



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, July 14, 2017
WELL WORK PERMIT
Vertical / Plugging

CONSOL GAS COMPANY
1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for 4163
47-033-01403-00-00

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: 4163
Farm Name: NUTTER, N.
U.S. WELL NUMBER: 47-033-01403-00-00
Vertical / Plugging
Date Issued: 7/14/2017

Promoting a healthy environment.

07/14/2017

PERMIT CONDITIONS

West Virginia Code §22-6-11 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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B
Rev. 2/01

1) Date 6-28, 2017
2) Operator's
Well No. 4163
3) API Well No. 47-033 - 01403

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

RECEIVED
Office of Oil and Gas

JUN 30 2017

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

WV Department of
Environmental Protection

4) Well Type: Oil ___ / Gas x / Liquid injection ___ / Waste disposal ___
(If "Gas, Production x or Underground storage ___) Deep ___ / Shallow x

5) Location: Elevation 1093 Watershed West Fork River
District Union County Harrison Quadrangle Big Isaac

6) Well Operator Consol Gas Company 7) Designated Agent Christopher Turner
Address 1000 Consol Energy Drive Address P.O. Box 1248
Canonsburg, PA 15317 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified Name Sam Ward
Address P.O. Box 2327
Buckhannon WV 26201
9) Plugging Contractor Name Coastal Drilling East LLC
Address 70 Gums Springs Road
Morgantown, WV 26508

10) Work Order: The work order for the manner of plugging this well is as follows:
See attached.

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector S. P. Ward Date 6/28/2017

Plugging Work Order for Permit 47-033-01403**CNX Gas – Nutter 4163****Elevation- 1093'****Original Drill Date 05/01/1916**RECEIVED
Office of Oil and Gas

JUN 30 2017

WV Department of
Environmental Protection

1. Install control head. Well is reported oil production from Gordon @ ~2322'
2. Load hole with gel.
3. Verify tubing TD with sand line.
4. Pull 3" tubing (~2336), if unable to pull, cut 3" tubing at 5" casing shoe ~2313
5. Pull 5" casing, if unable to pull, run bond log, freepoint as necessary.
6. RIH 1-1/2" workstring and set bottom cement plug from attainable TD to 1730'
(Bottom of 6" casing)
7. TOOH 1-1/2" workstring
- 8. Pull 6" casing, if unable to pull, bond log and freepoint as necessary.
 - If unable to remove any 6", perforate 4spf every 100', TIH 1-1/2" workstring and CTS.
- 9. Pull 8" casing, if unable to pull, ^{FREEPOINT & CUT} perforate 4spf every 100' from last cement plug to surface.
10. TIH 1-1/2" workstring, CTS.
11. Install 6" x 14' monument (10' below grade, 4' above grade) API 47-033-01403

Work Order approved by Inspector S. P. O. [Signature] Date: 6/29/2017

Note: All cement will be Class A. All spacers between plugs will be 6% gel.

★ ALL FREE CASING WILL BE REMOVED.

- 8. IF A PORTION OF THE 6" IS REMOVED, THEN PERFORATE 4SPF EVERY 100' UP TO CASING CUT, AND CEMENT UP TO THAT POINT.
- 9. IF A PORTION OF THE 8" IS REMOVED, THEN PERFORATE 4SPF EVERY 100' UP TO CASING CUT AND CTS.

JMA

07/14/2017

3301403 P

Well No. 116 JV District FINN
 Located on Nancy E. Nutter Farm 871
 District UNION County Harrison State W. Va. 82

Location Made 2-23-16 First Work Done 2-25-16
 Rig Commenced 3-11-16 Rig Completed 3-17-16
 Drilling Commenced 3-23-16 Drilling Completed 5-1-16
 Rig Contractor Hope Nat. Gas Co. Drilling Contractor H. H. Hept
 Drillers O. E. Garrett W. H. E. Co. Test. String No. C. T. Hagersty
 Tool Dressers W. E. Perry S. L. Harrison

185
6E
58

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
Native Coal	-	-					
Pittsburg Coal	220	226					033-1403
Little Dunkard	370	375	S.L.				
Big Dunkard	500	505					
Gas Sand	700	750					
First Salt	825	875	S.L.				
Second Salt	900	995					
Maxon	1050	1190					
Little Lime	1595	1612					
Pencil Cave	1620	1633	S.L.				
Big Lime	1633	1649					
Big Injun	1649	1712					
Squaw	1712	1870	S.L.				1860 Not enough to test
Berea	1875	1890					
Gantz	-	-					
Fifty Foot	2015	2024					
Thirty Foot	2130	2148	S.L.				✓ 2140 3/10 Water thru 1"
Gordon Stray	2224	2266	S.L.				✓ 2254 No Water thru 2" from 50'
Gordon	2286	2300	S.L.				2308
Fourth	2305		S.L.				✓ 2314 1/10 Mercury thru 5 1/2"
Fifth							
Bayard							
Total Depth		2316	S.L.				

SIZE	Charged in Well		Fet in Well		Falled Out		Left in Well		Transferred Before Completion		Left Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
13" Csg.													
10" "	220	2	158		-		158		-		62	2	S.L. 156.
8 1/2" "	1190	11	1190	11	-		1190	11	-		-		S.L. 1180.
6 5/8" "	2173		1730		-		1730		-		443		S.L. 1715.
5 3/16" "	2426	11	2313		-		2313		-		113	11	S.L. 2293.
Tbg.	Shot in on 5 3/16 casing.												Could Not pull 10" Cas.

PACKER RECORD

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
	No packers run			Ran 1-6 5/8 steel casing shoe Ran 1-5 3/16 " " "

SHOOTING RECORD (If shot before or upon completion of well)

DATE	Quartz	Top of Shot	Bottom of Shot	Diameter	Sand	Test Before Shot			Test After Shot			Test Taken After Shot Re. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
					None.								

CEMENTING RECORD

Date Cemented..... Size Hole Cemented..... Size Casing Cemented.....
 Top Pittsburg Coal..... Top Cementing..... Amount Cement Used.....
 Bottom Pittsburg Coal..... Bottom Cementing..... Amount Sand Used.....
 Mr..... of..... Coal Company on ground when coal was cemented
 Remarks:..... Signature of persons who cemented well

Well Book Feb 14, 1917 G.C.P.
 Lease Book
 MAY 1 9 1915 J.C.L.
 JUN 3 1916 A.J.D.
 MAY 31 1916 H.H.S.

Approved by [Signature]
 Foreman

RECEIVED
 Office of Oil and Gas
 JUN 30 2017
 WV Department of Environmental Protection
 07/14/2017

3301403P

WW-4A
Revised 6-07

1) Date: 6-28-17
2) Operator's Well Number
4163

3) API Well No.: 47 - 033 - 01403

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

RECEIVED
Office of Oil and Gas

JUN 30 2017

4) Surface Owner(s) to be served: ✓
(a) Name Leonard Van Courtney
Address 108 Selah Way
Lost Creek, WV 26385
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Sam Ward
Address P.O. Box 2327
Buckhannon WV 26201
Telephone 304-389-7583

5) (a) Coal Operator
Name _____
Address _____
(b) Coal Owner(s) with Declaration ✓
Name Blackhawk Land Resources, LLC
Address 3228 Summit Square Place Suite 180
Lexington, KY 40509
(c) Coal Lessee with Declaration
Name _____
Address _____

WV Department of
Environmental Protection

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

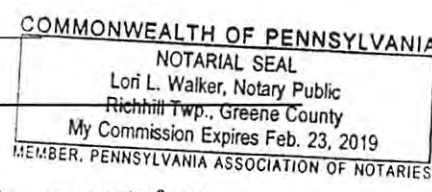
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Consol Gas Company
By: Erika Whetstone *Erika Whetstone*
Its: Permitting Supervisor
Address 1000 Consol Energy Drive
Canonsburg, PA 15370
Telephone 724-485-4035

Subscribed and sworn before me this 29th day of June 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 phone number, as a 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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

07/14/2017

3301403P

WW-9
(5/16)

API Number 47 - 033 - 01403
Operator's Well No. 4763

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

RECEIVED
Office of Oil and Gas

JUN 30 2017

Operator Name Consol Gas Company OP Code 494495754

Watershed (HUC 10) West Fork River Quadrangle Big Isaac

WV Department of Environmental Protection

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 (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Waste Management or Ryan Environmental will use vacuum trucks, and properly dispose of any fluid or waste returns) _____

SDW
6/28/2017

Will closed loop system be used? If so, describe: no

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

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

Additives to be used in drilling medium? na

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. na

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

-Landfill or offsite name/permit number? _____

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 April 1, 2016, 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 J Whetstone

Company Official (Typed Name) Erika Whetstone

Company Official Title Permitting Supervisor

Subscribed and sworn before me this 29th day of June, 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

07/14/2017

Form WW-9

Operator's Well No. 4163

Proposed Revegetation Treatment: Acres Disturbed less than 1 acre Prevegetation pH _____

Lime 2-3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

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JUN 30 2017

WV Department of
Environmental Protection

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Landino Clover	5	Landino Clover	5

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, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

Title: COG Inspector Date: 6/28/2017

Field Reviewed? () Yes (X) No

4703373703
William Bower
Hope Natural Gas Company



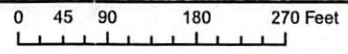
4762301403
N Nutter
Industrial Gas Supply Corp.



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WV Department of
Environmental Protection



Date: 6/29/2017 Prepared By: CNX Web Map

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General Reference Map

07/14/2017




17033-17632
J.L. Weisheit
Hops Natural Gas Company

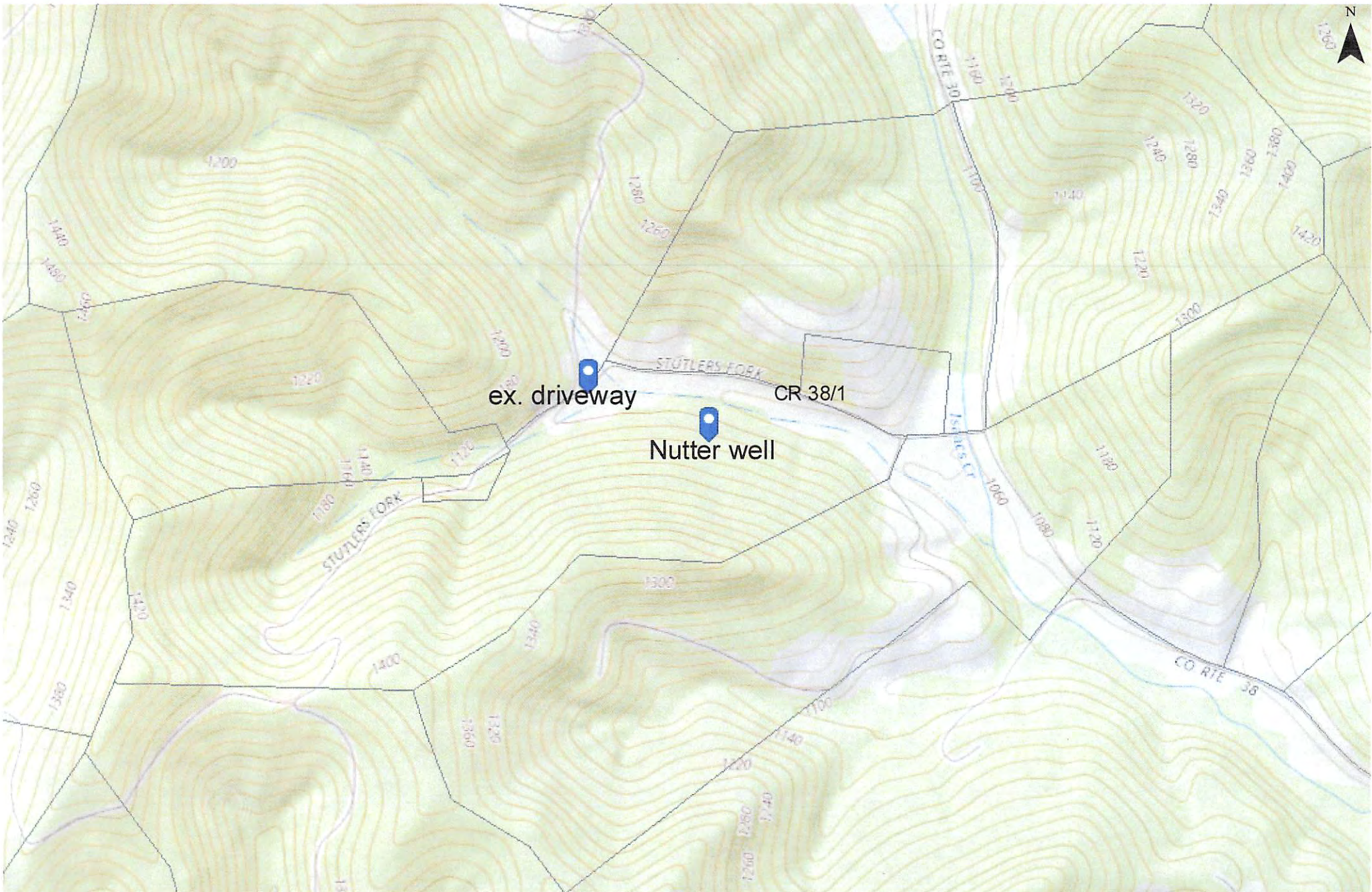
West Virginia

Harrison



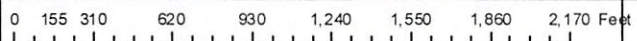
Legend

- WhiteStar Wells
- WhiteStar Wells Labels
-  State Boundary
-  County Boundary
-  Township/District Boundary



Legend

-  CNX Marcellus Well Pad Centers - Drilled
-  CNX Utica Well Pad Centers - Drilled
-  Surface Tax Parcels



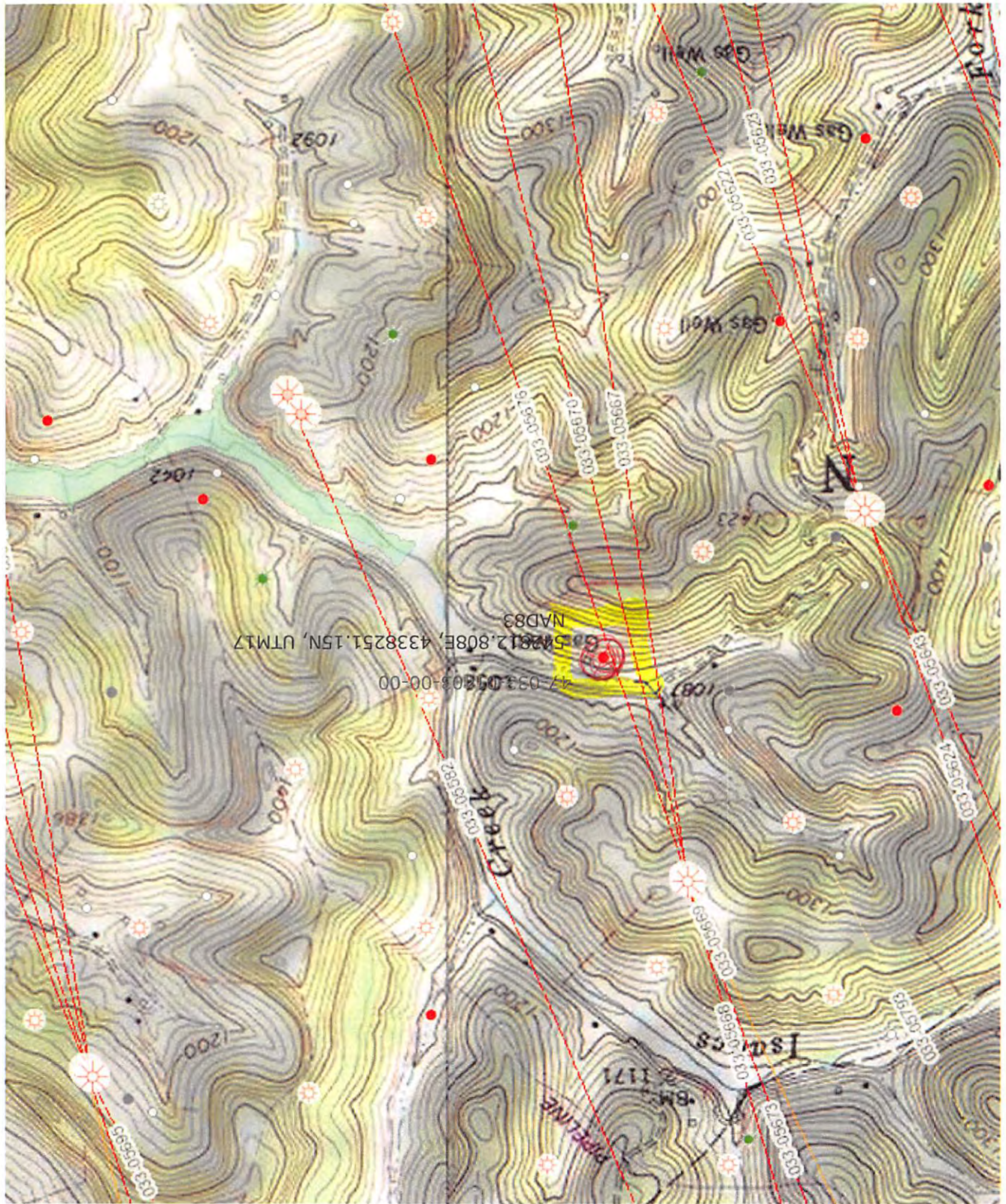
Date: 6/30/2017 Prepared By: CNX Web Map



General Reference Map

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3301403P



WW-7
8-30-06

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Office of Oil and Gas

JUN 30 2017

WV Department of
Environmental Protection



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-033-01403 WELL NO.: 4163

FARM NAME: Nutter

RESPONSIBLE PARTY NAME: Erika Whetstone

COUNTY: Harrison DISTRICT: Union

QUADRANGLE: Big Isaac

SURFACE OWNER: Leonard Van Courtney

ROYALTY OWNER: _____

UTM GPS NORTHING: 4338251.150

UTM GPS EASTING: 542812.808 GPS ELEVATION: 333.38m (1093')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Erika J. Whetstone
Signature

Permitting Supervisor
Title

6/20/17
Date