Noble Energy	WEB22DHS	6922	MARCELLUS	2/10/2014	HORIZONTAL GAS AND OIL
3705926466	CNX Gas Company, LLC	RHL23JHS		Marcellus	5/1/2014	HORIZONTAL GAS AND OIL

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Attachment B:

Conventional Operator Notice Letter – Example

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[Conventional Well Operator]

[Address]

[State]

CONSOL Energy Inc.
 CNX Center
 1000 CONSOL Energy Drive
 Canonsburg, PA 15317

(724) 485-4040
PCR@consolenergy.com

CNX Gas Production Team

May 2, 2017

Re: Marshall County Hydraulic Fracturing Notice

Dear Sir or Madam,

CNX Gas Company, LLC (CNX) has developed a Utica well pad "MAJ6HSUT" located in Marshall County, West Virginia. Through CNX's evaluation pursuant to WV Code 35 CSR 8(5.11), you have been identified as the owner or operator of a well within a 500' radius of the surface location or lateral section of the wellbore. Due to the apparent presence of unique geological conditions, communication between CNX hydraulic fracturing operations and the identified well is a possibility. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in monitoring for changes that would indicate communication between your well(s) and our planned operation.

CNX anticipates conducting hydraulic fracturing activity at the MAJ6HSUT pad during [timeframe]. Plats for each well to be hydraulically fractured on this pad are attached.

We recommend that conventional operators conduct the following activities before, during, and after fracturing operations.

1. Inspect surface equipment prior to fracturing, to establish integrity and confirm well conditions.
2. Observe wells during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
3. Inspect and upgrade master valves or other necessary equipment for wellhead integrity as you see fit.
4. Notify the OOG and CNX if any changes in water, gas production, pressure, or other conditions that cause abnormal risk or concern.

Please feel free to contact CNX's Production Control Room at 724-485-4040 (staffed 24/7) with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0499.

Sincerely,

CNX Production

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 Office of Oil and Gas

MAY 12 2017

WV Department of
 Environmental Protection 01/05/2018

WW-9
(4/16)

API Number 47 - 051 - 01938
Operator's Well No. MAJ6EHSUT

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company, LLC OP Code 494458046

Watershed (HUC 10) Wheeling Creek Quadrangle Majorsville

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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Office of Oil & Gas

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Will closed loop system be used? If so, describe: Yes

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. vertical AIR / horizontal Oil Base Fluid

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Bactericide, Polymers, and Weighting Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Land Application (land application of all cuttings while drilling on air) & Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Waste Management facilities

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Erika Whetstone

Company Official (Typed Name) Erika Whetstone

Company Official Title Supervisor - Gas Permitting North

Subscribed and sworn before me this 9th day of May, 2017

Lori L Walker Notary Public

My commission expires February 23, 2019

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Lori L. Walker, Notary Public
Richhill Twp., Greene County
My Commission Expires Feb. 23, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 13.0 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	25	Orchard Grass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jim Nielsen

Comments: ** Approval of use of 10K BOPs specified in Site Safety Plan is approved only upon review by Office of Oil & Gas at Charleston, WV. I would prefer use of 15K BOP stack since no other Utica wells have been drilled in the immediate area.

Handwritten notes: OK for 10K BOP stack, J. [unclear], 4/21/17, W. [unclear]

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MAY 12 2017

WV Department of Environmental Protection

Title: Oil & Gas Inspector

Date: 05/08/2017

Field Reviewed? () Yes () No

51-01938

Form WW-9

Operator's Well No. MAJ6EHSUT

CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 13.0 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

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Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jim Nicholson

Comments: ** Approval of use of 10K BOPs specified in Site Safety Plan is approved only upon review by Office of Oil & Gas at Charleston, WV. I would prefer use of 15K BOP stack since no other Utica wells have been drilled in the immediate area.

Approved
10/10/17
J. Jackson
11/22/17

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WV Department of
Environmental Protection

Title: Oil & Gas Inspector

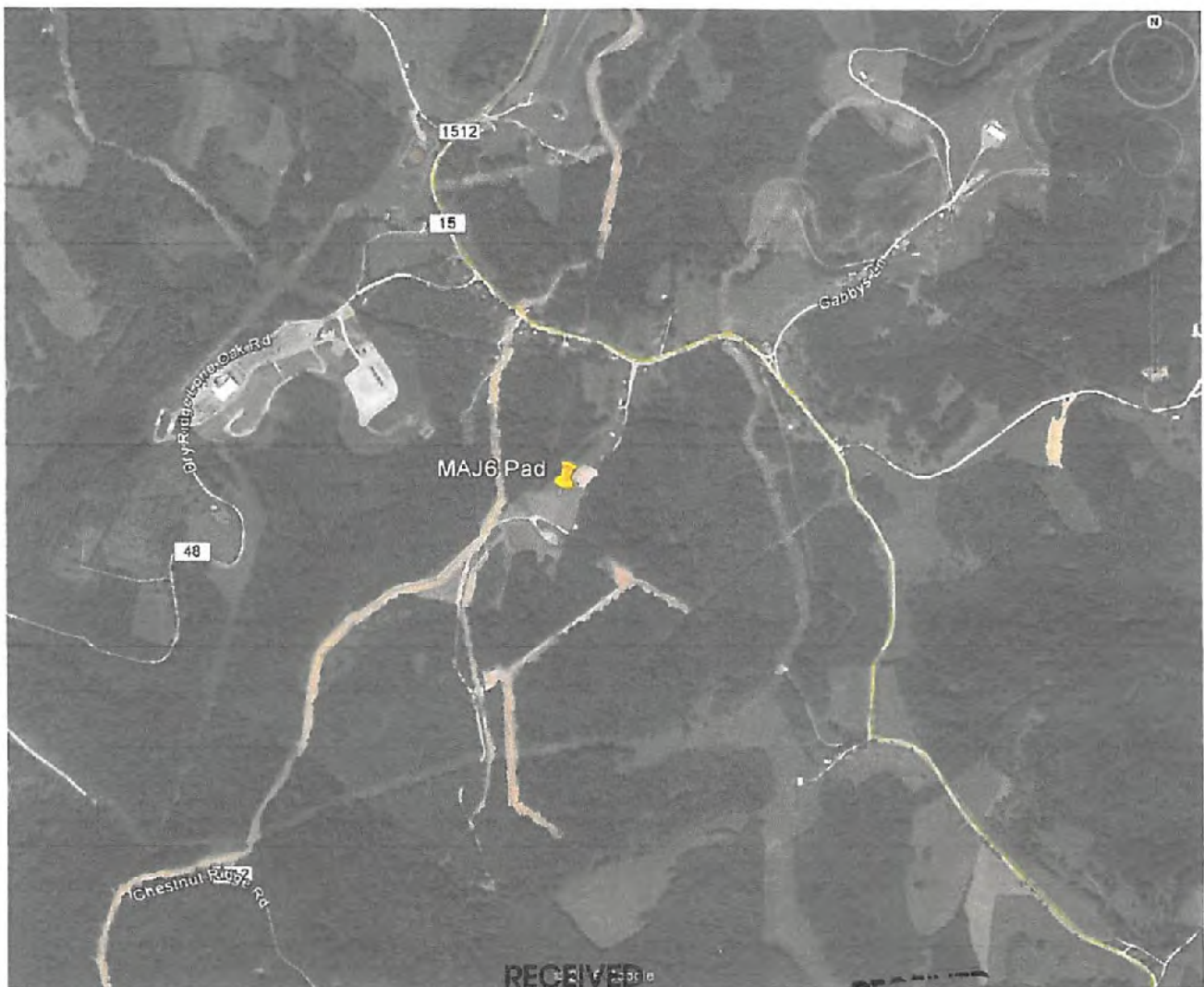
Date: 05/08/2017

Field Reviewed? (X) Yes () No

01/05/2018



Site Safety Plan for Well MAJ6EHSUT CNX Gas Company, LLC.



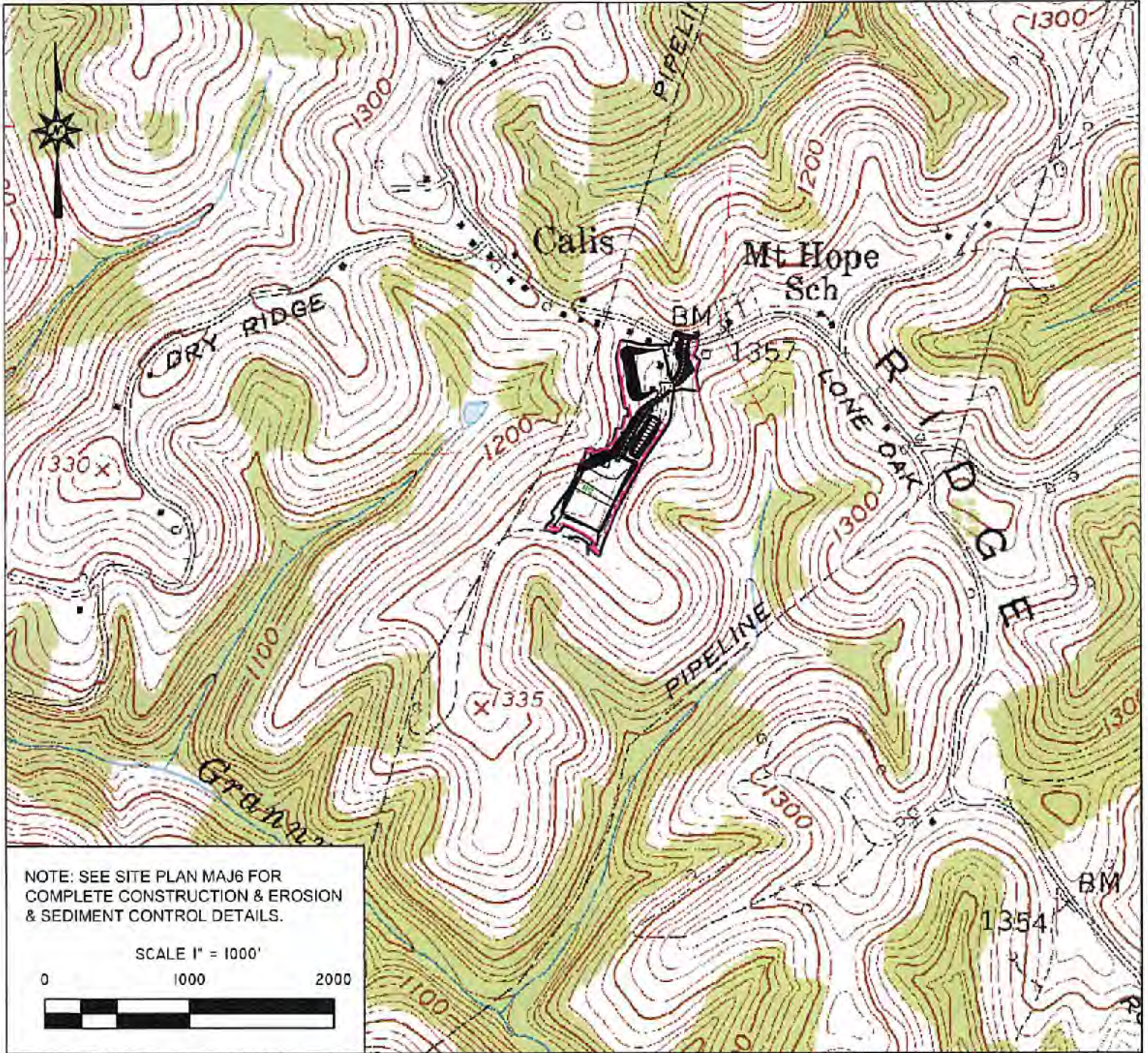
RECEIVED
Office of Oil and Gas

JW 5/13/17

DEC 07 2017

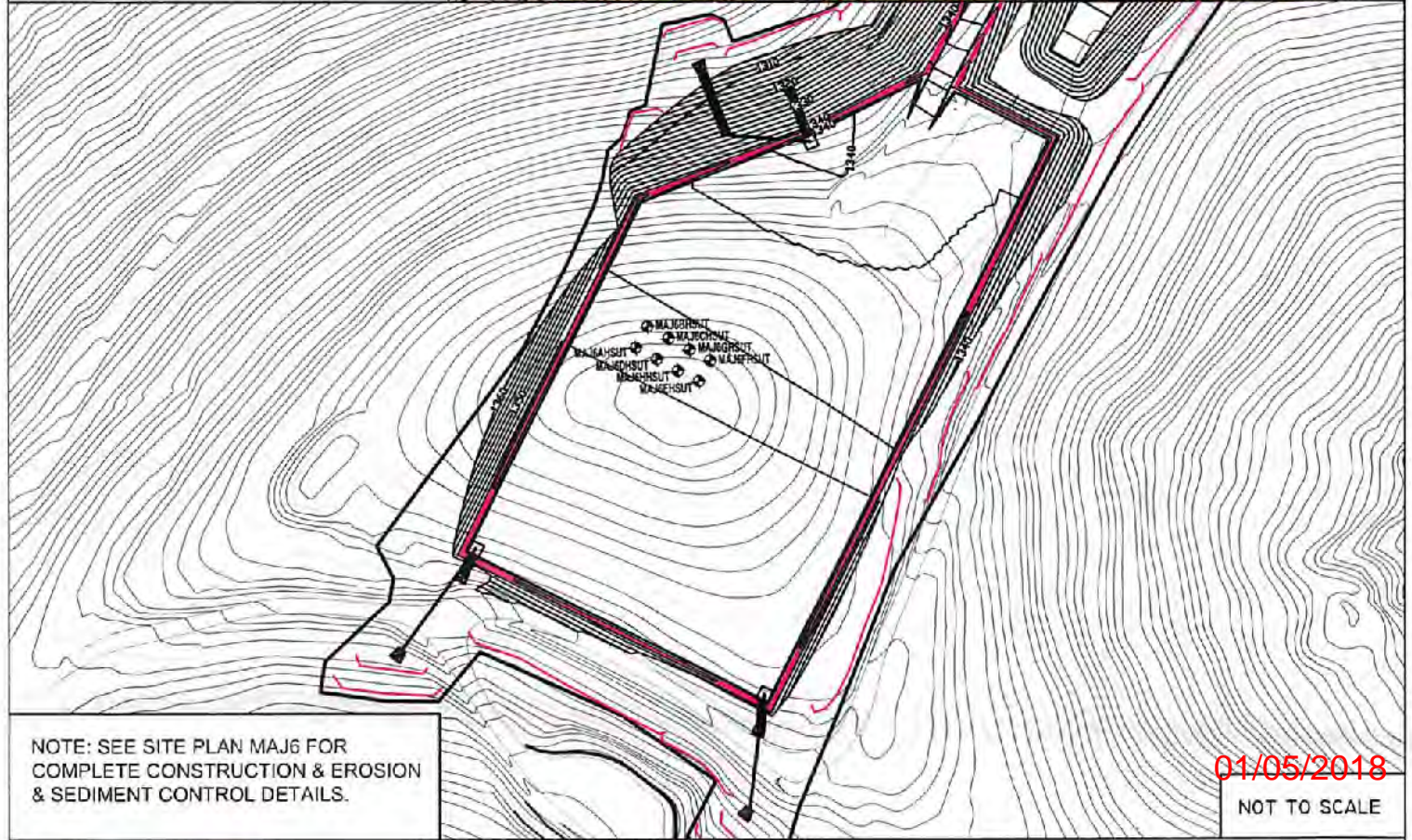
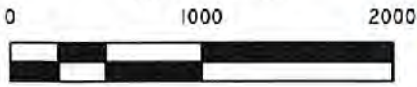
WV Department of
Environmental Protection

Office of
Environmental
Environmental



NOTE: SEE SITE PLAN MAJ6 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

SCALE 1" = 1000'



NOTE: SEE SITE PLAN MAJ6 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

01/05/2018

NOT TO SCALE

Blue Mountain Inc.
 10125 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

PREPARED FOR:
 CNX GAS COMPANY LLC
 1000 CONSOL ENERGY DRIVE
 CANONSBURG, PA 15317

MAJ6 WELL
 TOPO SECTION OF MAJORSVILLE 7.5'
 USGS TOPO QUADRANGLE

FORM WW9

DECEMBER 29, 2016

BHL is located on topo map 14,761 feet south of Latitude: 39° 57' 30"
 SHL is located on topo map 8,619 feet south of Latitude: 39° 57' 30"

LINE	BEARING	DISTANCE
R1	N 83°21'07" W	204.51'
R2	N 39°36'19" W	216.92'
R3	N 02°45'26" W	148.99'
R4	N 72°51'13" W	1133.94'
R5	N 31°02'04" E	1267.95'
R6	S 06°53'54" W	1076.44'

LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- LEASE BOUNDARY
- UNIT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- SURFACE OWNERS & LESSORS
- EXISTING WELLS
- PLUGGED WELLS

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
 N:4420604.10
 E:538574.78
 NAD83_WW NORTH
 N:524272.274
 E:1674482.941
 LAT/LON-NAD83
 LAT:39°56'04.821"
 LON:80°32'54.680"

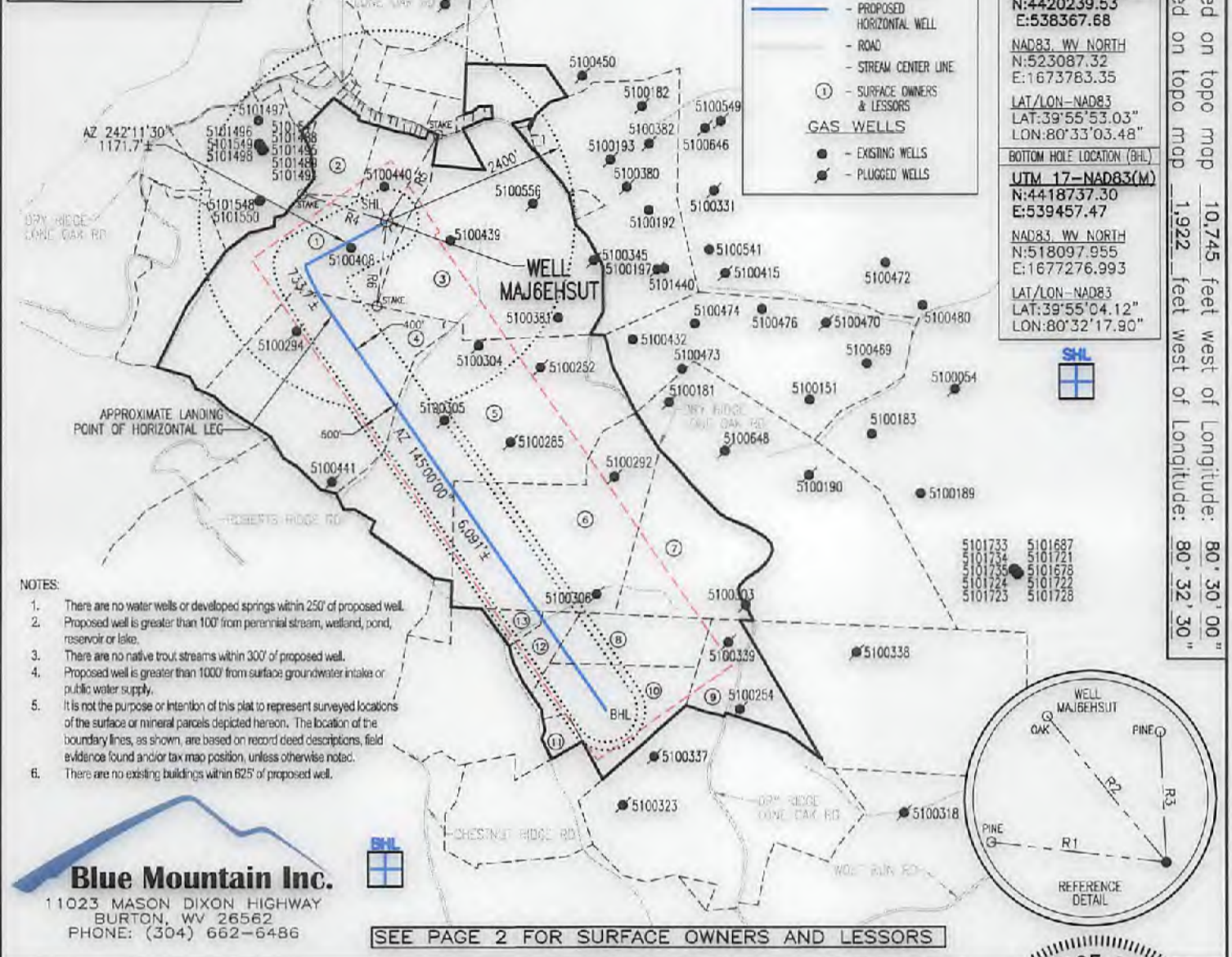
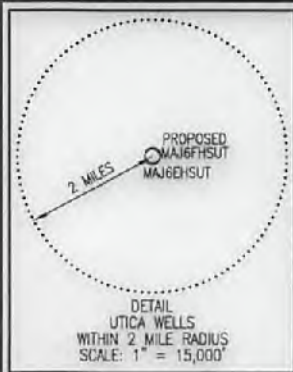
APPROX. LANDING POINT

UTM 17-NAD83(M)
 N:4420239.53
 E:538367.68
 NAD83_WW NORTH
 N:523087.32
 E:1673783.35
 LAT/LON-NAD83
 LAT:39°55'53.03"
 LON:80°33'03.48"

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
 N:4418737.30
 E:539457.47
 NAD83_WW NORTH
 N:518097.955
 E:1677276.993
 LAT/LON-NAD83
 LAT:39°55'04.12"
 LON:80°32'17.90"

BHL is located on topo map 10,745 feet west of Longitude: 80° 30' 00"
 SHL is located on topo map 1,922 feet west of Longitude: 80° 32' 30"



- NOTES:**
- There are no water wells or developed springs within 250' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
 - There are no existing buildings within 625' of proposed well.

Blue Mountain Inc.

11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: MAJ6EHSUT
 DRAWING #: MAJ6EHSUT
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: George D. Six
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: SEPTEMBER 19, 2017
 OPERATOR'S WELL #: MAJ6EHSUT
 API WELL #: 47 51 01938H6A
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK ELEVATION: 1370.14'

COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, WV 7.5'

SURFACE OWNER: CNX LAND, LLC ACREAGE: 95.23±

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY LLC ACREAGE: 767.801±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE

(SPECIFY): _____

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: PILOT TVD: 12,200±, TVD: 11,952±, TMD: 18,600±

WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT ANTHONY KENDZIORA
 Address 1000 CONSOL ENERGY DRIVE Address 1 DOMINION DRIVE
 City CANONSBURG State PA Zip Code 15317 City JANE LEW State WV Zip Code 26378

01/05/2018

MAJ6EHSUT

PAGE 2 OF 2

	SURFACE OWNER	LESSOR	DIST-TM/PAR
1	CNX LAND, LLC	CNX GAS COMPANY LLC	15-5/13
2	CONSOLIDATION COAL COMPANY	CONSOLIDATION COAL COMPANY	15-5/14
3	ALBERT J. PACZEWSKI, JR., ET UX ALBERT J. JR., AND VICKIE J. PACZEWSKI	ALBERT J. PACZEWSKI, JR., ET UX. ALBERT J. PACZEWSKI, JR., ET UX.	15-5/37 15-5/40
4	CNX LAND, LLC	CONSOL PENNSYLVANIA COAL COMPANY LLC	15-5/12
5	RANDALL B. SCHMIDT	MARTHA K. HILL, ET AL.	15-5/41 15-5/41.1
6	RANDALL B. SCHMIDT	ROBERT BRENT KOONTZ, ET AL.	15-11/10
7	ROGER D. MCCrackEN ET AL	AMP FUND III, LP, ET AL.	15-11/21
8	CNX LAND, LLC	CONSOL PENNSYLVANIA COAL COMPANY LLC	15-11/11
9	MICHAEL S. RIGGLE	CNX GAS COMPANY LLC	15-11/20
10	CNX LAND, LLC	CONSOL PENNSYLVANIA COAL COMPANY LLC	15-11/12
11	CNX LAND, LLC	CONSOL PENNSYLVANIA COAL COMPANY LLC	15-11/12
12	CNX LAND, LLC	CONSOL PENNSYLVANIA COAL COMPANY LLC	15-11/12
13	CNX LAND, LLC	CONSOL PENNSYLVANIA COAL COMPANY LLC	15-11/12

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4420604.10
E:538574.78

NAD83, WV NORTH
N:524272.274
E:1674482.941

LAT/LON-NAD83
LAT:39°56'04.821"
LON:80°32'54.680"

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E:539457.47

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E:1677276.993

LAT/LON-NAD83
LAT:39°55'04.12"
LON:80°32'17.90"

51-01938H6A

01/05/2018

SEPTEMBER 19, 2017

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
----------------------	-----------------------	-----------------------	---------	-----------

See attached

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: CNX Gas Company, LLC
 By: Erika Whetstone
 Its: Permitting Manager

51-01938

Tract ID	Title QLS #	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1	202217000	Elmer Hartley and Ota Hartley, his wife	Manufacturer's Heat and Light Company	1/8	342/63
		Manufacturer's Heat and Light Company	Columbia Gas Transmission Corporation	Assignment	422/204
		Columbia Gas Transmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
		Columbia Gas Transmission LLC	NISource Energy Ventures	Assignment	AB 21/428
		NISource Energy Ventures	CNX Gas Company LLC with joinder Columbia Gas Transmission LLC	Sublease	685/136; Rerecorded 693/414
		NISource Energy Ventures	CNX Gas Company LLC with joinder Columbia Gas Transmission LLC	Corrective Memo of Sublease	697/295
		Columbia Gas Transmission LLC	CNX Gas Company LLC	First Amendment to Sublease	729/446
		NISource Energy Ventures	CNX Gas Company LLC with joinder Columbia Gas Transmission LLC	Second Amendment to Sublease	782/1; re-recorded MRB 21/497
		NISource Energy Ventures	Columbia Energy Ventures, LLC	Name Change	848/97
		Columbia Energy Ventures LLC	CNX Gas Company LLC and Columbia Gas Transmission as a joinder	Sublease	848/97
		Columbia Energy Ventures, LLC; CNX Gas Company, LLC; Columbia Gas Transmission	CNX Gas Company LLC and Columbia Gas Transmission as a joinder	Amendment	864/234
Columbia Energy Ventures, LLC	CNX Gas Company LLC	Assignment	AB 33/533		
Columbia Energy Ventures, LLC	CNX Gas Company LLC	Assignment	AB 34/279		
3	204020000	Thomas J. & Ruth Elder	Columbia Gas Transmission Corporation	1/8	515/473
		Albert J. Paczewski, Jr. and Vicky J. Paczewski	Columbia Gas Transmission Corporation	Modification	667/398
		Columbia Gas Transmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
		Columbia Gas Transmission LLC	NISource Energy Ventures	Assignment	AB 21/428
		NISource Energy Ventures	CNX Gas Company LLC with joinder Columbia Gas Transmission LLC	Sublease	685/136; Rerecorded 693/414
		NISource Energy Ventures	CNX Gas Company LLC with joinder Columbia Gas Transmission LLC	Corrective Memo of Sublease	697/295
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		NISource Energy Ventures	Columbia Energy Ventures, LLC	Name Change	848/97
		Columbia Energy Ventures LLC	CNX Gas Company LLC and Columbia Gas Transmission as a joinder	Sublease	848/97
		Columbia Energy Ventures, LLC; CNX Gas Company, LLC; Columbia Gas Transmission	N/A	Amendment	864/234
Columbia Energy Ventures, LLC	CNX Gas Company LLC	Assignment	34/366		
Columbia Energy Ventures, LLC	CNX Gas Company LLC	Assignment	AB 34/478		
4	202215000	Ellsworth H. Harsh and Bessie E. Harsh; Mildred Harsh, widow, Paul Harsh, single, Catherine H. and George E. McCarran, her husband; Shere E. and Barbara Harsh, his wife; John A. and Lucille Harsh, his wife.	Columbia Gas Transmission Corporation	1/8	434/158
		Columbia Gas Transmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
		Columbia Gas Transmission LLC	NISource Energy Ventures	Assignment	AB 21/428
		NISource Energy Ventures	CNX Gas Company LLC with joinder Columbia Gas Transmission LLC	Sublease	685/136; Rerecorded 693/414
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		NISource Energy Ventures	Columbia Energy Ventures, LLC	Name Change	848/97
		Columbia Energy Ventures LLC	CNX Gas Company LLC and Columbia Gas Transmission as a joinder	Sublease	848/97
		Columbia Energy Ventures, LLC; CNX Gas Company, LLC; Columbia Gas Transmission	N/A	Amendment	864/234
		Columbia Energy Ventures, LLC	CNX Gas Company LLC	Assignment	AB 33/533
Columbia Energy Ventures, LLC	CNX Gas Company LLC	Assignment	AB 34/279		
8, 9, 10, 11, 12 (Fee Tracts)	206581000	Sandra C. Koontz	CNX Gas Company LLC	17%	776/28; re-recorded 778/280
		CNX Gas Company LLC	Noble Energy, Inc.	Assignment	AB 31/558
		Dry Ridge Resources, LLC	TH Exploration	18%	869/210
		TH Exploration	CNX Gas Company LLC	Assignment	37/9
		Martha Kay Hill and Charles D. Hill	TH Exploration	18%	865/394
TH Exploration	CNX Gas Company LLC	Assignment	37/9		
205318000	Margaret Moran	Consol Pennsylvania Coal Company	100% Consol (DEED)	668/330	
	Consol Pennsylvania Coal Company	CNX Gas Company LLC	Deed	804/189	

See next 5 & 6 (3 Leases) page



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MAY 12 2017

4		Columbia Gas Transmission LLC	NISource Energy Ventures	Assignment	AB 21/428
		NISource Energy Ventures	CNX Gas Company LLC with joinder Columbia Gas Transmission LLC	Sublease	685/136; Rerecorded 693/414
		NISource Energy Ventures	CNX Gas Company LLC with joinder Columbia Gas Transmission LLC	Corrective Memo of Sublease	697/295
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		Columbia Energy Ventures, LLC; CNX Gas Company, LLC; Columbia Gas Transmission	N/A	Amendment	864/234
		Columbia Energy Ventures, LLC	CNX Gas Company LLC	Assignment	AB 33/533
		Columbia Energy Ventures, LLC	CNX Gas Company LLC	Assignment	AB 34/279
5 & 6 (3 Leases)	206581000	Sandra C. Koontz	CNX Gas Company LLC	17%	776/28; re-recorded 778/280
		CNX Gas Company LLC	Noble Energy, Inc.	Assignment	AB 31/558
		Noble Energy, Inc.	HG Energy, Inc.	Assignment	AB 39/1
		HG Energy, Inc.	CNX Gas Company LLC	Joint Operating Agreement	Copy Included
		Dry Ridge Resources, LLC	TH Exploration	18%	869/210
		TH Exploration	CNX Gas Company LLC	Assignment	37/9
		Martha Kay Hill and Charles D. Hill	TH Exploration	18%	865/394
TH Exploration	CNX Gas Company LLC	Assignment	37/9		
8,10,11,12,13 (Fee Tracts)	206318000	Margaret Moran	Consol Pennsylvania Coal Company	100% Consol (DEED)	668/330
		Consol Pennsylvania Coal Company	CNX Gas Company LLC	Deed	804/189

Page 3 of 3

WV Department of
Environmental Protection

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Office of Oil and Gas

51-01938

MEMORANDUM OF OPERATING AGREEMENT – MAJ6HSU

STATE AND COUNTY: West Virginia, County of Marshall

OPERATOR: CNX Gas Company LLC
1000 Consol Energy Drive
Canonsburg, PA 15317

NON-OPERATOR: HG Energy II Appalachia, LLC
5260 Dupont Road
Parkersburg, WV 26101

EFFECTIVE DATE: December 1, 2017

Operator and Non-Operator(s) named above (individually, a "Party", and collectively, the "Parties"), have entered into that certain Joint Operating Agreement (the "Agreement") dated as of the Effective Date stated above, covering the lands, leases, interests, and depth(s) (the "Contract Area"), all identified in Exhibit "A, A-1 and A-2" to this Memorandum.

Operator and Non-Operator represent that the officers executing this Memorandum and such Agreement have the requisite corporate authority to act by and on behalf of the Parties, and further that each own or represent the Working Interest (the "Interest") in the Contract area set opposite their respective names:

<u>NAME OF PARTY</u>	<u>WORKING INTEREST (8/8THS)</u>
CNX Gas Company LLC	88.4602%
HG Energy II Appalachia, LLC	<u>11.5398%</u>
	100 %

Article VII.B. of the Agreement entitled "Liens and Payment Defaults", provides for the creation and attachment of a lien for default in payment of sums due under the terms of the Agreement. The Parties desire the right to file and perfect such a lien, and, in order to enable each Party to do so, the terms of the Agreement are incorporated into this Memorandum for all purposes. A complete copy of the Agreement is maintained at the Offices of the Operator and each Non-Operator.

This Memorandum is placed of record for the purpose of placing all persons on notice of the existence of the Agreement. The Agreement shall be deemed to be binding on Operator and Non-Operator and their respective successors and assigns, and in full force and effect until modified, or the Leases on the Contract Area expire. All modifications may be evidenced by an amendment to this Memorandum being placed of record.


This Memorandum is signed by Operator and Non-Operator as of the date of the acknowledgement of each party's signatures below, but is deemed effective for all purposes as of the Effective Date set out above.

(Signature pages to follow, remainder of this page left intentionally blank)

OPERATOR:
CNX Gas Company LLC

NON-OPERATOR(S)
HG ENERGY II APPALACHIA, LLC

By: _____
Printed Name: Alexander J. Reyes
Title: Vice President

By:  _____
Printed Name: Jared Hall
Title: President

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Exhibit "A"

Attached to and made a part of that certain Operating Agreement dated December 1, 2017, between CNX Gas Company LLC, as Operator and HG Energy II Appalachia, LLC, as Non-Operator

1. Description of Lands Subject to this Agreement:

Those certain oil and gas leases and/or oil and gas interests located within the Contract Area (MAJ 6 Utica Shale Unit) that is shown on the unit plat attached hereto as Exhibit "A-1".

2. Restrictions, if any as to Depths, Formations, and Substances:

INSOFAR AND ONLY INSOFAR as the Leases cover from the base of the Queenston shale (as seen by the September 5, 2006 Schlumberger GR/LDT/CNL Platform Express electric log from Fortuna Energy, Inc's Starvaggi #1 well (API 037-125-22278) located in Hanover Township, Washington County, Pennsylvania, at a depth of 10,530 ft KB) to the top of the Trenton limestone (as seen by the same well, at a depth of 10,856 ft KB).

3. Parties to Agreement

HG Energy II Appalachia, LLC
5260 Dupont Road
Parkersburg, West Virginia 26101

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CNX Gas Company, LLC
1000 CONSOL Energy Drive
Canonsburg, PA 15317

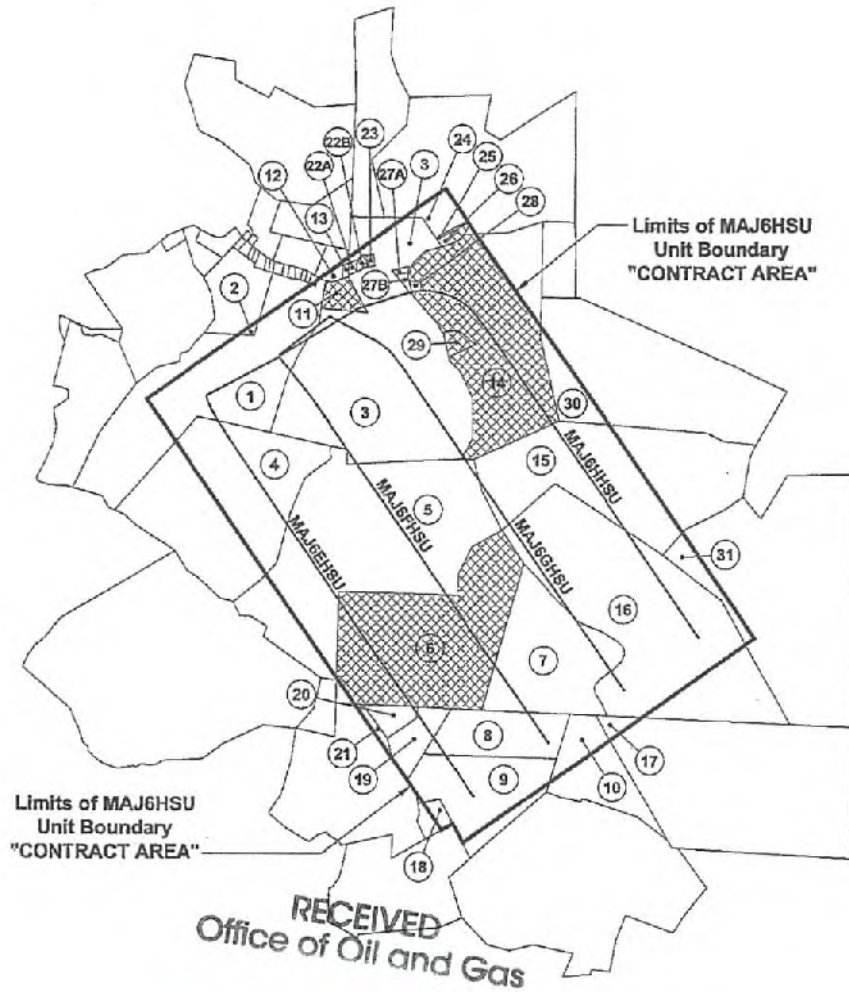
4. Percentages or Fractional Interests of Parties to this Agreement:

<u>Parties</u>	<u>Working Interest Initial Well - MAJ6 Unit</u>
HG Energy II Appalachia, LLC	11.5398%
CNX Gas Company, LLC	88.4602%
	<hr/> 100.0000%

5. Oil and Gas Leases and/or Oil and Gas Interests Subject to this Agreement:

The oil and gas leases or oil and gas interests, or portions thereof, listed on Exhibit "A-2" attached hereto.

Exhibit A-1



Limits of MAJ6HSU Unit Boundary "CONTRACT AREA"

Limits of MAJ6HSU Unit Boundary "CONTRACT AREA"


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MAJ6HSU Unit Boundary;
"CONTRACT AREA" = 918.818 Acres

 Tracts with HG Interest

51-01938

Exhibit "A-2"

Attached to and made a part of that certain Operating Agreement dated December 1, 2017,
between CNX Gas Company LLC, as Operator, and HG Energy II Appalachia, LLC, as Non-operator

Tract ID	Tax Map Parcel Number	Lessor	Lessee	Lease Date	Recording	Lease Burden	Unit Acres
1	p/o 15-5-13	Eimer & Ota Hartley	Manufacturers Light and Heat Company	2/24/1960	342/63	100%	55.962
2	p/o 15-5-14	Hazel Sammons	Manufacturers Light and Heat Company	12/7/1959	326/511	0%	0.565
3	p/o 15-5-37 15-5-40	Thomas J. Elder and Ruth L. Elder	Columbia Gas Transmission Corporation	3/19/1986	515/473	0%	133.216
4	p/o 15-5-12	Ellsworth H. Harsh and Bessie E. Harsh et al.	Columbia Gas Transmission Corporation	3/7/1973	434/158	0%	54.206
5	p/o 15-5-41 15-5-41.1	Martha Kaye Hill and Charles D. Hill	TH Exploration, LLC	11/6/2014	865/394	0%	127.095
		Dry Ridge Resources, LLC	TH Exploration, LLC	12/2/2014	869/210	0%	
6	p/o 15-11-10	Martha Kaye Hill and Charles D. Hill	TH Exploration, LLC	11/6/2014	865/394	0%	97.193
		Dry Ridge Resources, LLC	TH Exploration, LLC	12/2/2014	869/210	0%	
		Sandra C. Kountz	CNX Gas Company LLC	12/4/201	776/28	0%	
7	p/o 15-11-21	August W. Chambers et al	Columbia Gas Transmission Corporation	3/6/1986	520/225	0%	56.484
		Chestnut Holdings	Fossil Creek (Ohio) LLC	11/18/2014	848/218	0%	
8	15-11-11	CNX Gas Company LLC				0%	26.151
9	p/o 15-11-12	CNX Gas Company LLC				0%	35.169
10	p/o 15-11-20	Michael S. Riggle	CNX Gas Company	11/16/2016	907/534	0%	8.862
11	15-5-39	H.B. Chambers et al.	Manufacturers Light and Heat Company	4/28/1958	326/92	0%	4.952
12	p/o 15-5-34.1	Cecil Hartley and Edith Hartley	Manufacturers Light and Heat Company	12/17/1949	239/435	0%	1.222
13	15-5-35	Robert R. Riggle and Donna S. Riggle	CNX Gas Company LLC	12/2/2017	not yet recorded	0%	0.388
14	p/o 15-5-43	Brian K. Milliken and Mary Lynn Milliken et al	Noble Energy, Inc.	7/23/2013	806/307	0%	80.572
15	p/o 15-5-42	J. T. Crow and Elizabeth V. Crow	L. B. Beatty	7/10/1900	74/386	0%	62.841
16	p/o 15-11-21	August W. Chambers et al.	Columbia Gas Transmission Corporation	3/6/1986	520/225	0%	119.735
		Chestnut Holdings	Fossil Creek (Ohio) LLC	11/18/2014	848/218	0%	
17	p/o 15-11-19	Michael S. Riggle	CNX Gas Company LLC	11/30/2017	not yet recorded	0%	2.618
18	p/o 15-11-12	CNX Gas Company LLC				0%	2.022
19	p/o 15-11-12	CNX Gas Company LLC				0%	9.826
20	p/o 15-11-12	CNX Gas Company LLC				0%	4.842

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21	p/o 15-11-9	David L. Kinney and Raymond P. Kinney	CNX Gas Company LLC	9/9/2009	800/449	%	1.806
22A	p/o 15-5-36	Mt. Hope Cemetery Association	CNX Gas Company LLC	5/12/2011	744/146	%	0.449
22B	p/o 15-5-36	Virginia M. Blake Parsons and Laurence F. Parsons	Noble Energy, Inc.	9/3/2013	805/550	%	0.607
23	15-5-37.1	Mt. Hope Cemetery Assoc.	CNX Gas Company LLC	12/9/2011	764/236	%	0.355
24	p/o 15-4-14	Ellsworth H. Scherich and Thelma L. Scherich	CNX Gas Company LLC	8/11/2009	768/447	%	6.687
		Jackie L. Frye	CNX Gas Company LLC	11/24/2009	768/443	%	
		Richard C. Barto and Mary Lee Barto	CNX Gas Company LLC	11/11/2009	700/268	%	
		Scott Douglas Reed	CNX Gas Company LLC	11/4/2009	701/409	%	
		Robert B. Elliott	CNX Gas Company LLC	1/6/2010	707/260	0%	
		Tierra Oil Company, LLC	CNX Gas Company LLC	11/3/2017	950/292	0%	
25	15-4-14.2	Jackie L. Frye	CNX Gas Company LLC	11/24/2009	768/443	0%	0.298
		Richard C. Barto and Mary Lee Barto	CNX Gas Company LLC	11/11/2009	700/268	0%	
		Scott Douglas Reed	CNX Gas Company LLC	11/4/2009	701/409	0%	
		Robert B. Elliott	CNX Gas Company LLC	1/6/2010	707/260	0%	
		Elizabeth Ann Cain; Jack A. Cain and Nancy C. Cain	Noble Energy, Inc.	3/13/2013	794/355	0%	
		Tierra Oil Company, LLC	CNX Gas Company LLC	11/3/2017	950/287	0%	
26	15-4-14.1	Jackie L. Frye	CNX Gas Company LLC	11/24/2009	768/443	0%	1.421
		Richard C. Barto and Mary Lee Barto	CNX Gas Company LLC	11/11/2009	700/268	0%	
		Scott Douglas Reed	CNX Gas Company LLC	11/4/2009	701/409	0%	
		Robert B. Elliott	CNX Gas Company LLC	1/6/2010	707/260	0%	
		Elizabeth Ann Cain; Jack A. Cain and Nancy C. Cain	Noble Energy, Inc.	3/13/2013	794/355	0%	
		Tierra Oil Company, LLC	CNX Gas Company LLC	11/3/2017	950/287	0%	
27A	p/o 15-5-38	Thomas J. Elder and Ruth Elder	Columbia Gas Transmission Corporation	3/17/1986	515/473	0%	0.385
27B	p/o 15-5-38	Board of Education of Marshall County, WV	CNX Gas Company LLC	12/4/2017	not yet recorded	0%	0.630
28	15-5-43	Board of Education of Marshall County, WV	CNX Gas Company LLC	12/4/2017	not yet recorded	%	0.460
29	15-5-43.1	Brian K. Milliken and Mary Lynn Milliken	Noble Energy, Inc.	7/23/2013	803/325	%	2.323
30	p/o 15-5-44	J. L. Crew and Elizabeth V. Crew	L. B. Beatty	7/10/1900	74/386	royalty	11.307
31	p/o 15-5-48	Dorcas Doman, Francis E. Doman and June Doman	Columbia Gas Transmission Corporation	3/6/1986	515/485	%	8.169
							918.818

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**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION**

Date of Notice Certification: 5/11/17

API No. 47- 051-01938
Operator's Well No. MAJ6HSUT
Well Pad Name: MAJ6HSUT

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>538574.78</u>
County:	<u>Marshall</u>		Northing:	<u>4420604.10</u>
District:	<u>Webster</u>	Public Road Access:	<u>Lone Oak Road</u>	
Quadrangle:	<u>Majorsville</u>	Generally used farm name:	<u>Majorsville</u>	
Watershed:	<u>Wheeling Creek</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 150px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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MAY 13 2017

Required Attachments:

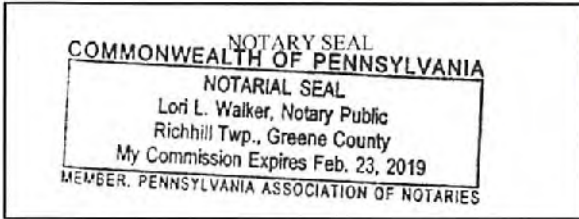
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

THEREFORE, I Erika Whetstone, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: CNX Gas Company, LLC.
By: Pete Nickel *Erika Whetstone*
Its: Operations Manager
Telephone: 724-485-4035

Address: 1000 Consol Energy Drive
Canonsburg, PA 15370
Facsimile: _____
Email: ErikaWhetstone@ConsolEnergy.com



Subscribed and sworn before me this 11th day of May 2017.
Lori L. Walker Notary Public
My Commission Expires February 23, 2019

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 1/12/17 Date Permit Application Filed: 5/11/17

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: GNX Land, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: Consol Mining Company, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: See attached list
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See attached list
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: Columbia Gas Transmission LLC
Address: 1700 MacCorkle Avenue SE, Post Office Box 1273
Charleston, WV 25325-1273

*Please attach additional forms if necessary

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Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Received
Office of Oil & Gas

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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Environmental Protection

WW-6A
(8-13)

API NO. 47- 051 01938
OPERATOR WELL NO. MAJ6HSUT
Well Pad Name: MAJ6HSUT

Notice is hereby given by:

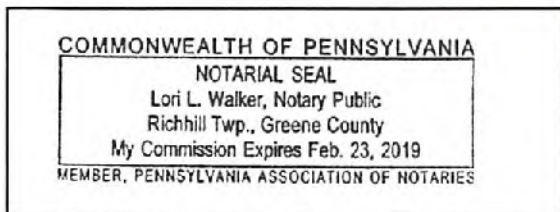
Well Operator: CNX Gas Company, LLC
Telephone: 724-485-4035
Email: ErikaWhetstone@ConsolEnergy.com

Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Erika Whetstone



Subscribed and sworn before me this 12th day of January ~~2016~~ 2017.

Lori L Walker Notary Public

My Commission Expires February 23, 2019



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Environmental Protection

01/05/2018

MAJ6EHSUT

WW6A Attachment

COAL OWNER OR LESSEE:

HCC Investments, Inc. ✓
 824 N. Market St STE 900
 Wilmington, DE 19801

Conrhein Coal Company ✓
 1000 Consol Energy Drive
 Canonsburg, PA 15317

Consol Pennsylvania Coal Company LLC ✓
 1000 Consol Energy Drive
 Canonsburg, PA 15317

CNX Thermal Holdings LLC ✓
 1000 Consol Energy Drive
 Canonsburg, PA 15317

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(S):

Consolidation Coal Company ✓
 46226 National Rd.
 Saint Clairsville, OH 43950

Robert R. Riggle, Et Ux. ✓
 1702 Dry Ridge Rd.
 Cameron, WV 26033

William E. Toland, Et Ux. ✓
 1747 Dry Ridge Rd.
 Cameron, WV26033

Donald Wesley Carn – Est. ✓
 1725 Dry Ridge Rd.
 Cameron, WV 26033

Nicole R. Riggle ✓
 1831 Dry Ridge Rd.
 Cameron, WV 26033

CNX Land LLC. ✓
 1000 Consol Energy Dr.
 Canonsburg, PA 15317

Mt. Hope Cemetery Assoc. ✓
 RR. 4 Box 87
 Cameron, WV 26033

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01/05/2018

James Kevin Sampson
212 Lone Oak Rd.
Cameron, WV 26033

✓

Colleen A. Riggle
1531 Dry Ridge Rd.
Cameron, WV 26033

✓

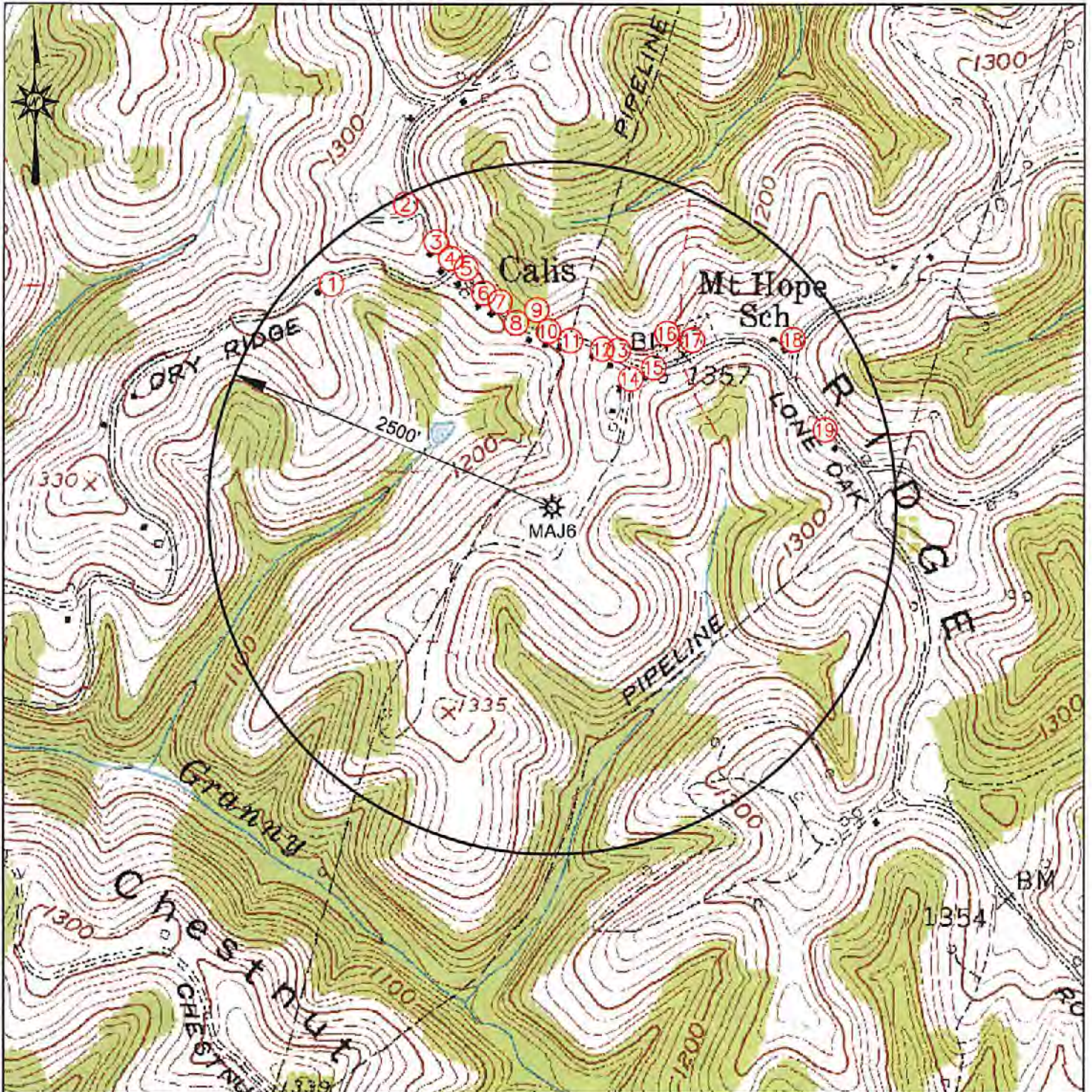
Board of Education
2700 4th St.
Moundsville, WV 26041

✓

Albert J. Paczewski, Jr., Et Ux.
Rd 4 Box 249D
Cameron, WV 26033

✓

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Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

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 Office of Oil & Gas

PREPARED FOR:
 CNX GAS COMPANY LLC
 1000 CONSOL ENERGY DRIVE
 CANONSBURG, PA 15317

LEGEND
 ① - POSSIBLE WATER PURVEYOR

MAJ6
 WATER PURVEYOR MAP
 MARSHALL COUNTY
 WEBSTER DISTRICT
 WEST VIRGINIA

TOPO QUAD: MAJORSVILLE, WV
 SCALE: 1" = 1000'
 DATE: NOVEMBER 16, 2016

MAY 1 2018

51-01938

WATER PURVEYOR 1 <u>UTM 17-NAD83</u> N:4421090.65 E:538077.89 <u>NAD27, WV NORTH</u> N:525858.984 E:1704313.967	WATER PURVEYOR 2 <u>UTM 17-NAD83</u> N:4421273.47 E:538239.42 <u>NAD27, WV NORTH</u> N:526450.045 E:1704854.031	WATER PURVEYOR 3 <u>UTM 17-NAD83</u> N:4421187.03 E:538307.96 <u>NAD27, WV NORTH</u> N:526162.640 E:1705074.190	WATER PURVEYOR 4 <u>UTM 17-NAD83</u> N:4421150.55 E:538341.31 <u>NAD27, WV NORTH</u> N:526041.094 E:1705181.622	WATER PURVEYOR 5 <u>UTM 17-NAD83</u> N:4421125.83 E:538374.53 <u>NAD27, WV NORTH</u> N:525958.131 E:1705289.285
WATER PURVEYOR 6 <u>UTM 17-NAD83</u> N:4421076.80 E:538415.53 <u>NAD27, WV NORTH</u> N:525794.995 E:1705421.134	WATER PURVEYOR 7 <u>UTM 17-NAD83</u> N:4421058.53 E:538452.03 <u>NAD27, WV NORTH</u> N:525733.028 E:1705539.888	WATER PURVEYOR 8 <u>UTM 17-NAD83</u> N:4421012.65 E:538488.99 <u>NAD27, WV NORTH</u> N:525580.437 E:1705658.642	WATER PURVEYOR 9 <u>UTM 17-NAD83</u> N:4421041.45 E:538533.66 <u>NAD27, WV NORTH</u> N:525672.502 E:1705806.822	WATER PURVEYOR 10 <u>UTM 17-NAD83</u> N:4420995.39 E:538560.20 <u>NAD27, WV NORTH</u> N:525519.912 E:1705891.376
WATER PURVEYOR 11 <u>UTM 17-NAD83</u> N:4420975.10 E:538609.66 <u>NAD27, WV NORTH</u> N:525450.587 E:1706052.574	WATER PURVEYOR 12 <u>UTM 17-NAD83</u> N:4420957.88 E:538680.65 <u>NAD27, WV NORTH</u> N:525390.197 E:1706284.559	WATER PURVEYOR 13 <u>UTM 17-NAD83</u> N:4420956.83 E:538716.51 <u>NAD27, WV NORTH</u> N:525384.759 E:1706402.167	WATER PURVEYOR 14 <u>UTM 17-NAD83</u> N:4420893.96 E:538744.31 <u>NAD27, WV NORTH</u> N:525176.941 E:1706489.956	WATER PURVEYOR 15 <u>UTM 17-NAD83</u> N:4420920.01 E:538795.32 <u>NAD27, WV NORTH</u> N:525259.629 E:1706658.774
WATER PURVEYOR 16 <u>UTM 17-NAD83</u> N:4420995.15 E:538822.90 <u>NAD27, WV NORTH</u> N:525504.659 E:1706753.378	WATER PURVEYOR 17 <u>UTM 17-NAD83</u> N:4420981.20 E:538879.62 <u>NAD27, WV NORTH</u> N:525455.780 E:1706938.740	WATER PURVEYOR 18 <u>UTM 17-NAD83</u> N:4420986.28 E:539102.70 <u>NAD27, WV NORTH</u> N:525460.191 E:1707671.026	WATER PURVEYOR 19 <u>UTM 17-NAD83</u> N:4420789.07 E:539177.31 <u>NAD27, WV NORTH</u> N:524808.950 E:1707905.048	

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PREPARED FOR:
 CNX GAS COMPANY LLC
 1000 CONSOL ENERGY DRIVE
 CANONSBURG, PA 15317

MAJ6
 WATER PURVEYOR MAP
 MARSHALL COUNTY
 WEBSTER DISTRICT
 WEST VIRGINIA

LEGEND
 ① - POSSIBLE WATER PURVEYOR

TOPO QUAD: MAJORSVILLE, WV
 SCALE: 1" = 1000'
 DATE: NOVEMBER 16, 2016

51-01938



11023 Mason Dixon Hwy | Burton, WV 26562
Ph: (304) 662-6486 | Fax: (304) 662-6501

November 16, 2016

CNX GAS COMPANY LLC
1000 CONSOL ENERGY DRIVE
CANONSBURG, PA 15317

WATER WELL REPORT

PROJECT: MAJ6
DISTRICT: Webster
COUNTY: Marshall
STATE: West Virginia

The following surface owners may have water supplies within 2,000 feet of the above location:

<u>NAME</u>	<u>ADDRESS</u>	<u>CITY, STATE, ZIP</u>
4) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
5) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
6) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
7) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
8) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
9) Robert R. Riggle, Et Ux.	1702 Dry Ridge Rd.	Cameron, WV 26033
10) Donald W. Carn - Est.	1725 Dry Ridge Rd.	Cameron, WV 26033
11) William E. Toland, Et Ux.	1747 Dry Ridge Rd.	Cameron, WV 26033
12) Donald Wesley Carn - Est.	1725 Dry Ridge Rd.	Cameron, WV 26033
13) Nicole R. Riggle	1831 Dry Ridge Rd.	Cameron, WV 26033
14) CNX Land LLC.	1000 Consol Energy Dr.	Canonsburg, PA 15317
15) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
16) Robert R. Riggle, Et Ux.	1702 Dry Ridge Rd.	Cameron, WV 26033
17) Mt. Hope Cemetery Assoc.	RR. 4 Box 87	Cameron, WV 26033

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11023 Mason Dixon Hwy | Burton, WV 26562
Ph: (304) 662-6486 | Fax: (304) 662-6501

The following surface owners may have water supplies within 2,500 feet of the above location:

<u>NAME</u>	<u>ADDRESS</u>	<u>CITY, STATE, ZIP</u>
1) James Kevin Sampson	212 Lone Oak Rd.	Cameron, WV 26033
2) CNX LAND LLC.	1000 Consol Energy Dr.	Canonsburg, PA 15317
3) Colleen A. Riggle	1531 Dry Ridge Rd.	Cameron, WV 26033
18) Board of Education	2700 4 th St.	Moundsville, WV 26041
19) Albert J. Paczewski ,Jr., Et Ux.	Rd 4 Box 249D	Cameron, WV 26033

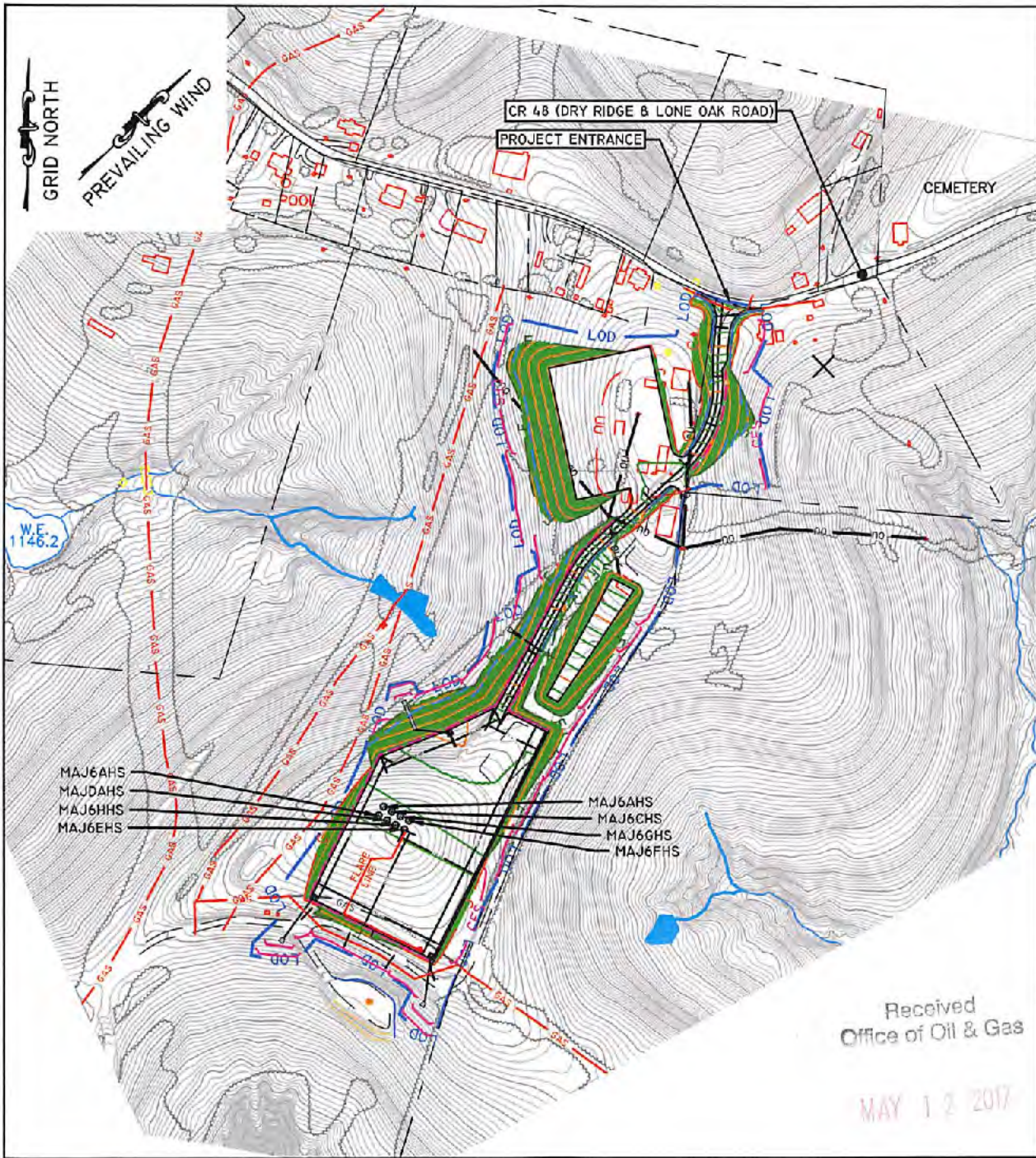
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01/05/2018

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MAJ6AHS
 MAJ6DAHS
 MAJ6HHS
 MAJ6EHS

MAJ6AHS
 MAJ6CHS
 MAJ6GHS
 MAJ6FHS

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11023 Mason Dixon Hwy.
 Burton, WV 26562-9656
 (304) 662-6486

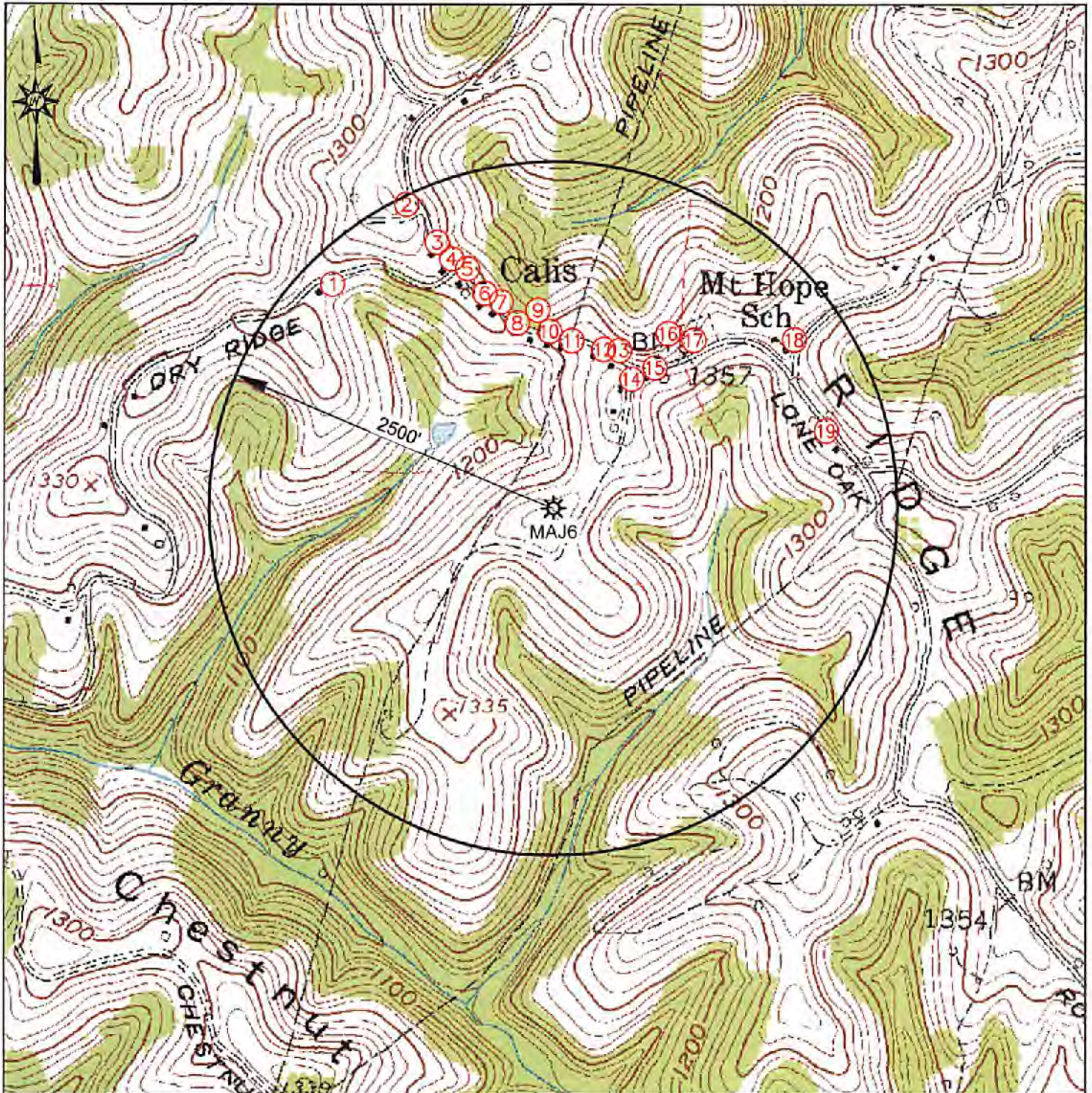
MAJ-6 PLAN VIEW MAP
MAJ-6 WELL SITE

NEW MILTON DISTRICT
 DODDRIDGE COUNTY, WV

CNX GAS COMPANY LLC
 ONE ENERGY DRIVE
 JANE LEW, WV 26378

DRAWN BY: NSH
CHECKED BY: JND
DATE: 01/10/2017
SCALE: 1"=300'
JOB No.
DWG NAME
MAJ-6 PLAN VIEW MAP.DWG

01/05/2018



Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

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PREPARED FOR:
 CNX GAS COMPANY LLC
 1000 CONSOL ENERGY DRIVE
 CANONSBURG, PA 15317

LEGEND
 ① - POSSIBLE WATER PURVEYOR

MAJ6
 WATER PURVEYOR MAP
 MARSHALL COUNTY
 WEBSTER DISTRICT
 WEST VIRGINIA

TOPO QUAD: MAJORSVILLE, WV
 SCALE: 1" = 1000'

DATE: NOVEMBER 16, 2016

51-01938

WATER PURVEYOR 1 UTM 17-NAD83 N:4421090.65 E:538077.89 NAD27, WV NORTH N:525858.984 E:1704313.967	WATER PURVEYOR 2 UTM 17-NAD83 N:4421273.47 E:538239.42 NAD27, WV NORTH N:526450.045 E:1704854.031	WATER PURVEYOR 3 UTM 17-NAD83 N:4421187.03 E:538307.96 NAD27, WV NORTH N:526162.640 E:1705074.190	WATER PURVEYOR 4 UTM 17-NAD83 N:4421150.55 E:538341.31 NAD27, WV NORTH N:526041.094 E:1705181.622	WATER PURVEYOR 5 UTM 17-NAD83 N:4421125.83 E:538374.53 NAD27, WV NORTH N:525958.131 E:1705289.285
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CNX GAS COMPANY LLC
1000 CONSOL ENERGY DRIVE
CANONSBURG, PA 15317

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WATER PURVEYOR MAP
MARSHALL COUNTY
WEBSTER DISTRICT
WEST VIRGINIA

LEGEND
① - POSSIBLE WATER PURVEYOR

TOPO QUAD: MAJORSVILLE, WV
SCALE: 1" = 1000'
DATE: NOVEMBER 16, 2016



November 16, 2016

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1000 CONSOL ENERGY DRIVE
CANONSBURG, PA 15317

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WATER WELL REPORT

PROJECT: MAJ6
DISTRICT: Webster
COUNTY: Marshall
STATE: West Virginia

The following surface owners may have water supplies within 2,000 feet of the above location:

<u>NAME</u>	<u>ADDRESS</u>	<u>CITY, STATE, ZIP</u>
4) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
5) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
6) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
7) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
8) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
9) Robert R. Riggle, Et Ux.	1702 Dry Ridge Rd.	Cameron, WV 26033
10) Donald W. Carn - Est.	1725 Dry Ridge Rd.	Cameron, WV 26033
11) William E. Toland, Et Ux.	1747 Dry Ridge Rd.	Cameron, WV26033
12) Donald Wesley Carn - Est.	1725 Dry Ridge Rd.	Cameron, WV 26033
13) Nicole R. Riggle	1831 Dry Ridge Rd.	Cameron, WV 26033
14) CNX Land LLC.	1000 Consol Energy Dr.	Canonsburg, PA 15317
15) Consolidation Coal Company	46226 National Rd.	Saint Clairsville, OH 43950
16) Robert R. Riggle, Et Ux.	1702 Dry Ridge Rd.	Cameron, WV 26033
17) Mt. Hope Cemetery Assoc.	RR. 4 Box 87	Cameron, WV 26033



Blue Mountain Inc.

11023 Mason Dixon Hwy | Burton, WV 26562

Ph: (304) 662-6486 | Fax: (304) 662-6501

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<u>NAME</u>	<u>ADDRESS</u>	<u>CITY, STATE, ZIP</u>
1) James Kevin Sampson	212 Lone Oak Rd.	Cameron, WV 26033
2) CNX LAND LLC.	1000 Consol Energy Dr.	Canonsburg, PA 15317
3) Colleen A. Riggle	1531 Dry Ridge Rd.	Cameron, WV 26033
18) Board of Education	2700 4 th St.	Moundsville, WV 26041
19) Albert J. Paczewski ,Jr., Et Ux.	Rd 4 Box 249D	Cameron, WV 26033

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**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY**

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: 10/25/16 **Date of Planned Entry:** 11/3/16

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s) ✓
 Name: CNX Land, LLC
 Address: 1000 Consol Energy Drive
 Canonsburg, PA 15317
 Name: Consol Mining Company, LLC ✓
 Address: 1000 Consol Energy Drive
 Canonsburg, PA 15317
 Name: Albert Paczewski ✓
 Address: Rr 4 Box 249D
 Cameron, WV 26033

COAL OWNER OR LESSEE
 Name: See attached.
 Address: _____
 RECEIVED
 Office of Oil and Gas

MINERAL OWNER(s) ✓
 Name: CNX Gas Company LLC ✓
 Address: 1000 Consol Energy Drive
 Canonsburg, PA 15317
 WV Department of Environmental Protection
 *please attach additional forms if necessary

MAY 12 2017

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia	Approx. Latitude & Longitude: 39 56' 04.66", -80 32' 54.61"
County: Marshall	Public Road Access: Lone Oak Road
District: Webster	Watershed: Upper Ohio South
Quadrangle: Majorsville	Generally used farm name: Majorsville

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: CNX Gas Company, LLC	Address: 1000 Consol Energy Drive
Telephone: 724 485-4035	Canonsburg, PA 15317
Email: ErikaWhetstone@ConsolEnergy.com	Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

MAJ6EHSUT

WW6A3 Attachment

COAL OWNER OR LESSEE:

HCC Investments, Inc. ✓
824 N. Market St STE 900
Wilmington, DE 19801

Conrhein Coal Company ✓
1000 Consol Energy Drive
Canonsburg, PA 15317

Consol Pennsylvania Coal Company LLC ✓
1000 Consol Energy Drive
Canonsburg, PA 15317

CNX Thermal Holdings LLC ✓
1000 Consol Energy Drive
Canonsburg, PA 15317

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MAY 12 2017

WV Department of
Environmental Protection

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION**

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 5/11/17 **Date Permit Application Filed:** 5/11/17

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: CNX Land, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: Consol Mining Company, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>538574.78</u>
County: <u>Marshall</u>		Northing: <u>4420604.10</u>
District: <u>Webster</u>	Public Road Access: <u>Lone Oak Road</u>	
Quadrangle: <u>Majorsville</u>	Generally used farm name: <u>Majorsville</u>	
Watershed: <u>Wheeling Creek</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: CNX Gas Company, LLC
Telephone: 724-485-4035
Email: ErikaWhelstone@ConsolEnergy.com

Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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MAY 12 2017
01/05/2018
WV Department of
Environmental Protection

51-01938



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

January 6, 2017

RECEIVED
Office of Oil and Gas

MAY 12 2017

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

WV Department of
Environmental Protection

Subject: DOH Permit for the MAJ-6 Well Pad, Marshall County
MAJ6EHSUT Well Site ✓ MAJ6FHSUT Well Site ✓

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2016-0420 for the subject site to CNX Gas Company LLC for access to the State Road for the well site located off of Marshall County Route 48 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton
Regional Maintenance Engineer
Central Office Oil & Gas Coordinator

Cc: Shannon Miller
CNX Energy LLC.
CH, OM, D-6
File

01/05/2018

Section VI – Proposed Additives to be used in Fracturing or Stimulations

Type: Water CAS: 7732-18-5

Type: Silica CAS: 14808-60-7

Type: Hydrochloric Acid CAS: 7647-01-0

Type: Copolymer of Two Propenamide CAS: 69418-26-4

Type: Petroleum distillate CAS: 64742-47-8

Type: Glutaraldehyde CAS: 111-30-8

Type: Ethylene glycol CAS: 107-21-1

Type: Diethylene glycol mono n-butyl ether CAS: 112-34-5

Type: Oleic acid diethanolamide CAS: 93-83-4

Type: Alcohols, C12-16, ethoxylated CAS: 68551-12-2

Type: Quaternary ammonium compound CAS: 68424-85-1

Type: Ammonium chloride CAS: 12125-02-9

Type: Short chained glycol ether CAS: 112-34-5

Type: Ethoxylated (C10-16) alcohols CAS: 68002-97-1

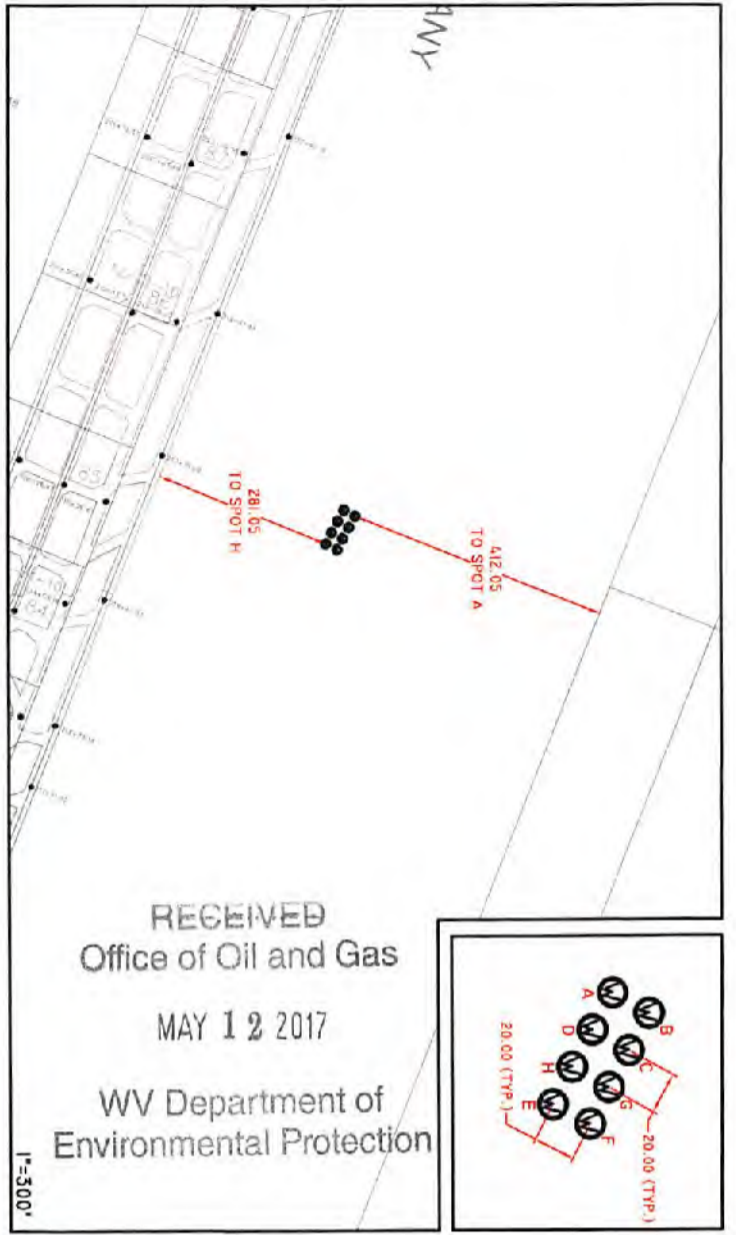
Type: Metanol CAS: 67-56-1

Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

Type: Acetophenone CAS: 98-86-2

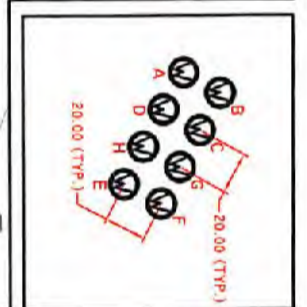
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Environmental Protection



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Office of Oil and Gas

MAY 12 2017

WV Department of
Environmental Protection



WELL SPOT A	WELL SPOT B	WELL SPOT C	WELL SPOT D
COUNTY: MARSHALL	COUNTY: MARSHALL	COUNTY: MARSHALL	COUNTY: MARSHALL
DISTRICT: WEBSTER	DISTRICT: WEBSTER	DISTRICT: WEBSTER	DISTRICT: WEBSTER
NAD 83 - WV NORTH N:524301.024 E:1:674430.253 LAT:39°56'05.099" LON:80°32'55.381"	NAD 83 - WV NORTH N:524318.503 E:1:674439.975 LAT:39°56'05.273" LON:80°32'55.239"	NAD 83 - WV NORTH N:524308.781 E:1:674457.453 LAT:39°56'05.179" LON:80°32'55.013"	NAD 83 - WV NORTH N:524291.303 E:1:674447.731 LAT:39°56'05.005" LON:80°32'55.135"
NAD 27 - WV NORTH N:524263.811 E:1:705885.059 LAT:39°56'04.823" LON:80°32'56.095"	NAD 27 - WV NORTH N:524281.290 E:1:705874.780 LAT:39°56'04.997" LON:80°32'55.972"	NAD 27 - WV NORTH N:524271.567 E:1:705892.258 LAT:39°56'04.903" LON:80°32'55.747"	NAD 27 - WV NORTH N:524254.088 E:1:705882.537 LAT:39°56'04.729" LON:80°32'55.869"
OHIO COUNTY MINE N:54934.700 E:1:24308.601	OHIO COUNTY MINE N:54951.727 E:1:24320.093	OHIO COUNTY MINE N:54941.234 E:1:24337.119	OHIO COUNTY MINE N:54924.208 E:1:24326.628
UTM NAD83 ZONE 17 M. N:4420612.588 E:538598.577	UTM NAD83 ZONE 17 M. N:4420617.982 E:538561.450	UTM NAD83 ZONE 17 M. N:4420615.090 E:538586.824	UTM NAD83 ZONE 17 M. N:4420609.715 E:538553.951

WELL SPOT E	WELL SPOT F	WELL SPOT G	WELL SPOT H
COUNTY: MARSHALL	COUNTY: MARSHALL	COUNTY: MARSHALL	COUNTY: MARSHALL
DISTRICT: WEBSTER	DISTRICT: WEBSTER	DISTRICT: WEBSTER	DISTRICT: WEBSTER
NAD 83 - WV NORTH N:524272.274 E:1:674482.941 LAT:39°56'04.821" LON:80°32'54.680"	NAD 83 - WV NORTH N:524290.027 E:1:674482.151 LAT:39°56'04.997" LON:80°32'54.585"	NAD 83 - WV NORTH N:524298.059 E:1:674474.931 LAT:39°56'05.085" LON:80°32'54.787"	NAD 83 - WV NORTH N:524281.581 E:1:674465.209 LAT:39°56'04.911" LON:80°32'54.909"
NAD 27 - WV NORTH N:524235.059 E:1:705917.746 LAT:39°56'04.545" LON:80°32'55.414"	NAD 27 - WV NORTH N:524252.813 E:1:705928.955 LAT:39°56'04.722" LON:80°32'55.298"	NAD 27 - WV NORTH N:524261.845 E:1:705909.015 LAT:39°56'04.809" LON:80°32'55.521"	NAD 27 - WV NORTH N:524244.366 E:1:705900.015 LAT:39°56'04.635" LON:80°32'55.643"
OHIO COUNTY MINE N:54993.625 E:1:24360.952	OHIO COUNTY MINE N:54920.950 E:1:24370.945	OHIO COUNTY MINE N:54950.741 E:1:24354.145	OHIO COUNTY MINE N:54913.714 E:1:24343.654
UTM NAD83 ZONE 17 M. N:4420604.087 E:538574.775	UTM NAD83 ZONE 17 M. N:4420609.553 E:53857.491	UTM NAD83 ZONE 17 M. N:4420612.217 E:538572.198	UTM NAD83 ZONE 17 M. N:4420605.842 E:538569.326



GENERAL NOTES:
ALL DIMENSIONS RELATED TO COAL LOCATION (EXISTING AND/OR PROPOSED) ARE BASED ON INFO PROVIDED BY CONSOLIDATION COAL COMPANY. THIS INFORMATION IS NOT BE CURRENT WITH MINING PLANS. ANY QUESTIONS OR CONCERNS PERTAINING TO THE LOCATION OF COAL SHOULD BE DIRECTED TO CONSOLIDATION COAL COMPANY.

NOTE: DRAWING WAS CREATED ON 8.5X11 INCH PAPER.



CNX GAS COMPANY, LLC
200 EVERGREENE DRIVE
WAYNESBURG, PA 15370

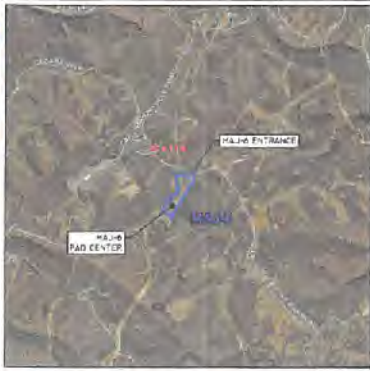


MAJORSVILLE 6
COAL EXHIBIT

11023 M

SHEET NO. 1

28610-15



LOCATION MAP
SCALE: 1"=200'

PROPERTY OWNERS

- 1. CONSOLIDATION COAL COMPANY/MURRAY ENERGY
TM/PAR: 15-5/39
- 2. CNX LAND
TM/PAR: 15-5/13

ENTRANCE PERMIT

CNX GAS COMPANY, LLC, WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

MISS UTILITY

MISS UTILITY OF WEST VIRGINIA WAS NOTIFIED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN (TICKET NO. 15H826722). IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO THE START OF THE PROJECT.

FLOODPLAIN NOTE

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT ARE NOT LOCATED IN A FLOOD ZONE, PER THE FLOOD INSURANCE RATE MAP (FIRM) NUMBERS 54051C0125E.

SITE LOCATION

HEADING EAST ON ROUTE 250 FROM MOUNDSVILLE APPROXIMATELY 14.5 MILES, TAKE A LEFT ONTO 891. HEAD EAST ON ROUTE 891 FOR 1.4 MILES, TO TURN NORTH ON ROUTE 48. HEAD NORTH ON ROUTE 48 FOR APPROXIMATELY 5.4 MILES, AND THE SITE ENTRANCE WILL BE ON THE LEFT.

APPROVED
WVDEP OOG

WVDEP 6/6/2017



CNX GAS COMPANY, LLC
200 HALLAM ROAD
WASHINGTON, PA 15301

MAJ-6 WELL SITE

ENTRANCE LOCATION

NAD 83 - LAT: N 39° 56' 15.53"; LONG: W 80° 32' 46.44"
NAD 27 - LAT: N 39° 56' 15.25"; LONG: W 80° 32' 47.17"
UTM (METERS) - N: 4420935.260; E: 538768.666

CENTER OF WELL PAD LOCATION

NAD 83 - LAT: N 39° 56' 04.90"; LONG: W 80° 32' 54.20"
NAD 27 - LAT: N 39° 56' 04.62"; LONG: W 80° 32' 54.93"
UTM (METERS) - N: 4420606.599; E: 538586.158

CENTER OF TANK PAD LOCATION

NAD 83 - LAT: N 39° 56' 13.22"; LONG: W 80° 32' 49.32"
NAD 27 - LAT: N 39° 56' 12.94"; LONG: W 80° 32' 50.05"
UTM (METERS) - N: 4420863.695; E: 538700.677

**WEBSTER DISTRICT,
MARSHALL COUNTY, WEST VIRGINIA**

DATE: JANUARY 11, 2017



Blue Mountain Inc.
10125 Mason Dixon Hwy.
Burton, WV 26562-9656
Engineers and Land Surveyors
(304) 662-6486



**Know what's below.
Call before you dig.**

ACT 287 INFORMATION

NOTE: DRAWING WAS CREATED ON 22X34 PAPER, 11X17 DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.



LOCATION MAP
HUNTSVILLE 7.5' BY 7.5' QUADRANGLE
SCALE: 1"=200'

ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED ON APRIL 29, 2015 & OCTOBER 31, 2016 BY BLUE MOUNTAIN INC. TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE NOVEMBER 7, 2016 REPORT FOR THE THOMAS WELL SITE, WHICH WAS PREPARED BY BLUE MOUNTAIN INC. SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN CONFIRMATION OF THE DELINEATION DESCRIBED BY THE REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

GEOTECHNICAL NOTES

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED IN THE FIELD BY NGE, LLC ON MAY 28, 2015. THE REPORTS PREPARED BY NGE, LLC DATED NOVEMBER 3, 2016 REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT FOR ADDITIONAL INFORMATION, AS NEEDED.

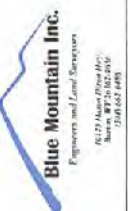
RESTRICTIONS

1. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 500' OF THE PAD & LOD.
2. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000' OF THE PAD AND LOD.
3. THERE ARE NO EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF THE WELLS BEING DRILLED.
4. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625' OF THE CENTER OF THE PAD.
5. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625' OF THE CENTER OF THE PAD.
6. THERE ARE NO PERENNIAL STREAMS, LAKES, PONDS OR RESERVOIRS WITHIN 100' OF THE PROPOSED LIMITS OF DISTURBANCE.

CERTIFICATION

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE EROSION AND SEDIMENT CONTROL PLAN AND SITE RESTORATION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE WEST VIRGINIA CODE AND THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

SIGNATURE:  DATE: 01/11/2017



CNX GAS COMPANY, LLC
200 HALLAM ROAD
WASHINGTON, PA 15301

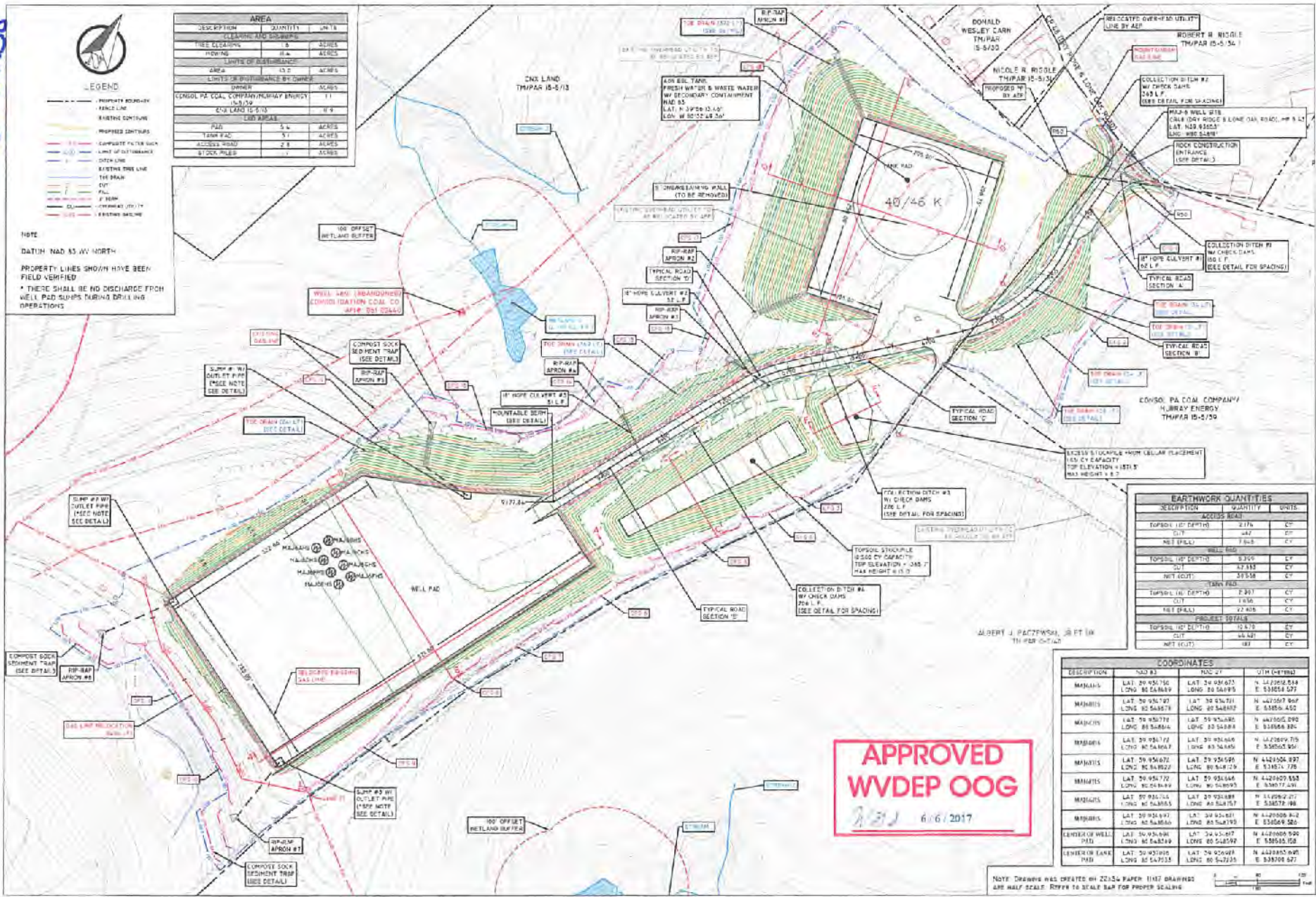


MAJ-6 WELL SITE
COVER SHEET

REVISIONS	
DATE	DESCRIPTION

DRAWN BY: NEM
CHECKED BY: JRM
DATE: 01/11/2017
SCALE: AS SHOWN
JOB NO.
PROJECT NAME: MAJ-6 DESIGN
SHEET NO. 1

SI-01938



AREA		
DESCRIPTION	QUANTITY	UNITS
CLEARING AND DISBURS		
TREE CLEARING	18	ACRES
MOVING	18	ACRES
LIMITS OF DISTURBANCE		
AREA	13.2	ACRES
LIMITS OF DISTURBANCE BY OWNER		
OWNER	11	ACRES
CONROL PA COAL COMPANY/HURRAY ENERGY (S-3/10)		
CNS LAND (S-3/13)	11	ACRES
PAD	5.4	ACRES
TANK PAD	5.1	ACRES
ACCESS ROAD	2.8	ACRES
STOCK PILE	1.2	ACRES

- LEGEND**
- PROPERTY BOUNDARY
 - FENCE LINE
 - EXISTING CONTOURS
 - PROPOSED CONTOURS
 - COMPOSITE FILTER SOCK
 - LIMITS OF DISTURBANCE
 - OPEN LINE
 - EXISTING TREE LINE
 - TREE BRANCH
 - CUT
 - FILL
 - F. BANK
 - OVERLAP (DOTTED)
 - EXISTING BUILDING

NOTE
 DATUM: NAD 83 WY NORTH
 PROPERTY LINES SHOWN HAVE BEEN FIELD VERIFIED
 * THERE SHALL BE NO DISCHARGE FROM WELL PAD SITES DURING DRILLING OPERATIONS

EARTHWORK QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
ACCESS ROAD		
EXPOSED (1" DEPTH)	2.176	CY
CUT	.447	CY
NET (DRAIN)	1.643	CY
PILE BENCH		
EXPOSED (1" DEPTH)	8.200	CY
CUT	23.353	CY
NET (CUT)	39.558	CY
TANK PAD		
EXPOSED (1" DEPTH)	7.301	CY
CUT	13.636	CY
NET (DRAIN)	22.405	CY
PROJECT TOTALS		
EXPOSED (1" DEPTH)	15.477	CY
CUT	24.433	CY
NET (CUT)	491	CY

COORDINATES			
DESCRIPTION	NAD 83	NAD 27	UTM (4818M)
MARIETTA	LAT: 39 45' 130	LAT: 39 44' 40.5	N 437200.848
	LONG: 80 54 89.5	LONG: 80 54 89.5	E 534518.577
MARIETTA	LAT: 39 45' 19	LAT: 39 45' 19	N 447567.967
	LONG: 80 54 87.8	LONG: 80 54 87.8	E 534518.450
MARIETTA	LAT: 39 45' 17.8	LAT: 39 45' 18.0	N 447565.092
	LONG: 80 54 86.4	LONG: 80 54 86.4	E 534518.291
MARIETTA	LAT: 39 45' 17.2	LAT: 39 45' 16.6	N 447269.715
	LONG: 80 54 86.6	LONG: 80 54 86.6	E 534518.304
MARIETTA	LAT: 39 45' 17.2	LAT: 39 45' 16.5	N 442104.377
	LONG: 80 54 85.2	LONG: 80 54 85.2	E 534517.778
MARIETTA	LAT: 39 45' 17.0	LAT: 39 45' 16.6	N 442005.558
	LONG: 80 54 84.9	LONG: 80 54 84.9	E 534517.431
MARIETTA	LAT: 39 45' 16.5	LAT: 39 45' 16.1	N 441962.077
	LONG: 80 54 84.5	LONG: 80 54 84.5	E 534517.186
MARIETTA	LAT: 39 45' 16.4	LAT: 39 45' 16.1	N 442008.412
	LONG: 80 54 83.6	LONG: 80 54 83.6	E 534516.526
CENTER OF WELL PAD	LAT: 39 45' 16.4	LAT: 39 45' 16.7	N 442008.900
	LONG: 80 54 83.9	LONG: 80 54 83.9	E 534516.158
CENTER OF TANK PAD	LAT: 39 45' 16.5	LAT: 39 45' 16.5	N 442005.045
	LONG: 80 54 83.3	LONG: 80 54 83.3	E 534516.577

APPROVED WVDEP OOG
 8/21/2017 6/6/2017

NOTE: DRAWING WAS CREATED ON ZD154 PAPER (11x17 DRAWINGS) AND HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.

Blue Mountain Inc.
 Engineers and Land Surveyors
 4121 Madison Drive
 Boone, WV 25910
 (304) 261-0200

CHW GAS CONVEYANCE, LLC
 1000 WASHINGTON ROAD
 WASHINGTON, PA 15301

CHW GAS

MA-J-6 WELL SITE OVERALL PROPOSED SITE PLAN

REVISIONS

NO.	DESCRIPTION

DRAWN BY: HEN
 CHECKED BY: JAC
 DATE: 8/21/17
 SCALE: 1"=80'
 JOB NO.:
 DRAWING NO.: MA-J-6 OOG

SHEET NO. 6



LOCATION MAP
SCALE: 1"=2000'

RECEIVED
Office of Oil and Gas

MAY 12 2017

WV Department of
Environmental Protection



CNX GAS COMPANY
200 HALLAM ROAD
WASHINGTON, PA

MAJ-6 WEL

PROPERTY OWNERS

1. CONSOLIDATION COAL COMPANY/MURRAY ENERGY
TM/PAR: 15-5/39
2. CNX LAND
TM/PAR: 15-5/13

ENTRANCE PERMIT

CNX GAS COMPANY, LLC. WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

MISS UTILITY

MISS UTILITY OF WEST VIRGINIA WAS NOTIFIED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN (TICKET No. 1511826722). IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO THE START OF THE PROJECT.

FLOODPLAIN NOTE

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT ARE NOT LOCATED IN A FLOOD ZONE, PER THE FLOOD INSURANCE RATE MAP (FIRM) NUMBERS 54051C0125E.

SITE LOCATION

HEADING EAST ON ROUT 250 FROM MOUNDSVILLE APPROXIMATELY 14.5 MILES, TAKE A LEFT ONTO 891. HEAD EAST ON ROUTE 891 FOR 1.4 MILES, TO TURN NORTH ON ROUTE 48. HEAD NORTH ON ROUTE 48 FOR APPROXIMATELY 5.4 MILES, AND THE SITE ENTRANCE WILL BE ON THE LEFT.

ENTRANCE LOCATION

NAD 83 - LAT: N 39° 56' 15.53"; LONG
NAD 27 - LAT: N 39° 56' 15.25"; LONG
UTM (METERS) - N: 4420935.260; E:

CENTER OF WELL PAD LOCATION

NAD 83 - LAT: N 39° 56' 04.90"; LONG
NAD 27 - LAT: N 39° 56' 04.62"; LONG
UTM (METERS) - N: 4420606.599; E:

CENTER OF TANK PAD LOCATION

NAD 83 - LAT: N 39° 56' 13.22"; LONG
NAD 27 - LAT: N 39° 56' 12.94"; LONG
UTM (METERS) - N: 4420863.695; E:

WEBSTER DISTRICT

MARSHALL COUNTY, WEST VIRGINIA

DATE: JANUARY 2018

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10125 Mason Dixon Hwy.
Burton, WV 26562-9656
Engineers and Land Surveyors
(304) 662-6486

NOTE: DRAWING WAS CREATED ON 22x34 PAPER. ALL DIMENSIONS ARE HALF SCALE. REFER TO SCALE BAR.

01/05/2018

CNX GAS

, LLC
AD
5301

L SITE

ON

W 80° 32' 46.44"
W 80° 32' 47.17"
538768.666

du
1/22/17

LOCATION

W 80° 32' 54.20"
W 80° 32' 54.93"
538586.158

LOCATION

W 80° 32' 49.32"
W 80° 32' 50.05"
538700.677

ICT,

WEST VIRGINIA

II, 2017



Know what's below.
Call before you dig.

ACT 287 INFORMATION

PER. IIX17 DRAWINGS
FOR PROPER SCALING.



LOCATION MAP

MAJORSVILLE 7.5M USGS QUADRANGLE
SCALE: 1"=2000'

ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED ON APRIL 29, 2015 & OCTOBER 31, 2016 BY BLUE MOUNTAIN INC. TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE NOVEMBER 7, 2016 REPORT FOR THE THOMAS WELL SITE, WHICH WAS PREPARED BY BLUE MOUNTAIN INC. SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN CONFIRMATION OF THE DELINEATION DESCRIBED BY THE REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

GEOTECHNICAL NOTES

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED IN THE FIELD BY NGE, LLC ON MAY 28, 2015. THE REPORTS PREPARED BY NGE, LLC DATED NOVEMBER 3, 2016 REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT FOR ADDITIONAL INFORMATION, AS NEEDED.

RESTRICTIONS

1. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300' OF THE PAD & LOD.
2. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000' OF THE PAD AND LOD.
3. THERE ARE NO EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF THE WELLS BEING DRILLED.
4. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625' OF THE CENTER OF THE PAD.
5. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625' OF THE CENTER OF THE PAD.
6. THERE ARE NO PERENNIAL STREAMS, LAKES, PONDS OR RESERVOIRS WITHIN 100' OF THE PROPOSED LIMITS OF DISTURBANCE.

CERTIFICATION:

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE EROSION AND SEDIMENT CONTROL PLAN AND SITE RESTORATION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT. REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE WEST VIRGINIA CODE AND THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

SIGNATURE: _____ DATE: 01/11/2017

Blue Mountain Inc.
Engineers and Land Surveyors
70125 Mason Drive, Inc.
Barren, WV 26162-1656
(304) 642-6486

CNX GAS COMPANY, LLC
200 HALLAM ROAD
WASHINGTON, PA 15301



MAJ-6 WELL SITE
COVER SHEET

REVISIONS

DATE	TYPE



DRAWN BY: NSH
CHECKED BY: JND
DATE: 01/11/2017
SCALE: AS SHOWN
JOB NO:
DRAWING NAME: MAJ-6 DESIGN

01/05/2018
SHEET NO. 1