west virginia department of environmental protection

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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

May 27, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-2105782, issued to CNX GAS COMPANY LLC , 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: RNST13AHS
Farm Name: COASTAL TIMBERLANDS COMF
API Well Number: 47-2105782
Permit Type: Horizontal 6A Well
Date Issued: 05/27/2015

Promoting a healthy environment.

API Number: 2105782

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 fifty (50) 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. 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.

8. 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.

9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW-6B
(9/13)

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

21 2 273

1) Well Operator: CNX Gas Company LLC | 494458046 (Operator ID) | Gilmer (County) | Dekalb (District) | Burnt House (Quadrangle)

2) Operator's Well Number: RNST13AHS Well Pad Name: RNST13HS

3) Farm Name/Surface Owner: Coastal Lumber Co. Public Road Access: Newberne Rd

4) Elevation, current ground: 995' Elevation, proposed post-construction: 995'

5) Well Type (a) Gas ■ Oil _____ Underground Storage _____
Other _____
(b)If Gas Shallow ■ Deep _____
Horizontal ■

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Target - Marcellus, Depth - 6285', Thickness - 30', Pressure - 4500#

8) Proposed Total Vertical Depth: 6415'

9) Formation at Total Vertical Depth: Oriskany

10) Proposed Total Measured Depth: 14490'

11) Proposed Horizontal Leg Length: 5437'

12) Approximate Fresh Water Strata Depths: 50' (API #05754, 05755, 05538, 05674)

13) Method to Determine Fresh Water Depths: Offset Well

14) Approximate Saltwater Depths: 1880',

15) Approximate Coal Seam Depths: None

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

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
(9/13)

18) **CASING AND TUBING PROGRAM**

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	20"	N	J-55	94#	100'	100'	CTS w/ Class A type cement
Fresh Water	13 3/8"	N	J-55	54.5#	900'	900'	CTS w/ Class A Type Cement
Coal							
Intermediate	9 5/8"	N	J-55	36#	2400'	2400'	CTS w/ Class A Lead & Tail DTI Approved
Production	5 1/2"	N	P-110	20#	14490'	14490'	2072 cu. ft. w/ 50/50 POZ Lead & Class A
Tubing	2 3/8"	N	J-55	4.7#	6500'	6500'	
Liners							

Bryan O'Hara
1-6-15

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438	2110	Class A Type	1.18
Fresh Water	13 3/8"	17 1/2"	0.380	2730	Class A Type	1.39
Coal						
Intermediate	9 5/8"	12 1/4"	0.352	3520	Class A Type	1.18
Production	5 1/2"	8 3/4" & 8 1/2"	0.361	14360	Class A Type	1.26
Tubing	2 3/8"	5 1/2" Csg	0.190	7700	.....	.....
Liners						

PACKERS

Kind:	None			
Sizes:	None			
Depths Set:	None			

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WW-6B
(9/13)

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

Drill and stimulate new horizontal Marcellus well. Well to be drilled to a TMD of 14490'. Well to be drilled to a TVD of 6415', formation at TVD - Oriskany. The well bore will not be drilled any deeper than 100' beyond the Onondaga top, nor will there be any perforation, stimulation, or production of any formations below the target formation. Well will be plugged back to an approximate depth of 5000' (approximate due to exact kick off point being unknown). Plugging back will be done using the displacement method and Class A Type cement. A solid cement plug will be set from TD to KOP. If an unexpected void is encountered, plan will be to set casing at a minimum of 30' past void and cement to surface with approved Class A type cement.

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 - 9500 psi. Max Rate - 100 bbl/min.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 33.1 Acres

22) Area to be disturbed for well pad only, less access road (acres): 9.0 Acres

23) Describe centralizer placement for each casing string:

Conductor - No centralizers used. Fresh Water & Coal - Rigid Bow spring centralizers on first joint then every third joint to surface. Intermediate - Rigid Bow spring centralizers one on the first twelve joints and every third joint to surface. Production - Rigid bow spring centralizer on first joint then every casing joint (free floating) through the lateral and every other joint in the curve. (Note: cementing the 5 1/2" casing completely in open hole lateral and curve.)

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

Conductor - 2% CaCl2. Fresh Water/Coal - 3% CaCl2 & 1#/sk Celloflake LCM. Intermediate - 3% CaCl2 & 0.5#/sk Celloflake LCM, Gas Block blend meeting DTI specifications. Production - 2.6% Cement extender, 0.7% Fluid loss additive, 0.5% High Temperature Retarder, 0.2% Friction Reducer

25) Proposed borehole conditioning procedures:

Conductor - The hole is drilled w/ air and casing ran in air. Fresh Water/Coal - The hole is drilled w/ air and casing is ran in air. Once casing is on bottom, the casing string will be circulated w/ fresh water prior to cementing. Intermediate - The hole is drilled w/ air and casing is ran in air (DTI undeveloped). Water Based Mud will be utilized if deemed DTI developed. Once casing is on bottom, the casing string will be circulated with fresh water prior to cementing (DTI undeveloped). Casing ran in WBM is DTI deemed developed. (Note: Drilling soap may be utilized if the hole gets wet/damp during the drilling of all air holes with the exception of the conductor). Production - The hole will be drilled with synthetic oil base mud. At TD the hole is circulated at optimum pump rate until the hole is clean. Once casing is ran the hole is circulated for a minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.

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Cement Additives

- Conductor – 2% CaCl2
- Freshwater/Coal – 2% CaCl2
- Intermediate - 2% CaCl2
- Production -
    - 2.6% Cement extender
    - 0.7% Fluid Loss Additive
    - 0.5% High Temperature Retarder
    - 0.2% Friction Reducer

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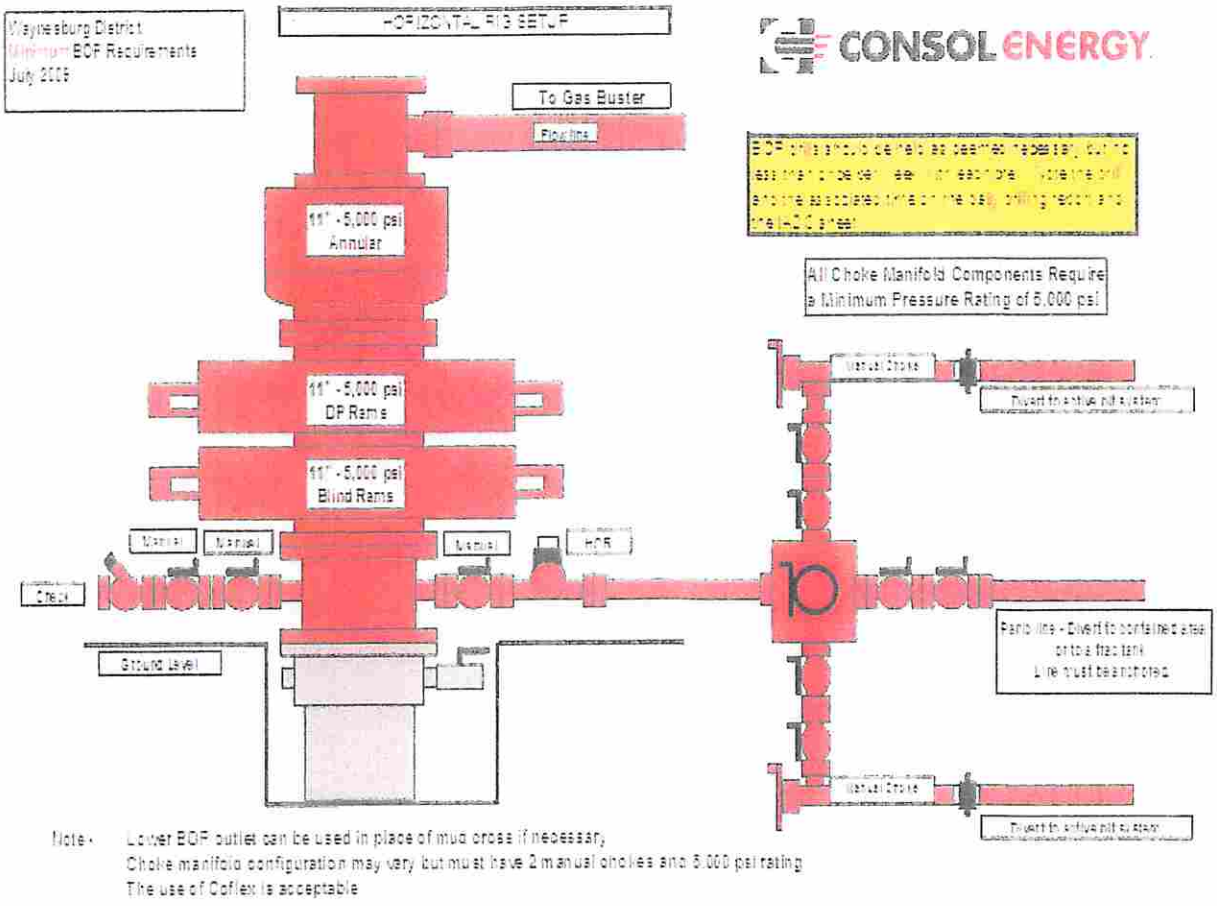

Remote Controls

Remote controls shall be readily accessible to the driller. Remote controls for all systems shall be capable of closing the preventer. Remote controls systems shall be capable of both opening and closing the preventer.

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WW-9
(9/13)

API Number 47 - 021 - _____
Operator's Well No. RNST13AHS

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) Middle Little Kanawha River Quadrangle Burnt House

Elevation 995 County Gilmer District DeKalb

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 Recycle on other well on pad or adjacent pads

Will closed loop system be used? If so, describe: Yes, cuttings/fluids separated with the use of a centrifuge/shaker, liquids recycled & solids disposed of at an approved landfill

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Synthetic

-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. 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? Meadowfill, Northwestern Landfill, Max Environmental Yukon Landfill & Bulger Landfill

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 Kelly Eddy

Company Official (Typed Name) Kelly Eddy

Company Official Title Permitting Supervisor

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Subscribed and sworn before me this 7TH day of JANUARY, 2015

Carolinda Flanagan Notary Public

My commission expires 9/15/2021

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
CAROLINDA FLANAGAN
PO Box 603
Lumberport WV 26386
My Commission Expires September 15, 2021

Form WW-9

Operator's Well No. RNST13AHS

CNX Gas Company LLC

Proposed Revegetation Treatment: Acres Disturbed 33.1 Prevegetation pH 6.5

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

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

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

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [signature]

Comments:

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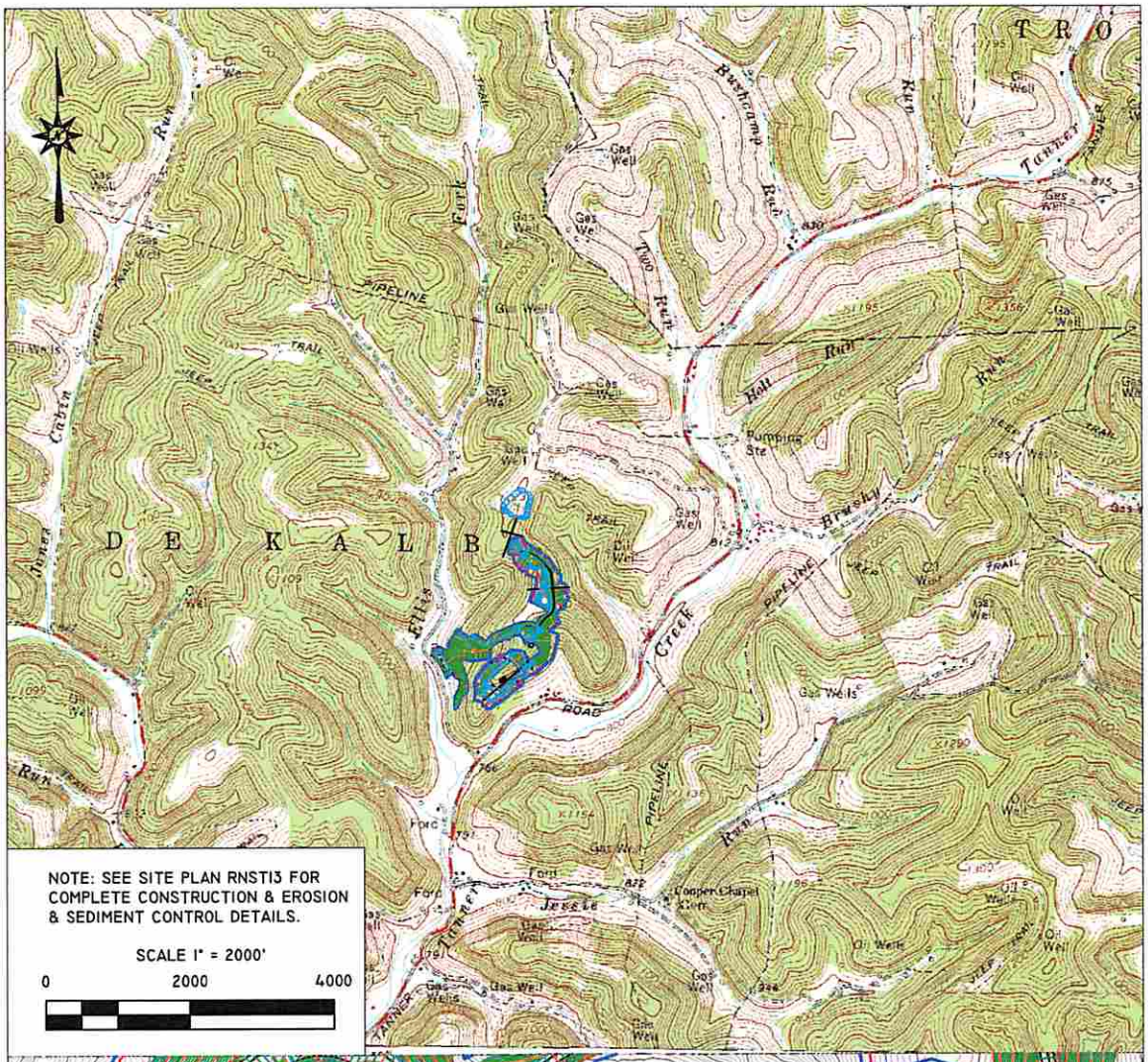
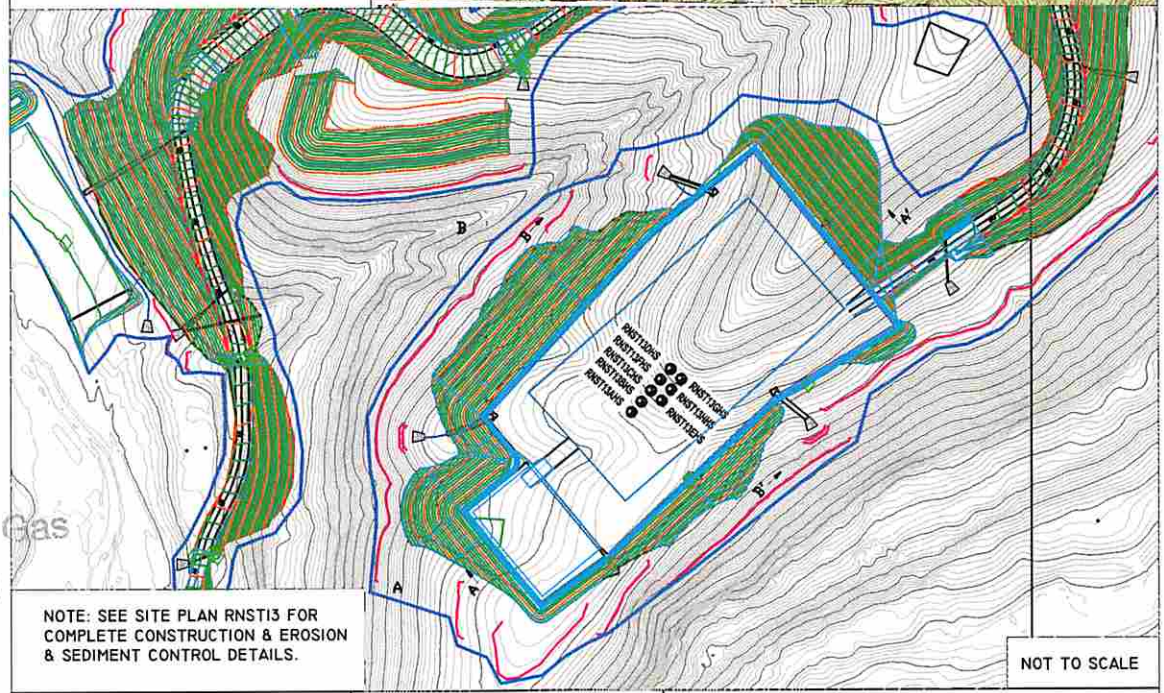
Title: Inspector Date: 1-6-15

Field Reviewed? ( ) Yes (X) No



NOTE: SEE SITE PLAN RNST13 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.



NOTE: SEE SITE PLAN RNST13 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

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Office of Oil & Gas
JAN 16 2015

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

PREPARED FOR:
CNX GAS COMPANY LLC
P.O. BOX 1248
JANE LEW, WV 26378

RNST13 WELL
TOPO SECTION OF BURNT HOUSE 7.5' USGS TOPO QUADRANGLE

FORM WW9

OCTOBER 16, 2014

CONSOL ENERGY

Safety Plan for Well RNST13AHS

CNX Gas Company LLC

Bryan O'Hara
11-2-14

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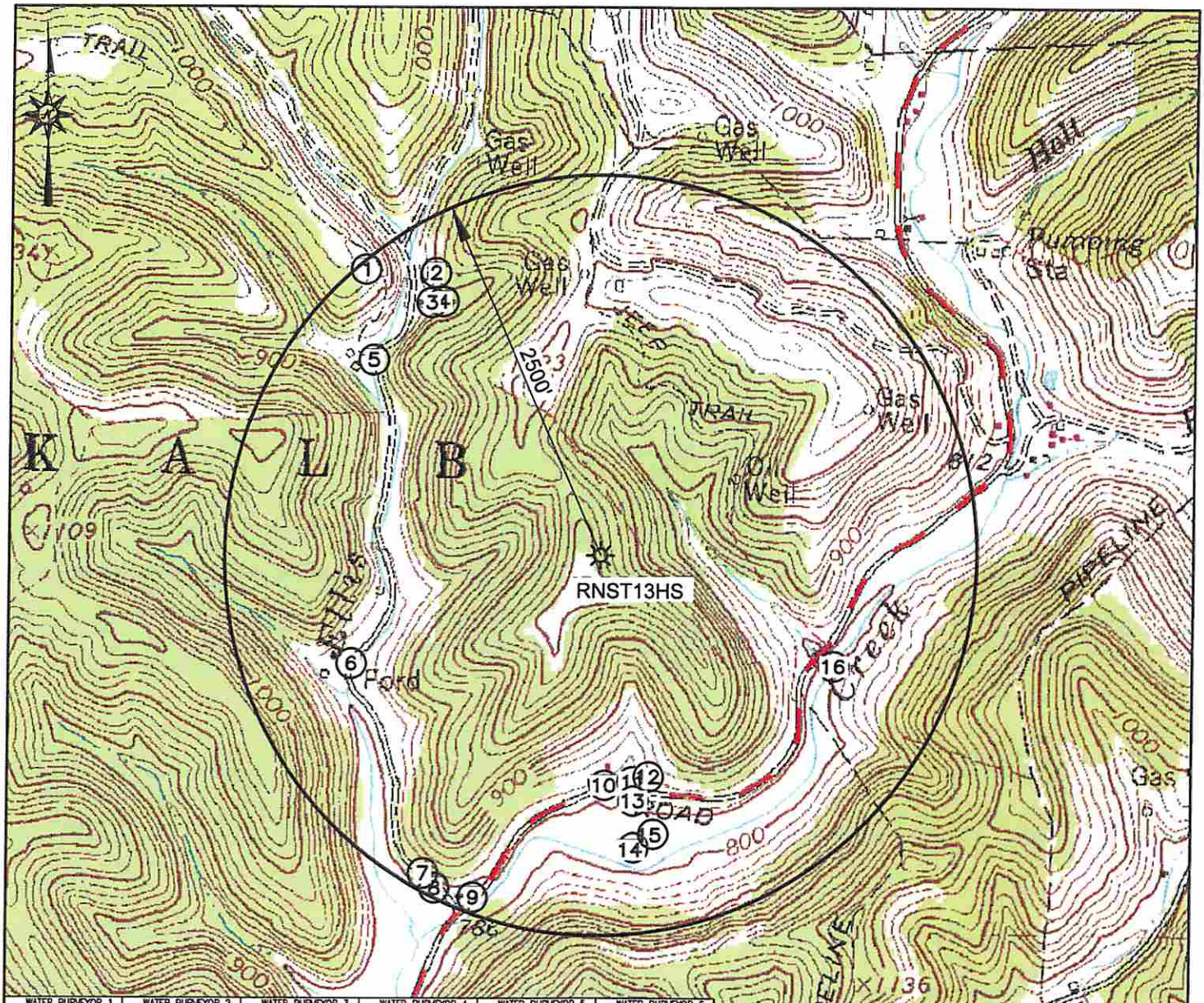


WATER PURVEYOR 1	WATER PURVEYOR 2	WATER PURVEYOR 3	WATER PURVEYOR 4	WATER PURVEYOR 5	WATER PURVEYOR 6
UTM 17-NAD83 N:4319270.72 E:506221.77 NAD27, WV NORTH N:193483.3313 E:1594204.633	UTM 17-NAD83 N:4319266.29 E:506363.03 NAD27, WV NORTH N:193461.038 E:1594667.956	UTM 17-NAD83 N:4319206.43 E:506355.59 NAD27, WV NORTH N:193265.001 E:11594640.262	UTM 17-NAD83 N:4319208.83 E:506379.85 NAD27, WV NORTH N:193271.546 E:1594720.000	UTM 17-NAD83 N:4319089.53 E:506241.81 NAD27, WV NORTH N:192887.587 E:1594260.470	UTM 17-NAD83 N:4318481.48 E:5506212.42 NAD27, WV NORTH N:190893.778 E:1594130.703

WATER PURVEYOR 7	WATER PURVEYOR 8	WATER PURVEYOR 9	WATER PURVEYOR 10	WATER PURVEYOR 11	WATER PURVEYOR 12	WATER PURVEYOR 13	WATER PURVEYOR 14	5PURVEYOR 15	WATER PURVEYOR 16
UTM 17-NAD83 N:4318063.84 E:506368.57 NAD27, WV NORTH N:189514.645 E:1594620.261	UTM 17-NAD83 N:4318034.78 E:506392.45 NAD27, WV NORTH N:1894173975 E:159467.059	UTM 17-NAD83 N:4318017.49 E:506470.97 NAD27, WV NORTH N:189356.938 E:1594953.776	UTM 17-NAD83 N:4318246.19 E:506731.88 NAD27, WV NORTH N:190093.151 E:1595822.533	UTM 17-NAD83 N:4318254.67 E:506788.09 NAD27, WV NORTH N:190117.890 E:1596007.452	UTM 17-NAD83 N:4318260.98 E:506806.31 NAD27, WV NORTH N:190137.579 E:1596067.576	UTM 17-NAD83 N:4318221.65 E:506791.11 NAD27, WV NORTH N:190009.347 E:1596015.538	UTM 17-NAD83 N:4318122.29 E:506793.98 NAD27, WV NORTH N:189683.124 E:1596019.508	UTM 17-NAD83 N:4318148.13 E:506826.57 NAD27, WV NORTH N:189766.161 E:1596127.883	UTM 17-NAD83 N:4318493.45 E:507189.74 NAD27, WV NORTH N:190879.467 E:1597338.587

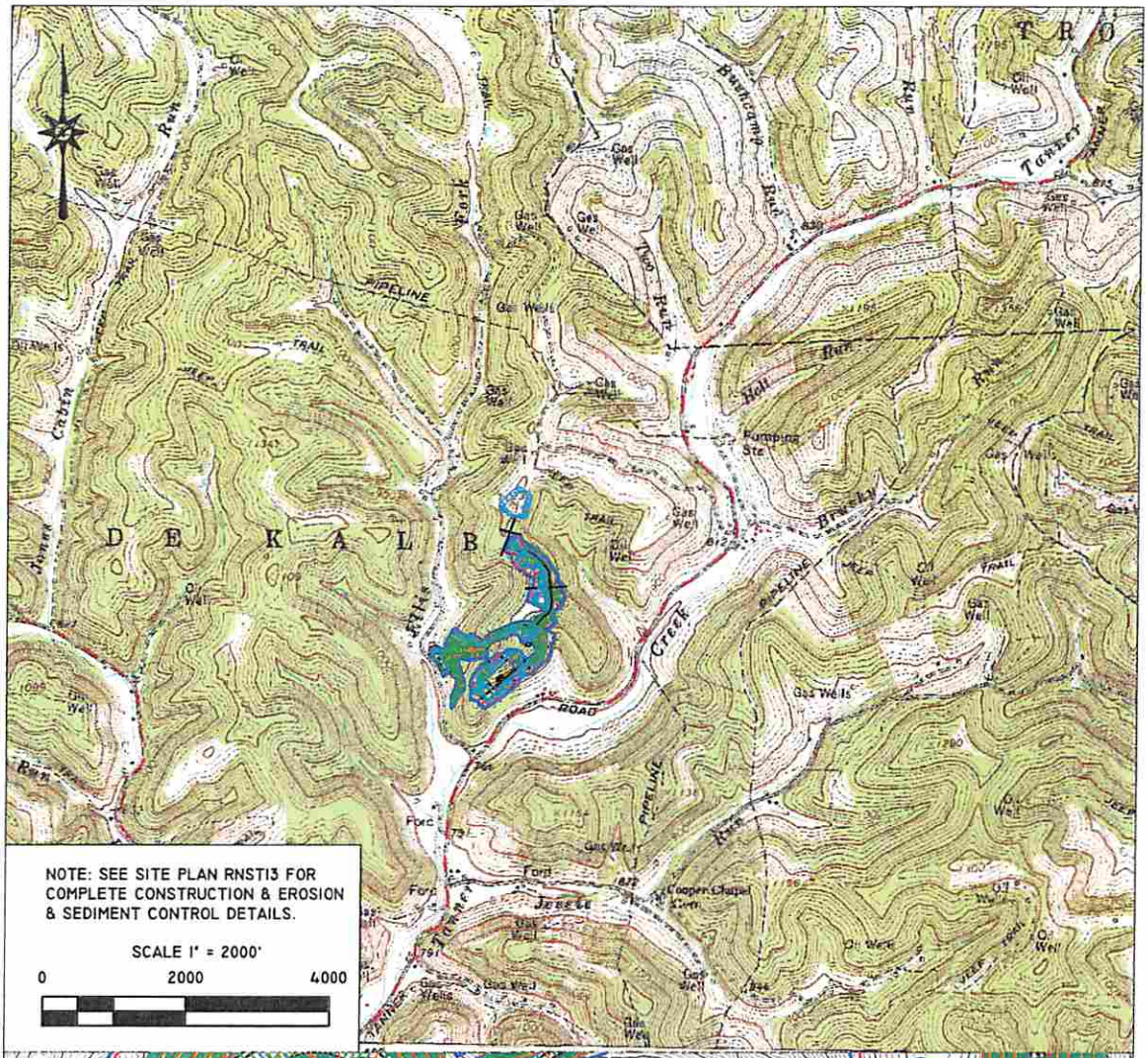
Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

PREPARED FOR:
CNX GAS COMPANY LLC
P.O. BOX 1248
JANE LEW, WV 26378

LEGEND
(1) – POSSIBLE WATER PURVEYOR

RNST13HS
WATER PURVEYOR MAP
GILMER COUNTY
DEKALB DISTRICT
WEST VIRGINIA

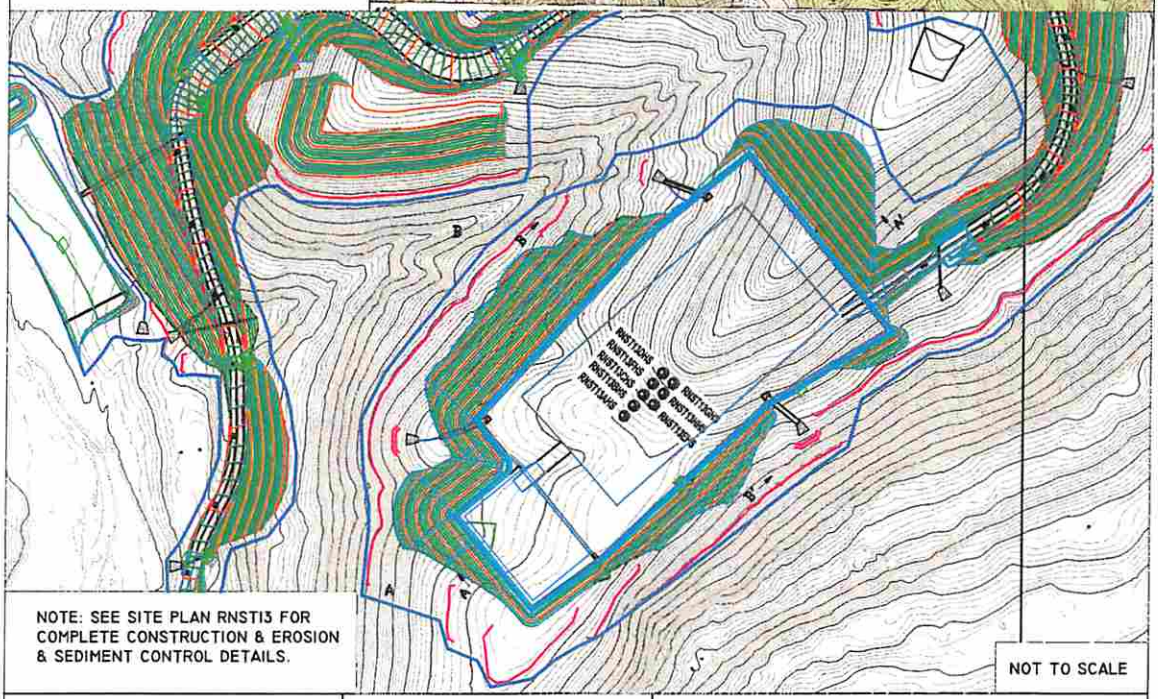
TOPO QUAD: BURNT HOUSE, WV
SCALE: 1" = 1000'
DATE: JULY 9, 2014



NOTE: SEE SITE PLAN RNST13 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

SCALE 1" = 2000'

0 2000 4000



NOTE: SEE SITE PLAN RNST13 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

NOT TO SCALE

Blue Mountain Inc. 11023 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 662-6486	PREPARED FOR: CNX GAS COMPANY LLC P.O. BOX 1248 JANE LEW, WV 26378	RNST13 WELL TOPO SECTION OF BURNT HOUSE 7.5' USGS TOPO QUADRANGLE
	FORM WW9	OCTOBER 16, 2014

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

JULY 9, 2014

CNX GAS COMPANY
P.O. BOX 1248
JANE LEW, WV 26378

WATER WELL REPORT

PROJECT: RNST13HS
DISTRICT: Dekalb
COUNTY: Gilmer
STATE: West Virginia

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

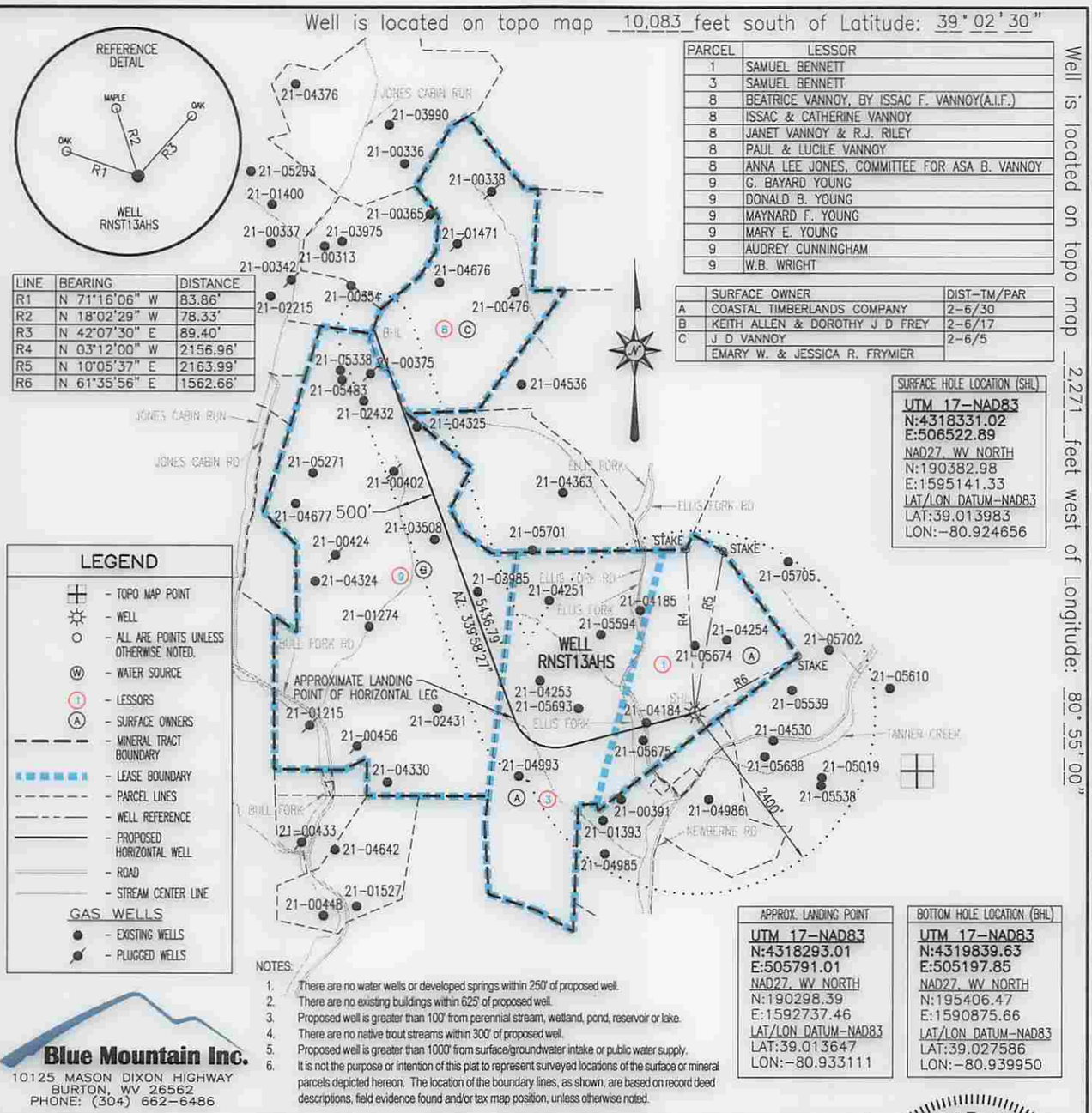
NAME	ADDRESS	CITY, STATE, ZIP
4) Stephen G. & Belita A. Mullinax Kevin Van Jones, Lisa Jan Koge & Belita Ann Mullinax c/o Stephen Mullinax	2863 Vista Mar Dr.	Grand Junction, CO 81503
6) Coastal Timberland Co. c/o Coastal Forest Resources	P.O. Box 709	Buckhannon, WV 26201
10-15) Amanda A. Frymier	1913 Newberne Rd	Coxs Mills, WV 26342
16) Esther H. Clevenger	2322 Newberne Rd	Coxs Mills, WV 26342

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

NAME	ADDRESS	CITY, STATE, ZIP
1-3) Stephen G. & Belita A. Mullinax Kevin Van Jones, Lisa Jan Koge & Belita Ann Mullinax c/o Stephen Mullinax	2863 Vista Mar Dr.	Grand Junction, CO 81503
5) Pat G. McCartney & Tim C. McCartney c/o Pat G. McCartney	112 Killdeer Creek Rd.	Tanner, WV 26137
7&8) Timothy W. Hall & Rebecca L. Hess	45 Ellis Fork Rd.	Coxs Mills, WV 26342
9) John W. Freshour	1707 Newberne Rd.	Coxs Mills, WV 26342

Well is located on topo map 10,083 feet south of Latitude: 39°02'30"

Well is located on topo map 2,271 feet west of Longitude: 80°55'00"



LINE	BEARING	DISTANCE
R1	N 71°16'06" W	83.86'
R2	N 18°02'29" W	78.33'
R3	N 42°07'30" E	89.40'
R4	N 03°12'00" W	2156.96'
R5	N 10°05'37" E	2163.99'
R6	N 61°35'56" E	1562.66'

PARCEL	LESSOR
1	SAMUEL BENNETT
3	SAMUEL BENNETT
8	BEATRICE VANNOY, BY ISSAC F. VANNOY(A.I.F.)
8	ISSAC & CATHERINE VANNOY
8	JANET VANNOY & R.J. RILEY
8	PAUL & LUCILE VANNOY
8	ANNA LEE JONES, COMMITTEE FOR ASA B. VANNOY
9	G. BAYARD YOUNG
9	DONALD B. YOUNG
9	MAYNARD F. YOUNG
9	MARY E. YOUNG
9	AUDREY CUNNINGHAM
9	W.B. WRIGHT

	SURFACE OWNER	DIST-TM/PAR
A	COASTAL TIMBERLANDS COMPANY	2-6/30
B	KEITH ALLEN & DOROTHY J D FREY	2-6/17
C	J D VANNOY	2-6/5
	EMARY W. & JESSICA R. FRYMIER	

LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- WATER SOURCE
- LESSORS
- SURFACE OWNERS
- MINERAL TRACT BOUNDARY
- LEASE BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE

GAS WELLS
- EXISTING WELLS
- PLUGGED WELLS

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83
N:4318331.02
E:506522.89
NAD27, WV NORTH
N:190382.98
E:1595141.33
LAT/LON DATUM-NAD83
LAT:39.013983
LON:-80.924656

APPROX. LANDING POINT
UTM 17-NAD83
N:4318293.01
E:505791.01
NAD27, WV NORTH
N:190298.39
E:1592737.46
LAT/LON DATUM-NAD83
LAT:39.013647
LON:-80.933111

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83
N:4319839.63
E:505197.85
NAD27, WV NORTH
N:195406.47
E:1590875.66
LAT/LON DATUM-NAD83
LAT:39.027586
LON:-80.939950

NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
2. There are no existing buildings within 625' of proposed well.
3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
4. There are no native trout streams within 300' of proposed well.
5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
6. 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.

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

FILE #: RNST13AHS REV. 4

DRAWING #: RNST13AHS REV. 4

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: _____

R.P.E.: _____ L.L.S.: P.S. No. 2000

GEORGE D. SIX LICENSED No. 2000 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: MAY 14, 2015

OPERATOR'S WELL #: RNST13AHS

API WELL #: 47 (STATE) 21 (COUNTY) 05782 (PERMIT)

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

WATERSHED: MIDDLE LITTLE KANAWHA RIVER ELEVATION: 995'±

COUNTY/DISTRICT: GILMER / DEKALB QUADRANGLE: BURNT HOUSE, WV 7.5'

SURFACE OWNER: COASTAL TIMBERLANDS COMPANY ACREAGE: 268.17±

OIL & GAS ROYALTY OWNER: SAMUEL BENNETT ACREAGE: 728.759±

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: MARCELLUS ESTIMATED DEPTH: TVD: 6,415'± TMD: 14,490'±

WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT MATTHEW IMRICH

Address P.O. BOX 1248 Address P.O. BOX 1248

City JANE LEW State WV Zip Code 26378 City JANE LEW State WV Zip Code 26378

WW-6A1
(5/13)

Operator's Well No. RNST13AHS

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

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: Kelly Eddy Kelly Eddy
Its: Permitting Supervisor

Received
Office of Oil & Gas
JAN 16 2015

Attachment - Form WW-6A1 for RNST13AHS

Tract ID#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1	**Samuel Bennett, widower**	**Hope Natural Gas Company**	**12.50%**	**DB 103/504**
	Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger	DB 229/286
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	DB 342/630
	Consolidated Gas Transmission Corporation	CNG Transmission	Merger/Name Change	51/795
	CNG Transmission	Dominion Transmission, Inc.	Merger/Name Change	58/362
	Dominion Transmission, Inc.	Consol Energy Holdings LLC XVI	Merger/Name Change	151/423
	Consol Energy Holdings LLC XVI	Consol Gas Company	Merger/Name Change	16/577
	Consol Gas Company	CNX Gas Company LLC	Merger/Name Change	17/1
3	**Samuel Bennett, widower**	**Hope Natural Gas Company**	**12.50%**	**DB 103/504**
	Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger	DB 229/286
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	DB 342/630
	Consolidated Gas Transmission Corporation	CNG Transmission	Merger/Name Change	51/795
	CNG Transmission	Dominion Transmission, Inc.	Merger/Name Change	58/362
	Dominion Transmission, Inc.	Consol Energy Holdings LLC XVI	Merger/Name Change	151/423
	Consol Energy Holdings LLC XVI	Consol Gas Company	Merger/Name Change	16/577
	Consol Gas Company	CNX Gas Company LLC	Merger/Name Change	17/1
9	**1. G. Bayard Young**	**Murvin Oil Corporation**	**12.50%**	**DB 270/557**
	2. Donald B. Young			
	3. Maynard F. Young			
	4. Mary E. Young			
	5. Audrey Cunningham			
	6. W.B. Wright			
	Murvin Oil Corporation	Murvin & Meier Oil Co.	Assignment	DB 417/300
	Murvin & Meier Oil Co.	CNX Gas Company LLC	Assignment	DB 417/301
8	**1. Beatrice VAnnoy, by Issac F. Vannoy as Attorney in Fact**	**Hope Natural Gas Company**	**12.50%**	**DB 216/177**
	2. Issac and Catherine Vannoy			
	3. Janet Vannoy and R.J. Riley			
	4. Paul and Lucile Vannoy			
	5. Anna Lee Jones, Committee for Asa B. Vannoy			
	Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger	DB 229/286
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	DB 342/630
	Consolidated Gas Transmission Corporation	CNG Transmission	Merger/Name Change	51/795
	CNG Transmission	Dominion Transmission, Inc.	Merger/Name Change	58/362
	Dominion Transmission, Inc.	Consol Energy Holdings LLC XVI	Merger/Name Change	151/423
	Consol Energy Holdings LLC XVI	Consol Gas Company	Merger/Name Change	16/577
	Consol Gas Company	CNX Gas Company LLC	Merger/Name Change	17/1

Received
Office of Oil & Gas
JAN 16 2015

CONSOL ENERGY

November 10, 2014

Ms. Laura Cooper
WV DEP Office of Oil & Gas
601 57th St., SE
Charleston, WV 25304

RE: CONSOL Energy's proposed RNST13AHS Well, in Gilmer County, West Virginia
Drilling Under County Route 7/4, Ellis Fork Road

Dear Ms. Cooper:

CONSOL Energy, Inc. (CNX) is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to CNX's right to drill under County Route 7/4, Ellis Fork Road. Please be advised that according to the title information we have relied on in submitting this application, the State owns no oil and gas rights under said road(s) and/or railroad(s) that CNX has leased said rights from the appropriate parties as set forth on the accompanying Form WW-6A1.

Very truly yours,

Kelly Eddy

Kelly Eddy
Permitting Supervisor
CONSOL Energy, Inc.

Received
Office of Oil & Gas
JAN 16 2015

WW-6AC
(1/12)

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

Date of Notice Certification: 01/07/2015

API No. 47- 021 -
Operator's Well No. RNST13AHS
Well Pad Name: RNST13

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: West Virginia
County: Gilmer
District: DeKalb
Quadrangle: Burnt House
Watershed: Middle Little Kanawha River

UTM NAD 83 Easting: 506,522.89 m
Northing: 4,318,331.02 m
Public Road Access: Ellis Fork CR 7/4
Generally used farm name: Coastal Timberlands Company

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.

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:

*PLEASE CHECK ALL THAT APPLY

	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or ☑ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☑ RECEIVED/ NOT REQUIRED
☑ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☐ NO PLAT SURVEY WAS CONDUCTED	☑ RECEIVED
☐ 3. NOTICE OF INTENT TO DRILL or ☑ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	☑ RECEIVED/ NOT REQUIRED
☑ 4. NOTICE OF PLANNED OPERATION	☑ RECEIVED
☑ 5. PUBLIC NOTICE	☐ RECEIVED
☑ 6. NOTICE OF APPLICATION	☑ RECEIVED

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Office of Oil & Gas
JAN 16 2015

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.

WW-6AC
(1/12)

Certification of Notice is hereby given:

THEREFORE, I Kelly Eddy, 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	Address:	P.O. Box 1248
By:	Kelly Eddy Kelly Eddy		Jane Lew, WV 26378
Its:	Permitting Supervisor	Facsimile:	304-884-2245
Telephone:	304-884-2131, Kelly Eddy	Email:	kellyeddy@consolenergy.com

NOTARY OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
CAROLINDA FLANAGAN
PO Box 603
Lumberport WV 26386
My Commission Expires September 15, 2021

Subscribed and sworn before me this 7TH day of JAN. 2015.

Carolinda Flanagan Notary Public

My Commission Expires 09/15/2021

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.

WW-6A
(9-13)

API NO. 47- 021 -
OPERATOR WELL NO. RNST13AHS
Well Pad Name: RNST13

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: 10/30/2014 **Date Permit Application Filed:** 01/15/2015

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: See Attached
Address: _____

Name: _____
Address: _____

☑ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attached
Address: _____

Name: _____
Address: _____

☐ SURFACE OWNER(s) (Impoundments or Pits)
Name: N/A
Address: _____

☑ COAL OWNER OR LESSEE
Name: See Attached
Address: _____

☐ COAL OPERATOR
Name: N/A
Address: _____

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

☑ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: See Attached
Address: _____

*Please attach additional forms if necessary

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JAN 16 2015

WW-6A
(8-13)

API NO. 47- 021 -
OPERATOR WELL NO. RNST13AHS
Well Pad Name: RNST13

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 address the items

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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

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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.**

WW-6A
(8-13)

API NO. 47- 021 -
OPERATOR WELL NO. RNST13AHS
Well Pad Name: RNST13

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.

Received
Office of Oil & Gas
MAY 1 6 2015

WW-6A
(8-13)

API NO. 47- 021 -
OPERATOR WELL NO. RNST13AHS
Well Pad Name: RNST13

Notice is hereby given by:

Well Operator: CNX Gas Company, LLC
Telephone: 304-884-2131
Email: KellyEddy@consolenergy.com

Kelly Eddy

Address: PO Box 1248
Jane Lew, WV 26378
Facsimile: 304-884-2245

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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
CAROLINDA FLANAGAN
PO Box 603
Lumberport WV 26386
My Commission Expires September 15, 2021

Subscribed and sworn before me this 7TH day of JAN, 2015.

Notary Public

My Commission Expires 09/15/2021

Received
Office of Oil & Gas
JAN 16 2015

Attachment for WW-6A – Notice of Application

RNST13HS Well Pad

Surface Owner(s):

Coastal Timberlands Company
P.O. Box 709
Buckhannon, WV 26201

Surface Owner(s) by Road and/or Other disturbance:

Robert B. Begley & Norma J. Begley
2662 Newberne Rd.
Coxs Mills, WV 26342

Coal Owner(s):

Geneva M. Anderson, as Trustee under Revocable Trust Agreement
for the benefit of James W. Anderson & Geneva M. Anderson, et al.
1818 Whispering Pines Circle
Englewood, FL 34223

Water Purveyor(s):

Stephen G. & Belita A. Mullinax, Kevin Van Jones,
Lisa Jan Koge & Belita Ann Mullinax
c/o Stephen Mullinax
2863 Vista Mar Dr.
Grand Junction, CO 81503

Coastal Timberlands Company
P.O. Box 709
Buckhannon, WV 26201

Amanda A. Frymier
1913 Newberne Rd.
Coxs Mills, WV 26342

Esther H. Clevenger
2322 Newberne Rd.
Coxs Mills, WV 26342

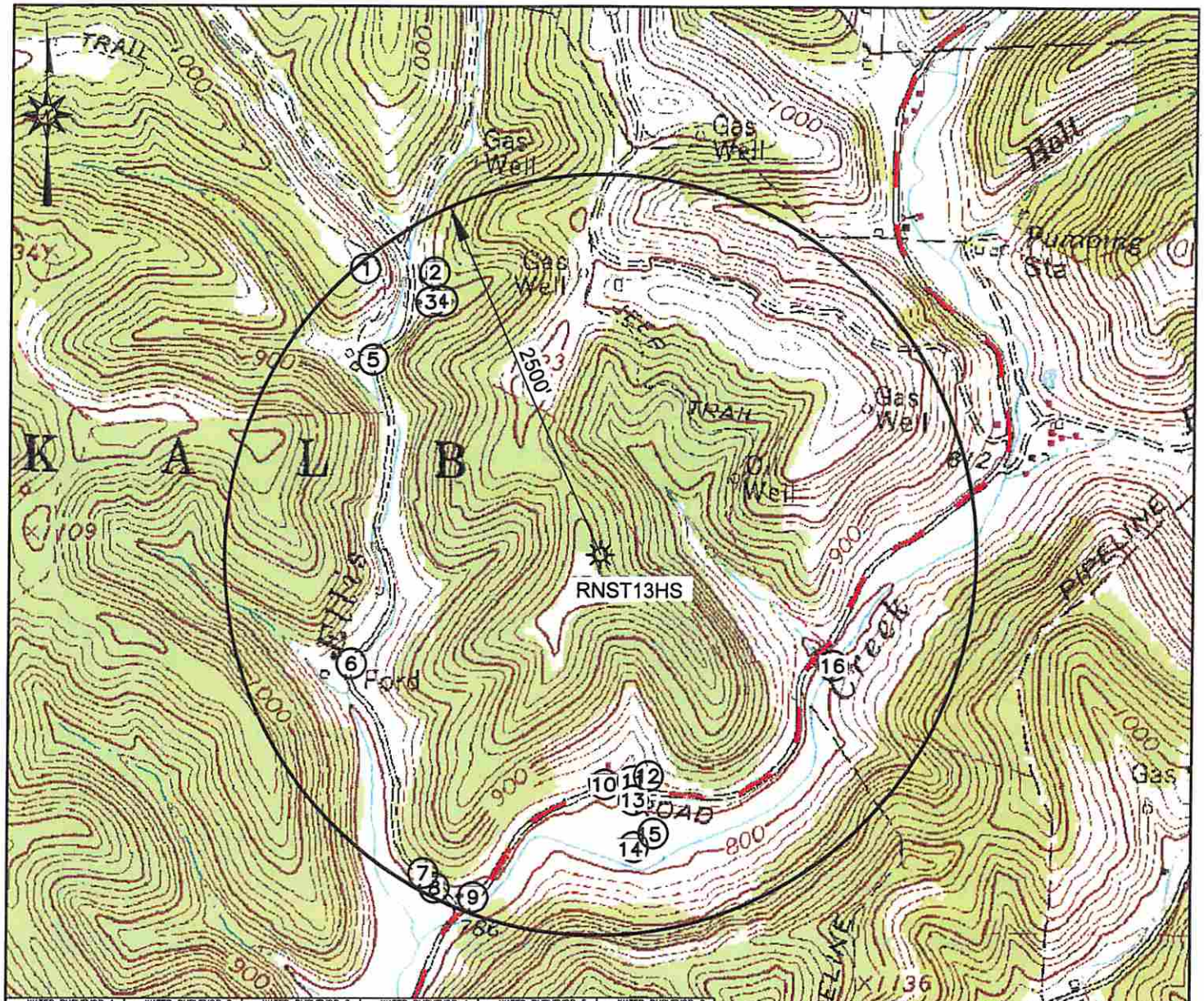
Pat G. McCartney & Tim C. McCartney
c/o Pat G. McCartney
112 Killdeer Creek Rd.
Tanner, WV 26137

Received
Office of Oil & Gas
JAN 16 2015

Timothy W. Hall & Rebecca L. Hess
45 Ellis Fork Rd.
Coxs Mills, WV 26342

John W. Freshour
1707 Newberne Rd.
Coxs Mills, WV 26342

Received
Office of Oil & Gas
JAN 16 2015



WATER PURVEYOR 1	WATER PURVEYOR 2	WATER PURVEYOR 3	WATER PURVEYOR 4	WATER PURVEYOR 5	WATER PURVEYOR 6
UTM 17-NAD83 N:4319270.72 E:506221.77 NAD27, WV NORTH N:193483.3313 E:1594204.633	UTM 17-NAD83 N:4319266.29 E:506363.03 NAD27, WV NORTH N:193461.038 E:1594667.956	UTM 17-NAD83 N:4319206.43 E:506355.59 NAD27, WV NORTH N:193265.001 E:11594640.262	UTM 17-NAD83 N:4319208.83 E:506379.85 NAD27, WV NORTH N:193271.546 E:1594720.000	UTM 17-NAD83 N:4319089.53 E:506241.81 NAD27, WV NORTH N:192887.587 E:1594260.470	UTM 17-NAD83 N:4318481.48 E:5506212.42 NAD27, WV NORTH N:190893.778 E:1594130.703

WATER PURVEYOR 7	WATER PURVEYOR 8	WATER PURVEYOR 9	WATER PURVEYOR 10	WATER PURVEYOR 11	WATER PURVEYOR 12	WATER PURVEYOR 13	WATER PURVEYOR 14	5PURVEYOR 15	WATER PURVEYOR 16
UTM 17-NAD83 N:4318063.84 E:506368.57 NAD27, WV NORTH N:189514.645 E:1594620.261	UTM 17-NAD83 N:4318034.78 E:506392.45 NAD27, WV NORTH N:1894173975 E:159467.059	UTM 17-NAD83 N:4318017.49 E:506470.97 NAD27, WV NORTH N:189356.938 E:1594953.776	UTM 17-NAD83 N:4318246.19 E:506731.88 NAD27, WV NORTH N:190093.151 E:1595822.533	UTM 17-NAD83 N:4318254.67 E:506788.09 NAD27, WV NORTH N:190117.890 E:1596007.452	UTM 17-NAD83 N:4318260.98 E:506806.31 NAD27, WV NORTH N:190137.579 E:1596067.576	UTM 17-NAD83 N:4318221.65 E:506791.11 NAD27, WV NORTH N:190009.347 E:1596015.538	UTM 17-NAD83 N:4318122.29 E:506793.98 NAD27, WV NORTH N:189683.124 E:1596019.508	UTM 17-NAD83 N:4318148.13 E:506826.57 NAD27, WV NORTH N:189766.161 E:1596127.883	UTM 17-NAD83 N:4318493.45 E:507189.74 NAD27, WV NORTH N:190879.467 E:1597338.587

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

PREPARED FOR:
CNX GAS COMPANY LLC
P.O. BOX 1248
JANE LEW, WV 26378

LEGEND
(1) – POSSIBLE WATER PURVEYOR

RNST13HS
WATER PURVEYOR MAP
GILMER COUNTY
DEKALB DISTRICT
WEST VIRGINIA

TOPO QUAD: BURNT HOUSE, WV
SCALE: 1" = 1000'
DATE: JULY 9, 2014

Received
Office of Oil & Gas
JAN 16 2015

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

JULY 9, 2014

CNX GAS COMPANY
P.O. BOX 1248
JANE LEW, WV 26378

WATER WELL REPORT

PROJECT: RNST13HS
DISTRICT: Dekalb
COUNTY: Gilmer
STATE: West Virginia

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

NAME	ADDRESS	CITY, STATE, ZIP
4) Stephen G. & Belita A. Mullinax Kevin Van Jones, Lisa Jan Koge & Belita Ann Mullinax c/o Stephen Mullinax	2863 Vista Mar Dr.	Grand Junction, CO 81503
6) Coastal Timberland Co. c/o Coastal Forest Resources	P.O. Box 709	Buckhannon, WV 26201
10-15) Amanda A. Frymier	1913 Newberne Rd	Coxs Mills, WV 26342
16) Esther H. Clevenger	2322 Newberne Rd	Coxs Mills, WV 26342

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

NAME	ADDRESS	CITY, STATE, ZIP
1-3) Stephen G. & Belita A. Mullinax Kevin Van Jones, Lisa Jan Koge & Belita Ann Mullinax c/o Stephen Mullinax	2863 Vista Mar Dr.	Grand Junction, CO 81503
5) Pat G. McCartney & Tim C. McCartney c/o Pat G. McCartney	112 Killdeer Creek Rd.	Tanner, WV 26137
7&8) Timothy W. Hall & Rebecca L. Hess	45 Ellis Fork Rd.	Coxs Mills, WV 26342
9) John W. Freshour	1707 Newberne Rd.	Coxs Mills, WV 26342

Received
Office of Oil & Gas

WW-6A3
(1/12)

Operator Well No. RNST13HS

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: 10/03/2014 **Date of Planned Entry:** 10/10/2014

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: Coastal Timberlands Company
Address: P.O Box 709
Buckhannon WV 26201
Name:
Address:
Name:
Address:

☒ COAL OWNER OR LESSEE
Name: See Attached
Address:

☒ MINERAL OWNER(s)
Name: See Attached
Address:

*please attach additional forms if necessary

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
County: Gilmer
District: DeKalb
Quadrangle: Burnt House
Approx. Latitude & Longitude: E: 506546.864 / N: 4318349.924
Public Road Access: Ellis Fork CR 7/4
Watershed: Middle Little Kanawha River & Tanner Creek
Generally used farm name: Coastal Timberlands Company

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.

Received
Office of Oil & Gas
JAN 16 2015

Notice is hereby given by:
Well Operator: CNX Gas Company LLC
Telephone: 304-884-2131, Kelly Eddy
Email: kellyeddy@consolenergy.com
Address: P.O. Box 1248
Jane Lew, WV 26378
Facsimile: 304-884-2245

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.

Attachment for WW-6A3 – Notice of Plat Survey

RNST13HS Well Pad

Surface Owner(s):

Coastal Timberlands Company
P.O Box 709
Buckhannon WV 26201

Coal Owner(s):

Geneva M. Anderson, as Trustee under Revocable Trust Agreement
for the benefit of James W. Anderson & Geneva M. Anderson, et al.
1818 Whispering Pines Circle
Englewood, FL 34223

Mineral Owner(s):

Geneva M. Anderson, as Trustee under Revocable Trust Agreement
for the benefit of James W. Anderson & Geneva M. Anderson, et al.
1818 Whispering Pines Circle
Englewood, FL 34223

Received
Office of Oil & Gas
JAN 16 2015

WW-6A5
(1/12)

Operator Well No. RNST13AHS

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: 10/30/2014 **Date Permit Application Filed:** 01/15/2015

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

☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND 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: Coastal Timberlands Company
Address: PO Box 709
Buckhannon, WV 26201

Name: _____
Address: _____

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: West Virginia
County: Gilmer
District: DeKalb
Quadrangle: Burnt House
Watershed: Middle Little Kanawha River

UTM NAD 83 Easting: 506,522.89 m
Northing: 4,318,331.02 m
Public Road Access: Ellis Fork CR 7/4
Generally used farm name: Coastal Timberlands Company

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: 304-884-2131, Kelly Eddy
Email: kellyeddy@consolenergy.com

Address: P.O. Box 1248
Jane Lew, WV 26378
Facsimile: 304-884-2245

Oil and Gas Privacy Notice:
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Received
Office of Oil & Gas
JAN 16 2015

WW-6RW
(1-12)

API NO. 47- _____ - _____
OPERATOR WELL NO. RNST13HS
Well Pad Name: Racket Newberne

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

The well operator, CNX Gas Company LLC is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), 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.

CNX GAS COMPANY, LLC
PO BOX 1248
JANE LEW, WV 26378-1248

WAIVER

I, Patrick Frymier, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 1, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	E: 506546.864
County:	Gilmer	UTM NAD 83 Northing:	N: 4318349.924
District:	DeKalb	Public Road Access:	Ellis Fork CR 7/4
Quadrangle:	Burnt House	Generally used farm name:	Coastal Timberlands Company
Watershed:	Middle Little Kanawha River & Tanner Creek		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED
*Please check all that apply

- ☐ EXISTING WATER WELLS
- ☐ DEVELOPED SPRINGS
- ☒ DWELLINGS
- ☒ AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON
Signature: Patrick Frymier
Print Name: Patrick Frymier
Date: 10/10/14

FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

Jean Butcher
GILMER County 10:00:58 AM
Instrument No 38858
Date Recorded 10/14/2014
Document Type MIS
Pages Recorded 1
Book-Page 9-522
Recording Fee $5.00
Additional $6.00

Well Operator: CNX Gas Company LLC
By: Matthew Imrich Kelly Eddy
Its: Designated Agent - District Operations Superintendent, WV Gas Operations

Signature: _____
Telephone: 304-884-2131, Kelly Eddy

NOTARY PUBLIC OFFICIAL SEAL
NOTARY PUBLIC
State of West Virginia
My Comm. Expires Nov 22, 2021
105 Pleasant Valley Dr Reedsville WV 26547

Subscribed and sworn before me this 10th day of October.

Kelly Eddy Notary Public

My Commission Expires 11/22/2021

Received
Office of Oil & Gas
JAN 13 2015

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.

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

December 17, 2014

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

Subject: DOH Permits for the RNST13HS Well Pad, Gilmer County

Dear Mr. Martin,

This well site will be accessed from Permit #07-2014-0436 issued to CNX Gas Company LLC for access to the State Road for a well site located off of Gilmer County Route 7/4 SLS.

The operator has signed a DISTRICT WIDE 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.

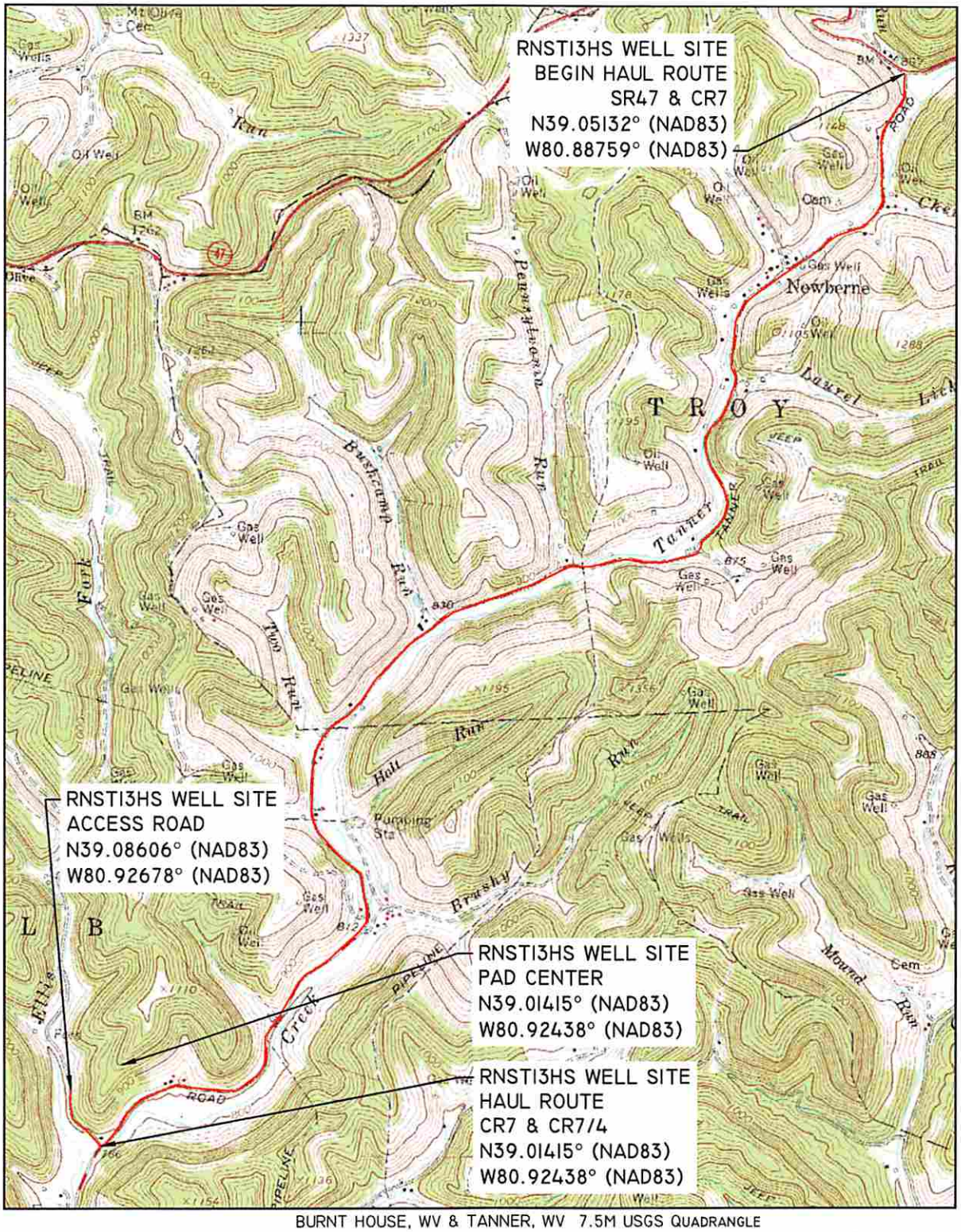
Very Truly Yours,

Gary K. Clayton

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Kelly Eddy
Consol Energy
CH, OM, D-7
File

Received
Office of Oil & Gas
JAN 16 2015



BURNT HOUSE, WV & TANNER, WV 7.5M USGS QUADRANGLE

Blue Mountain Inc.

Engineers and Land Surveyors

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

Received
Office of Oil & Gas
JAN 16 2015

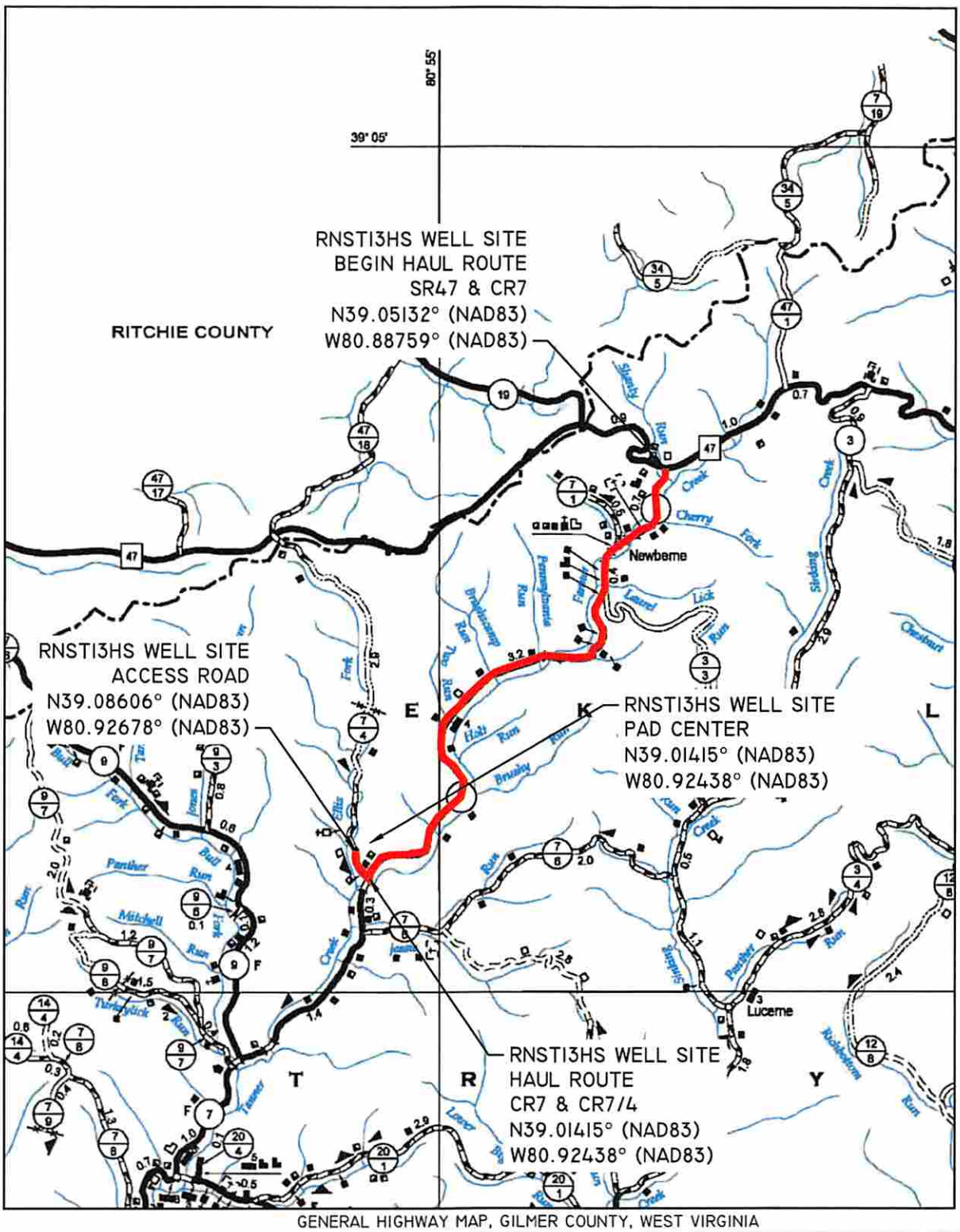
USGS LOCATION MAP

RNSTI3HS WELL SITE

DEKALB DISTRICT
GILMER COUNTY, WV

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

DRAWN BY:	EER
CHECKED BY:	WPF
DATE:	10/29/2014
SCALE:	1"=2000'
JOB NO.	
DWG NAME	



GENERAL HIGHWAY MAP, GILMER COUNTY, WEST VIRGINIA

Blue Mountain Inc.

Engineers and Land Surveyors

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

LOCATION MAP

RNSTI3HS WELL SITE

WVDOH, DISTRICT 7
GILMER COUNTY, WV

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

DRAWN BY:	EER
CHECKED BY:	WPF
DATE:	10/29/2014
SCALE:	1"=1 MILE
JOB NO.	
DWG NAME	

Received
Office of Oil & Gas
JAN 16 2015

Section V - Planned Additives to be used in Fracturing or Stimulations

Type: Friction Reducer (DWP-612)
Chemical Component as listed on MSDS: Long Chain Polyacrylamide
CAS: N/A

Type: Biocide (DWP-944)
1st Chemical Component as listed on MSDS: 2,2-Dibromo-3-nitrilopropionamide
CAS: 10222-01-2
2nd Chemical Component as listed on MSDS: Polyethylene Glycol Mixture
CAS: 25322-68-3

Type: Scale Inhibitor (DAP-901)
1st Chemical Component as listed on MSDS: Methanol
CAS: 67-56-1
2nd Chemical Component as listed on MSDS: Phosphoric Acid Ammonium Salt
CAS: Trade Secret
3rd Chemical Component as listed on MSDS: Ammonium Chloride
CAS: 12125-02-9
4th Chemical Component as listed on MSDS: Organic Phosphonate
CAS: Trade Secret
5th Chemical Component as listed on MSDS: Amine Salt
CAS: Trade Secret
6th Chemical Component as listed on MSDS: Oxyalkylated Polyamine
CAS: Trade Secret

Type: Surfactant (DWP-938)
Chemical Component as listed on MSDS: Soap
CAS: N/A

Type: Hydrochloric Acid
Chemical Component as listed on MSDS: Hydrochloric Acid
CAS: 7647-01-0

Type: PA Breaker (DWP-690)
Chemical Component as listed on MSDS: Hydrogen Peroxide
CAS: Trade Secret

Type: Gel Slurry (DWP-111)
Chemical Component as listed on MSDS: Viscosifier
CAS: N/A

Type: Oxidizer Breaker (DWP-901)
Chemical Component as listed on MSDS: Ammonium Persulfate
CAS: 7727-54-0

Type: Buffer (DWP-204)
Chemical Component as listed on MSDS: Formic Acid
CAS: 64-18-6

Received
Office of Oil & Gas
JAN 16 2015

LOCATION MAP
NOT TO SCALE

APPROVED
WVDEP OOG
4-14-2015

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

RNST13HS WELL SITE

PAD CENTER LOCATION

NAD 83 - LAT: N 39° 00' 50.95"; LONG: W 80° 55' 27.76"
NAD 27 - LAT: N 39° 00' 50.64"; LONG: W 80° 55' 28.38"
UTM, NAD 83 - N: 4318349.924; E: 506546.864

ENTRANCE LOCATION

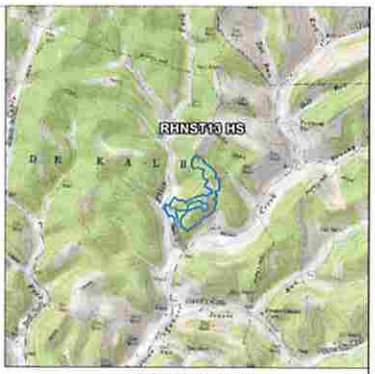
NAD 83 - LAT: N 39° 00' 46.98"; LONG: W 80° 55' 36.40"
NAD 27 - LAT: N 39° 00' 46.67"; LONG: W 80° 55' 28.38"
UTM, NAD83 - N: 4318227.375; E: 506339.177

DEKALB DISTRICT,

GILMER COUNTY, WEST VIRGINIA

DATE: MARCH 30, 2015

REVISED: APRIL 08, 2015



LOCATION MAP
BURNT HOUSE 7.5M USGS QUADRANGLE
SCALE: 1"=2000'

PROJECT INFORMATION

SURFACE OWNER:
COASTAL LUMBER CO.
TAX MAP/PARCEL 02-6-30
TOTAL PROPERTY AREA: 268.17 AC.

SITE LOCATION:
THE RNST13HS SITE IS LOCATED EAST OF COUNTY ROUTE 7/4 (ELLIS FORK ROAD) APPROXIMATELY 0.18 MILES NORTHWEST OF ITS INTERSECTION WITH COUNTY ROUTE 7 (NEWBERNE ROAD).

ENTRANCE PERMIT

CNX GAS COMPANY 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. 1417309690 & 1425466773). 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 5402IC0050C.

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

SHEET INDEX	
DRAWING NUMBER	DRAWING NAME
1	COVER SHEET
2	GENERAL NOTES
3	GENERAL NOTES
4	1/2 MILE BOUNDARY OVERVIEW
5	EXISTING CONDITIONS
6	OVERALL SITE PLAN
7	OVERALL SITE PLAN W/ ORTHO
8	DETAILED SITE PLAN (1 OF 4)
9	DETAILED SITE PLAN (2 OF 4)
10	DETAILED SITE PLAN (3 OF 4)
11	DETAILED SITE PLAN (4 OF 4)

SHEET INDEX	
DRAWING NUMBER	DRAWING NAME
12	ROAD PROFILES & SECTIONS
13	ROAD SECTIONS
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15	PAD PROFILES & SECTIONS
16	RECLAMATION PLAN (1 OF 4)
17	RECLAMATION PLAN (2 OF 4)
18	RECLAMATION PLAN (3 OF 4)
19	RECLAMATION PLAN (4 OF 4)
20	CONSTRUCTION DETAILS
21	CONSTRUCTION DETAILS
22	CONSTRUCTION DETAILS
23	MATERIAL QUANTITIES

Blue Mountain Inc.
Engineers and Land Surveyors
11023 Mason Dixon Hwy.
Burton, WV 26562-9656
(304) 662-6486

811
Know what's below.
Call before you dig.

ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED ON JULY 15 - 16 & AUGUST 5 - 6, 2014 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 AUGUST 7, 2014 REPORT FOR RNST13HS, 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

THIS DESIGN WAS PERFORMED WITHOUT A GEOTECHNICAL INVESTIGATION; THEREFORE, BLUE MOUNTAIN INC. SHALL ASSUME NO RESPONSIBILITY FOR ANY UNFORESEEN SITE CONDITIONS DURING OR AFTER CONSTRUCTION, INCLUDING ANY POTENTIAL SLOPE OR EMBANKMENT FAILURES DUE TO A SURCHARGE LOAD OR OTHER CAUSES.

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, WETLANDS, 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: William P. Foley DATE: 04/18/2015

Blue Mountain Inc.
Engineers and Land Surveyors
11023 Mason Dixon Hwy
Burton, WV 26562-9656
(304) 662-6486

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

CNX GAS

RNST13HS WELL SITE
COVER

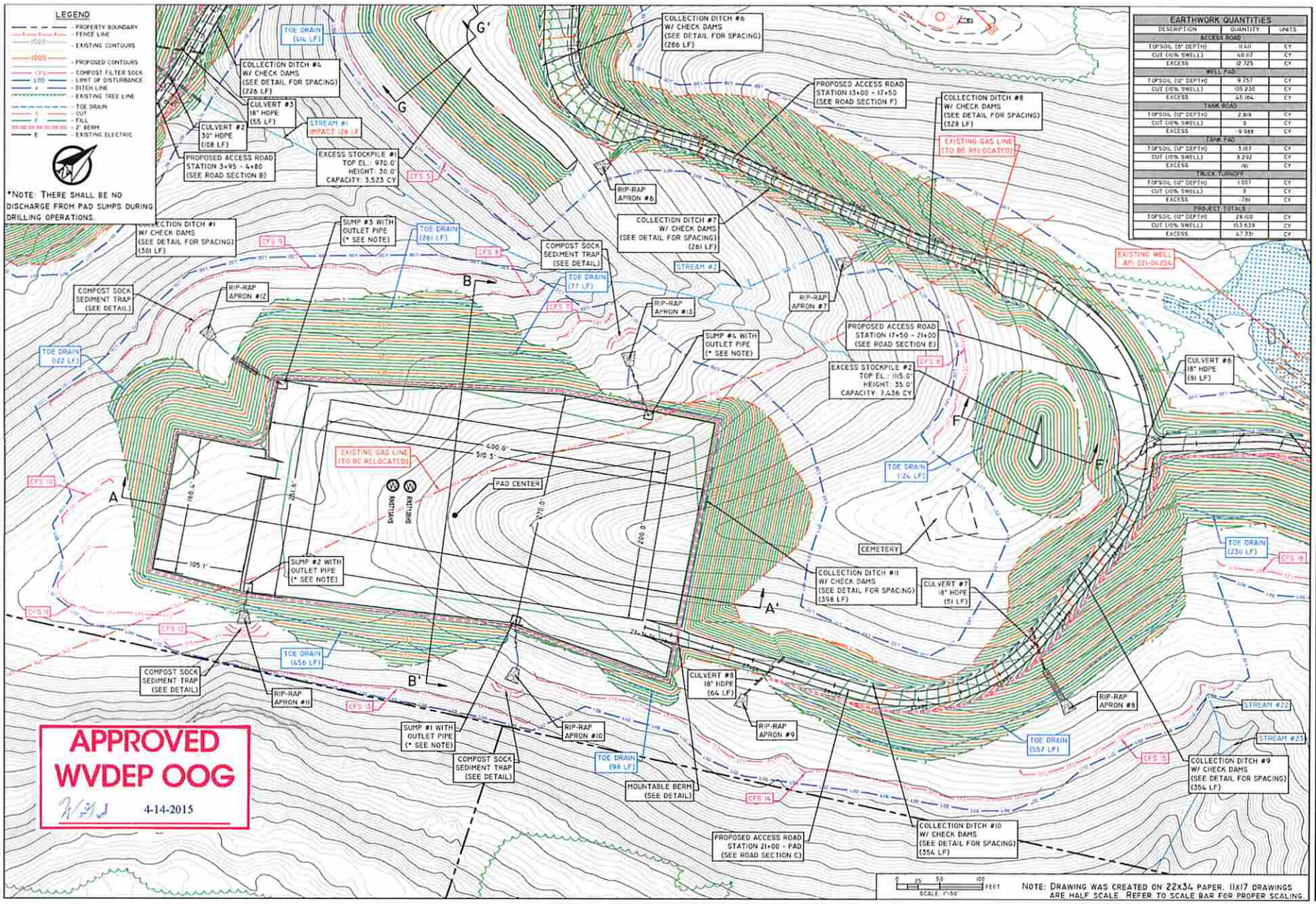
REVISIONS

DATE	TYPE
04/08/15	DEP COMMENTS

WILLIAM P. FOLEY
LICENSED
No. 6445
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

DRAWN BY: WSH
CHECKED BY: WPF
DATE: 03/30/15
SCALE: AS SHOWN
JOB NO:
DRAWING NAME:

SHEET NO. 1



APPROVED
WVDEP OOG
4-14-2015

EARTHWORK QUANTITIES

DESCRIPTION	QUANTITY	UNITS
ACCESS ROAD		
TOPSOIL (6" DEPTH)	11,611	CY
CUT (10% SWELL)	40,117	CY
EXCESS	17,725	CY
WELL PAD		
TOPSOIL (12" DEPTH)	9,757	CY
CUT (15% SWELL)	105,230	CY
EXCESS	45,164	CY
TANK PAD		
TOPSOIL (12" DEPTH)	2,816	CY
CUT (10% SWELL)	0	CY
EXCESS	-9,568	CY
TANK PAD		
TOPSOIL (12" DEPTH)	5,167	CY
CUT (10% SWELL)	8,292	CY
EXCESS	791	CY
TRUCK TURNOFF		
TOPSOIL (12" DEPTH)	1,807	CY
CUT (10% SWELL)	0	CY
EXCESS	-781	CY
PROJECT TOTALS		
TOPSOIL (12" DEPTH)	28,100	CY
CUT (10% SWELL)	153,639	CY
EXCESS	47,331	CY

Blue Mountain Inc.
Engineers and Land Surveyors
1021 Main Dixie Hwy
Bethel, WV 26562-9516
(304) 665-3488

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

CNXGAS

RNST13HS WELL SITE
DETAILED SITE PLAN (2 OF 4)

REVISIONS

DATE	TYPE
04/09/15	DEP COMMENTS

WILLIAM P. FOLEY LICENSED No. 4449 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

DRAWN BY: WSH
CHECKED BY: WPF
DATE: 03/23/15
SCALE: 1"=50'
JOB NO.:
DRAWING NAME:

SHEET NO. 9

WV Flood Map

This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Map Created on 12/1/2014

Location of the mouse click

Flood Hazard Zone
(1% annual chance floodplain)

User Notes:

Received
Office of Oil & Gas
JAN 16 2015

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.

WV Flood Tool is supported by FEMA, WV NFIP Office, and WV GIS Technical Center (http://www.MapWV.gov/flood)

Flood Hazard Area:
Elevation: About 994 feet
Location (long, lat): 80.924370 W, 39.014645 N
Location (UTM 17N): (506548, 4318405)
FEMA Issued Flood Map: 54021C0050C
Contacts: Gilmer County
CRS Information: N/A
Parcel Number: