



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

Monday, December 18, 2017
WELL WORK PERMIT
Vertical / Plugging

CONSOL GAS COMPANY
1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for 12239
47-077-00184-00-00

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: 12239
Farm Name: BORN, C. M.
U.S. WELL NUMBER: 47-077-00184-00-00
Vertical / Plugging
Date Issued: 12/18/2017

Promoting a healthy environment.

12/22/2017

P

47 07700184P

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.

12/22/2017

4707700184P

- 1) Date _____, 2017
- 2) Operator's
Well No. 7137
- 3) API Well No. 47-077 - 00184

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 ____/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production or Underground storage ____) Deep ____/ Shallow

5) Location: Elevation 564.602 METERS Watershed HEADWATERS DECKERS CREEK
District VALLEY County PRESTON Quadrangle MASONTOWN

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 Gayne J Knitowski Name Coastal Drilling East LLC
Address P.O. Box 108 Address 70 Gums Springs Road
Gormanian WV 26720 Morgantown, WV 26508

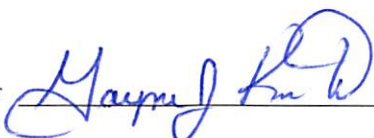
10) Work Order: The work order for the manner of plugging this well is as follows:
See attached.

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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 10/10/2017

12/22/2017

4707700184P

K.H. Born #7137

Laurel Run, Preston County, WV
Original Completion: 02/26/1977
API# 47-077-00184
Elevation = 1855'

Procedure:

1. Load Hole/Kill Well, Pump 6% gel if necessary
2. RIH with Bond Tool to verify TD, log out to verify 4 ½" TOC (4 1/2" Casing Float @ 7953')
3. TIH with 2 3/8" Workstring and load the well with 6% Gel
4. Pump Class A Cement Plug from TD to 4 ½" TOC (4 ½" TOC est. @ 7050')
5. Verify TOC
6. RIH Jet Cut/Collar Bust 4 ½" Casing above Bottom Hole Plug
7. Attempt to pull 4 ½" Casing *at min. 1/2 times string weight*
 - a. If unable to pull run bond long/free point and cut where free
8. TIH with 2 3/8" Workstring to 2100' and set Class A Cement Plug from 2100' to surface
9. Install monument with Well Name, API#, & Company Name. Monument must extend 30" min. above ground level and be 6" in diameter.

10. Reclaim site ASAP.

NOTE: All Cement plugs will be Class A Cement, All Spacers between wells will be 6% Gel, Any casing unable to be recovered will be perforated every 100' with 4 shots and 100' cement plugs will be set to cover all cut points.

If it becomes necessary to deviate from this method, approval from the WV DEP Oil & Gas Division will be obtained before proceeding.

Work Order approved by Inspector:

Mary J. Kuntz

Date: 10/19/2017

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47077001840

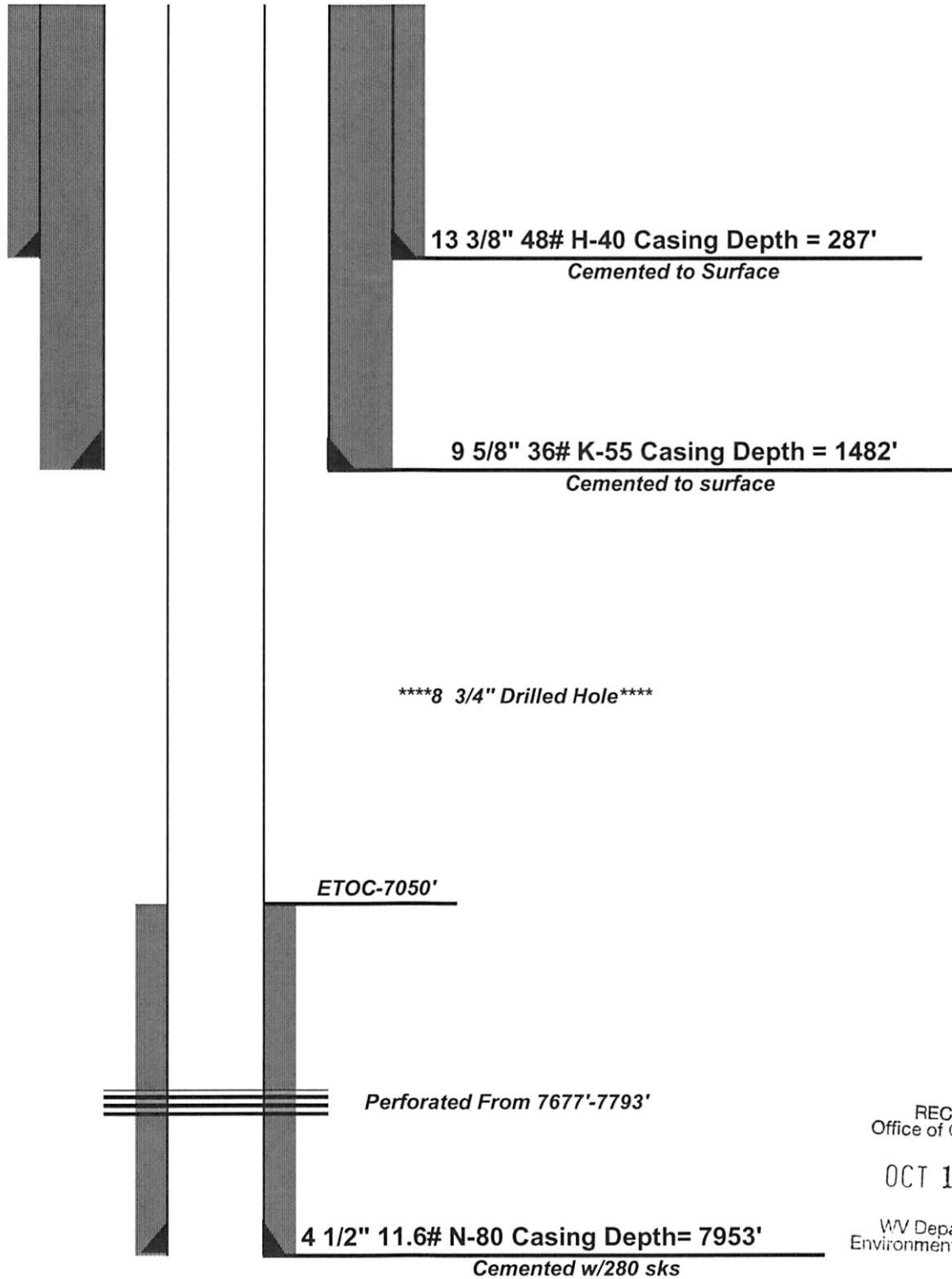
K.H. Born # 7137--Well#12239

Laurel Run, WV--Preston County

Original Completion : 02/26/1977

API # 47-077-00184

Elevation = 1855'



TD @ 7953

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4707700184P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

NOV 26 1977

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Quadrangle MASCOTOWN

Permit No. PRES-184

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

Company Consolidated Gas Supply Corporation

Address Clarksburg, W. Va.

Farm Carl M. Born Acres 40

Location (waters) Laurel Run

Well No. 12239 Elev. 1855'

District Valley County Preston

The surface of tract is owned in fee by Carl M. Born

Address Kingwood, W. Va.

Mineral rights are owned by Frank M. Synolt

Address Rt #1, Box 263, Reedsville

Drilling Commenced 2-5-77

Drilling Completed 2-26-77

Initial open flow Shov cu. ft. _____ bbls.

Final production 1.112 M cu. ft. per day _____ bbls.

Well open 1 hrs. before test 3300# RP.

Well treatment details:

Chert treated with 56,000# sand, 1000 bbl water and 10,500 gal acid(31.15%)

Perforations: 7793-7677' with 45 hole

Attach copy of cementing record.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sk.)
Size 20-16			
Cond. 13-90 ^{XX}	287'	287'	To surface
9 5/8	1182'	1182'	To surface
8 5/8			
7			
5 1/2			
4 1/2	7953'	7953'	280 bags
3			
2			
Liners Used			

Coal was encountered at None Feet _____ Inches _____
Fresh water 352' Feet _____ Salt Water None Feet _____
Producing Sand Chert Depth 7793 - 7677'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Shale			0	56		
Open Mine			56	60		
Sand			60	315		
Sand & Shale			315	771		
Big Lime			771	996		
Big Injum			996	1104		
Sand & Shale			1104	7244		
Tully Limestone			7244	7370		
Marcellus Shale			7370	7651		
ONONDAGA			7651	7665		
CHERT			7665	7841	Gas	Chert See Perfs
ORISKANY			7841	7914		
HELDERBERG			7914	7953		
Total Depth				7953'		

KBM 15' above G.L.

Consolidated Gas Supply Corporation
415 West Main Street
Clarksburg, W. Va.

* Indicates Electric Log tops in the remarks section.

(over)

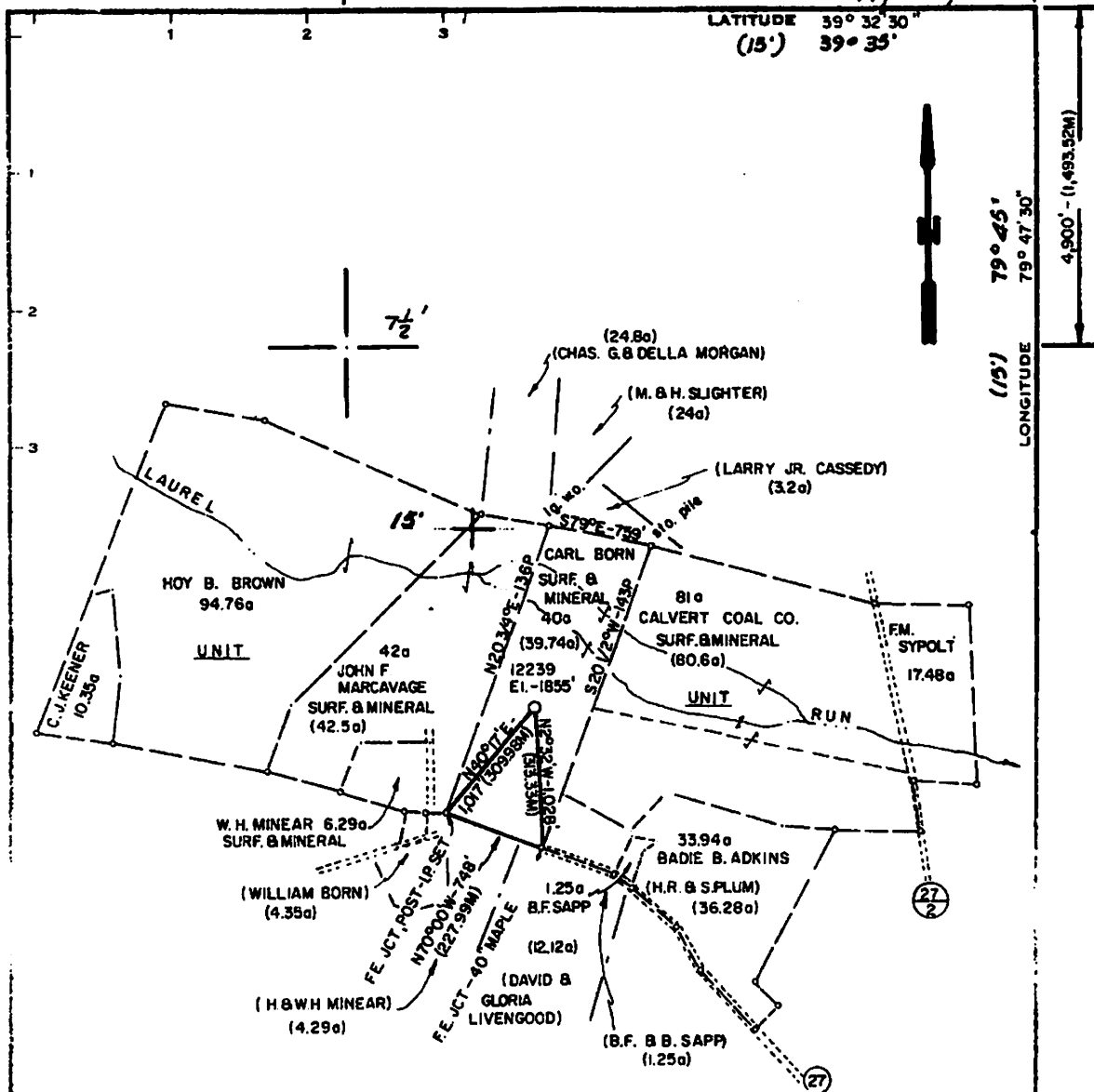
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47077-001840



Minimum Error of Closure: 1" IN 200'
 Source of Elevation: B.M. ROAD FORK EL.-1849'

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location
 Drill Deeper
 Abandonment

MAP SHEET 933-G-3 F.B. 1800 - PG 31-32

Company CONSOLIDATED GAS SUPPLY CORP.
 Address CLARKSBURG, W. VA
 Farm CARL BORN SURF. & MINERAL
 Tract _____ Acres 40 Lease No. G-136456
 Well (Farm) No. _____ Serial No. 12239
 Elevation (Spirit Level) 1855'
 Quadrangle MASONTOWN 7 1/2 MORGANTOWN 15'
 County PRESTON District VALLEY
 Engineer Danell M. Radcliffe
 Engineer's Registration No. L.L.S. 74
 File No. _____ Drawing No. _____
 Date 11-2-76 Scale 1" = 1,000'

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

WELL LOCATION MAP
 FILE NO. **PRES-184**

Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

Denotes one inch spaces on border line of original tracing.

47-077

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 WV Department of Environmental Protection

12/22/2017

4707700184P

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
7137

3) API Well No.: 47 - 077 - 00184

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>ALAN D & DORIS M BORN</u>	Name <u>N/A</u>
Address <u>5397 KINGWOOD PIKE</u>	Address _____
<u>REEDSVILLE WV 26547</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Patriot Mining Company c/o Ark Land Company</u>
_____	Address <u>One City Place Drive Suite 300</u>
_____	<u>St. Louis, MO 63141</u>
(c) Name _____	Name <u>ALAN D & DORIS M BORN</u>
Address _____	Address <u>5397 KINGWOOD PIKE</u>
_____	<u>REEDSVILLE WV 26547</u>
6) Inspector <u>Gayne J Knitowski</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 108</u>	Name <u>N/A</u>
<u>Gormanian WV 26720</u>	Address _____
Telephone <u>304-546-8171</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.

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	Well Operator <u>Consol Gas Company</u>
	By: <u>Sarah Weigand</u> <i>Sarah Weigand</i>
	Its: <u>Permitting Manager</u>
	Address <u>1000 Consol Energy Drive</u>
	<u>Canonsburg, PA 15370</u>
Telephone <u>724-485-3244</u>	

Subscribed and sworn before me this 28th day of September 2017
Lori L. Walker Notary Public
 My Commission Expires February 23, 2019

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OCT 12 2017

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.

12/22/2017

WW-9
(5/16)

API Number 47 - 6707700184P
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) HEADWATERS DECKERS CREEK Quadrangle MASONTOWN

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? _____

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 Sarah Weigand
Company Official (Typed Name) Sarah Weigand

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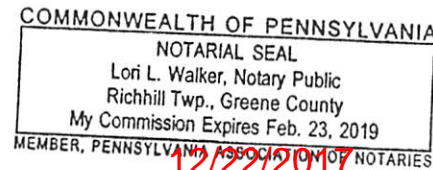
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Company Official Title Permitting Manager
Commonwealth of Pennsylvania County of Greene

WV Department of Environmental Protection

Subscribed and sworn before me this 28th day of September, 2017
Lori L Walker Notary Public

My commission expires February 23, 2019



12/22/2017

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:

Mary J. Kintner

Comments:

- Reclaim SITE ASAP
- Install soil erosion measures along access road and well site as needed

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WV Department of
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Title: Inspector

Date: 10/10/2017

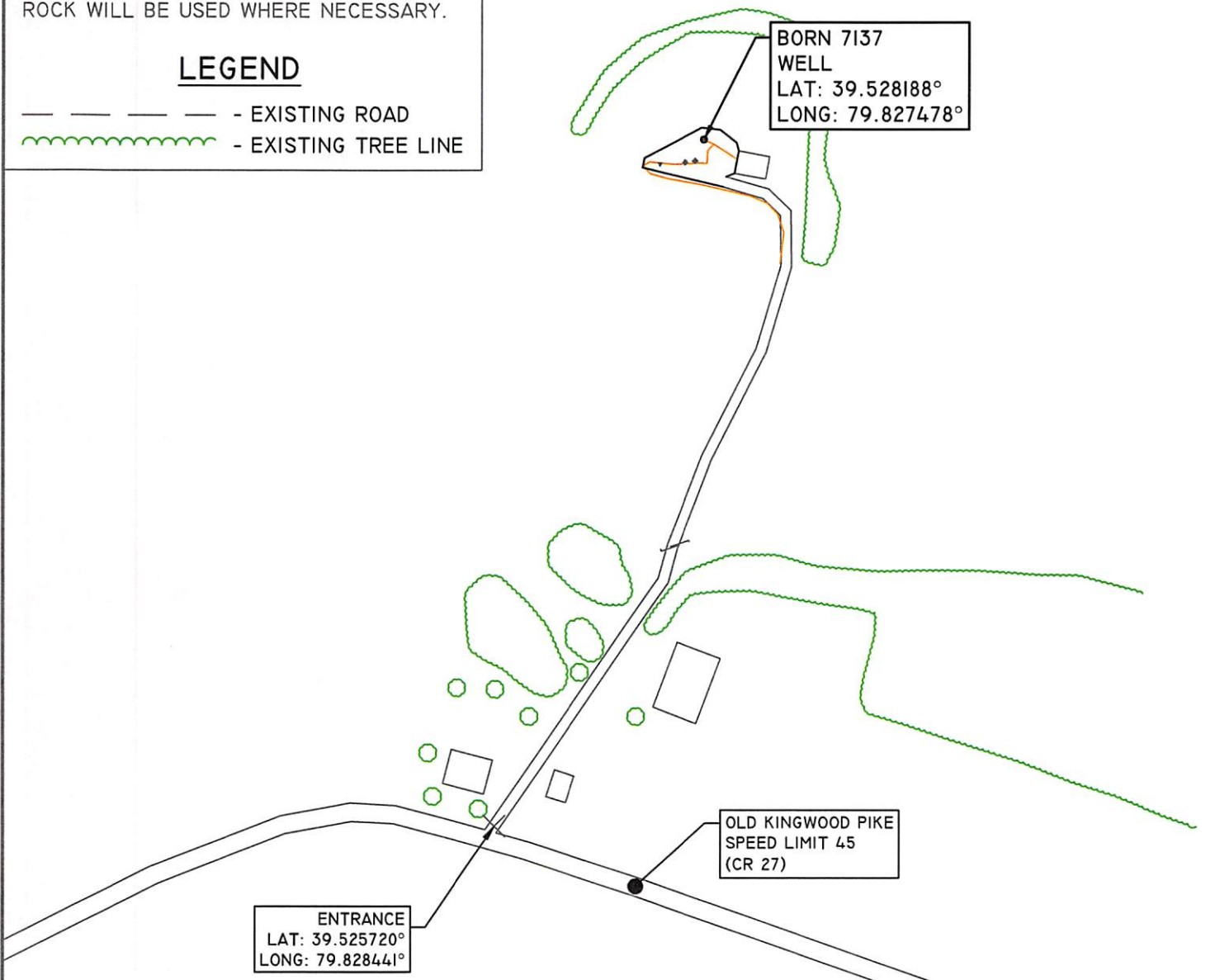
Field Reviewed? () Yes () No

4707700184P

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

LEGEND

- - - - - EXISTING ROAD
- ~~~~~ EXISTING TREE LINE



ENTRANCE
LAT: 39.525720°
LONG: 79.828441°

BORN 7137
WELL
LAT: 39.528188°
LONG: 79.827478°

OLD KINGWOOD PIKE
SPEED LIMIT 45
(CR 27)

DRAWINGS TO ACCOMPANY FORM WW-9 RECEIVED
Office of Oil and Gas

CONSOL GAS COMPANY

200 HALLAM ROAD

WASHINGTON, PA 15301

OCT 12 2017

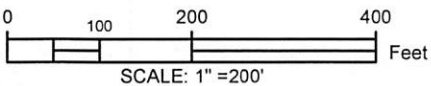
WV Department of
Environmental Protection

WATERSHED: HEADWATERS DECKERS CREEK

DISTRICT: VALLEY COUNTY: PRESTON

QUADRANGLE: MASONTOWN WELL NO: BORN 7137

DATE: 07/13/2017 PAGE 1 OF 4

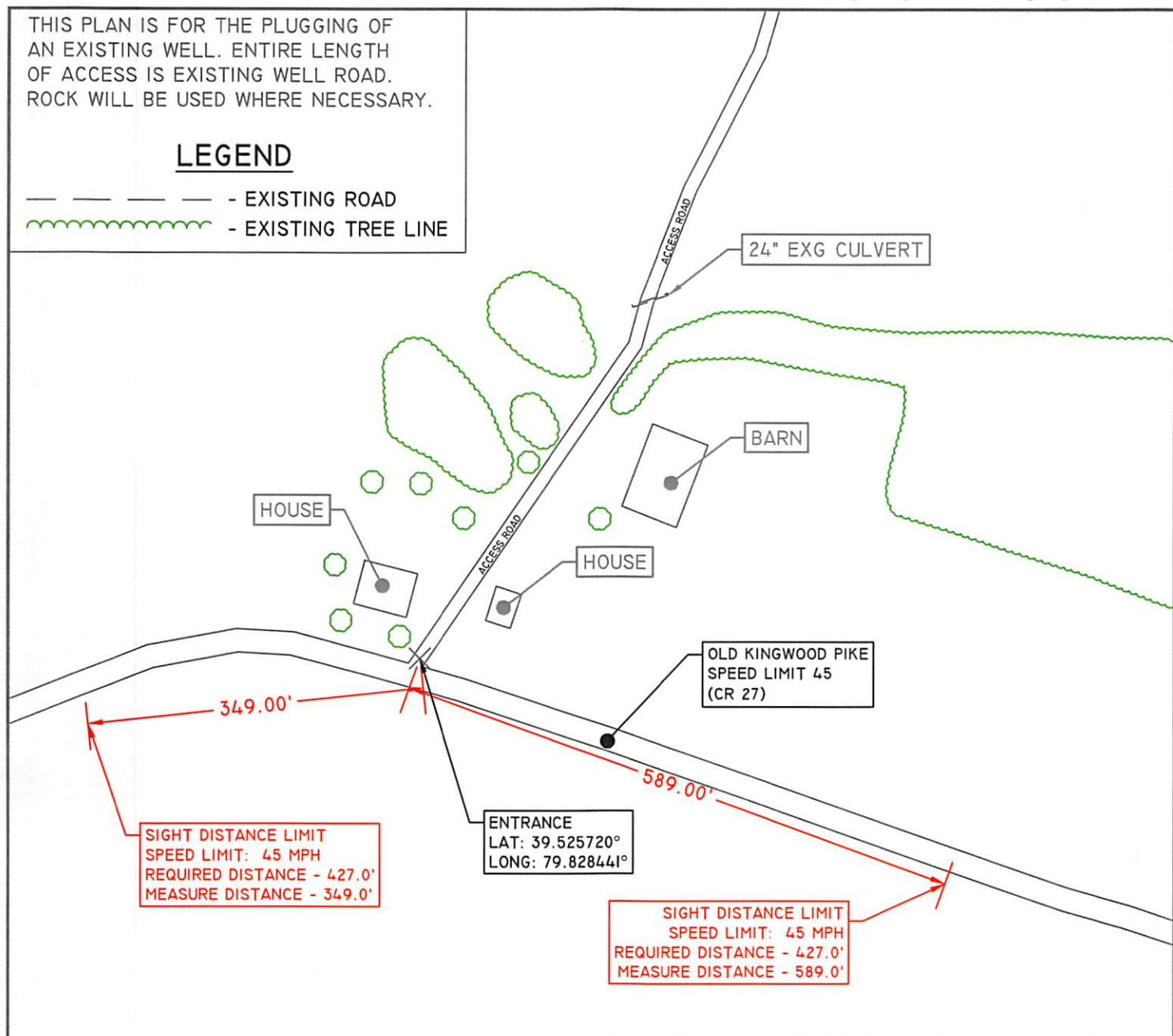


12/22/2017

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

LEGEND

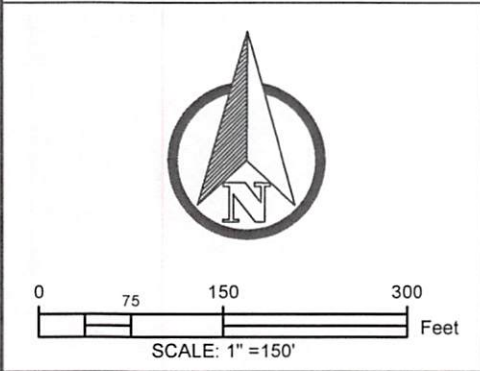
- — — — — - EXISTING ROAD
- ~~~~~ - EXISTING TREE LINE



SIGHT DISTANCE LIMIT
 SPEED LIMIT: 45 MPH
 REQUIRED DISTANCE - 427.0'
 MEASURE DISTANCE - 349.0'

ENTRANCE
 LAT: 39.525720°
 LONG: 79.828441°

SIGHT DISTANCE LIMIT
 SPEED LIMIT: 45 MPH
 REQUIRED DISTANCE - 427.0'
 MEASURE DISTANCE - 589.0'

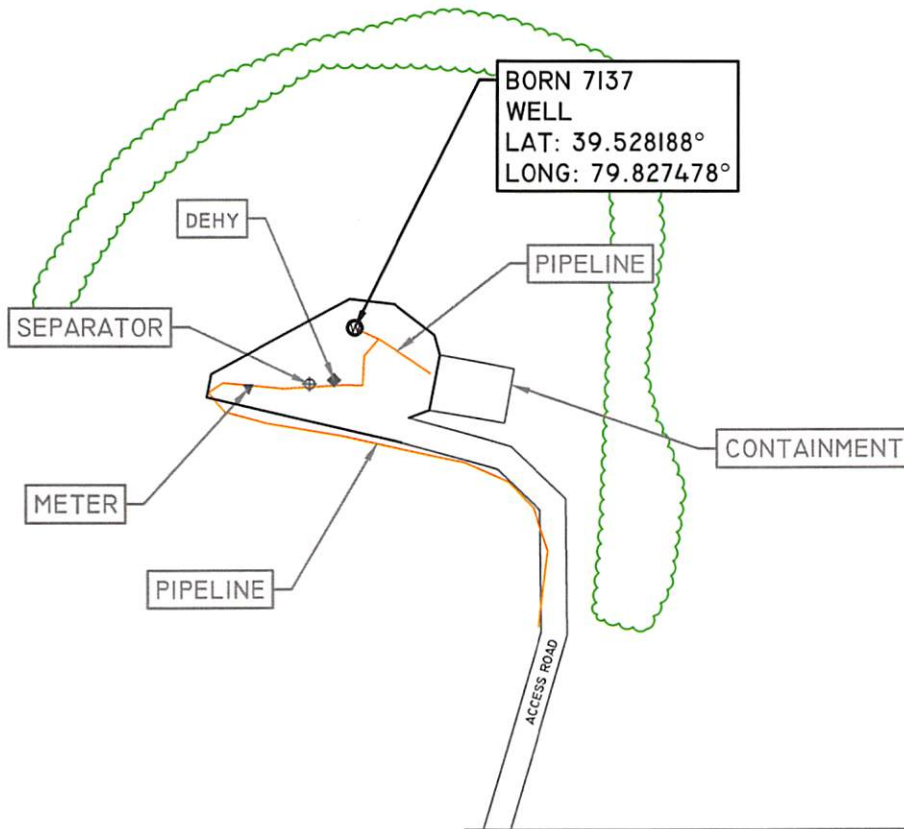


DRAWINGS TO ACCOMPANY FORM WW-9	
CONSOL GAS COMPANY	RECEIVED Office of Oil and Gas
200 HALLAM ROAD	OCT 12 2017
WASHINGTON, PA 15301	WV Department of Environmental Protection
WATERSHED: <u>HEADWATERS DECKERS CREEK</u>	
DISTRICT: <u>VALLEY</u>	COUNTY: <u>PRESTON</u>
QUADRANGLE: <u>MASONTOWN</u>	WELL NO: <u>BORN 7137</u>
DATE: <u>07/13/2017</u>	PAGE <u>2</u> OF <u>4</u>

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

LEGEND

- — — — — - EXISTING ROAD
- ~~~~~ - EXISTING TREE LINE



DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY

200 HALLAM ROAD

WASHINGTON, PA 15301

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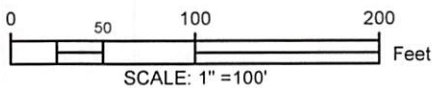
WV Department of
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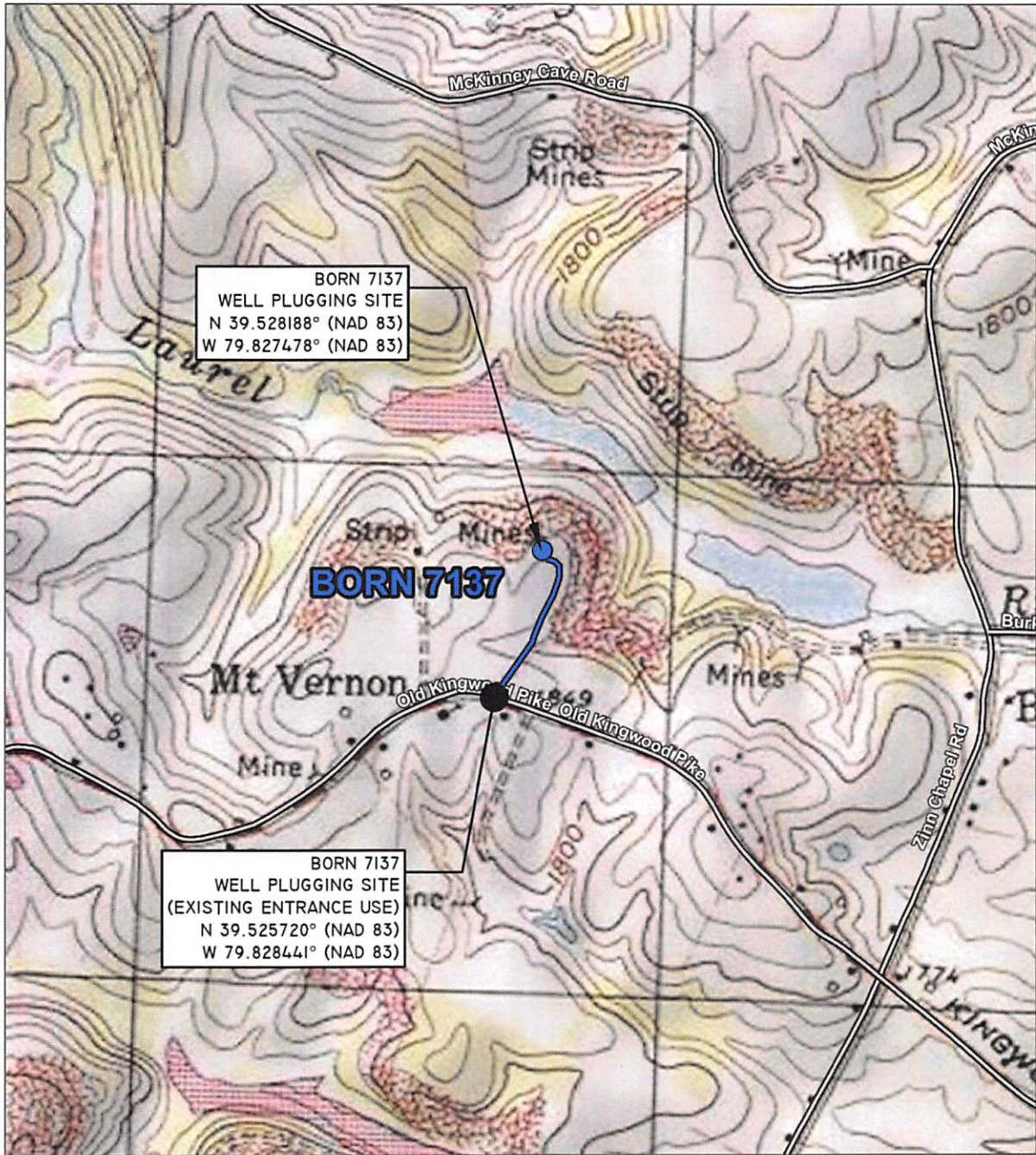
WATERSHED: HEADWATERS DECKERS CREEK

DISTRICT: VALLEY COUNTY: PRESTON

QUADRANGLE: MASONTOWN WELL NO: BORN 7137

DATE: 07/13/2017 PAGE 3 OF 4





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LOCATION MAP
MASONTOWN, WV 7.5M USGS QUADRANGLE
SCALE: 1"=1000'



Engineers and Land Surveyors
Woman Owned Small Business

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

LOCATION MAP
GAS WELL PLUGGING
BORN 7137 GAS WELL
VALLEY DISTRICT
PRESTON COUNTY, WV

CONSOL GAS COMPANY
200 HALLAM ROAD
WASHINGTON, PA 15301

DRAWN BY: LLF
CHECKED BY: WPF
DATE: 07/13/2017
SCALE: 1"=1000'
WATERSHED: HEADWATERS DECKERS CREEK
PAGE <u>4</u> OF <u>4</u>

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-077-00184 WELL NO.: 1737

FARM NAME: Born

RESPONSIBLE PARTY NAME: Sarah Weigand / CONSOL GAS COMPANY

COUNTY: Preston DISTRICT: Valley

QUADRANGLE: MASONTOWN

SURFACE OWNER: ALAN D & DORIS M BORN

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,376,049.157 METERS

UTM GPS EASTING: 600,772.903 METERS GPS ELEVATION: (1852')
564.602 METERS

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.

Sarah Weigand Permitting Manager
Signature Title

9/28/17
Date

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12/22/2017