



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

June 17, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-6900041, issued to TUNNEL RIDGE, LLC, 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 all 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 9026
Farm Name: MEGALE, WILLIAM L.
API Well Number: 47-6900041
Permit Type: Plugging
Date Issued: 06/17/2014

Promoting a healthy environment.

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.



WR-35

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date June 8, 1991
Operator's Well No. Megale 9026
Farm Megale, William L.
API No. 47-069-0041

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Coal Seam

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 1382.4 Watershed Little Wheeling Creek
District: Liberty County Ohio Quadrangle Valley Grove

COMPANY Penn Virginia Resources Corp.
ADDRESS P.O. Box 386; Duffield, VA 24244
DESIGNATED AGENT Petroleum Consulting Ser
ADDRESS P.O. Box 35833; Canton, OH 44735
SURFACE OWNER William L. Megale
ADDRESS RD2 Box 282; Valley Grove, WV 26060
MINERAL RIGHTS OWNER Same as Surface
ADDRESS Same

OIL AND GAS INSPECTOR FOR THIS WORK
Don Ellis ADDRESS 2604 Crab Apple Lane Fairmont, WV 26554
PERMIT ISSUED May 7, 1990

DRILLING COMMENCED Sept. 11, 1990
DRILLING COMPLETED Sept. 12, 1990

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	407.29	407.29	Surf
5 1/2			
4 1/2	1628.54	1628.54	Surf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Lower Mercer Coal Depth 1600 feet
Depth of completed well 1675 feet Rotary X / Cable Tools ___
Water strata depth: Fresh ___ feet; Salt ___ feet
Coal seam depths: ___ Is coal being mined in the area? No
Sewickley 654-656; Pittsburgh 736-742; Mahoning 1247-1251; Kittanning 1479-1481
OPEN FLOW DATA

Producing formation Pittsburgh Coal Pay zone depth 736 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 1 Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests 2 ~~months~~ months
Static rock pressure 20 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)

Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure 67 psig (surface measurement) after 24 hours shut in
(from offset well - 200 ft)

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Pittsburgh Coal Perf 736-741; Total 21 perfs; BD @ 1060/960 w/ 15 BBLs
 7.5% HCl - Ball out @ 3480 psi w/ 30 perf balls

Treatment 984 BBLs - 75Q, N2 Foam @ 24 BPM
 255 BBLs Wtr, 84 sxs 80/100, 410 sxs 20/40; 292.4 MSCF N2
 MTP = 1850; ATP = 1680, SDP = 1120; 15 min = 670

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	THICK	SSE	REMARKS
							Including indication of all fresh and salt water, coal, oil and gas
FORMATION TOPS			TOP	BOT	THICK	SSE	
SAND & SHALE			0	391	391	-1382	
WAYNESBURG SAND			391	406	15	-991	
SAND & SHALE			406	470	64	-976	
COAL			470	472	2	-912	
SHALE			472	535	63	-910	
COAL			535	537	2	-847	
SAND w/SHALE STREAKS			537	654	117	-845	
SEWICKLEY COAL			654	656	2	-728	
SHALE w/LIME STREAKS			656	712	56	-726	
REDSTONE COAL			712	714	2	-670	
LIME & SHALE			714	736	22	-668	
PITTSBURGH COAL			736	742	6	-646	
SHALE			742	793	51	-640	
RED ROCK			793	818	25	-589	
SHALE			818	897	79	-564	
SANDSTONE			897	907	10	-485	
SHALE			907	937	30	-475	
COAL (DUQUENSE ?)			937	939	2	-445	
SHALE & SAND			939	990	51	-443	
AMES MARINE			990	1012	22	-392	
RED ROCK			1012	1188	176	-370	
SANDSTONE			1188	1199	11	-194	
SHALE & SAND			1199	1247	48	-183	
MAHONING COAL			1247	1251	4	-135	
SHALE w/LIME STREAKS			1251	1269	18	-131	
SAND (WASHINGTON MARINE)			1269	1277	8	-113	
SHALE & SAND			1277	1479	202	-105	
KITTANNING COAL			1479	1481	2	97	
SHALE			1481	1511	30	99	
SANDSTONE			1511	1520	9	129	
SHALE			1520	1544	24	138	
BONEY COAL			1544	1547	3	162	
SHALE			1547	1600	53	165	
BONEY COAL			1600	1602	2	218	
SHALE			1602	1664	62	220	
NOT RECORDED			1664	1675	11	282	
TD		1664 (WLM)	1675				

(Attach separate sheets as necessary)

Penn Virginia Resources Corporation
 Well Operator

By: Raymond L. Mazza dba Petroleum Consulting Services
 Date: June 8, 1991

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

*JEFF OCH
PROPERTY OWNER*

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

RECEIVED
Division of Energy

JUN 24 91

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: MEGALE, WILLIAM L. Operator Well No.: 9026

LOCATION: Elevation: 1382.40 Quadrangle: VALLEY GROVE
District: LIBERTY County: OHIO
Latitude: 3075 Feet South of 47 Deg. 7 Min. 30 Sec.
Longitude 6300 Feet West of 80 Deg. 30 Min. 0 Sec.

Well Type: OIL _____ GAS X

Company: Penn Virginia Resources Corp.
P. O. Box 386
Duffield, VA 24244

Coal Operator Valley Camp Coal Co.
or Owner 206 Seneca Street
Oil City, PA 16301

Agent: Petroleum Consulting Services
Inspector: Don Ellis
Permit Issued: 06/18/91

Coal Operator _____
or Owner _____

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Ohio ss:

Petroleum Consulting Services and _____ being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Penn Virginia Resources Corporation, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 19th day of June, 1991, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	Surface	90 feet	3 feet	404.29 feet (7.0)
Gelled Water (6%)	90 feet	440 feet	3 feet	1625.54 feet (4.0)
Cement	440 feet	1592 feet (TD)		

Description of monument: Steel plate (2ft X 2ft X 3/8in) with API
Buried 3 feet below ground level

and that the work of plugging and filling said well was completed on the 19th day of June, 1991.

And further deponents saith not.

Ray Jones

APR 16 2014

JUN 28 1991
Office of Oil and Gas
Department of Environmental Protection

Sworn and subscribe before me this 21st day of June, 1991
My commission expires: 11.17.2, 1995

Butler L. Lamm
Notary Public

JUN 2 4 94

WELL # 9026

PETROLEUM CONSULTING SERVICES
P.O. BOX 35833
CANTON, OH 44735
(216) 499-3823

DATE: 06/19/91
DAY # 1

PLUGGING DETAIL

PAGE 1 OF 1

WELL: MEGALE 9026 OPERATOR: PENN VIRGINIA RES CORP
TARGET: PITTSBURGH COAL CONTRCTR: D&K
WATERSHED: LITTLE WHEELING CREEK RIG #: 3
QUAD: VALLEY GROVE PERMIT #: 47-069-0041
DISTRICT: LIBERTY ELEV GL: 1382.4
COUNTY: OHIO PLUGGING PERMIT NO:12396

ACTIVITY PLUGGING FOR ABANDONMENT

MEAS DEPTH 1592 FOOTAGE N/A
HLU N/A HLD N/A ROT WT N/A TORQUE N/A RPM N/A

CASING

7.000IN @ 407.29FT; CT @ SURF
4.500IN @ 1628.54FT; CT @ 350FT

FROM	TO	HRS	ACTIVITY
07:00	11:15	4.25	BO PMPNG HDW,RU SER TLS WLKNR C25A DBL PLE(K&D) POH w/58-0.625IN SKR RDS &PMP
11:15	12:15	1.00	TIH w/2.375IN NUE TBNG TO TD-1591.88FT(GLM) PLACE 15.OPPG CLASS A CEMENT PLUG 1591-440FT
12:15	12:45	0.50	TOH w/TBNG TO 440
12:45	13:30	0.75	PMP 6% GEL TO SURF TOH w/TBNG,CUT OFF BOTH CSNGS 3FT BELOW GROUND LEVE
13:30	14:00	0.50	TIH w/TBNG TO 90FT PLACE 15.OPPG CLASS A CEMENT PLUG 90-SURF(NOWSCO)
14:00	14:15	0.25	TOH,INSTALL BURIED MONUMENT(2FT X 2FT X 0.375IN STEEL PLATE w/API NO.)
14:15	14:30	0.25	RD .SER TLS SUMMARY
TOTAL		7.50 HRS	SURFACE TO 90FT CEMENT 90 TO 440FT GEL 440FT TO TD CEMENT TOP PERFORATION 736FT

? COAL 470-472
? COAL 535-537
SEWICKLY COAL 654-656
REDSTONE COAL 712-714
PITTSBURGH COAL 736-742
DUQUENSE COAL 937-939

MAHONING COAL 1247-1251
LWR KITTANNING 1479-1481
BONEY COAL 1544-1547
BONEY COAL 1600-1602

Received
APR 16 2014

COST THIS DATE 5160
PREPARED BY MAZZA

TOTAL WELL COST 5160

Office of Oil and Gas
WV Dept. of Environmental Protection

JUN 2 1994

6900041P

WW-4A
Revised 6-07

1) Date: 04-14-2014
2) Operator's Well Number
9026
3) API Well No.: 47 - 69 - 00041-P

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>Jeffrey S. and Dana R. Och</u> ✓	Name <u>Tunnel Ridge, LLC</u> ✓
Address <u>1542 Potomac Hill</u>	Address <u>2596 Battle Run Road</u>
<u>Valley Grove, WV 26060</u>	<u>Triadelphia, WV 26059</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector _____	(c) Coal Lessee with Declaration
Address _____	Name _____
_____	Address _____
Telephone _____	_____

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 Tunnel Ridge, LLC
 By: John Dubowski ✓
 Title: Permitting and Environmental Coordinator
 Address 2596 Battle Run Road
Triadelphia, WV 26059
 Telephone 304-547-2904

Subscribed and sworn before me this 2nd day of May, 2014
Kristina M. Hundertmark Notary Public
 My Commission Expires May 26, 2018

Received
MAY 2 2014

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.

6900041P

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Jeffrey Oehl
 1542 Potomac Hill
 Valley Grove WV
 26060

2. Article Number
 (Transfer from service) 7009 0080 0001 6379 7959

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Agent
 Addressee
 X *David Oehl*

B. Received by (Printed Name)
 Dana Oehl

C. Date of Delivery

D. Is delivery address different from item 1?
 If YES, enter delivery address below: Yes
 No
 156 SHUANNA LANE
 VALLEY GROVE
 WV 26060

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

6900041P

UNITED STATES POSTAL SERVICE

PA 150
01 MAY '14

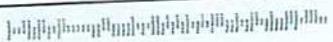


First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

PS L
• Sender: Please print your name, address, and ZIP+4 in this box •



John Dubowski PE
Tunnel Ridge, LLC
2596 Battle Run Road
Triadelphia, WV 26509



SURFACE OWNER WAIVER

Operator's Well
Number

9026

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

**FOR EXECUTION BY A NATURAL PERSON
ETC.**

FOR EXECUTION BY A CORPORATION,

Received

MAY 2 2014

Signature

Date

Name

By
Its

Office of Oil and Gas
Department of Environmental Protection
Date

Signature

Date

WW-4B

API No.	<u>69-00041-P</u>
Farm Name	<u>Formerly the William L. Megale Farm</u>
Well No.	<u>9026</u>

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

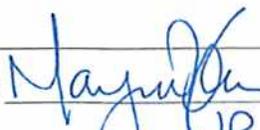
This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator XXXX / owner / lessee / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 04/4/2014

By: 
 Its VP operations

Received

MAY 2 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Tunnel Ridge, LLC OP Code _____

Watershed (HUC 10) Wheeling Creek Quadrangle Valley Grove

Elevation 1360.0 County Ohio District Liberty

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No XXXX

Will a pit be used for drill cuttings? Yes XXXX No _____

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes XXXX No _____ If so, what ml.? 4 MIL 20 MIL

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- _____ Underground Injection (UIC Permit Number _____)
- _____ Reuse (at API Number _____)
- _____ Off Site Disposal (Supply form WW-9 for disposal location)
- _____ Other (Explain _____)

Will closed loop system be used? No

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air/Water

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? N/A

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

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

-Landfill or offsite name/permit number? _____

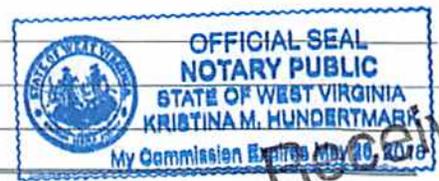
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 *Maynard St. John*

Company Official (Typed Name) Maynard St. John

Company Official Title Vice President of Operations



Subscribed and sworn before me this 20th day of May, 20 14

Kristina M. Hundertmark Notary Public

My commission expires May 26, 2018

Received
MAY 2 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

Form WW-9

Operator's Well No. 9026

Tunnel Ridge, LLC

Proposed Revegetation Treatment: Acres Disturbed 0.5 Prevegetation pH _____

Lime _____ Tons/acre or to correct to pH 6.0 to 7.0

Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs minimum)

Mulch 0.5 Tons/acre

Seed Mixtures

Area I			Area II				
Seed Type		lbs/acre	Seed Type		lbs/acre		
Timothy	8	Red Clover	5	Timothy	8	Red Clover	5
Orchard Grass	6	Alsike Clover	3	Orchard Grass	6	Alsike Clover	3
Annual Rye Grass	9			Annual Rye Grass	9		

Attach:
 Drawing(s) of road, location, pit and proposed area for land application.
 Photocopied section of involved 7.5' topographic sheet.

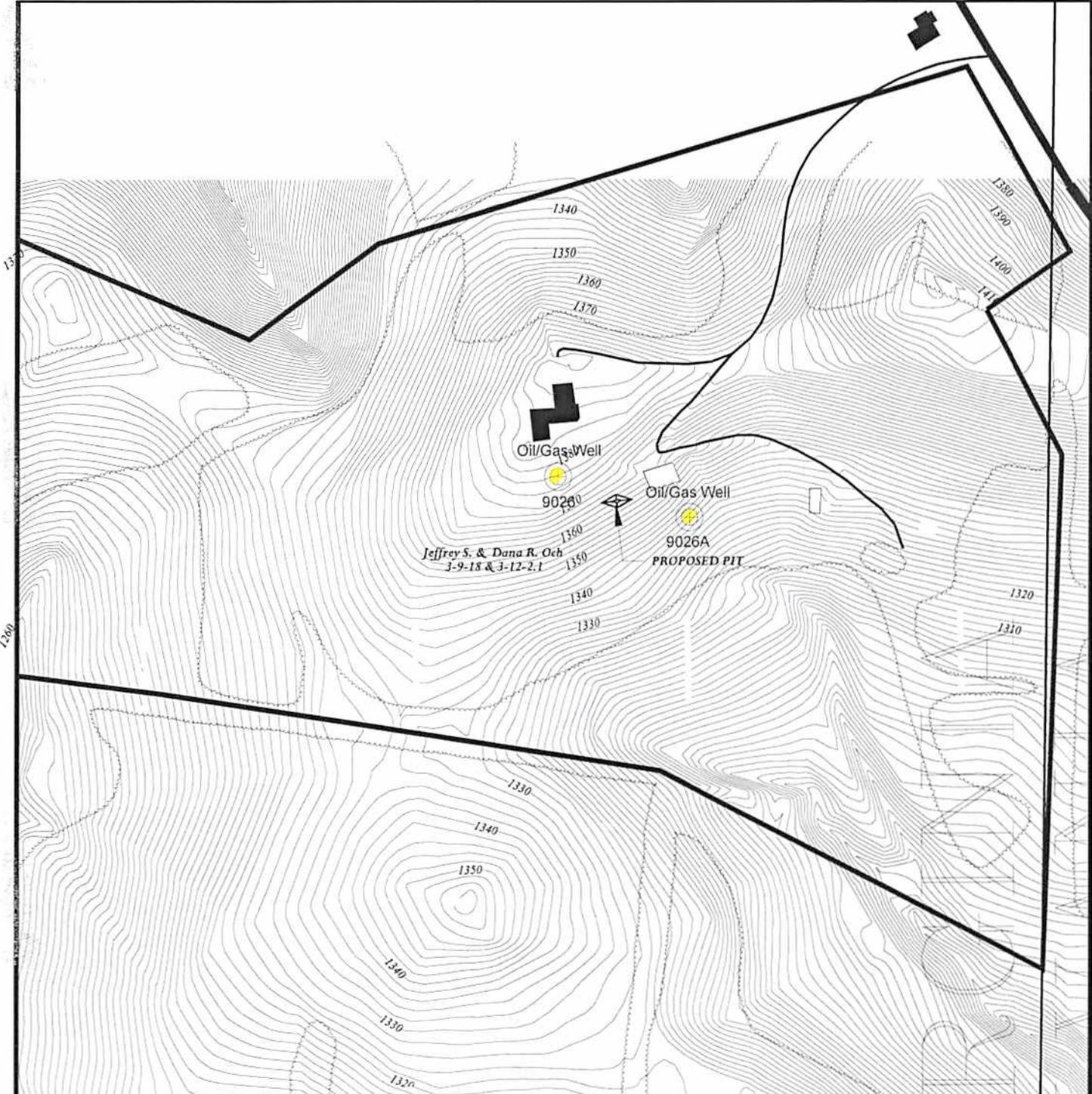
Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No

Received
 MAY 2 2014
 Office of Oil and Gas
 West Virginia Department of Environmental Protection



GAS WELL REPLUG LOCATION MAP

Applicant: Tunnel Ridge, LLC

API: 47-69-00041-P Well No. 9026

District: Liberty

County: Ohio

Contour Interval: N/A

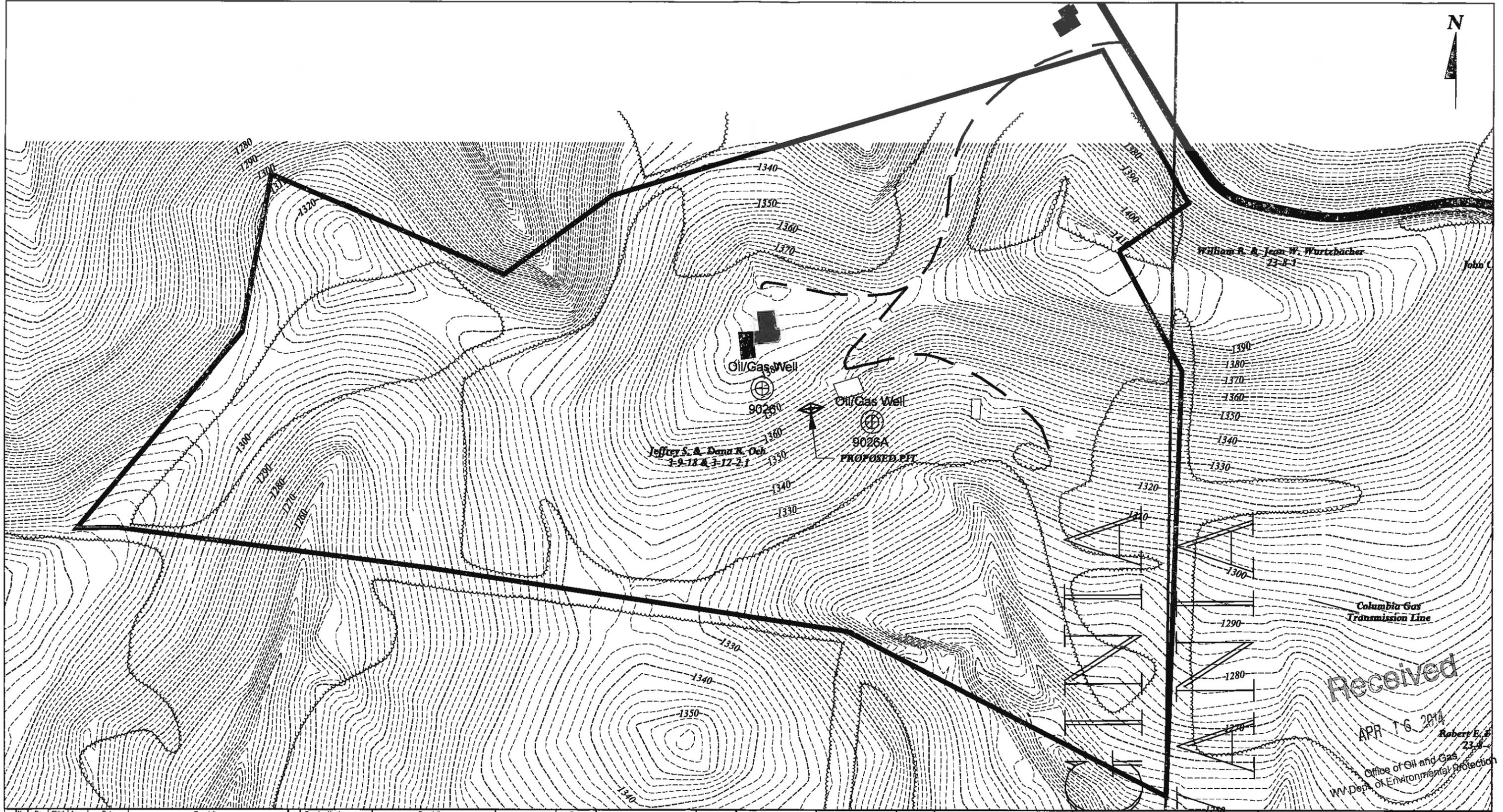
Scale: 1" = 50'

Date: 05/02/2014

Date Revised:



2596 Battle Run Road
 Traidelfphia, WV 26059
 Ph: (304) 547-2900
 Fax: (304) 547-2940



Received
 APR 16 2014
 Robert E. [unclear]
 Office of Oil and Gas
 WV Dept. of Environmental Protection

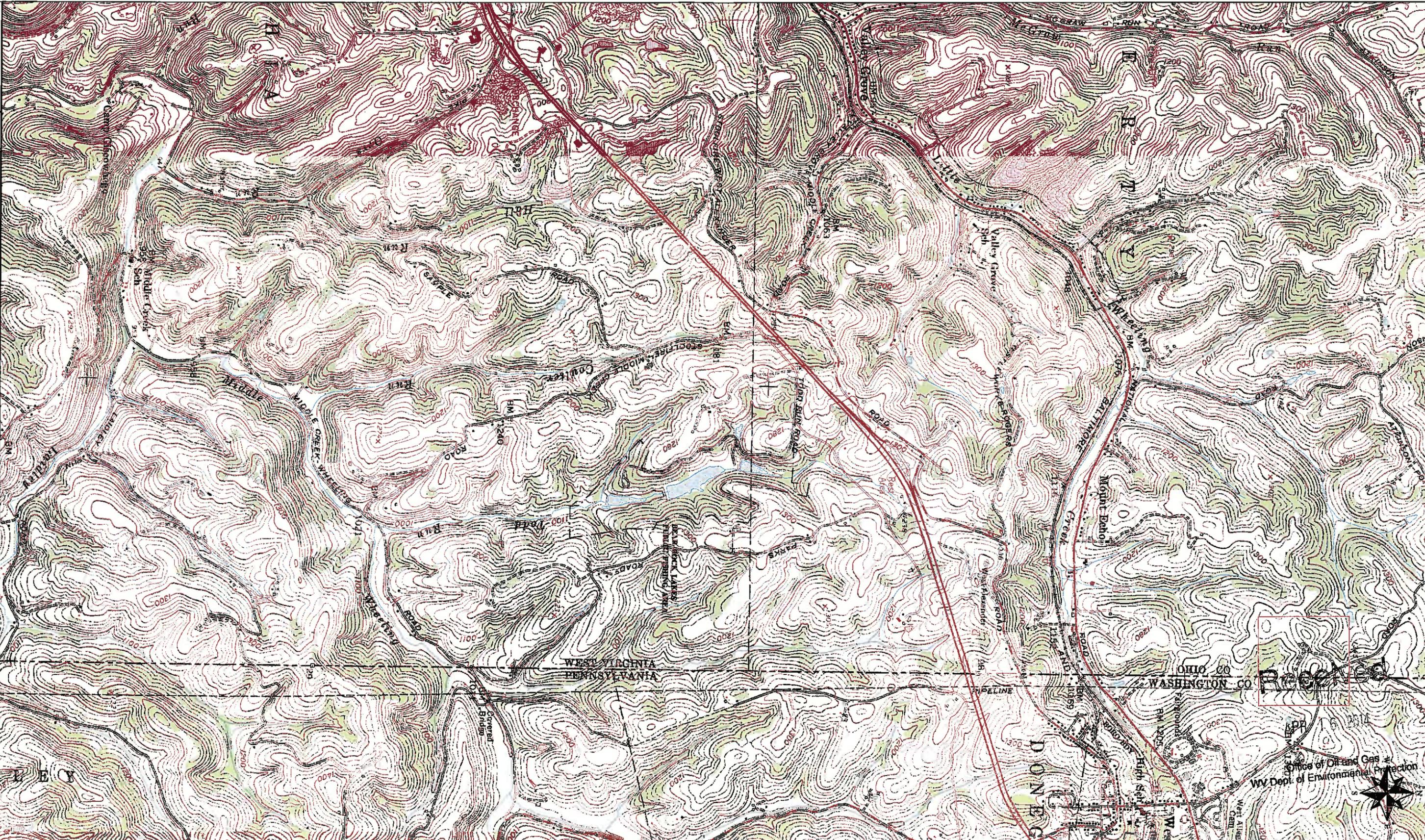
REVISIONS No. By Chkd Apprv Date 1 2 3	Description		Drawing Number	Description	Date	Designed By: MSS	Date: 04/19/2014	Project Number: Drawing Number: Date: 04/19/2014	Scale: 1" = 200' 0' 200'	Alliance Coal, LLC Tunnel Ridge, LLC Triadelphia, WV	GAS WELL PLUG MAP	Sheet 01 of 01
	Description					Contract Issue:	04/19/2014					
	Description					Checked By: JPD	04/19/2014					
	Description					As-Built Issue:	04/19/2014					

Designed By: MBS	Date: 4/15/2014
Drawn By: MBS	Date: 4/15/2014
Checked By: JPD	Date: 4/15/2014
Approved By: JPD	Date: 4/15/2014



ALLIANCE COAL LLC
TUNNEL RIDGE, LLC
 TRIAD, PHIA, WV

OCH PROPERTY
 GASWELL LOCATION MAP



Approved

APR 16 2014

Office of Oil and Gas
 WV Dept. of Environmental Protection

WW-7
8-30-06



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

API: 47-69-00041-P WELL NO.: 9026

FARM NAME: William L. Megale

RESPONSIBLE PARTY NAME: Tunnel Ridge, LLC

COUNTY: Ohio DISTRICT: Liberty

QUADRANGLE: Valley Grove

SURFACE OWNER: Jeffrey S. and Dana R. Och

ROYALTY OWNER: N/A

UTM GPS NORTHING: 4,440,762

UTM GPS EASTING: 540,706 GPS ELEVATION: 414.5 m (1382')

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.

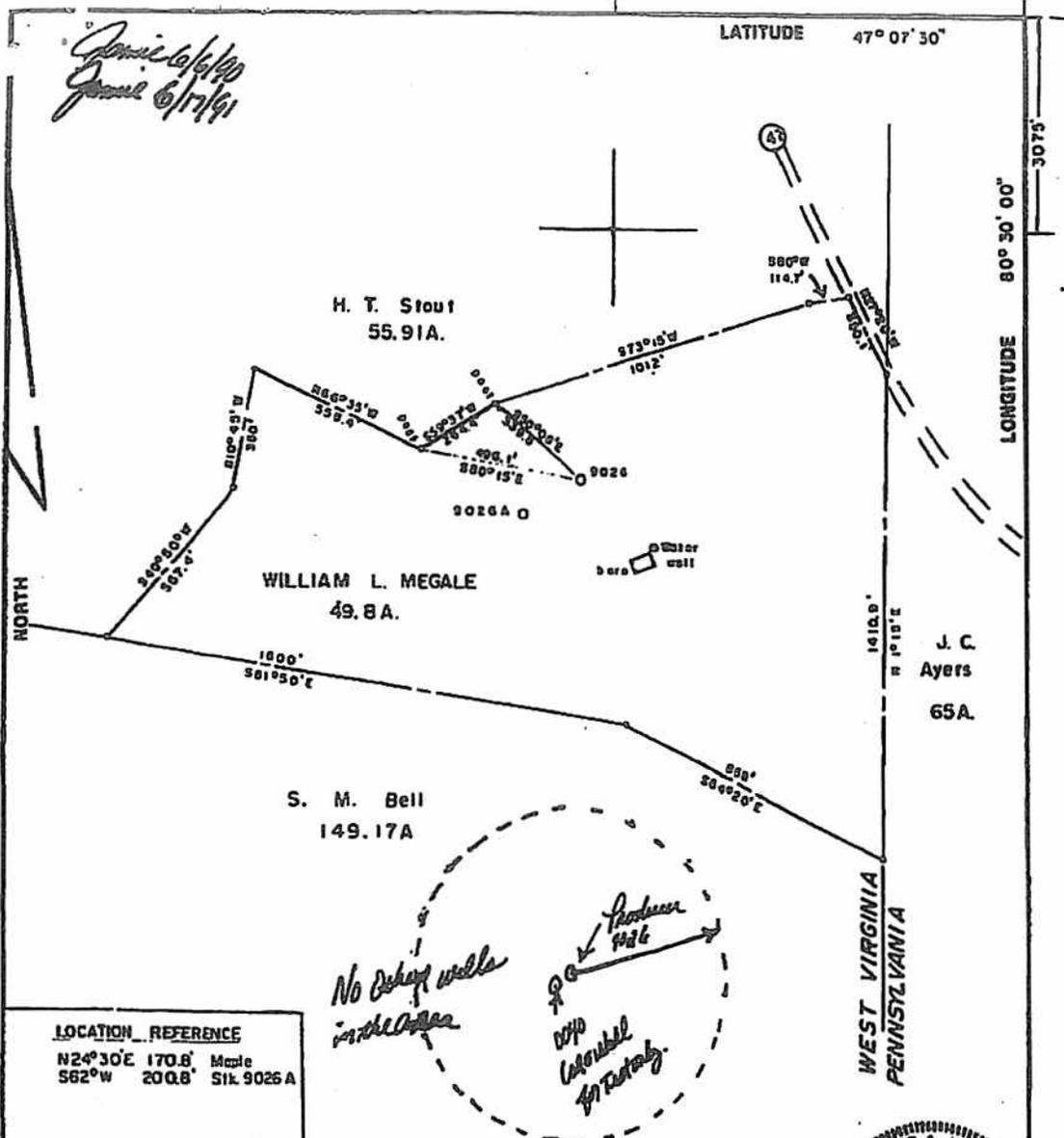
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

[Signature]
Signature

Permitting Coordinator
Title

06/09/14
Date

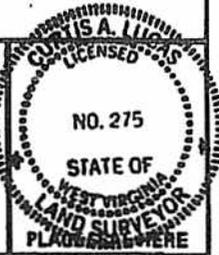
Received
JUN - 9 2014
Office of Oil and Gas
West Virginia Dept. of Environmental Protection



LOCATION REFERENCE
 N24°30'E 170.8' Maple
 S62°W 200.8' Sil. 9026A

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200'
 PROVEN SOURCE OF ELEVATION BM TT-68R-1952
 EL. 1320.0

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF MINES.
 (SIGNED) Curtis A. Lucas
 R.P.E. L.L.S. 275



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE MAY 7, 1990
 OPERATOR'S WELL NO. 9026
 API WELL NO. 47-069-0041-P
 STATE COUNTY PERMIT

(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1382.4 WATERSHED LITTLE WHEELING CREEK
 DISTRICT LIBERTY COUNTY OHIO
 QUADRANGLE VALLEY GROVE
 SURFACE OWNER WILLIAM L. MEGALE ACREAGE 48.8
 OIL & GAS ROYALTY OWNER WILLIAM L. MEGALE LEASE ACREAGE 49.8
 LEASE NO. 47-3688-00
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW
 FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION COAL ESTIMATED DEPTH 1700
 WELL OPERATOR PENN VIRGINIA RES. CORP DESIGNATED AGENT G. B. HEFNER
 ADDRESS P O BOX 386 ADDRESS P. O. BOX 249
DUFFIELD VA 24244 BRIDGEPORT WV 26330

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APR 16 2014

Office of Oil and Gas
 WV Dept. of Environmental Protection

FORM IV-G (8-78)

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