



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

Wednesday, December 13, 2017
WELL WORK PERMIT
Vertical / Plugging

CONSOL GAS COMPANY
1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for 8028
47-033-00099-00-00

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: 8028
Farm Name: EDWARDS, H.
U.S. WELL NUMBER: 47-033-00099-00-00
Vertical / Plugging
Date Issued: 12/13/2017

Promoting a healthy environment.

12/15/2017

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.

1) Date _____, 2017
2) Operator's
Well No. 8028
3) API Well No. 47-033-00099

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Location: Elevation 1026.57 feet Watershed West Fork
District Union County Harrison Quadrangle West Milford

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 9) Plugging Contractor
Name Sam Ward Name Coastal Drilling East LLC
Address P.O. Box 2327 Address 70 Gums Springs Road
Buckhannon WV 26201 Morgantown, WV 26508

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

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

Work order approved by inspector [Signature] Date 11/1/2017

12/15/2017

Plugging Work Order for Permit 47-033-00099**CNX Gas – Edwards 8028****TD-1827'****Elevation- 1017'****Original Drill Date 8/14/1909**

1. Install control head.
2. Check TD 1827'
 - Well records indicate well was cleaned out to TD, ran 4-1/2" casing and cemented with 100sks in 1980.
3. Load hole with gel for well control as necessary. Well is perforated 1611'-1618'.
4. Confirm TOC on 4-1/2" production casing.
5. TIH w/1-1/2" workstring and set bottom cement plug up to TOC on 4-1/2" casing. (TOC~1000')
6. TOOH 1-1/2" workstring.
7. Cut/pull 4-1/2" casing at TOC.
8. Perforate 7" casing from 4-1/2" casing cut to surface w/4spf every 100' to surface.
9. TIH w/1-1/2" workstring to 4-1/2" casing cut and CTS in 500' lifts.
10. Install 6" x 14' monument (10' below grade, 4' above grade) API 47-033-00099

Work Order approved by Inspector

S. D. Warrant

Date:

11/1/2017

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

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Rotary _____ Oil _____
Cable X Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Weston
Permit No. 47-033-99-Rec.

Company Consolidated Gas Supply Corp.
Address 445 W. Main St., Clarksburg, WV
Firm Ham Edwards Acres 11
Location (waters) West Fork River
Well No. 8028 Elev 1017
District Union County Harrison
The surface of tract is owned in fee by _____
G. G. Chidester
Address 634 Locust Ave., Clarksburg, WV
Mineral rights are owned by Amalachian Royalties
Address Clarksburg, WV
Drilling Commenced Feb. 25, 1980
Drilling Completed Mar. 25, 1980
Initial open flow _____ cu. ft. _____ bbls.
Final production No Test cu. ft. per day _____ bbls.
Well open _____ hrs. before test NT RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8			
7	1283	1283	
5 1/2			
4 1/2	1827	1827	100 sks.
3			
2			
Liners Used			

Well treatment details:

Well acidized with 500 gal. acid. Perforations: 1611-18 w/14 holes.

Attach copy of cementing record.

Pulled 1288' of 5 1/2" casing and cleaned out. Ran 1827' of 4 1/2" casing, perforated and acidized Gantz sand.

Coal was encountered at Below coal Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Gantz Depth 1611-18

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Dunkard			340	430		
Salt Sand			730	995		
Marton			1087	1100		
Injun			1275	1369		
Gantz			1604	1619		
Gantz			1650	1664		
50'			1715	1722		
50'			1724	1745		
30'			1810	1820		
Total Depth				1908		

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JUN 18 1980

OIL & GAS DIVISION
DEPT. OF MINES

Consolidated Gas Supply Corp.
445 West Main Street
Clarksburg, West Virginia 26301

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WV Department of Environmental Protection
12/15/2017

* Indicates Electric Log tops in the remarks section.

(over)

47-033-00099#

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

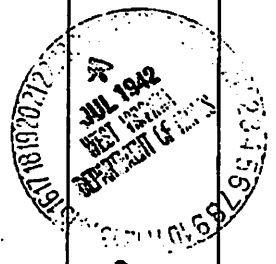
Permit No. Max - 99

Oil or Gas Well Gas

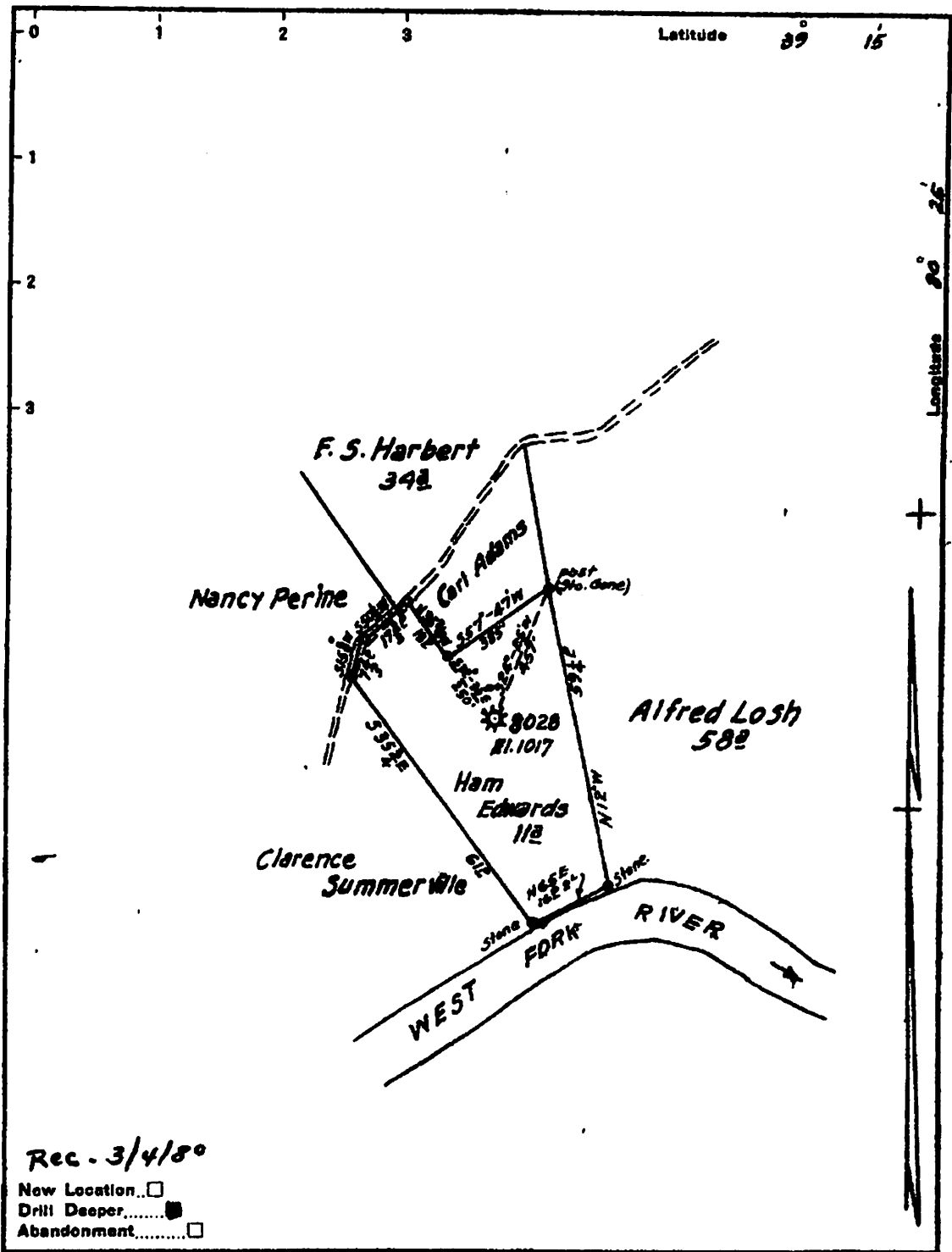
Company <u>Hope Natural Gas Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>445 West Main St. Clarksburg W. Va.</u>	Size			Kind of Packer
Farm <u>Sam Edwards</u> Acres <u>11</u>	16			
Location (waters)	18			
Well No. <u>8022</u> Elev. <u>1017</u>	10	<u>141</u>	<u>Pulled</u>	Size of
District <u>Union</u> County <u>Harrison</u>	8 1/2	<u>967</u>	<u>Pulled</u>	Depth set
The surface of tract is owned in fee by	6 1/2	<u>1283</u>	<u>1283</u>	
Address	5 3/16			Perf. top
Mineral rights are owned by	3	<u>1740</u>	<u>Pulled</u>	Perf. bottom
Address	2			Perf. top
Drilling commenced <u>7/24/1909</u>	Liners Used			Perf. bottom
Drilling completed <u>8/14/1909, Deeper 4/20/18</u>				
Date Shot <u>Not shot</u> From <u> </u> To <u> </u>				
With				
Open Flow <u>/10ths Water in</u> <u> </u> Inch				
<u>/10ths Merc. in</u> <u> </u> Inch				
Volume <u> </u> Cu. Ft.	CASING CEMENTED <u> </u> SIZE <u> </u> No. Ft. <u> </u> Date <u> </u>			
Rock Pressure <u> </u> lbs <u> </u> hrs.	<u>Not cemented</u>			
Oil <u> </u> bbls, 1st 24 hrs.	COAL WAS ENCOUNTERED AT <u> </u> FEET <u> </u> INCHES			
Fresh water <u>None recorded</u> feet <u> </u> feet	<u>Below Coal</u>			
Salt water <u>None recorded</u> feet <u> </u> feet	<u> </u> FEET <u> </u> INCHES <u> </u> FEET <u> </u> INCHES			
	<u> </u> FEET <u> </u> INCHES <u> </u> FEET <u> </u> INCHES			

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Little Dunkard			340	360			
Big Dunkard			415	480			
Gas Sand			620	676			
1st Salt Sand			730	780			
2nd Salt Sand			885	995			
Laxon Sand			1087	1100			
Little Lime			1190	1211			
Pencil C ave			1211	1223			
Big Lime			1223	1275			
Big Injun			1275	1369	Gas	1294- 1300	
Gantz			1604	1619	as	1609	
Fifty Foot			1660	1664			
Thirty Foot			1715	1722	Gas	1717- 1722	
Total Depth				1724			

TO BE DRILLED DEEPER



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Rec. 3/4/80

New Location...
 Drill Deeper...
 Abandonment...

Company Hope Natural Gas Co.
 Address Clarksburg, W. Va.
 Farm Ham Edwards
 Tract _____ Acres 11 Lease No. 52825
 Well (Farm) No. 1 Serial No. 8028
 Elevation (Spirit Level) 1017
 Quadrangle Weston
 County Harrison District Union
 Engineer Wm. Lawrence
 Engineer's Registration No. 900
 File No. _____ Drawing No. _____
 Date July 21, 1942 Scale 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. HAR-99-Rec D

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing. 47-033

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 2/15/2017

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
8028

3) API Well No.: 47 - 033 - 00099

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

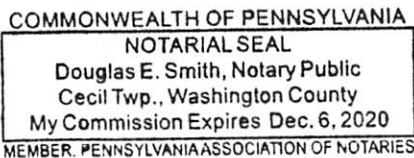
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>MICHAEL F & CECILIA DAUGHERTY</u>	Name <u>N/A</u>
Address <u>7201 GOOD HOPE PIKE</u>	Address _____
<u>LOST CREEK WV 26385</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration <u> </u>
Address _____	Name <u>Gore Corporation</u>
_____	Address <u>P.O. Box 2101</u>
(c) Name _____	<u>Clarksburg, WV 26302</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name <u>N/A</u>
<u>Buckhannon WV 26201</u>	Address _____
Telephone <u>304-389-7583</u>	_____

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: Raymond Hoon *[Signature]*
 Its: Permitting Supervisor
 Address 1000 Consol Energy Drive
Canonsburg, PA 15370
 Telephone 724-485-3540

Subscribed and sworn before me this 19th day of October, 2017
Douglas E. Smith Notary Public
 My Commission Expires 12-6-2020

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 WV Department of
 Environmental Protection

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 depprivacyoffier@wv.gov.

12/15/2017

WW-9
(5/16)

API Number 47 - 033 - 00099
Operator's Well No. _____

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

Operator Name Consol Gas Company OP Code 494495754

Watershed (HUC 10) West Fork Quadrangle West Milford

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)

*S.D.W.
11/11/2017*

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 *Raymond Hoon*

Company Official (Typed Name) Raymond Hoon

Company Official Title Permitting Supervisor

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Environmental Protection

Subscribed and sworn before me this 19th day of October, 20 17

Douglas E. Smith Notary Public

My commission expires 12-6-2020

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Douglas E. Smith, Notary Public
Cecil Twp., Washington County
My Commission Expires Dec. 6, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

12/15/2017

Operator's Well No. _____

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

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: _____

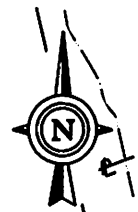
Title: COG Inspector

Date: 11/11/2017

Field Reviewed? () Yes (X) No

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THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL.
THE ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD.
STONE WILL BE ADDED WHERE NECESSARY.



17-20- 385-0084-0000-0000
ADAMS ROBERT

17-20- 385-0106-0000-0000
SUTTON JOHN STEPHEN

17-20- 385-0082-0000-0000
WAGONER KAREN LEA

17-20- 385-0105-0001-0000
ADAMS ROBERT E

MILFORD STREET
(US-19)

17-20- 385-0105-0000-0000
PALMER PHYLLIS J

ACCESS ROAD
ENTRANCE

UNT TO
WEST FORK RIVER

UNT TO
WEST FORK RIVER

EXISTING EDWARDS WELL
ACCESS ROAD
(TYP. WIDTH: 8')

ACCESS ROAD 8' WIDTH
0% TO -15%, -357 L.F.

17-20- 405-0009-0001-0000
CAMPBELL SHARON K &

CATHODIC PROTECTION
TEST HEAD

EXISTING
GAS METERS (2)

LOCATION IN MEADOW

PROPOSED
PAD EXPANSION

EDWARDS
WELL #8028

UNT TO
WEST FORK RIVER

17-20- 405-0009-0002-0000
DAUGHERTY MICHAEL F & CECILIA

17-20- 405-0008-0000-0000
DETAMORE LARRY W & DOROTHY L

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DRAWINGS TO ACCOMPANY FORM W-99	
CONSOL GAS COMPANY	
1000 CONSOL ENERGY DRIVE	
CANONSBURG, PA 15317	
WATERSHED: WEST FORK	
DISTRICT: UNION	COUNTY: HARRISON
QUADRANGLE: WEST MILFORD WELL NO.: 8028	
DATE: 9/18/2017	

SCALE: 0 100 ft.

K:\CNX Waynesburg\1716048 - Edwards Well Plug\Plans\SITE PLANE\Edwards Site Plan.dgn
10:19:14 AM
9/28/2017
1:100

12/15/2017

September 26, 2017

DRIVING DIRECTIONS FOR 8028

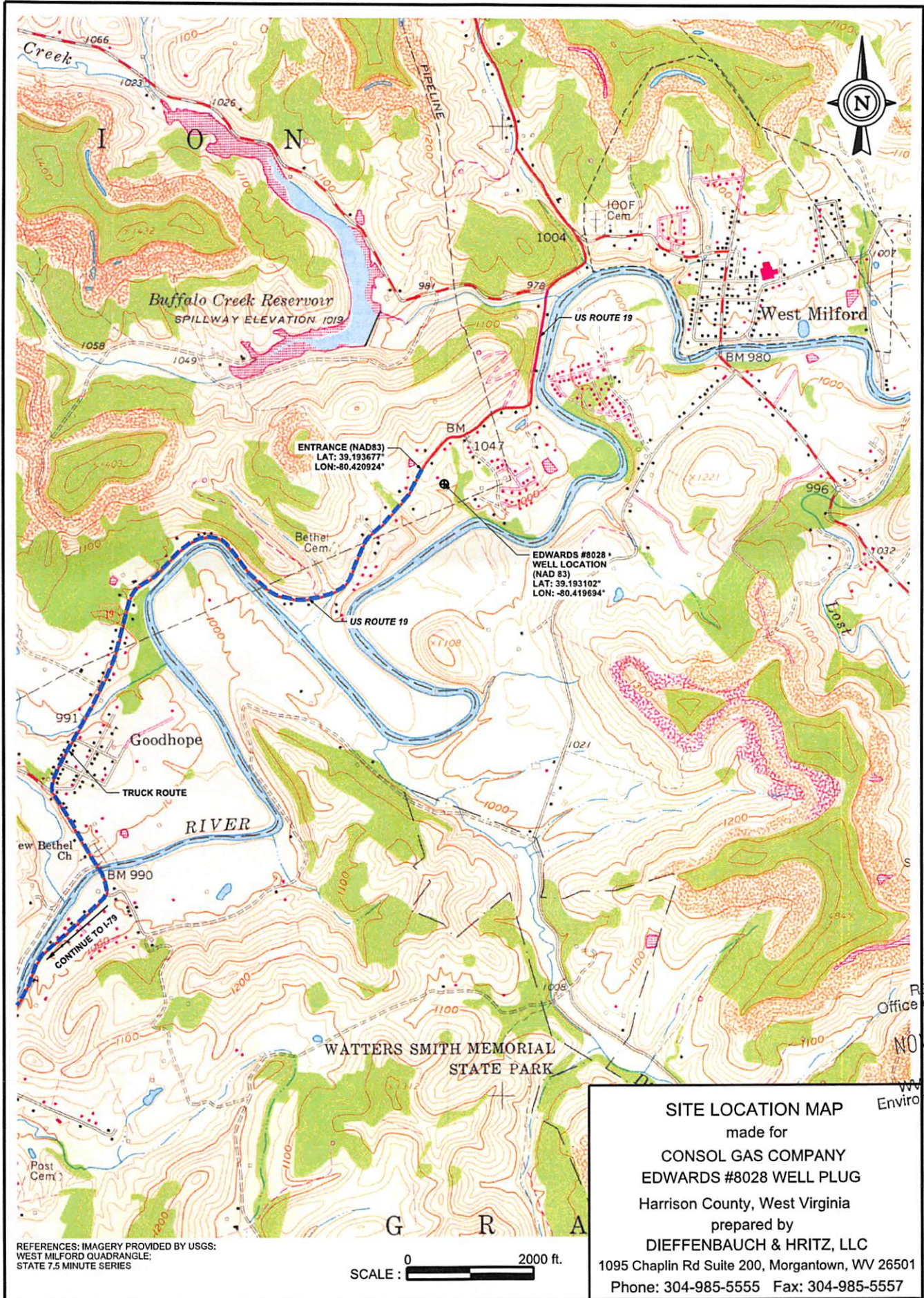
Edwards Well Site

From I-79 use exit 110 toward WV-270/Lost Creek. Turn right onto Lost Creek Road and continue for 0.9 miles. Turn right onto Johnstown Rd/E Main St. and continue straight onto WV-270 W and follow 5.0 miles to US-19. Turn left onto US-19 South and follow for 1.0 mile. Well site access is on the left.

Nearest Fire Station: West Milford Volunteer Fire – West Milford, WV

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K:\CNX Waynesburg\1716048 - Edwards Well Plug\Common\SITE LOCATION MAP.dgn
10/5/2017 5:14:44 PM

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SITE LOCATION MAP
made for
CONSOL GAS COMPANY
EDWARDS #8028 WELL PLUG
Harrison County, West Virginia
prepared by
DIEFFENBAUCH & HRITZ, LLC
1095 Chaplin Rd Suite 200, Morgantown, WV 26501
Phone: 304-985-5555 Fax: 304-985-5557

12/15/2017

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-033-00099 WELL NO.: 8028

FARM NAME: Edwards

RESPONSIBLE PARTY NAME: Raymond Hoon / CONSOL GAS COMPANY

COUNTY: Harrison DISTRICT: Union

QUADRANGLE: West Milford

SURFACE OWNER: MICHAEL F & CECILIA DAUGHERTY

ROYALTY OWNER: APPALACHIAN ROYALTIES

UTM GPS NORTHING: 4338366.014 (1026.3')

UTM GPS EASTING: 550112.979 GPS ELEVATION: 312.9m

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

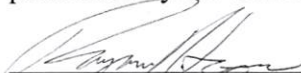
Real-Time Differential

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.


Signature

Permitting Supervisor

Title

10-19-17

Date

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