



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Monday, April 23, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 7500
47-077-00056-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: 7500
Farm Name: AYERSMAN, J.
U.S. WELL NUMBER: 47-077-00056-00-00
Vertical Plugging
Date Issued: 4/23/2018

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.

ck#
002365
\$100.00

- 1) Date 3/16, 2018
- 2) Operator's
Well No. Terra Alta South 7500
- 3) API Well No. 47-077 - 00056

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

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APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil ___ / Gas x / Liquid injection ___ / Waste disposal ___
(If "Gas, Production ___ or Underground storage x) Deep x / Shallow ___
- 5) Location: Elevation 1692.1 ft Watershed Kessinger Run of Saltlick Creek
District Union County Preston Quadrangle Terra Alta, WV
- 6) Well Operator Columbia Gas Transmission, LLC 7) Designated Agent James Amos
Address 1700 MacCorkle Ave SE Address 48 Columbia Gas Rd
Charleston, WV 25325 Sandyville, WV 25275
- 8) Oil and Gas Inspector to be notified Name Gayne Knitowski
Address PO Box 108
Gormaniam, WV 26720
- 9) Plugging Contractor Name Contractor Services Inc
Address 929 Charleston Rd
Spencer, WV 25276

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

* refer to "prior to P&A" and "proposed P&A" wellbore schematics

Obtain cement bond log. Clean out well to TD and install bottom cement plug 4630 - TD. Perforate 4600', install cement retainer, and attempt/squeeze cement behind 7" casing. Install cement plug and gel above retainer. Cut and pull all 4-1/2" and 7" casing that is free. Install cement plugs across casing stubs. Gel to 1800' and install cement plug to 1540'. Pull all 8-5/8" casing that is free. Install cement plug across casing seat/shoe. Gel to 800' and install cement plug to 300'. Perforate 10-3/4" surface casing at 250' and attempt/squeeze cement to surface. Install cement plug across perforations to surface. Note that 10-3/4" surface casing not to be pulled to provide for well intervention in the future if needed.

An Attempt to pull all casing must be made at a min. 1 1/2 x string weight.

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

Work order approved by inspector



Date

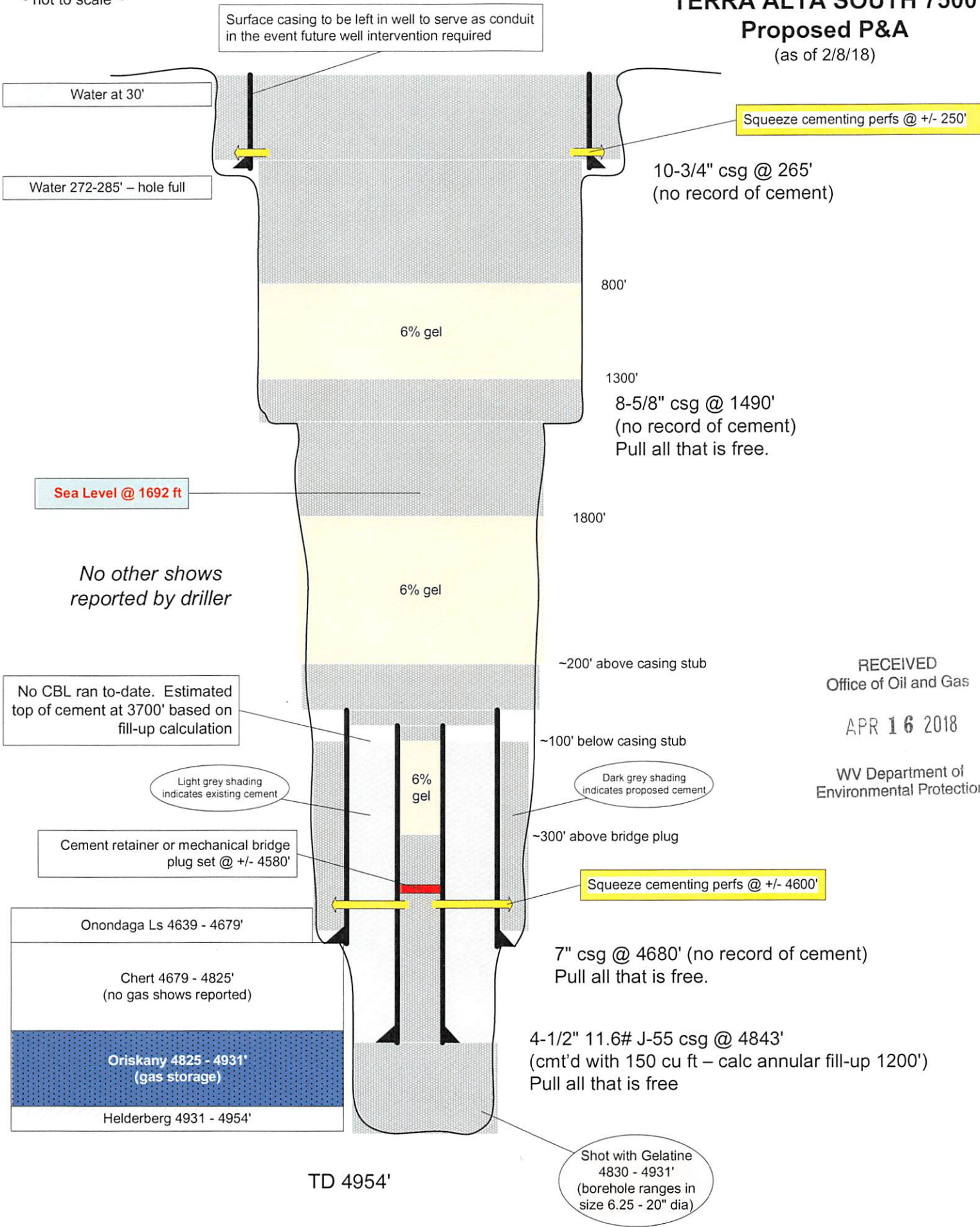
4/2/2018

TERRA ALTA SOUTH 7500

Proposed P&A

(as of 2/8/18)

~ not to scale ~



TD 4954'

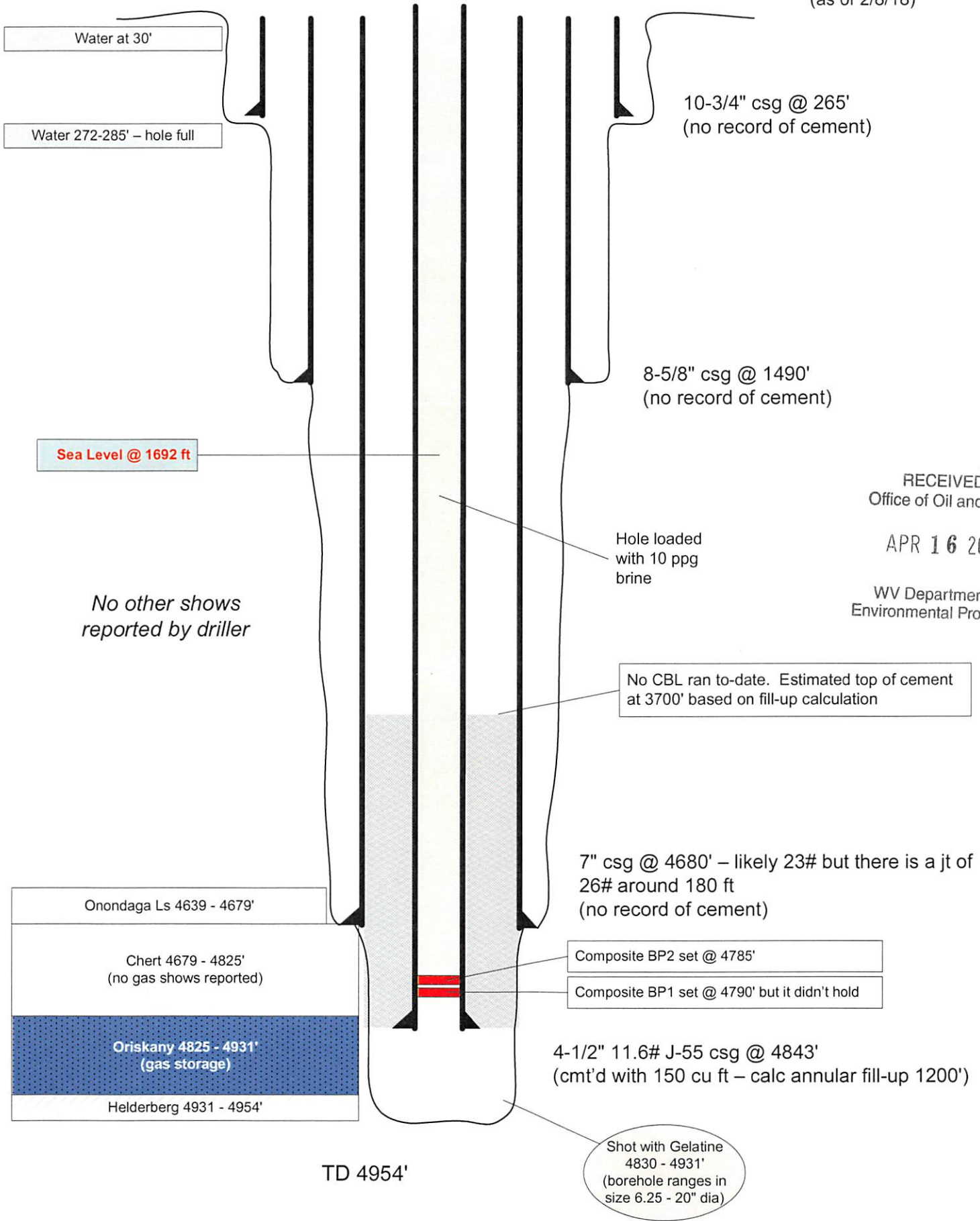
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~ not to scale ~

TERRA ALTA SOUTH 7500

Prior to P&A

(as of 2/8/18)



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Hole loaded
with 10 ppg
brine

No CBL ran to-date. Estimated top of cement
at 3700' based on fill-up calculation

7" csg @ 4680' – likely 23# but there is a jt of
26# around 180 ft
(no record of cement)

Composite BP2 set @ 4785'
Composite BP1 set @ 4790' but it didn't hold

4-1/2" 11.6# J-55 csg @ 4843'
(cmt'd with 150 cu ft – calc annular fill-up 1200')

Shot with Gelatine
4830 - 4931'
(borehole ranges in
size 6.25 - 20" dia)

TD 4954'

No other shows
reported by driller

Sea Level @ 1692 ft

Water at 30'

Water 272-285' – hole full

10-3/4" csg @ 265'
(no record of cement)

8-5/8" csg @ 1490'
(no record of cement)

Onondaga Ls 4639 - 4679'

Chert 4679 - 4825'
(no gas shows reported)

Oriskany 4825 - 4931'
(gas storage)

Helderberg 4931 - 4954'



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

F26022
77-00056 P

Quadrangle Kingwood

Permit No. PRES-56

WELL RECORD

Oil or Gas Well Gas
(KIND)

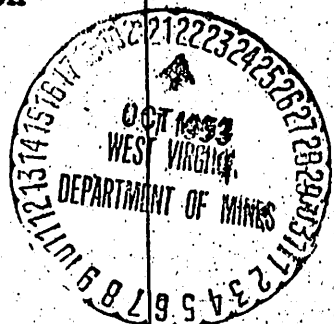
Company Union Gas Company
Address P. O. Drawer 351, Clarksburg, W. Va.
Farm Joseph Ayersman Acres 76
Location (waters) Salt Lick
Well No. One Elev. 1696 VA
District Union County Preston
The surface of tract is owned in fee by Joseph Ayersman
Terra Alta, W. Va. R. F. D. #3
Mineral rights are owned by Joseph Ayersman
Address Same
Drilling commenced April 15, 1953
Drilling completed September 21, 1953
Date Shot October 19, 1953 To 4931
With 650 # of Gelatine

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18			
10	265'	265'	Size of
8 1/4	1490'	1490'	
6 3/8	4680'	4680'	Depth set
5 3/16			
8			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 460,000 Cu. Ft.
Rock Pressure 2180# lbs. 14 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

CASING CEMENTED	SIZE	No. Ft.	Date
COAL WAS ENCOUNTERED AT			
		FEET	INCHES
		FEET	INCHES
		FEET	INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	8			
Lime			8	48			
Slate & Shells			48	140	Water 30		
Lime			140	210	Watch at 180 ft. depth as		
Slate & Shells			210	230	26# joint of pipe mistakenly		
Broken Lime			230	605	run.		
Slate & Shells			605	1200	Water - 272 - 285		Hole Full
Lime			1200	1380			
Brown Benson			1380	1412			
Lime			1412	1455	8 1/4	1490	
Slate & Shells			1455	2975	Gas Pays		
Brown Shale			2975	3242	25/10 W	1/4"	4830 to 483
Slate & Shells			3242	3460	30/10 W	1/2"	4841 to 484
Lime			3460	3655	58/10 W	1"	4845 to 485
Brown Shale			3655	3705	70/10 "	1"	4877 to 488
Slate & Shells			3705	3950	84/10 W	1"	4897 to 490
Lime			3950	4000	88/10 W	1"	4904 to 490
Slate & Shells			4000	4173	90/10 W	1"	4908 to 490
Lime Tully			4173	4205	110/10 "	1"	4918 to 492
Black Slate			4205	4400			
Lime			4400	4420			
Brown Shale			4420	4637			
Brown Break			4637	4639			
Onondaga Lime			4639	4679			
Chart			4679	4825	6 5/8	set 4680	
Oriskany			4825	4931	Test: (Final)		
Helderberg			4931	4954	25/10 Mercury	3/4"	
Total Depth			4954				



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E. 21 022

WW-4A
Revised 6-07

1) Date: 3/5/18
2) Operator's Well Number
Terra Alta South well 7500

3) API Well No.: 47 - 077 - 00056

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:
(a) Name Jon A. Hooton
Address PO Box 409
Kingwood, WV 26537
(b) Name Ronald D. Hooton
Address PO Box 409
Kingwood, WV 26537
(c) Name Jo Ann Hooton Frame
Address PO Box 409
Kingwood, WV 26537
6) Inspector Gayne Knitowski
Address PO Box 108
Gorman, WV 26720
Telephone 304-546-8171

5) (a) Coal Operator
Name not operated
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

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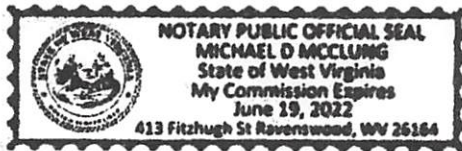
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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 Columbia Gas Transmission, LLC
By: James Amos
Its: Senior Engineer
Address 48 Columbia Gas Rd.
Sandyville, WV 25275
Telephone 304-373-2412



Subscribed and sworn before me this 23rd day of March
Michael D McClung Notary Public
My Commission Expires 6/19/2022

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.

77-000569

WW-9
(5/16)

API Number 47 - 077 - 00056
Operator's Well No. Terra Alta South 7500

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

Operator Name Columbia Gas Transmission, LLC OP Code 307032
Watershed (HUC 10) Kessinger Run of Saltlick Creek Quadrangle Terra Alta, WV

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: fresh water, cement returns, bentonite gel, NaCl salt

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number 34-119-28776, 34-167-23862)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Appalachian Water Services, Station W1 Ronco WTP, Masontown, PA - Permit 2608201)

Will closed loop system be used? If so, describe: no

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

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

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Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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Environmental Protection

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

-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.

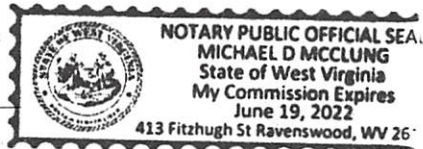
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 [Signature]
Company Official (Typed Name) James E. Amos
Company Official Title Senior Engineer, Well Engineering & Technology

Subscribed and sworn before me this 23rd day of March, 2018

[Signature] Notary Public

My commission expires 6/19/22



Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Rye	40	Orchard Grass and/or Tall Fescue	29
		Birdsfoot Trefoil (empire)	9
		Annual Rye	12

Upland

For wetland areas: Annual Rye (40 lbs/acre) until indigenous plants re-establish cover.

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: Reclaim SITE ASAP

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Title: Inspector

Date: 4/2/2018

Field Reviewed? Yes No

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

Operator Name: Columbia Gas Transmission, LLC

Watershed (HUC 10): Kessinger Run of Saltlick Creek Quad: Terra Alta, WV

Farm Name: Ayersman, J.

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment.

Spills from construction equipment is the only source of contaminate to groundwater.

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

All construction equipment will be inspected daily for leaks. Spill kits will be on site.

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Kessinger Run is +/-100 ft from wellhead. The closest Well Head Protection Area is WV3303908 Kingwood Water Board Primary. Refer to enclosed assessment letter from Department of Health and Human Resources, Source Water Assessment and Protection department.

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- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

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- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

During routine tailgate meetings groundwater protection will be a topic of discussion.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment. Construction equipment will be inspected daily for leaks or spill.

Signature:
Date: 3/20/18

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STATE OF WEST VIRGINIA
DEPARTMENT OF HEALTH AND HUMAN RESOURCES
Bureau for Public Health

Bill J. Crouch
Cabinet Secretary

Office of Environmental Health Services

Rahul Gupta, MD, MPH, MBA, FACP
Commissioner
State Health Officer

February 16, 2018

William Timmermeyer
TransCanada -Columbia Pipeline Group
1700 MacCorkle Ave., SE
Charleston, WV 25314

Re: WV DEP SWAP Info Request
Protection Areas for 8 wells
Randolph/Preston/Marshall Counties,

Dear Mr. Timmermeyer:

This is a response to the informational request dated February 15, 2018 concerning protection areas near eight wells.

Based on the current information, we have found the following:

Well	PA PWSID	PA Type	System Name	County	Note
Glady 7455	WV9942049	ZPC	USFS Middle Mountain Cabins HP	Randolph	Distance 1 mile, does not intersect any PA
Glady 7459					Out of WV State
Terra Alta South 7500	WV3303908	ZPC	Kingwood Water Board Primary	Preston	Intersects Protection Area
Victory B 2265	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
	WV3304803	ZPC	Sistersville Municipal Water	Marshall	Intersects Protection Area
Victory B 2345	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
	WV3304803	ZPC	Sistersville Municipal Water	Marshall	Intersects Protection Area
Victory B 2589	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
Victory B 3522	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
Victory B 4502	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Distance 250 feet, does not intersect any PA

I hope the information provided helps you with the completion of your project. If you have any questions, please do not hesitate to contact me at (304) 356-4309.

Sincerely,
Lisa A. King
Lisa A. King, GIS Administrator
Source Water Assessment and Protection

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CC: William J. Toome

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Kinsinger Run Rd

Limits of Work Area

silt fence

230

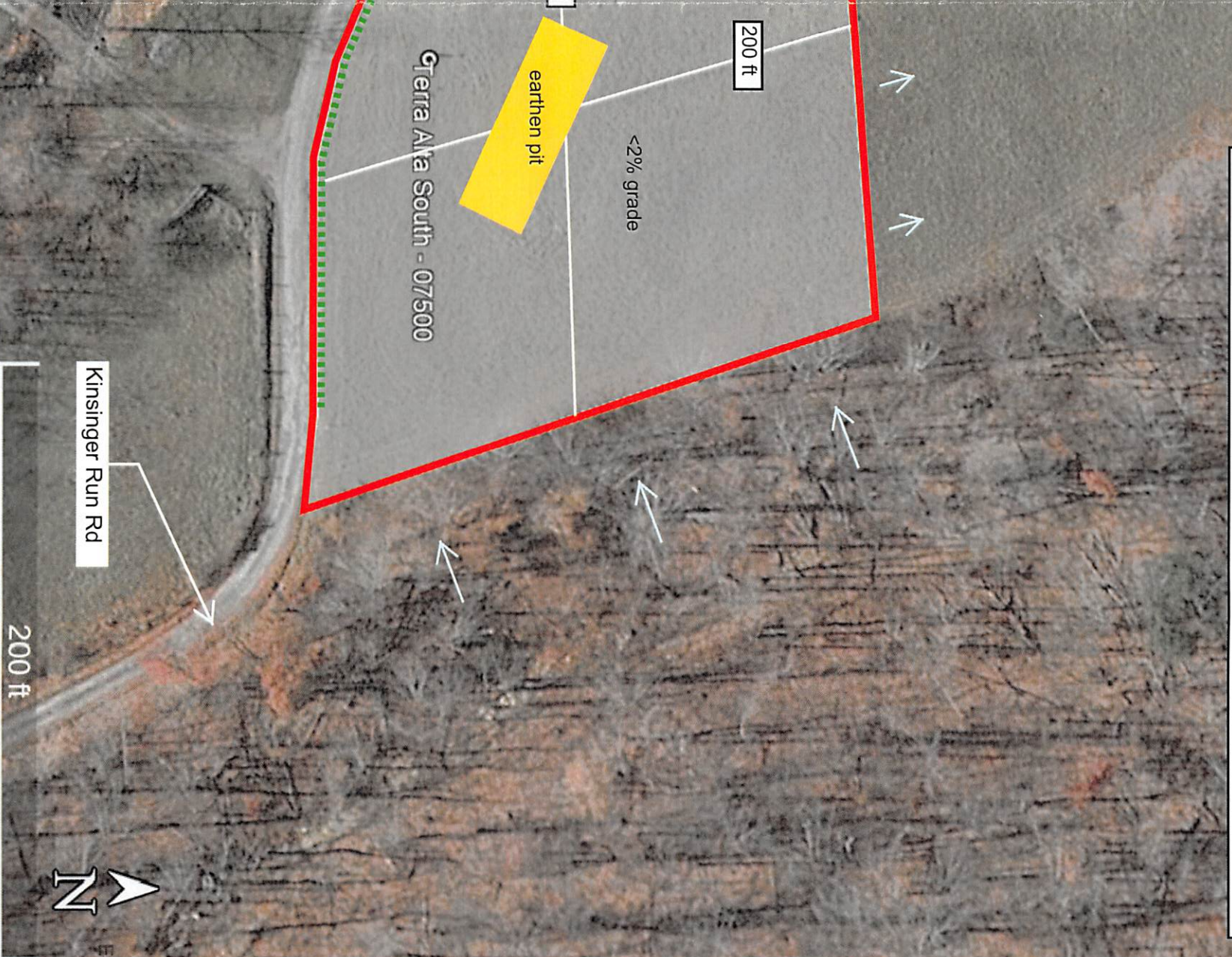
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WV DEP Reclamation Plan - Siting Detail

Terra Alta South well 7500

- Existing road surface and culverts to be maintained
- BMPs to be utilized per WV DEP guidelines



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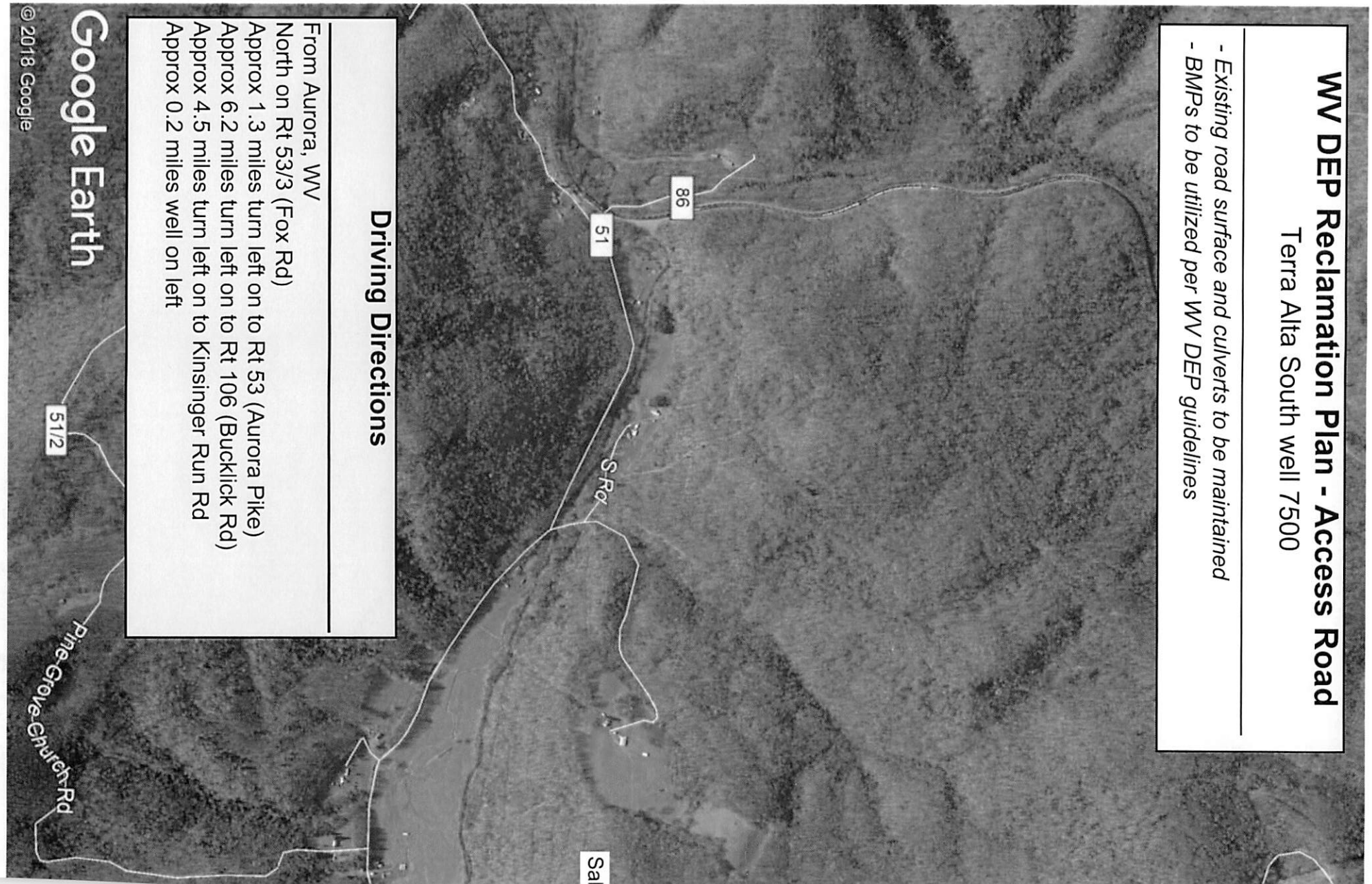
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WV DEP Reclamation Plan - Access Road

Terra Alta South well 7500

- Existing road surface and culverts to be maintained
- BMPs to be utilized per WV DEP guidelines



Driving Directions

From Aurora, WV
North on Rt 53/3 (Fox Rd)
Approx 1.3 miles turn left on to Rt 53 (Aurora Pike)
Approx 6.2 miles turn left on to Rt 106 (Bucklick Rd)
Approx 4.5 miles turn left on to Kinsinger Run Rd
Approx 0.2 miles well on left

Google Earth

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(VALLEY POINT)

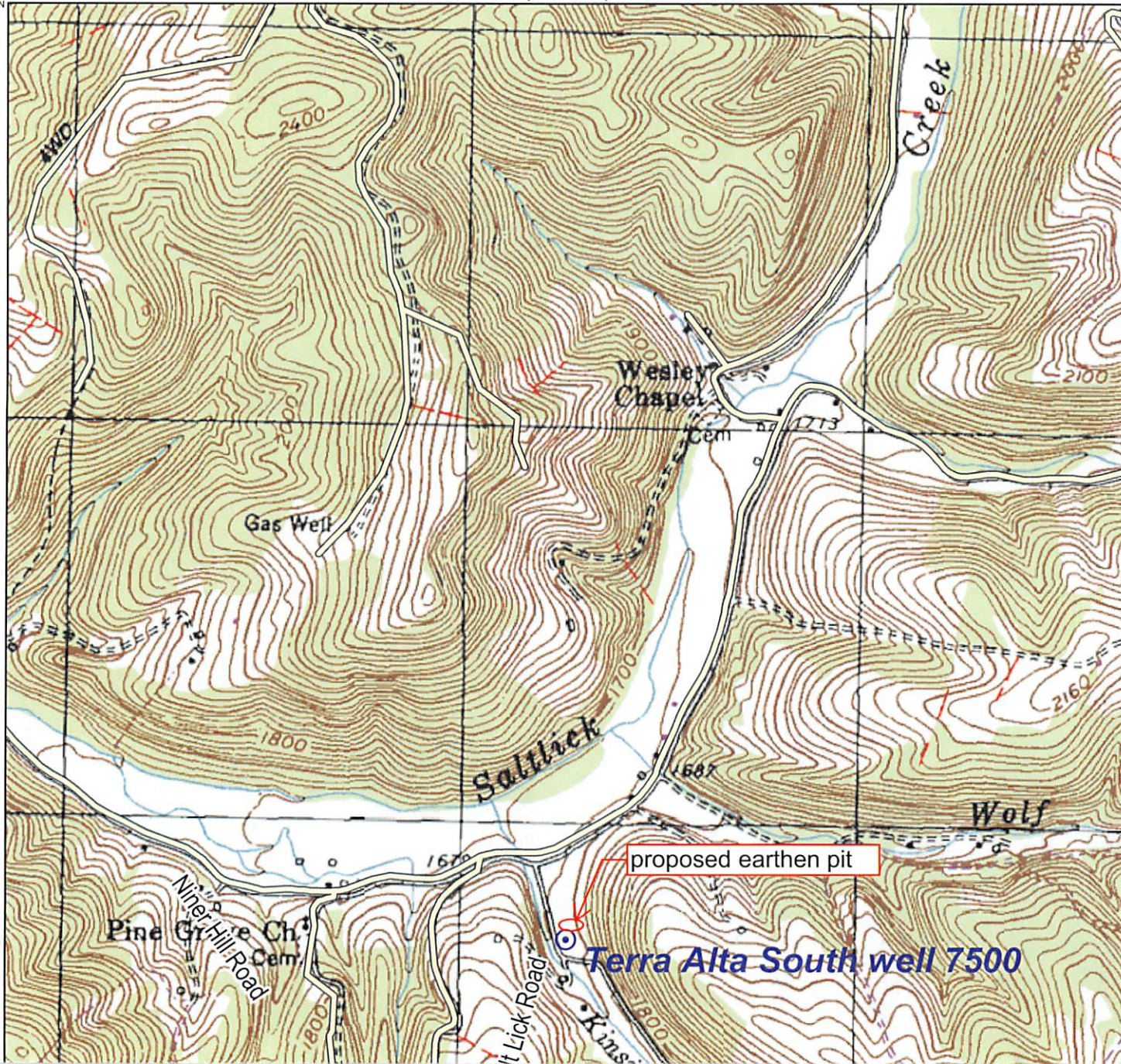
TERRA ALTA QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(SANG RUN)

079° 37' 11.0012" W
039° 24' 06.1311" N

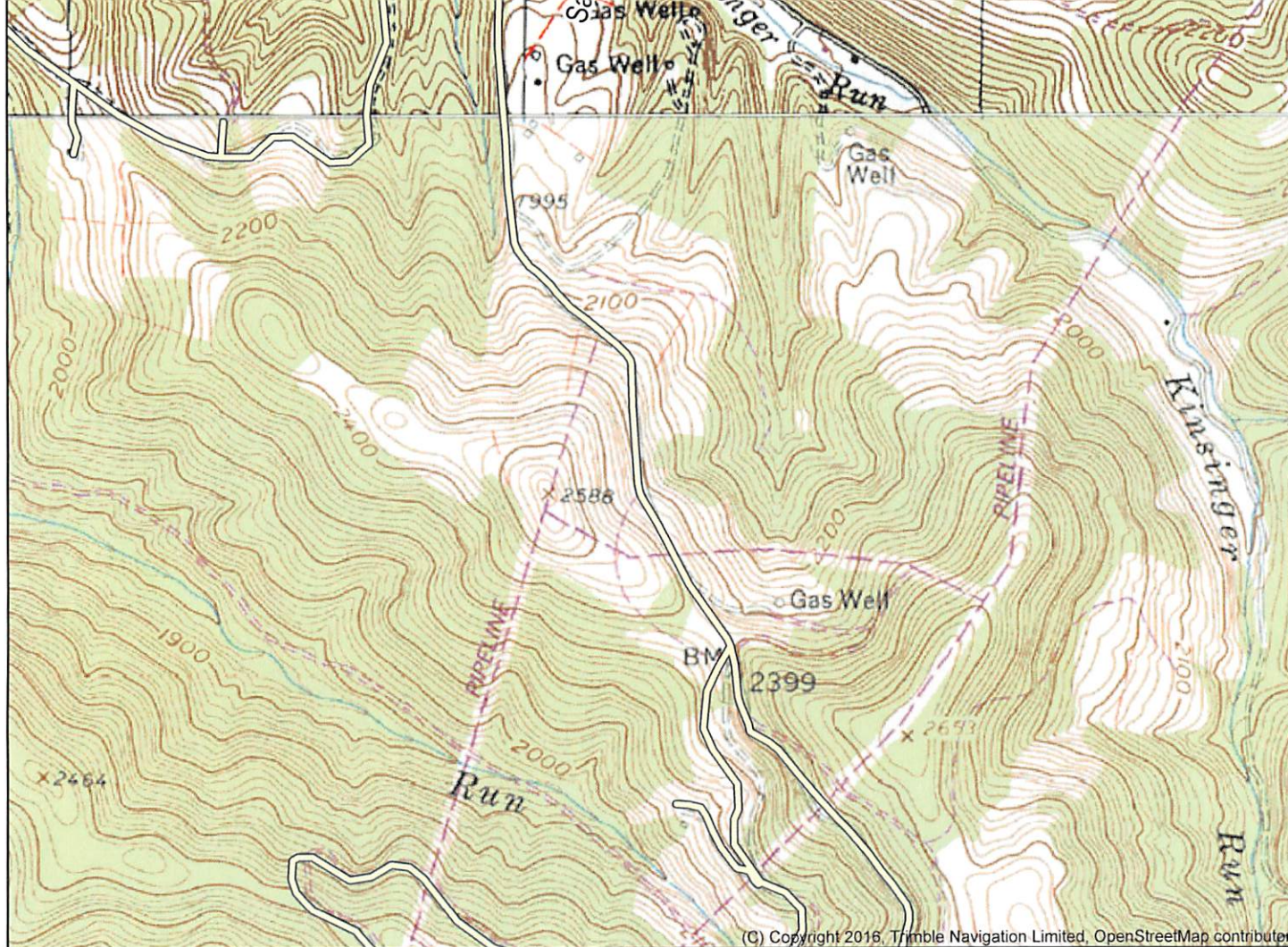
(CUZZART)

079° 35' 12.1740" W
039° 24' 06.1311" N



(KINGWOOD)

(OAKLAND)



039° 21' 30.7447" N
079° 37' 11.0012" W

(C) Copyright 2016, Trimble Navigation Limited, OpenStreetMap contributors
Printed: Fri Mar 16, 2018

039° 21' 30.7447" N
079° 35' 12.1740" W

(ROWLESBURG)

(TABLE ROCK)

Produced by Trimble Terrain Navigator Pro
Topography based on USGS 1:24,000 Maps
North American 1983 Datum (NAD83)

To place on the predicted North American 1927 move the
projection lines 11M and 19M E

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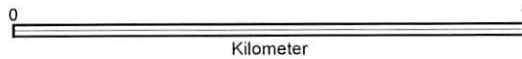
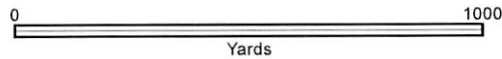
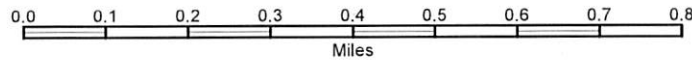
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Declination



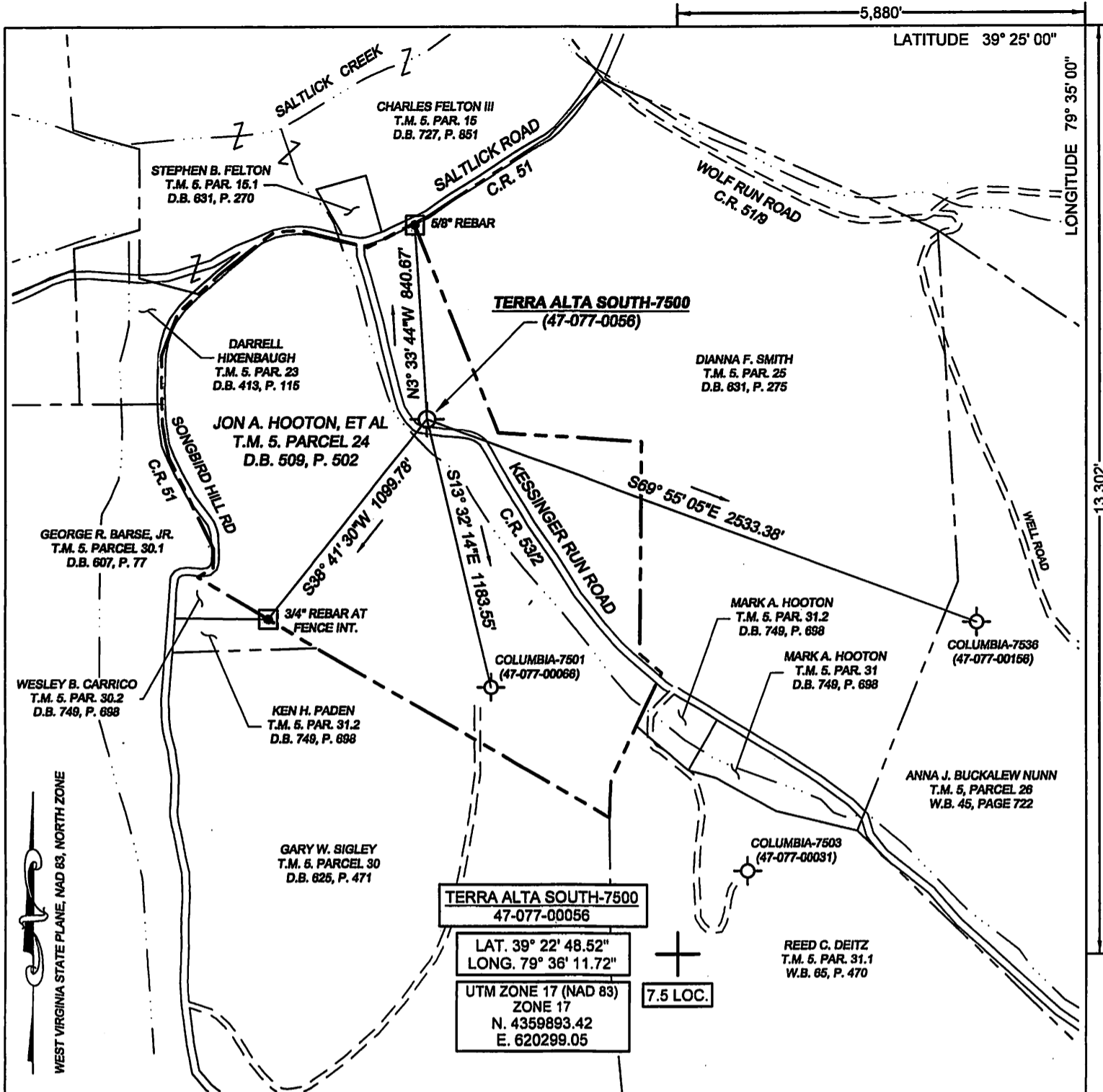
GN 0.88° E
MN 9.34° W

(AURORA)
SCALE 1:14400



CONTOUR INTERVAL 20 FT

39079-D4-TM-024
TERRA ALTA, WV
JAN 1, 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

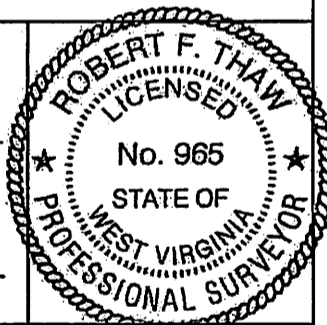
FILE No 1701-2345-001-023
 DWG No. TERRA ALTA SOUTH-7500
 SCALE 1"=600'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION TRIMBLE R8-3
 GPS UNIT

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 DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED)

ROBERT F. THAW

PS #965



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 NITRO, WV



DATE FEBRUARY 12, 2018
 OPERATOR'S WELL No. 7500
 API WELL No.

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE 47 COUNTY 077 PERMIT 00056P
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1692.1' WATER SHED KESSINGER RUN OF SALTICK CREEK
 DISTRICT UNION COUNTY PRESTON
 QUADRANGLE TERRA ALTA, WV
 SURFACE OWNER JON A. HOOTON, RONALD D. HOOTON, JO ANN HOOTON FRAME ACREAGE 76+/-
 OIL & GAS ROYALTY OWNER J.A. HOOTON, S.A. PERRILL, AND D.C. NICHOLS II REVOCABLE LIVING TRUST
 LEASE No. 1090604 LEASE ACREAGE 76
 PROPOSED WORK: DRILL 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 ORISKANY ESTIMATED DEPTH 4954
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT PAUL AMICK
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS P.O. BOX 1273, CHARLESTON W.V.
25325-1273 25325-1273