



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 12230
47-077-00183-00-00

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: 12230
Farm Name: BORN, K. & B.
U.S. WELL NUMBER: 47-077-00183-00-00
Vertical / Plugging
Date Issued: 12/18/2017

Promoting a healthy environment.

12/22/2017

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 4707700183, 2017
2) Operator's
Well No. 7136
3) API Well No. 47-077 - 00183

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 541.873 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

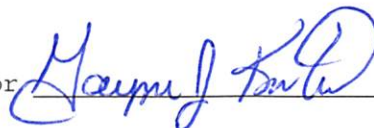
10) Work Order: The work order for the manner of plugging this well is as follows:
See attached.

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Office of Oil and Gas

OCT 12 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 10/10/2017

12/22/2017

K.H. Born #7136

Laurel Run, Preston County, WV
 Original Completion: 12/04/1976
 API# 47-077-00183
 Elevation = 1777'

Procedure:

1. Load Hole/Kill Well, Pump 6% gel if necessary
2. RIH with Bond Tool to verify TD, log out to verify 4 1/2" TOC (4 1/2" Casing Float @ 7824')
3. TIH with 2 3/8" Workstring and load the well with 6% Gel
4. Pump Class A Cement Plug from TD to 4 1/2" TOC (4 1/2" TOC est. @ 6930')
5. Verify TOC
6. RIH Jet Cut/Collar Bust 4 1/2" Casing above Bottom Hole Plug
7. Attempt to pull 4 1/2" 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 2000' and set Class A Cement Plug from 2000' 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 *7* 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 Knott* Date: *10/10/2017*

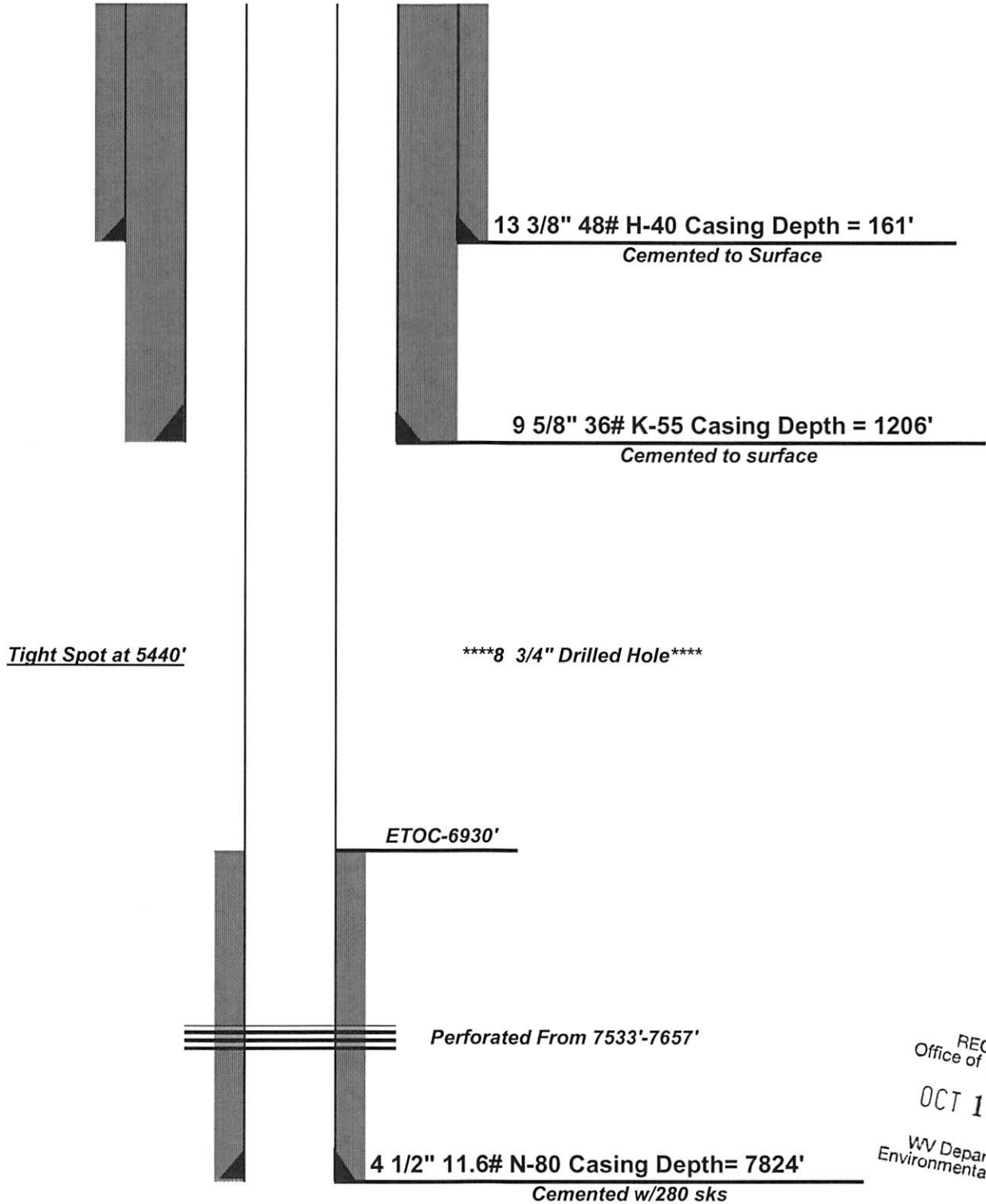
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12/22/2017

K.H. Born # 7136--Well #12230
Laurel Run, WV--Preston County

Original Completion : 12/4/1976
API # 47-077-00183
Elevation = 1777'

4707700183P



TD @ 7843

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12/22/2017



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

47077001830
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OCT 12 1977

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle MORGANTOWN
Permit No. PRES-183

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

Company Consolidated Gas Supply Corporation
Address Clarksburg, W. Va.
Farm K. H. Born Acres 5 1/4
Location (waters) Laurel Run
Well No. 12230 Elev. 1777'
District Valley County Preston
The surface of tract is owned in fee by R.R. Krynicki
Address Morgantown, W. Va.
Mineral rights are owned by K. H. Born
Address Readsville, W. Va.
Drilling Commenced 11-13-76
Drilling Completed 12-4-76
Initial open flow 6 M cu. ft. _____ bbls.
Final production 1,205 M cu. ft. per day _____ bbls.
Well open 4 hrs. before test. 2850# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-3/8"			
9 5/8	161	161	To surface
8 5/8	1206'	1206'	To surface
7			
5 1/2			
4 1/2	782 1/2'	782 1/2'	280 bags
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fractured Chert with 40,000# Sand, 11,400 gal acid and 1050 bbl water
Perforations: 7533-7657' 35 holes

Coal was encountered at 19 1/2 Feet 2 1/2 Inches
Fresh water 15' 19 1/2' Feet Salt Water None Feet
Producing Sand Chert Depth 7533-7657'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	192	Water	15' Fresh
Coal			192	19 1/2		
Sand & Shale			19 1/2	885	Water	19 1/2' Fresh
Sandstone			885	985		
Shale & Red Rock			985	1600		
Sand & Shale			1600	2100		
Red Rock			2100	21 1/2		
Sand & Shale			21 1/2	7120		
TULLY LIMESTONE			7120	7200		
Shale			7200	7511		
ONONDAGA			7511	7531		
CHERT			7531	7702		
ORISKANY			7702	7778	Gas	7533-7657
HELDERBERG			7778	7820		
Total Depth				78 1/2"		

KRM 12' above G.L.

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

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DIVISION TV

CGS Oper. 50% int.
Phillips Pet. Co 50% *

WORKING DISTRICT ~~BRIARWOOD~~ MANNINGTON

7136

WELL No. 12230

NAME K. H. BORN

LEASE No. G-128791+ACRES 54 of 111 MAP No. 933

N E
S G-3 W

District Valley
Township
County Deepestal
Site WV Pool
Located 7-27-76 W.O. 4221-02395
Elev. 1977 D.F.
Top Cr.
Contractor Ray Resources
Coal Owners None Perm No. Proc-188
47-077

Formation	Top	Bottom	Gas	Oil	Water
Coal	192	194			194

CASING RECORD							PULLED	
Date	Size	Wt.	Grade	Amount	SP	Connected With	Date	
11-14-76	13 3/8	48	H-40		163	Surf	135	
11-17-76	9 5/8	36	K-55		1206		460	
12-4-76	4 1/2	11.6	N-80		7824		280	

Agreement Dated
Arm Purchased
Driz. Commenced 11-13-76
Driz. Completed 12-04-76
Well Completed 12-22-76
Turned In Line 12-18-78
Line No. 2" H-21437 to H-21037 to TL 298
Purchased From
Date O.S. No.
Sold To
Date O.S. No.
Disconnected
Date Plugged
Classified: GAS PRODUCTION
Gas Measured By: Metered

GAMMA RAY LOG			
Tully	7114	7200	
Oriskany	7511	7581	
Chert	7581	7702	
Oriskany	7702	7778	
Holderberg	7778	7843	

Total Depth 7843
Plugged Back To

SHOE & PACKER DATA					PERFORATING DATA		
Date	Size	Type	Set	Pulled	Depth	Notes	
11-14-76	13 3/8	Guide	163		7564-66	2	
11-17-76	9 5/8	Floater	1206		7555-57	2	
12-4-76	4 1/2	Floater	7824		7600-25	24	
					7680-75	5	
					7647-45	2	

LOGGING DATA				INITIAL DAILY OIL PRO		
Date	Type	Interval	Co.	Date	Bbl.	Form
12-4-76	GR-Den-		Schlumberger			
	Ind-Temp					
12-13-76	GR-POC	7802-7400	BASIN			

VOLUME AND PRESSURE																					
Date	Reading	Liquid	SIZE			MINUTE RISE										Mrs.	Days	VOLUME	SAND		
			Opening	CSC	TDC	1	3	5	4	6	8	10	15	30	60						
12-22-76	60/10	M	2"	4 1/2											150	350	675	138	2900	1,285,000	CHERT
1-6-77																		14	2850		

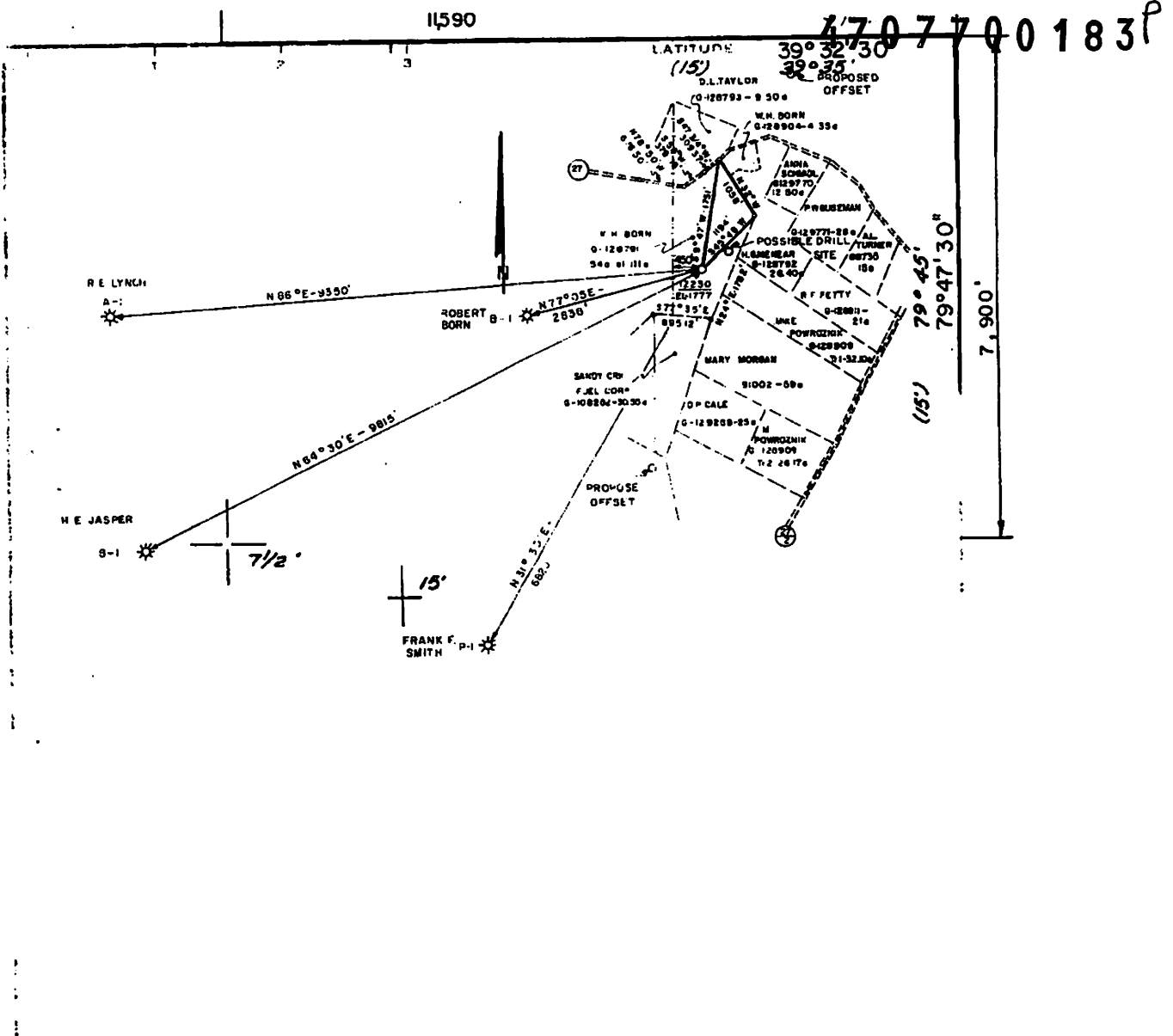
REPAIR AND DRILLING DEEPER										
Commenced	Completed	C.O. To	D.D. To	Volume			Rock Pressure			
				Before	After		Before	1st After	10 D. After	

REMARKS
* Phillips Petroleum Co. elected to convert to one-half working int. Pay-out status was achieved 12-4-80 per memo from H. Harris dtd 8-6-81.

TREATMENT DATA (Shot, Fracture, Acidize, Etc.)						
Date	Type	SD Press	Sand	O.F. Before	O.F. After	R.P. After
12-14-76	WATER		Chert	6500	1,205,000	NT 2850 14 day

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Department of Environmental Protection
OCT 12 2017

4707700183P



1" = 200'
 B.M. = ROAD FORKS EL-1849 MASONTOWN 7 1/2 TOPO

MAP SHEET 933 G-3 FB.1800 PG.1-2

Company: **CONSOLIDATED GAS SUPPLY CORP.**
 Address: **CLARKSBURG W.VA.**
 Name: **KASPER H. & BESSY BORN**
 Loc: **54 of III G-12 8791**
 Well Name: **12230**
 Elevation (Survey): **1777'**
 Quadrangle: **MASONTOWN 7 1/2**
 County: **PRESTON VALLEY**
 Engineer: *Jackson M. Jarvis*
 Engineer's Registration No.: **2397**
 File No.: _____ Drawings No.: _____
 Date: **8-18-76** Scale: **1" = 2,000'**

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 AND GAS DIVISION
 JARVIS

WELL LOCATION MAP
 FILE NO. **PRES-183**

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. **47-077**

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 WV Department of
 Environmental Protection

1) Date: _____
2) Operator's Well Number
7136 _____

3) API Well No.: 47 - 077 - 00183

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>NANCY J & RICHARD R KRYNICKI</u>	Name <u>N/A</u>
Address <u>5054 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>
(c) Name _____	<u>St. Louis, MO 63141</u>
Address _____	Name _____
_____	Address _____
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>	_____

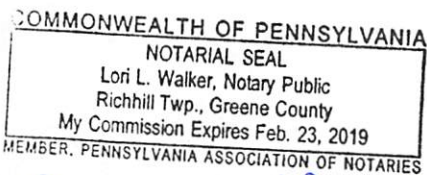
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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.

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



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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 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.

WW-9
(5/16)

4707700183P

API Number 47 - 077 - 00183
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

Company Official Title Permitting Manager

Commonwealth of Pennsylvania County of Greene

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

WV Department of
Environmental Protection

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Lori L. Walker, Notary Public
Richhill Twp., Greene County
My Commission Expires February 23, 2019
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
Tall Fescue	40
Landino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
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 Kintz

Comments: _____

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

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Environmental Protection

Title: Inspection Date: 10/10/2017

Field Reviewed? () Yes () No

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

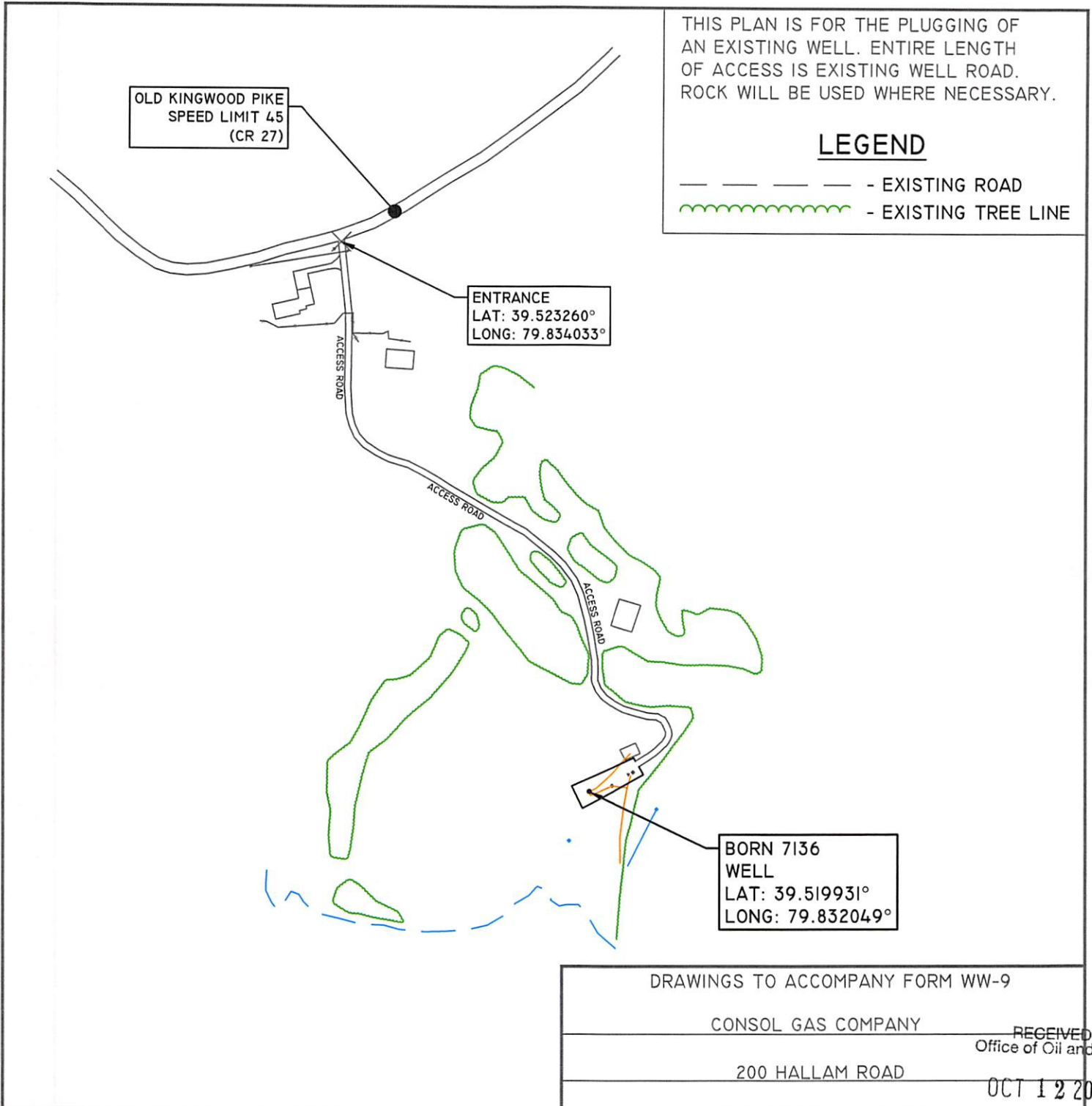
LEGEND

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

OLD KINGWOOD PIKE
SPEED LIMIT 45
(CR 27)

ENTRANCE
LAT: 39.523260°
LONG: 79.834033°

BORN 7136
WELL
LAT: 39.519931°
LONG: 79.832049°



DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY

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200 HALLAM ROAD

OCT 12 2017

WASHINGTON, PA 15301

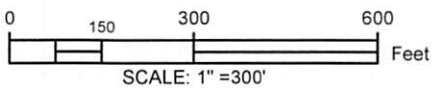
WV Department of
Environmental Protection

WATERSHED: HEADWATERS DECKERS CREEK

DISTRICT: VALLEY COUNTY: PRESTON

QUADRANGLE: MASONTOWN WELL NO: BORN 7136

DATE: 07/11/2017 PAGE 1 OF 4



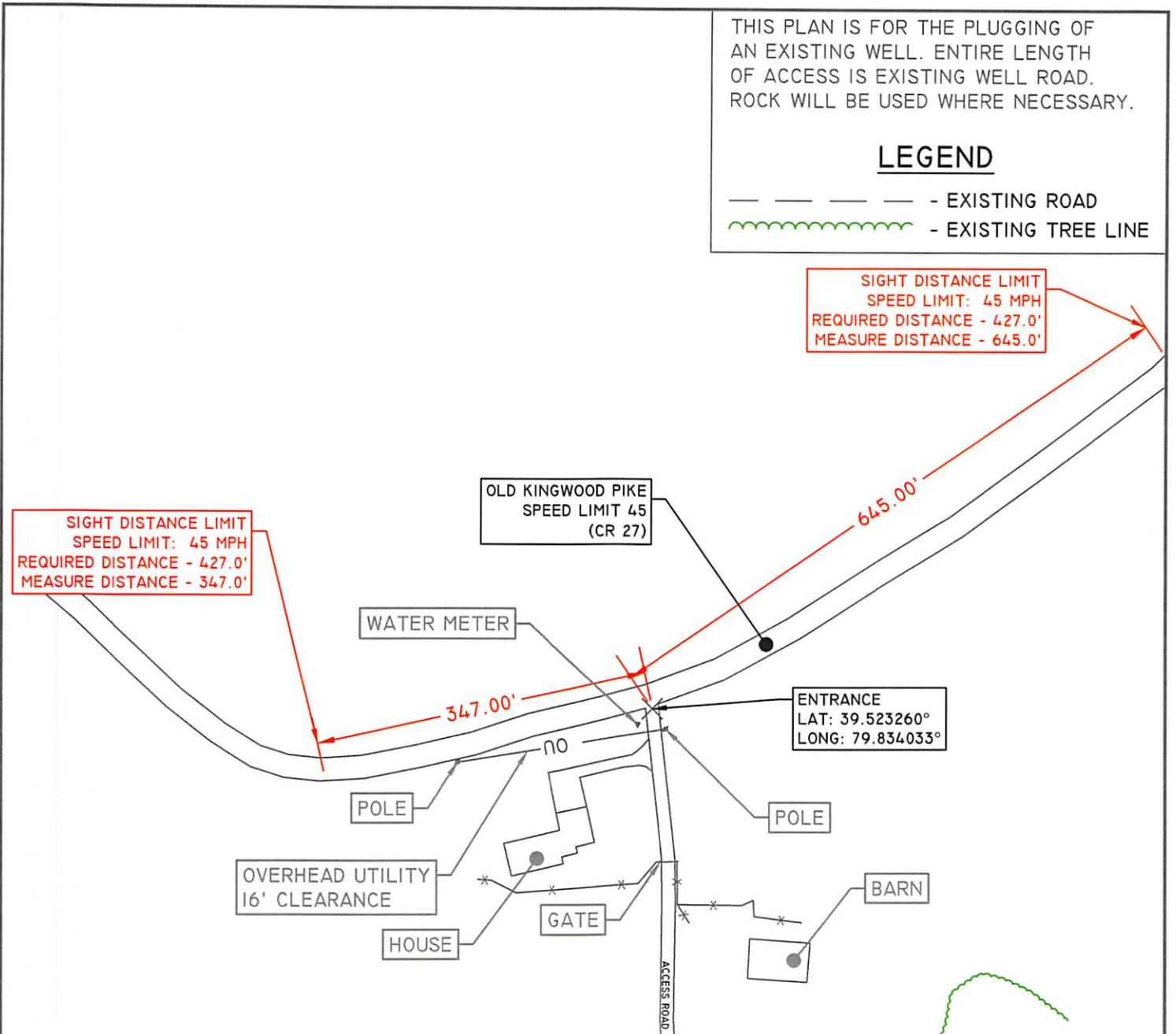
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LEGEND

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

SIGHT DISTANCE LIMIT
SPEED LIMIT: 45 MPH
REQUIRED DISTANCE - 427.0'
MEASURE DISTANCE - 645.0'

SIGHT DISTANCE LIMIT
SPEED LIMIT: 45 MPH
REQUIRED DISTANCE - 427.0'
MEASURE DISTANCE - 347.0'



DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY

200 HALLAM ROAD

WASHINGTON, PA 15301

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Office of Oil and Gas

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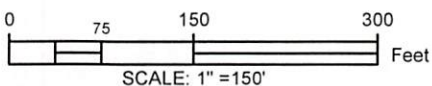
WV Department of
Environmental Protection

WATERSHED: HEADWATERS DECKERS CREEK

DISTRICT: VALLEY COUNTY: PRESTON

QUADRANGLE: MASONTOWN WELL NO: BORN 7136

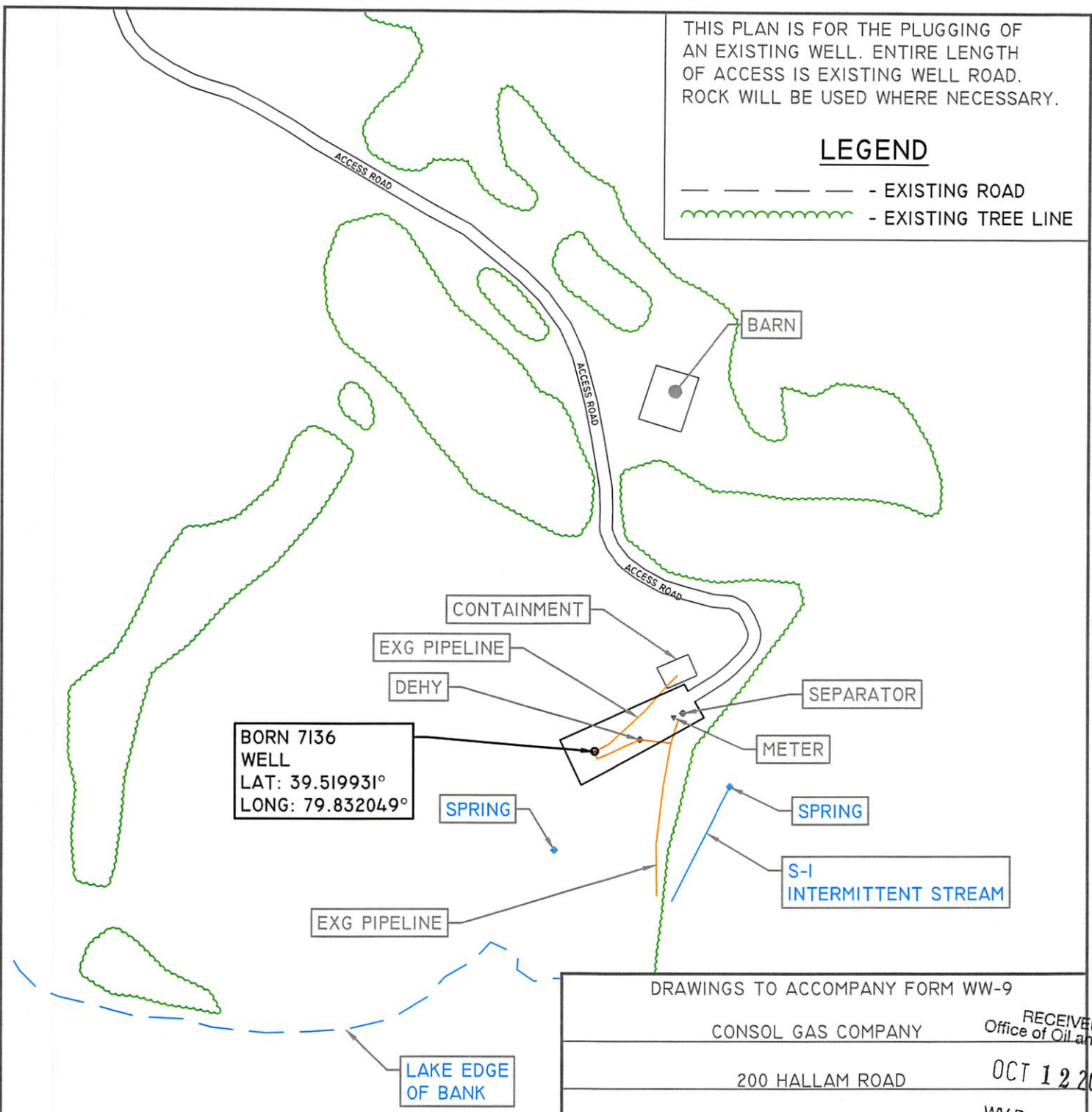
DATE: 07/11/2017 PAGE 2 OF 4



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

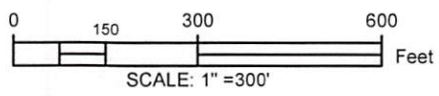
LEGEND

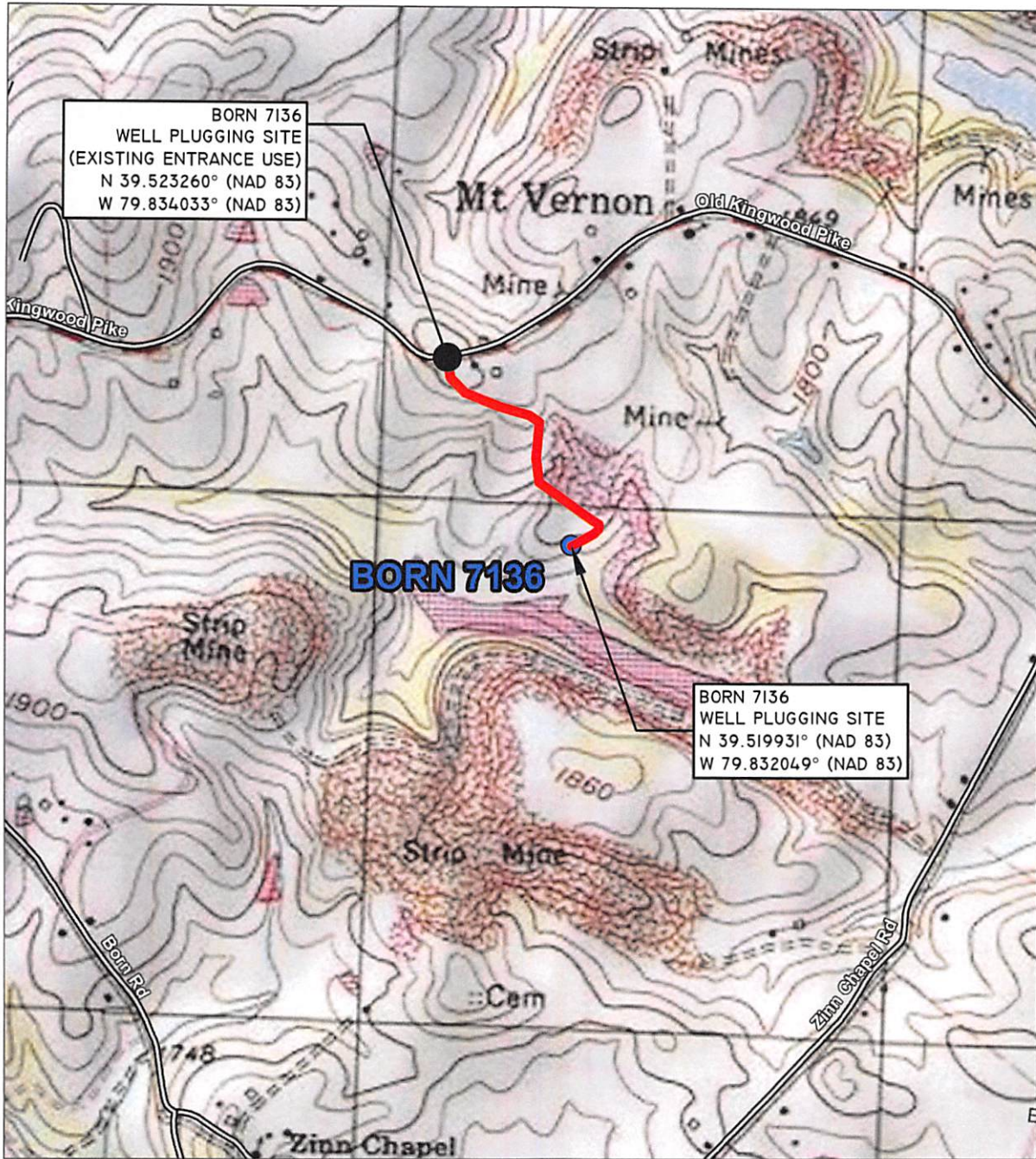
- - - - - EXISTING ROAD
- ~~~~~ EXISTING TREE LINE



BORN 7136
WELL
LAT: 39.519931°
LONG: 79.832049°

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 7136</u>	
DATE: <u>07/11/2017</u>	PAGE <u>3</u> OF <u>4</u>





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



Blue Mountain Inc.
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 7136 GAS WELL
VALLEY DISTRICT
PRESTON COUNTY, WV
CONSOL GAS COMPANY
200 HALLAM ROAD
WASHINGTON, PA 15301

DRAWN BY: LLF
CHECKED BY: WPF
DATE: 07/11/2017
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: 47-077-00183 WELL NO.: 7136

FARM NAME: KRYNICKI

RESPONSIBLE PARTY NAME: Sarah Weigand / CONSOL GAS COMPANY

COUNTY: Preston DISTRICT: Valley

QUADRANGLE: Masontown

SURFACE OWNER: NANCY J & RICHARD R KRYNICKI

ROYALTY OWNER: K. H. BORN

UTM GPS NORTHING: 4,375,127.642 METERS

UTM GPS EASTING: 600,391.926 METERS GPS ELEVATION: (4777') 541.873 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

RECEIVED
Office of Oil and Gas

OCT 12 2017

WV Department of
Environmental Protection