



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, November 29, 2017
WELL WORK PERMIT
Vertical / Plugging

CONSOL GAS COMPANY
1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for 2408
47-007-01249-00-00

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: 2408
Farm Name: NICHOLSON, W. A.
U.S. WELL NUMBER: 47-007-01249-00-00
Vertical / Plugging
Date Issued: 11/29/2017

Promoting a healthy environment.

12/01/2017

R

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. 2408
3) API Well No. 47-007 - 01249

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 ____/ Shallowx

5) Location: Elevation 252.7 m = 829.06824ft Watershed Little Kanawah
District Gilmer County Braxton Quadrangle Burnsville

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 Danny Mullins Name Coastal Drilling East LLC
Address 220 Jack Acres Rd 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:

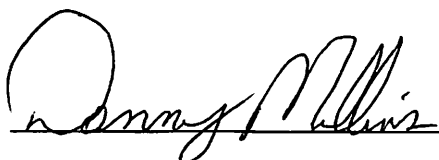
See attached.

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OCT 31 2017

WV Department of
Environmental Protection

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

Work order approved by inspector  Date 10-23-17

Plugging Work Order for Permit 47-007-01249**CNX Gas – Nicholson 2408****TD-2358'****Elevation-****Original Drill/Completion-12/11/1911**

1. Install control head.
2. Check TD 2358' Note-well records indicate 3" was pulled and 5-1/2" ran to 1764', shot hole below 5-1/2"
3. Load hole with gel for well control as necessary.
4. TIH workstring and set bottom cement plug from attainable TD to bottom of 5-1/2" casing shoe. ~1750'
5. Attempt to pull 5-1/2" casing
 - If 5-1/2 pulls free, remove and proceed to step 7.
 - If unable to pull, run bond log.
 - Perforate 5-1/2" casing 4 spf every 100' from 1750' to bottom of 7" casing. ~1900' or 1800'.
6. Cut 5-1/2" casing at 1700' and attempt to pull/remove.
 - ★ • If unable to pull, perforate 5-1/2" casing w/4spf every 100' to surface. Go to step 8.
7. If 5-1/2" casing is removed, then perforate 7" casing from 5-1/2" casing cut w/4spf every 100' to surface.
8. TIH with workstring to TOC
9. CTS in 500' lifts.
10. Install 6" x 14' monument (10' below grade, 4' above grade) API 47-007-01249

Work Order approved by Inspector



Date: 10-23-17

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

★ PERFORATE THROUGH 5 1/2" & REMAINING 7" CASING W/4SPF EVERY 100' TO SURFACE.

JMM

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12/01/2017

Well No. 2408

Hope Natural Gas Company

REPAIR RECORD

Gilmer

District

4700701249P

Farm Name W. A. Nicholson

N. S 41 E W 6

Date First Work Done May 26, 1947

Nature of Work Road

Commenced:

Completed:

Cleaning Out May 26, 1947

Cleaning Out July 8, 1947

Drilling Deeper

Drilling Deeper

Abandoning

Abandoning

CASING AND TUBING RECORD

Size	Before Repairs		Pulled		Put in Well		After Repairs		Size
	Tally	Steel Line	Tally	Steel Line	Tally	Steel Line	Tally	Steel Line	
7"	about 1800' (82-1/2)	1800'	None		none		about 1800' (82-1/2)	1800'	7"
5-1/2"	None		None		1764'	1751'	1764'	1751'	5-1/2"
3"	2500'		2500ft		None		None		

SHOOTING RECORD (Show if Open Shot or Tamped Shot)

Date	Charts	Top of Shell	Bottom of Shell	Diameter	Sand	TEST BEFORE SHOT			TEST AFTER SHOT			Test Taken After Shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
6-13-47	40	2251	2266	4-4 1/2	Gordon	12 1/2	10 M	1"	60/10 M	1"	3 days	Marietta Tor. Co.	
			Stone tamped			46,000			215,100				

RECORD OF ANY DEEPER DRILLING

Formation	Top	Bottom	Oil at	Gas at
Commenced drilling at depth of	No deeper Dry.			
Note: Original record incomplete				
Gas in Injun Sand located at 1826 Ft. ✓				
Gas in Gordon Sand located at 2258 Ft. ✓				
Corrected from MESSAGES - Changes approved by Mr. White via Phone.				
Total Depth	2358 ✓ 2490			

PACKER RECORD

Size	Kind	Set At (String Line)
5-1/2X7	Disc Wall	1751
PACKER PULLED		
Size	None	Kind
OIL PRODUCTION		
Estimated	bbl. per day	Sand
CLARKSBURG OFFICE ENTRIES		
Repair Card	W. A. Nicholson 7/30/47	
Wall Card	✓ " "	
Mane Book	✓ " "	
Wall Map	H.S. AUG 19 1947	
Map Sheets	AUG 21 1947	

VOLUME AND PRESSURE REPORT

BEFORE CLEANING OUT (Take Test When Ready to Clean Out)

Date of Test	Flow Meter or Open Flow	PITOT TUBE			CUBIC FEET	Sands Gas From	Time Blows
		Reading	Liquid Used	Opening			
5-26-47	FM	27/10	Mercury	3/4"	81.300	Gordon	

AFTER CLEANING OUT

Date of Test	Flow Meter or Open Flow	PITOT TUBE			CUBIC FEET	Sands Gas From	Time Blows
		Reading	Liquid Used	Opening			
7-8-47	FM	60/10	Mercury	1"	215.100	Gordon & Injun	6 Hr.

AFTER DRILLING DEEPER

Date of Test	Flow Meter or Open Flow	PITOT TUBE			CUBIC FEET	Sands Gas From	Time Blows
		Reading	Liquid Used	Opening			

PRESSURE TEST

Date of Test	Opening	1 Min.	2 Min.	3 Min.	4 Min.	5 Min.	6 Min.	7 Min.	8 Min.	9 Min.	10 Min.	30 Min.	60 Min.	Hrs. Read
7-8-47	5 1/2" Casing	5	8	12	14	16	17	18	19	20	21	22	24	24
	" Tubing													

Remarks: Well cleaned out and Gordon shot. String 5-1/2" Casing Run

ORIGINAL-For Land Dept. Only

District Superintendent

12/01/2017

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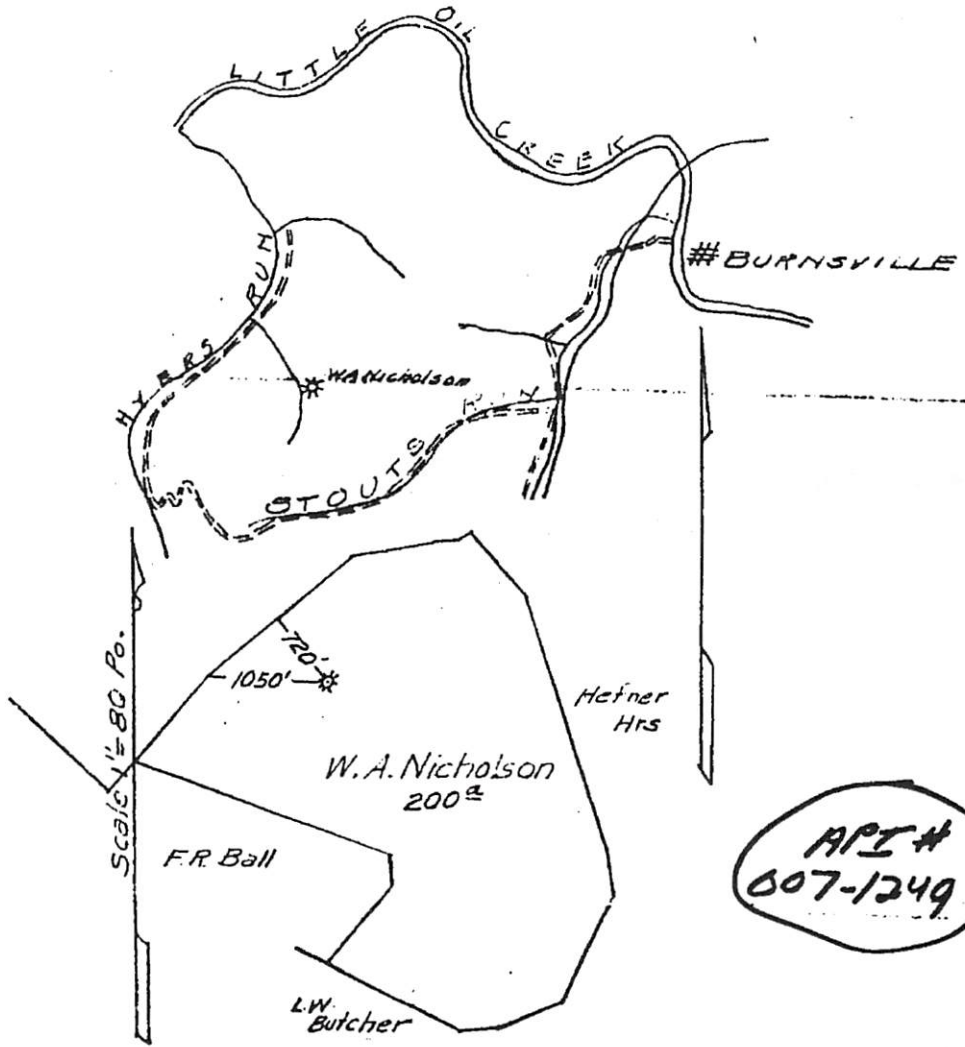
OCT 31 2017

WV Department of Environmental Protection

HOPE NATURAL GAS COMPANY.

LOCATION FOR WELL No. 2408

On *W.A. Nicholson* Farm, on waters of *Hyers Run* DISTRICT
Salt Spring District, *Putnam* County, West Virginia.
 Lease No. *24264* Acres *200* N S *42* E W *6*
 Scale, *1/2* inch equals *one mile* Sent to *J.P. McInteer* 11-27-1911
 Location *1*



RESERVE

SPECIAL INSTRUCTIONS *Per plat from DeWitt Jones & Co*
No. 24264
 Location marked *Meas* Dec. 6, 1911 by *J.P. McInteer* as per plat, except as noted. On field map -
 Returned to Pittsburgh Dec. 9 - 1911

Location changed on account of _____
 Authorized by _____ Date _____ Signed by _____

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 WV Department of
 Environmental Protection

1) Date: _____
2) Operator's Well Number
2408

3) API Well No.: 47 - 007 - 01249

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

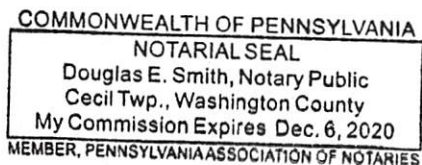
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>RICHARD L HEAVNER</u>	Name <u>N/A</u>
Address <u>1504 BERRY RUN RD</u>	Address <u>RECEIVED</u>
<u>FLEMINGTON WV 26347</u>	<u>Office of Oil and Gas</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Mike Ross, Inc.</u>
	Address <u>RR 5 Box 29</u>
	<u>Buckhannon, WV 26201</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>220 Jack Acres Rd</u>	Name <u>N/A</u>
<u>Buckhannon WV 26201</u>	Address _____
Telephone <u>304-932-6844</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
 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

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.

WW-9
(5/16)

API Number 47 - 007 - 01249
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) Little Kanawah Quadrangle Burnsville

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)

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? _____

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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

Subscribed and sworn before me this 19th day of October, 2017

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

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.

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Plan Approved by: *[Signature]*

WV Department of
Environmental Protection

Comments: _____

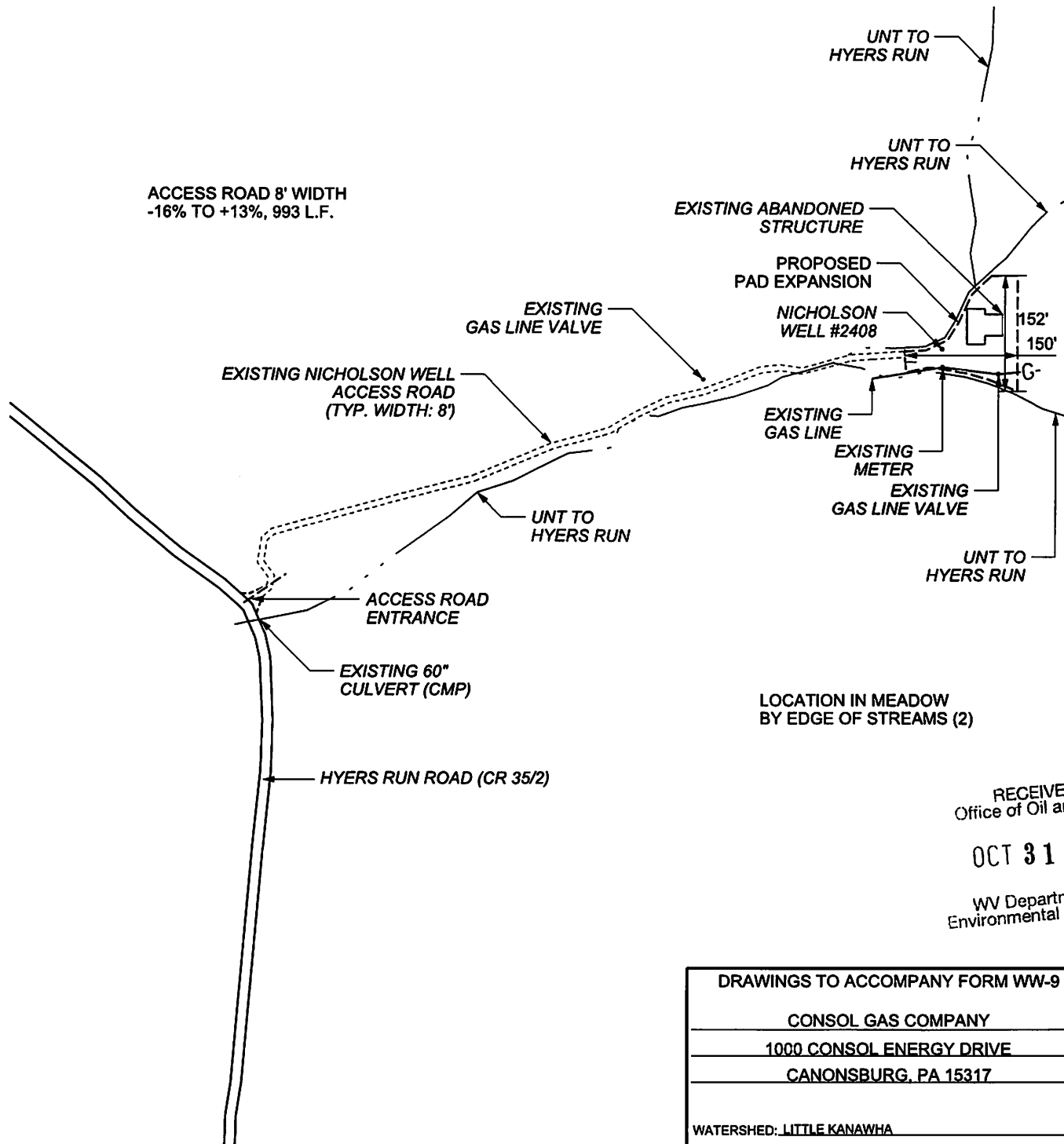
Title: _____ Date: _____

Field Reviewed? () Yes () No

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.



ACCESS ROAD 8' WIDTH
 -16% TO +13%, 993 L.F.



LOCATION IN MEADOW
 BY EDGE OF STREAMS (2)

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DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY

1000 CONSOL ENERGY DRIVE

CANONSBURG, PA 15317

WATERSHED: LITTLE KANAWHA

DISTRICT: GILMER COUNTY: BRAXTON

QUADRANGLE: BURNSVILLE WELL NO.: 2408

DATE: 9/18/2017

12/01/2017

SCALE: 0 200 ft.

1:200 9/19/2017 8:01:13 AM K:\CNX Waynesburg\1716026 - Nicholson 2408 Well Plug\Plans\SITE PLAN\Nicholson Site Plan.dgn

September 7, 2017

DIRECTIONS TO NICHOLSON 2408

Nicholson 2408 Well Site

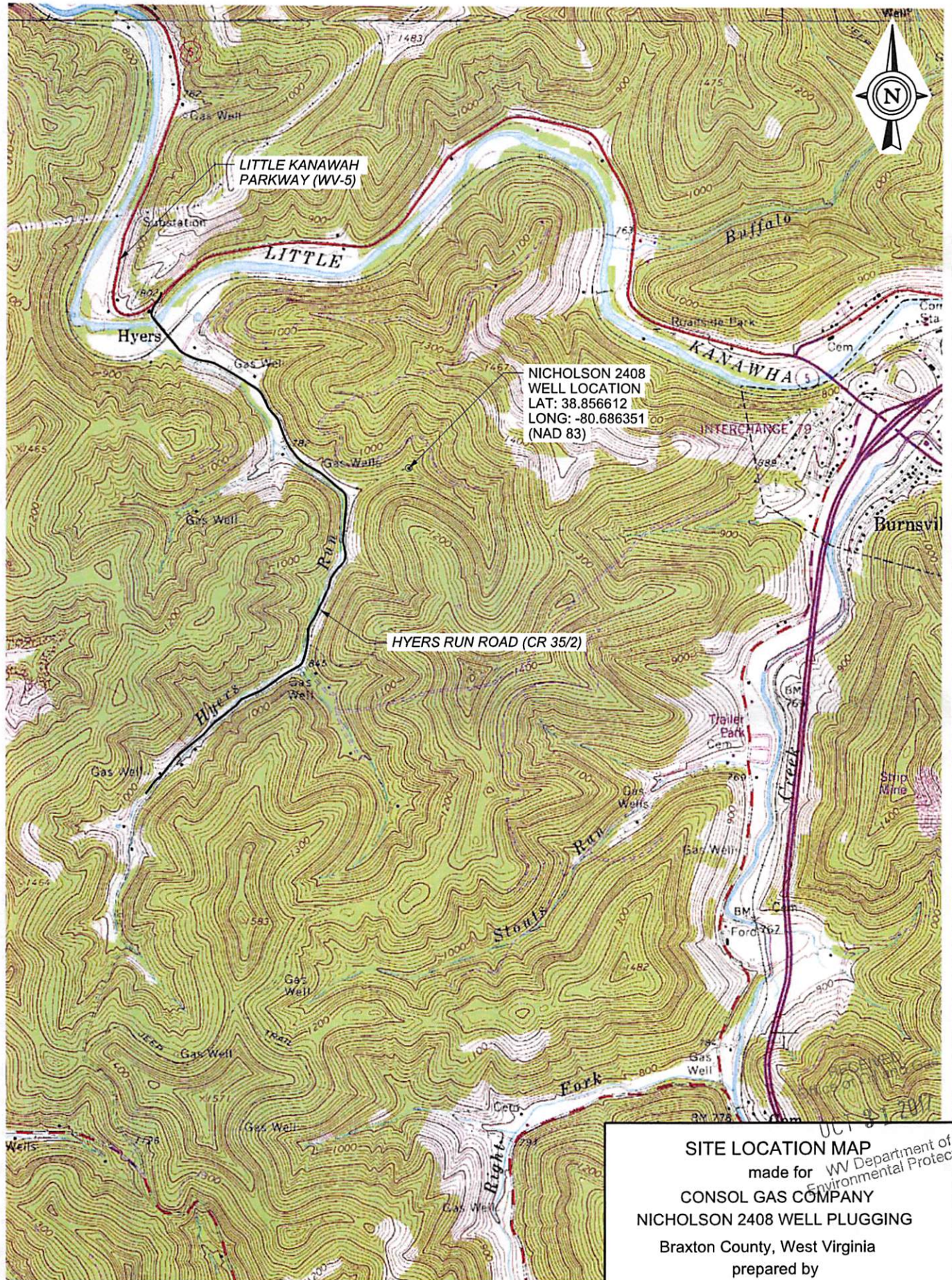
From the 179 Jennings Randolph Highway, head west on 5th street/Little Kanawah Parkway (WV-5). Follow WV-5 for approximately 2.75 miles to turn left on Hyers Run Road (CR-35/2). Follow CR-35/2 for 0.8 miles and turn left onto well access road.

Nearest Fire Station: Burnsville Fire Department

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NICHOLSON 2408
WELL LOCATION
LAT: 38.856612
LONG: -80.686351
(NAD 83)

DM

HYERS RUN ROAD (CR 35/2)

LITTLE KANAWAH
PARKWAY (WV-5)

SITE LOCATION MAP
made for WV Department of
Environmental Protection
CONSOL GAS COMPANY
NICHOLSON 2408 WELL PLUGGING
Braxton County, West Virginia
prepared by
DIEFFENBAUCH & HRITZ, LLC
1095 Chaplin Rd Suite 200, Morgantown, WV 26501
Phone: 304-985-5555 Fax: 304-985-5557

SCALE: 0 2000 ft.

REFERENCES: IMAGERY PROVIDED BY USGS;
BURNSVILLE & GILMER QUADRANGLES;
WEST VIRGINIA 7.5 MINUTE SERIES

K:\CNX Waynesburg\1716026 - Nicholson 2408 Well Plug\Common\SITE LOCATION MAP.dgn
9/19/2017 9:09:22 AM 1:2000

12/01/2017

WW-7
8-30-06



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

API: 47-007-01249 WELL NO.: 2408

FARM NAME: Heavner

RESPONSIBLE PARTY NAME: Raymond Hoon

COUNTY: Braxton DISTRICT: Gilmer SALT LICK

QUADRANGLE: Burnsville

SURFACE OWNER: RICHARD L HEAVNER

ROYALTY OWNER: N/A

UTM GPS NORTHING: 4300911.591

UTM GPS EASTING: 527214.178 GPS ELEVATION: 252.7 = 829.06 ft

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 ____

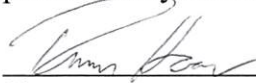
Real-Time Differential ____

Mapping Grade GPS X: Post Processed Differential ____

Real-Time Differential X

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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