



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Tuesday, March 22, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC
STORAGE TECHNICAL SERVICES - 6TH FLOOR
1700 MACCORKLE AVE. SE.
CHARLESTON, WV 25314

Re: Permit approval for 7377
47-077-00033-00-00

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

Operator's Well Number: 7377
Farm Name: LEWIS, C. E.
U.S. WELL NUMBER: 47-077-00033-00-00
Vertical Plugging
Date Issued: 3/22/2022

I

4707700033P

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.

03/25/2022

4707700033P

WW-4B
Rev. 2/01

1) Date _____, 2022
2) Operator's _____
Well No. Terra Alta 7377
3) API Well No. 47-077 - 00033

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____ / Gas X / Liquid injection ____ / Waste disposal ____ /
(If "Gas, Production ____ or Underground storage X) Deep X / Shallow ____

5) Location: Elevation 2226.0 ft Watershed Irish Run of Saltlick Creek
District Portland County Preston Quadrangle Terra Alta

6) Well Operator Columbia Gas Transmission LLC 7) Designated Agent Maria Medvedeva
Address 1700 MacCorkle SE Address 1700 MacCorkle SE
Charleston, WV 25314 Charleston, WV 25314

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gayne Knitowski Name Contractor Services Inc
Address PO Box 108 Address 929 Charleston Road
Gormanian, WV 26720 Spencer, WV 25276

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

Refer to enclosed:

- 1) Well job plan.
- 2) Prior to P&A wellbore schematic.
- 3) Proposed P&A wellbore schematic.

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

Work order approved by inspector



Date

2/3/2022

03/25/2022

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 3	DATE JOB PREPARED: 1/24/2022
Objective: Plug and Abandon				LAST PROFILE UPDATE:	
TITLE: Plug and Abandon		WELL: 7377 (OB)		WORK TYPE: MOD	
FIELD: Terra Alta	SHL (Lat/Long): 39.43444 -79.56917		API: 47-077-00033-0000		
STAT: WW	BHL (Lat/Long): 39.43444 -79.56917		CNTY: Preston		
TWP: Portland					
PROCEDURE (page 1)					

NOTE: All cement used will be Class A, slurry weight 15.6ppg, slurry yield 1.18 cuft/sk. All spacers will be 6% Bentonite gel

- 1 Obtain State well work permit, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
 - 2 Notify landowner.
 - 3 Obtain General Work Permit and Wellsite Review & Turnover Form from Operations.
 - 4 Notify Reservoir Engineering & Geosciences (REG) of intent to take well out of service.
 - 5 Notify environmental inspector prior to beginning work. If required, notify State/Federal regulatory agencies prior to beginning work.
 - 6 Prepare access road and well site. Install ECD's per EM&CP.
 - 7 Document and report to WE&T the initial casing and annular pressures.
 - 8 Blow down all annuli and replace fittings as necessary. Leave annuli open to atmosphere for monitoring.
 - 9 Run caliper.
 - 10 Load / top 7x8 and 8x10 annuli with kill fluid. Top off all remaining annuli with FW. Document volumes.
 - 11 Kill well with 10.7ppg viscosified fluid.
 - 12 Dig around base of wellhead to uncover casing tops and remove cement if present.
 - 13 MIRU service rig.
 - 14 NU 7-1/16" Cameron BOPE (blind/shear + pipe + annular). Will need kill/choke outlets below blind/shear rams.
 - 15 Function and pressure test BOPE to low (250 psig) and high (2500 psig).
 - 16 Obtain CBL inside 7" casing from TD to surface - keep hole full. Send digital copy of CBL to WE&T engineer and consult on next Steps.
 - 17 RIH with 2-3/8" work string w/ cut-lip shoe, wash to TD (~5822'), and install balanced cement plug from TD to depth of cement top behind 7" csg.
 - 18 PU above cement top, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC (minimum 8 hrs).
 - 19 RIH and tag cement. If cement top is deeper than 5100' then spot a second balanced cmt plug.
 - 20 Install 7" CIDBP above cement plug.
 - 21 Top off 7" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
 - 22 Top off 7x8, 8x10, and 10x13 annuli with fluid again.
 - 23 Plumb 7x8, 8x10, 10x13 annuli to flowback tank with adjustable choke.
 - 24 Perforate 7" csg above CIBP and attempt to circulate to surface or establish injection.
- * Consult with WE&T engineer on results.**
- 25A If circulation to surface established, consult with WE&T engineer for procedure:
- > Circulate kill weight fluid until good kill density fluid is returned.
 - > RIH with sliding-sleeve style cement retainer on work string.
 - > Set retainer above perfs.
 - > Establish circulation.
 - > Squeeze cement behind 7" casing with pre-determined cement volume that occupies no more annular volume than that required to place top of cement at 2300'.
 - > Disengage from retainer, reverse circulate to clean tubulars, and TOH.
 - > WOC 24 hours.
 - > Obtain CBL.
- 25B If no circulation to surface, but injection established, consult with WE&T engineer for procedure:
- > RIH with sliding-sleeve style cement retainer on work string.
 - > Set retainer above perfs.
 - > Establish injection.
 - > Disengage from retainer and spot cement at bottom of work string.
 - > Squeeze cement behind 7" casing with pre-determined cement volume that occupies no more than annular volume that required to place top of cement at 2300'.
 - > Disengage from retainer, reverse circulate to clean tubulars, and TOH.
 - > WOC 24 hours.
 - > Obtain CBL.
- 25C If circulation/injection not established, perforate (per WE&T engineer) and repeat process above.
- * Note that during steps above cement plugs must be installed across all perf zones, casing shoes, and O/G/W zones.
- If needed install cement plugs across all perf intervals and spot cement plug to 2300'.

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PREPARED BY: Maria Medvedeva	REVIEWED BY: James Amos	APPROVED: Brent Criser
PREP DATE: 1/24/2022		BK 2/3/2022

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 4	DATE JOB PREPARED: 1/24/2022
Objective: Plug and Abandon			LAST PROFILE UPDATE:		
TITLE: Plug and Abandon			WORK TYPE: MOD		
FIELD: Terra Alta	WELL: 7377 (OB)				
STAT: WV	SHL (Lat/Long): 39.43444	-79.56917	API: 47-077-00033-0000		
DIST/TWP: Portland	BHL (Lat/Long): 39.43444	-79.56917	CNTY: Preston		
PROCEDURE (page 2)					



- 26 Release all annular pressure and top off.
- 27 ND BOPE.
- 28 Weld pulling nipple on 7" csg and pull seals and slips.
- 29 NU 11" BOPE (blind ram + pipe ram + annular) on top of 8-5/8" csg. Need kill/choke outlets below blind/shear.
- 30 Function and attempt to pressure test BOPE to low (250 psig) and high (2500 psig). Report results to WE&T engineer.
- 31 Wireline freepoint and cut / pull all 7" casing that is free.
- 32 Install balanced cement plug from PBTD to a minimum of 100' above 7" csg stub. WOC and tag.
- 33 ND BOPE and remainder of wellhead.
- 34 Weld pulling nipple on 8-5/8" csg and dress top of 10-3/4" csg to accommodate BOPE.
- 35 NU 11" spool (with kill/choke outlets) and 11" annular BOP on top of 10-3/4" csg.
- 36 Function and attempt to pressure test BOPE to low (250 psig) and high (500 psig). Report results to WE&T engineer.
- 37 Attempt to pull all 8-5/8" csg. If can't pull all then wireline freepoint and cut/pull all that is free.
- 38 TIH with work string and install balanced cement plugs from top of last cement plug to depth of 600'.
- 39 POOH to above cement, reverse circulate to clean tubulars, and WOC (minimum 4 hrs).
- 40 RIH and tag cement. If cement top is less than 900' then install second cement plug.
- 41 TOOH and ND BOP.
- 42 Weld pulling nipple on 10-3/4" csg.
- 43 Attempt to pull all 10-3/4" csg. If can't pull all then wireline freepoint and cut/pull all that is free.
- 44 TIH with work string and install balanced cement plugs from top of last cement plug to surface.
- 45 Grout all annuli as deep as possible.
- 46 RDMO service rig.
- 47 Erect monument per state regulations. Reclaim location and lease road.
- 48 P&A complete.
- 49 Notify REG / WE&T / Project controller that project is in-service.

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PREPARED BY: Maria Medvedeva	REVIEWED BY: James Amos	APPROVED: Brent Criser
PREP DATE: 1/24/2022		<i>Handwritten signature and date: 2/3/2022</i>

~ not to scale ~

TERRA ALTA 7377

Proposed P&A

(as of 01/24/2022)

WILL BE CEMENTED TO SURFACE W/ CLASS A CEMENT *gum*

13-3/8" H-40 48# csg @ 22'
(no record of cement)

10-3/4" J-55 40.5# csg @ 409'
(no record of cement)

8-5/8" J-55 24# csg @ 2013'
(no record of cement)

Attempts will be made to perf and squeeze cement behind 7" csg.

Cast Iron Bridge plug

Cement top unknown

7" 23# J-55 csg @ 5241'
(no record of cement - 1953 completion report indicates 367 bags of cement purchased - no record of where it was used)

Lime formation
Water show @ 180' of 1/2 bailer/hr
Water show @ 270' of 2 bailers/hr
Water show @ 360' of 10 bailers/hr

Sea Level @ 2234 ft

Shale / Lime / Sand

Top of the 7" casing stub @ 2300'

Tully Lime 4666 - 4695'

Shale / Lime / Sand

Lime 5226 - 5248'

Chert 5248 - 5363'

Shale 5363 - 5428'

Onodaga Lime 5468 - 5485'

Chert 5485 - 5629'

Shale 5629 - 5680'

Oriskany 5680 - 5820'
(gas storage)
* water show at 1/2 bailer in 24 hrs

Helderberg Lime 5820 - 5822'

TD 5822'

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~ not to scale ~

TERRA ALTA 7377

Prior to P&A

(as of 01/19/2022)

Lime formation
Water show @ 180' of 1/2 bailer/hr
Water show @ 270' of 2 bailers/hr
Water show @ 360' of 10 bailers/hr

Sea Level @ 2234 ft

Shale / Lime / Sand

Tully Lime 4666 - 4695'

Shale / Lime / Sand

Lime 5226 - 5248'

Chert 5248 - 5363'

Shale 5363 - 5428'

Onodaga Lime 5468 - 5485'

Chert 5485 - 5629'

Shale 5629 - 5680'

Oriskany 5680 - 5820'
(gas storage)

* water show at 1/2 bailer in 24 hrs

Helderberg Lime 5820 - 5822'

13-3/8" H-40 48# csg @ 22'
(no record of cement)

10-3/4" J-55 40.5# csg @ 409'
(no record of cement)

8-5/8" J-55 24# csg @ 2013'
(no record of cement)

Cement top unknown

7" 23# J-55 csg @ 5241'
(no record of cement - 1953 completion report indicates 367 bags of cement purchased - no record of where it was used)

TD 5822'

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Wahlerland & Allegheny Gas Company

7377

Division 4
 Record of well No. 480 on Cora E. Lewis Farm 117 Acres
 Terra Alta Field Portland Dist. Preston County W. Va. State
 Bld Commenced March 3 1952 Completed March 21 1952
 Drilling Commenced April 4 1952 Completed December 31 1952
 Contractor Union Drilling Company Address Washington, Pa.
 Driller's Name Royal Varner and O.G. Hunt

CASING AND TUBING RECORD

Conductor	12"	10"	8 1/4"	7"	6 3/8"	5 1/2"	4"	3"	
Used in Dril.	2118'	40817'	201313'	524017'					Tbds. Off
Left in well	2118'	40817'	201313'	524017'					Tbds. Off

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Co. Pl.	Volume After Co. Pl.
						Top	Bottom		

VOLUME AND PRESSURE

Date	Fluid in Test	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R.P.	4800' Pressure	Notes
						1	2	3	4	5			
12-31-52	40/10	Water	2"	198,312	Oriskany	0	2	4	4	6	-	1060'	

TOTAL INITIAL OPEN FLOW

198,312 Cuft.

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Lime	4549	4564	15	
Shale	4564	4666	2	
Bully Lime	4666	4695	29	
Shale	4695	4690	105	
Lime	4890	4905	15	
Shale	4905	5081	176	
Lime	5081	5237	156	
Brown Break	5237	5226	1	
Lime	5226	5248	22	Chart Card
Chart Sand	5248	5363	115	
Shale Break	5363	5428	65	
Chart Sand	5428	5468	40	
Onedago Lime	5468	5485	17	
Chart Sand	5485	5629	144	
Shale Break	5629	5680	51	
Oriskany Sand	5680	5820	140	Water 1/2 Blr. in 24 Hour
Hidleberg Lime	5820	5822	2	
Total Depth	5822			

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WV Department of Environmental Protection

Well acidized with 1000 Gals. of Acid. Gas tested 44/10W-2" 24 Hrs. After acidizing

Examined above information and measurements and found to be correct by

Union Drilling Co. Inc. Driller

Examined and Approved by

G. P. ... Field Superintendent

NOTE - This above blank must be filled out manually by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with true true measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

03/25/2022

100-7377

Form 100-600

Monongahela & Allegheny Gas Company

Division _____ on **Cora E. Lewis** Farm **117** Acres

Record of well No. **480** on **Cora E. Lewis** Farm **117** Acres
Terra Alta Field **Portland Dist.** Traverse District **Preston County** **W. Va.** State

Rig Commenced **March 5** 19**52** Completed **March 21** 19**52**

Drilling Commenced **April 4** 19**52** Completed **December 31** 19**52**

Contractor **Union Drilling Company** Address **Washington, Pa.**

Driller's Name **Royal Varner and O.G. Hunt**

7377

CASING AND TUBING RECORD

	Conductor	18"	16"	14"	12"	10"	8 1/2"	8"	6"	4"	3"
Used in Drilling	=	2118'	4081'	2013'	6240'	7'	-	-	-	-	Tkds. Off
Left in well	=	2118'	4081'	2013'	5240'	7'	-	-	-	-	Tkds. Off

PACKER RECORD

SHOOTING RECORD

Use	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		

VOLUME AND PRESSURE

Date	Shooting in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MM					24 Hour R.P.	4000' SEC. FT.	Hours
						1	2	15	30	45			
12-31-52	40/10	Water	2"	198.312	Oriskany	0	2	4	4	6	-	1060	

TOTAL INITIAL OPEN FLOW **198.312 Cuft.** CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Clay	0	10	10	
Lime	10	180	170	Water at 180'. 1 Bailer per hour
Lime	197	840	643	Water at 270'. 2 Bailsers per hour
Lime & Slate	840	1295	455	Water at 320'. 10 Bailsers per hour
Lime	1295	1395	100	
Lime & Brown Sand	1395	1455	60	
Lime	1455	1470	15	
Slate	1470	1508	38	
Broken Lime	1508	2013	505	
Lime	2013	2410	397	
Lime	2410	2470	60	
Lime & Slate	2470	2865	395	
Lime	2865	2875	10	
Broken Lime	2875	2915	40	
Lime	2915	2935	20	
Lime & Slate	2935	3300	365	
Lime	3300	3375	75	
Lime & Slate	3375	3402	27	
Lime	3402	3445	43	
Lime & Slate	3445	3942	497	
Brown Shale	3942	4085	143	
Lime	4085	4105	20	
Shale	4105	4115	10	
Shale	4115	4212	97	
Lime	4212	4250	38	
Shale	4250	4460	210	
Shale	4460	4500	40	
Shale	4500	4549	49	

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Inspected above information and measurements and found to be correct by
Union Drilling Co. Inc. The Driller/Contractor

Examined and Approved by
T. Robert S. ... Field Superintendent

NOTE—This record should not be filed out carefully by the contractor with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All measurements and hours worked must be given by state proper units, with correct line measurements, and under the head of "Remarks" must be recorded in what kind and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

03/25/2022



4707700083P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 9

Kingwood

WELL RECORD

Permit No. PRES-33

Oil or Gas Well Gas
(Type)

Company CIMBERLAND AND ALLEGHENY GAS COMPANY
Address 800 Union Trust Bldg., Pgh., Penna
Farm Cora E. Lewis Acres 117
Location (waters) _____
Well No. 480 Elev. 2239'
District Portland County Princeton
The surface of tract is owned in fee by Cora E. Lewis
R. D. #3, Terra Alta, W. Va.
The Mineral Rights are owned by Cora E. Lewis
of R. D. #3, Terra Alta, West Virginia
Drilling commenced April 4, 1952
Drilling completed December 31, 1952
Date Shot _____ From _____ To _____
With _____
Open Flow 40/10ths Water in two Inch
/10ths Merc. in Inch
Volume 198,312 Cu. Ft.
Rock Pressure 1060 lbs. 48 hrs.
Oil _____ bbls, 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
12			Kind of Packer
12	21'8"	21'8"	
10	408'7"	408'7"	Size of
8 1/2	2013'3"	2013'3"	
8 7/8	5240'7"	5240'7"	Depth set
3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

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

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay			0	10			
Lime			10	180			
Lime			197	840			Water at 180', 1/2 bailer per hour
Lime & Slate			840	1295			Water at 270', 2 bailers per hour
Lime			1295	1395			Water at 360', 10 bailers per hour
Lime & Benson Sand			1395	1435			
Lime			1435	1470			
Slate			1470	1508			
Broken Lime			1508	2013			
Lime			2013	2410			
Lime			2410	2470			
Lime & Slate			2470	2865			
Lime			2865	2875			
Broken Lime			2878	2915			
Lime			2915	2935			
Lime & Slate			2935	3300			
Lime			3300	3375			
Lime & Slate			3375	3402			
Lime			3202	3445			
Lime & Slate			3445	3942			
Brown Shale			3942	4085			
Lime			4085	4105			
Shale			4105	4115			
Shale			4115	4212			
Lime			4212	4250			
Shale			4250	4460			
Shale			4460	4500			
Shale			4500	4549			
Lime			4549	4564			
Shale			4564	4666			
fully Lime			4666	4695			
Shale			4695	4890			
Lime			4890	4905			
Shale			4905	5081			
Lime			5081	5237			
Brown Break			5237	5226			
Lime			5226	5248			
Chert Sand			5248	5363			



(Over)

03/25/2022

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale Break			5363	5428			
Chert Sand			5428	5468			
Onedago Lime			5468	5485			
Chert Sand			5485	5629			
Shale Break			5629	5680			
Oriskany Sand			5680	5820			
Hidleberg Lime			5820	5822			
Total Depth			5822				

Water $\frac{1}{2}$ Bailer in 24 hours

Well acidized with 1000 Gallons of Acid--Gas tested 4" CW-2" 24 Hours after acidizing

Date February 13, 1953

APPROVED CINCINNATI AND ALLEGHENY GAS CO.

By Paul S. Cooper

(Title) Land Agent

03/25/2022



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

To THE DEPARTMENT OF MINES,
Charleston, W. Va.

No coal present
COAL OPERATOR OR COAL OWNER

ADDRESS

COAL OPERATOR OR COAL OWNER

ADDRESS

OWNER OF MINERAL RIGHTS

ADDRESS

CUMBERLAND AND ALLEGHENY GAS COMPANY
NAME OF WELL OPERATOR

800 UNION TRUST BUILDING
PITTSBURGH, PENNSYLVANIA
COMPLETE ADDRESS

February 11, 1952

PROPOSED LOCATION

Portland District

Preston County

Well No. h-180 39° 30'
29° 30'

Cora E. Lewis Farm

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated June 12, 1946, made by Cora E. Lewis, widow, to William E. Snee, and recorded on the 5th day of September, 1946, in the office of the County Clerk for said County in Book 215, page 223.

The enclosed plat was prepared by a competent engineer and shows the proposed location of a well to be drilled for oil and gas by the undersigned well operator on the farm and in the Magisterial District and County above named, determined by survey and courses and distances from two permanent points, or land marks.

The undersigned well operator is informed and believes there are no coal operators operating beds of coal beneath said farm or tract of land on which said well is located, or within 500 feet of the boundaries of the same, who have mapped the workings and filed their maps as required by law, excepting the coal operators or coal owners (if any) above named as addressees.

The above named coal operators or coal owners (if any) are notified that any objections they may desire to make to such proposed location, or which they are required to make by Section 3 of said Code, if the drilling of a well at said proposed location will cause a dangerous condition in or about their respective coal mines, must be received by, or filed with the Department of Mines within ten days from the receipt of a copy of this notice and accompanying plat by said Department. Said coal operators are further notified that forms for use in making such objections will be furnished to them by the Department of Mines promptly on request and that all such objections must set forth as definitely as is reasonably possible the ground or grounds on which such objections are based and indicate the direction and distance the proposed location should be moved to overcome same.

(The next paragraph is to be completed only in Department's copy.)

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address day before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,

Paul Cooper
MINES AND METALS LAND AGENT

CUMBERLAND AND ALLEGHENY GAS COMPANY
STREET

800 UNION TRUST BUILDING
CITY OR TOWN

PITTSBURGH, PENNSYLVANIA
STATE



Address of Well Operator }

*Section 3. If no such objections be filed or be found by the department of mines, within said period of ten days from the receipt of said notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a drilling permit reciting the filing of such plat, that no objections have been made by the coal operators to the location, or found thereto by the department, and that the same is approved and the well operator authorized to proceed to drill at said location.



Select County: (077) Preston **Select datatypes:** (Check All)

Enter Permit #: 00033

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

[Table Descriptions](#)
[County Code Translations](#)
[Permit-Numbering Series](#)
[Usage Notes](#)
[Contact Information](#)
[Disclaimer](#)
[WVGES Main](#)
["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 77 Permit = 00033

Report Time: Tuesday, March 22, 2022 11:21:44 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4707700033	Preston	33	Portland	Terra Alta	Kingwood	39.4329	-79.569348	623126.7	4365794.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT.
4707700033	12/31/1952	Original Loc	Completed	Cora E Lewis	4	480	C-7677		Cora E Lewis	Cumberland & Allegheny Gas Co.		

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD
4707700033	12/31/1952	4/4/1952	2239	Ground Level	Terra Alta	Helderberg	Oriskany	Outpost (Extension) Test	Outpost (Extension) Well	Gas	Cable Tool	Acidized	5822	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4707700033	12/31/1952	Water	Fresh Water	Vertical			180						1
4707700033	12/31/1952	Water	Fresh Water	Vertical			270						2
4707700033	12/31/1952	Water	Fresh Water	Vertical			360						10
4707700033	12/31/1952	Pay	Gas	Vertical			5820	Oriskany	0	198			

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4707700033	Original Loc	Benson	Well Record	1395	Qstnble Pick	40	Qstnble Pick	2239	Ground Level
4707700033	Original Loc	Driller's Tully	Well Record	4666	Reasonable	29	Reasonable	2239	Ground Level
4707700033	Original Loc	Onondaga Ls	Well Record	5226	Reasonable	22	Reasonable	2239	Ground Level
4707700033	Original Loc	Huntersville Chert	Well Record	5248	Reasonable	115	Reasonable	2239	Ground Level
4707700033	Original Loc	Needmore Sh	Well Record	5363	Reasonable	65	Fault	2239	Ground Level
4707700033	Original Loc	Huntersville Chert	Well Record	5428	Msng/Repeated	201	Fault	2239	Ground Level
4707700033	Original Loc	Needmore Sh	Well Record	5629	Msng/Repeated	51	Qstnble Pick	2239	Ground Level
4707700033	Original Loc	Oriskany	Well Record	5680	Reasonable	140	Reasonable	2239	Ground Level
4707700033	Original Loc	Helderberg	Well Record	5820	Reasonable	0	Reasonable	2239	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O
-----	---------	---------	-------------	------------	------	-----------	--------	--------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	---

4707700033P

WW-4A
Revised 6-07

1) Date: 01.19.2022
2) Operator's Well Number
Terra Alta 7377

3) API Well No.: 47 - 077 - 00033

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>Dorothy A. Bolyard</u>	Name <u>Not operated</u>
Address <u>60 Lewis Lane</u>	Address _____
<u>Terra Alta, WV 26764</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Gayne Knitowski</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 108</u>	Name _____
<u>Gormanian, WV 26720</u>	Address _____
Telephone <u>304.546.8171</u>	_____

RECEIVED
Office of Oil and Gas
FEB 9 2022
WV Department of
Environmental Protection

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.

*CK# 055302
Amt \$ 100
Date 2/1/22*

Well Operator Columbia Gas Transmission

By: Maria Medvedeva 

Its: Senior Wells Engineer - Well Engineering and Technology

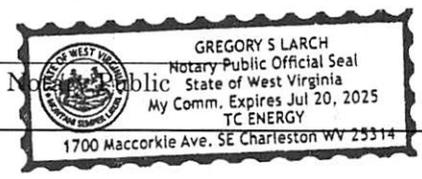
Address 1700 MacCorkle Ave SE

Charleston, WV 25314

Telephone 304-410-4313

Subscribed and sworn before me this 26 day of Jan

My Commission Expires July 20 2025



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 deprivacyoffier@wv.gov.

4707700033P

Columbia Gas Transmission, LLC
1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



January 20, 2022

Dorothy Bolyard
60 Lewis Lane
Terra Alta, WV 26764

RECEIVED
Office of Oil and Gas

FEB 9 2022

WV Department of
Environmental Protection

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Terra Alta 7377 (API 47-077-00033).

As part of the well permitting process, Columbia, the well operator, is required to provide a copy of all applicable permit application forms for your review and record retention.

Regards,

Maria Medvedeva
Senior Wells Engineer
Well Engineering & Technology
Columbia Gas Transmission, LLC

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Terra Alta, WV 26764

OFFICIAL USE

Certified Mail Fee	\$3.75
Extra Services & Fees (check box, add fee if appropriate)	\$7.05
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$8.95
Total Postage and Fees	\$15.75

Sent To
Dorothy Bolyard
60 Lewis Lane
Terra Alta, WV 26764

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 1970 0001 1850 2556



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. 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. 	<p>A. Signature X CO-19 <input type="checkbox"/> Agent</p> <p>B. Received by (Printed Name) MN 24 <input type="checkbox"/> Address</p> <p>C. Date of Delivery 2-2 <input type="checkbox"/></p>
<p>BOLY060 26764-RFS-1521 01/31/22</p> <p>NOTIFY SENDER OF NEW ADDRESS BOLYARD 11 MONUMENT LN MORGANTOWN WV 26508-9007</p>	<p>3. Service Type</p> <ul style="list-style-type: none"> <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <p><input type="checkbox"/> Priority Mail Express®</p> <ul style="list-style-type: none"> <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery
<p>www.tcenergy.com</p> <p>9590 9402 6856 1104 6302 55</p> <p>2. Article Number (Transfer from service label)</p> <p>7021 1970 0001 1850 2556</p>	<p>83/25/2022</p> <p>Mail Restricted Delivery (over \$500)</p>

www.tcenergy.com

SURFACE OWNER WAIVER

Operator's Well
Number

Terra Alta 7377

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

RECEIVED
Office of Oil and Gas

FEB 9 2022

WV Department of
Environmental Protection

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,
ETC.

_____	Date _____	Name _____
Signature		By _____
		Its _____
		Date _____

Signature

Date
03/23/2022

4707700033P

WW-4B

API No. 47-077-00033

Farm Name _____

Well No. Terra Alta 7377

Coal not operated

**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 ____/ 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: _____

By: _____ RECEIVED
Office of Oil and Gas

Its _____ FEB 9 2022

WV Department of
Environmental Protection

03/25/2022

WW-9
(5/16)

API Number 47 - 077 - 00033
Operator's Well No. Terra Alta 7377

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

Operator Name Columbia Gas Transmission OP Code 307032

Watershed (HUC 10) Irish Run of Saltlick Creek Quadrangle Terra Alta

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, brine, cement returns, bentonite gel

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)
- Undergound Injection (UIC Permit Number 34-167-23862)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Mud Master 64054; Reserve Environmental Services (WMGR 123SW008)
Appalachian Water Services (WMGR 123SW001))

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

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

Additives to be used in drilling medium? N/A

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

-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 *Maria Medvedeva*

Company Official (Typed Name) Maria Medvedeva

Company Official Title Senior Wells Engineer - Well Engineering and Technology

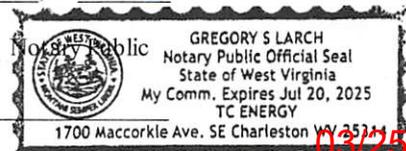
RECEIVED
Office of Oil and Gas

FEB 9 2022

WV Department of
Environmental Protection

Subscribed and sworn before me this 26 day of Jan, 20 22

My commission expires July 20 2025



03/25/2022

4707700033P

Terra Alta 7377

Operator's Well No. _____

Form WW-9

Proposed Revegetation Treatment: Acres Disturbed <1.0 Prevegetation pH 6 - 7

Lime 2 Tons/acre or to correct to pH 7 - 8

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch hay or straw @ 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

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:

Haym J. K... (signature)

Comments:

Reclaim site A.S.A.P

Title: Inspector

Date: 2/3/2022

Field Reviewed?

Yes

No

RECEIVED
Office of Oil and Gas

FEB 9 2022

WV Department of
Environmental Protection

03/25/2022

**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): Irish Run of Saltlick Creek Quad: Terra Alta
Farm Name: _____

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

- No fluids planned to be discharged.
- No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment.
- Accidental release from well fluids and spills from construction equipment are the only sources of contaminants to groundwater.
- All accumulated fluids to be hauled off site to UIC disposal facility.

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

All construction and well servicing equipment will be monitored and 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.

Saltlick Creek is at a distance of 0.08 miles NW.

The Terra Alta Water Works (WV3303917) is the closest Well Head Protection Area at a distance of 6.01 miles E from discharge area.

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

N/A

RECEIVED
Office of Oil and Gas
FEB 9 2022
WV Department of
Environmental Protection

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

03/25/2022

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 lubricants will be stored on site, but located within secondary containment. Accidental release from well fluids and spills from construction equipment are the only sources of contaminants to groundwater.

All construction and well servicing equipment will be monitored and inspected daily for leaks or spills.

Signature: 

Date: 01-19-2022

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Office of Oil and Gas

FEB 9 2022

WV Department of
Environmental Protection

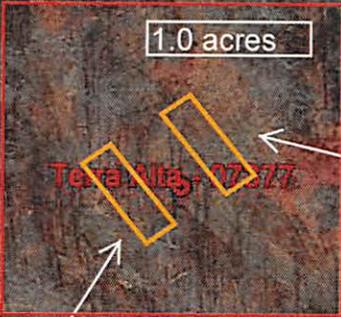
03/25/2022

WV DEP Reclamation Plan - Site Detail

Terra Alta well 7377 (API 47-077-00033)

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surface material to be applied as needed

Limit of Proposed Disturbance on existing well site



1.0 acres

Pit B
50' x 10' x 4' deep

Pit A
50' x 10' x 4' deep

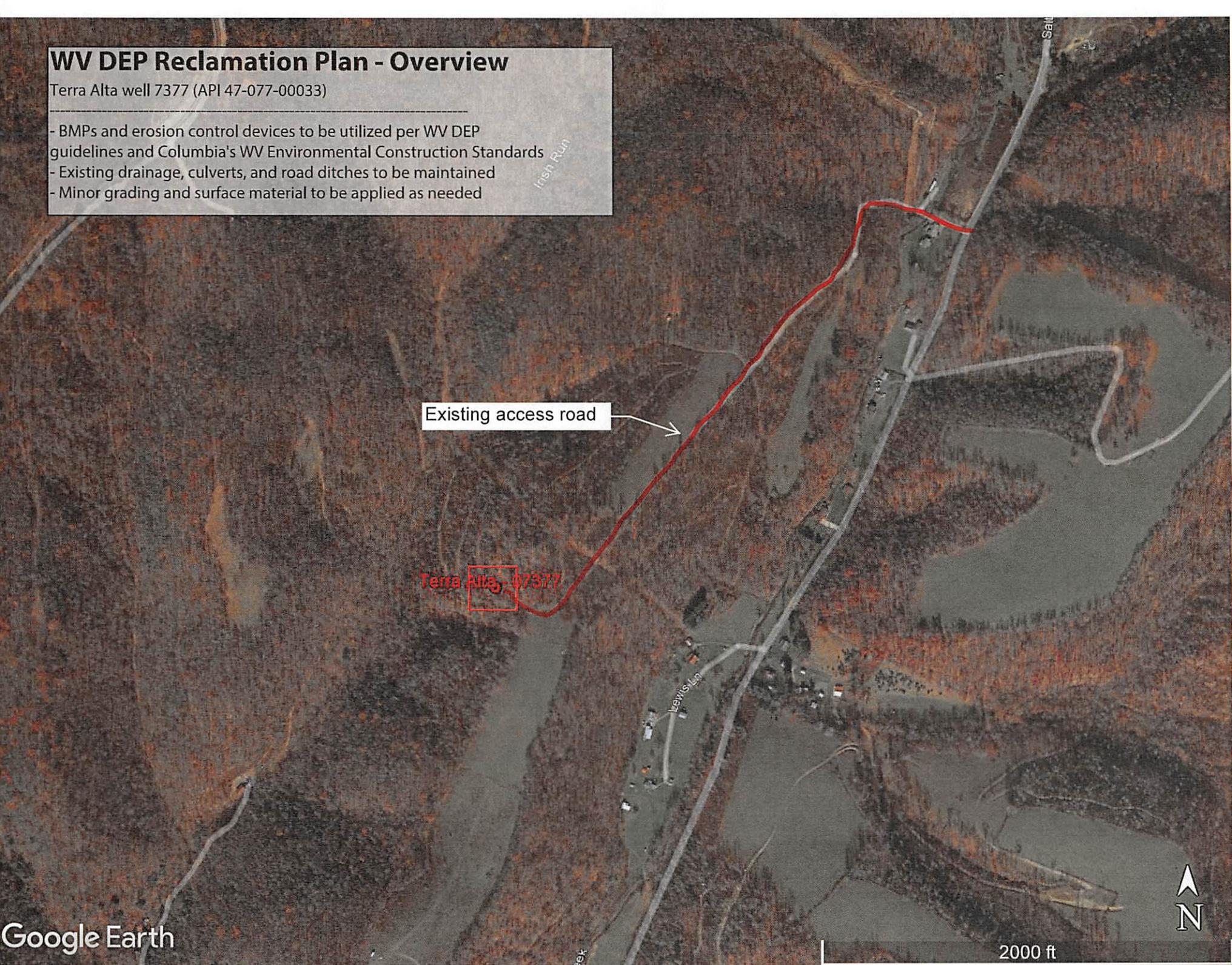


4707700033P

WV DEP Reclamation Plan - Overview

Terra Alta well 7377 (API 47-077-00033)

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surface material to be applied as needed



47-077-00033P

Untitled Map

Write a description for your map.

4707700033P

Legend

 17 S 623237 4365981

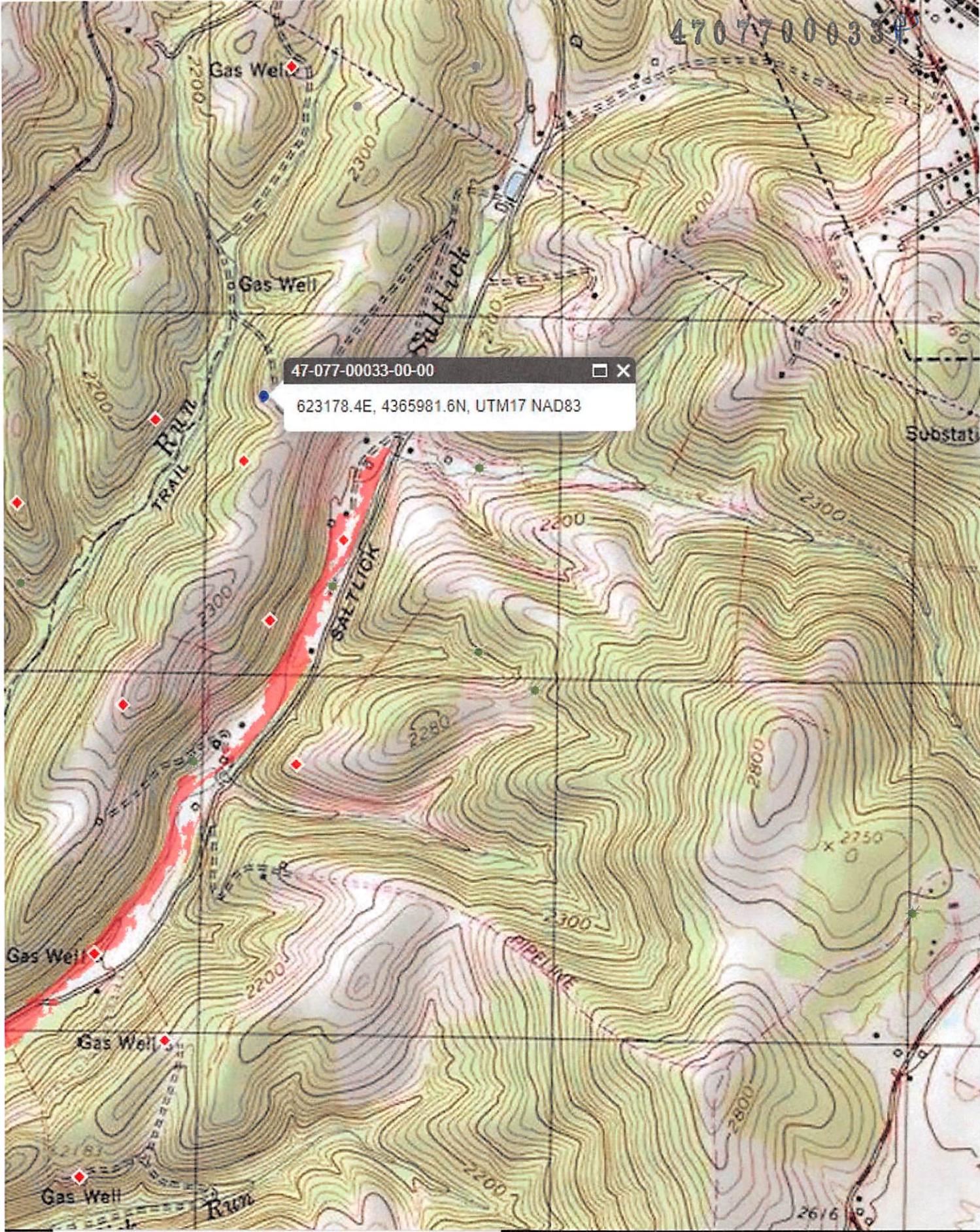


Google Earth



2000 ft

51



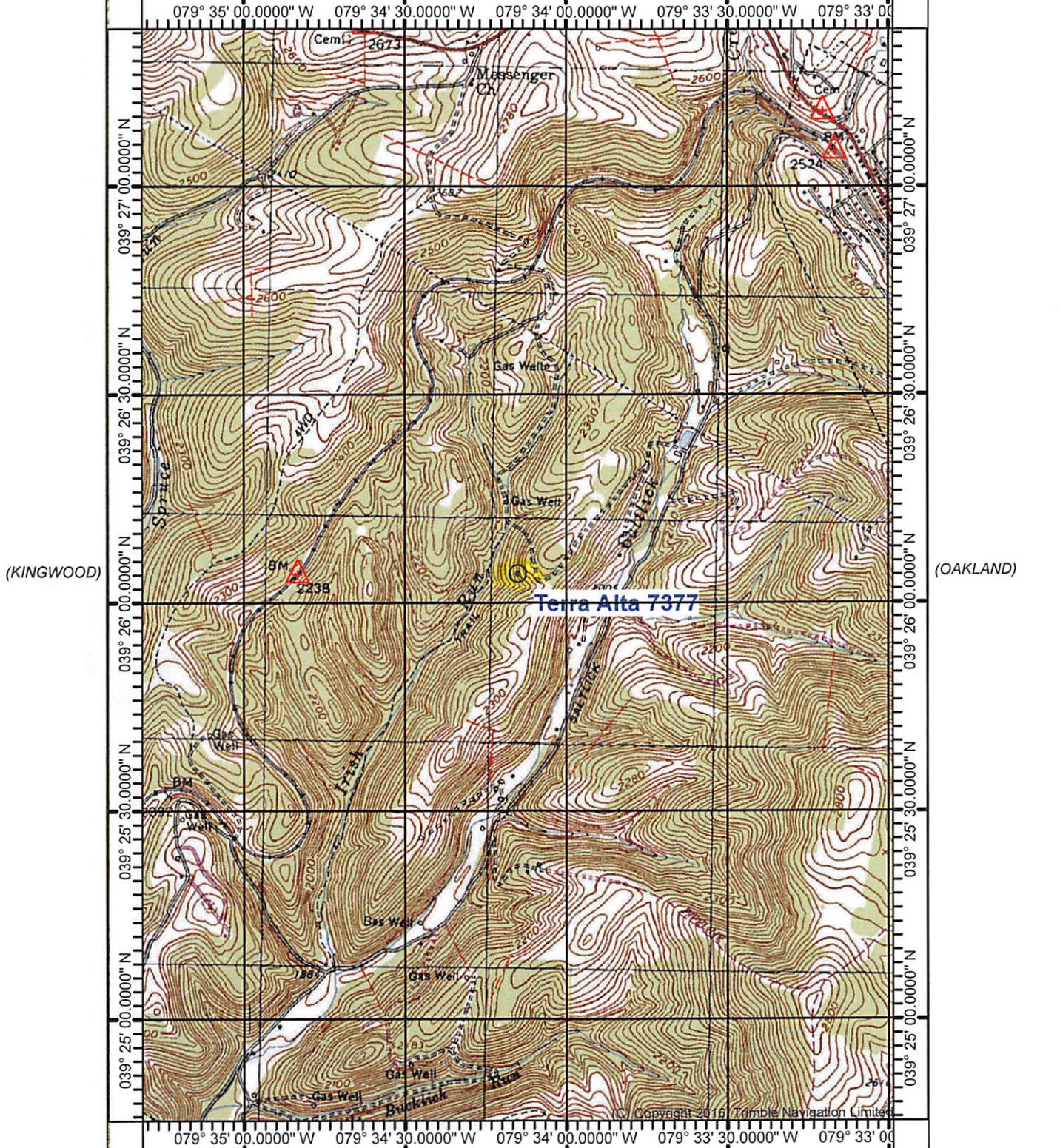
4707700033P
03/25/2022

4707700033P

(VALLEY POINT) 

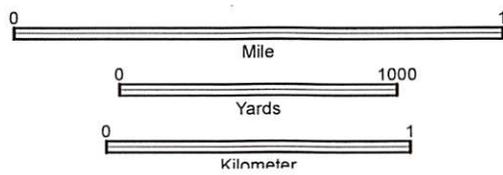
TERRA ALTA QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES (SANG RUN)

079° 35' 18.8946" W (CUZZART) 079° 32' 58.4874" W 039° 27' 22.5882" N



039° 24' 44.8591" N (ROWLESBURG) 079° 35' 18.8946" W (AURORA) SCALE 1:24000 079° 32' 58.4874" W (TABLE ROCK) 039° 24' 44.8591" N

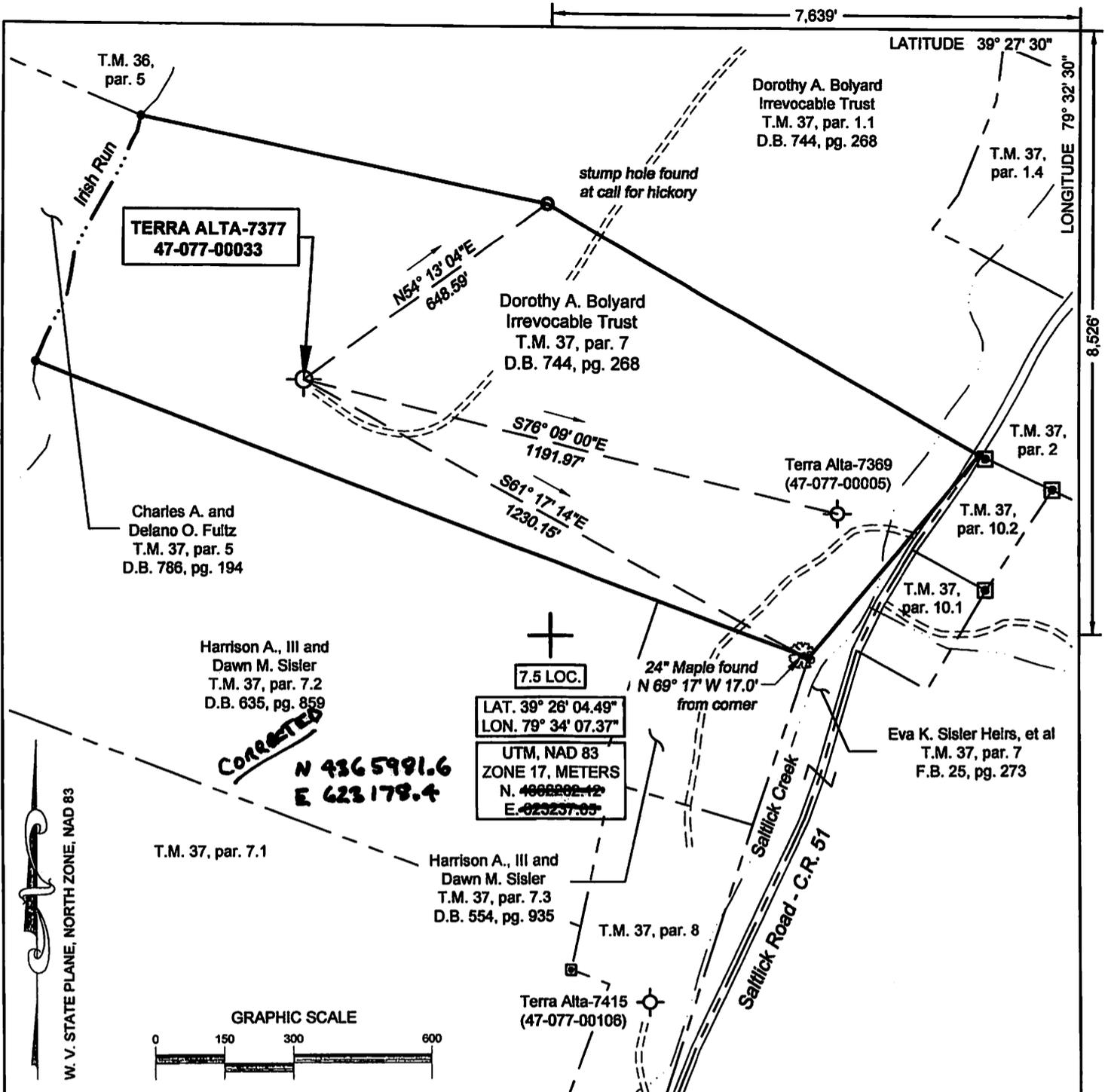
Produced by Trimble Terrain Navigator Pro
 Topography based on USGS 1:24,000
 Maps
 North American 1983 Datum (NAD83)
 To place on the predicted North American
 1927 move the projection lines 10M N and
 19M E



CONTOUR INTERVAL 20 FT

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

03/25/2022

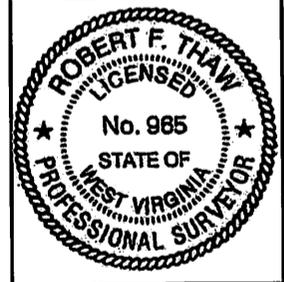


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 2201-2345-001-013
 DWG No. TERRA ALTA-7377
 SCALE 1"=300'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION TRIMBLE R10
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) [Signature]
 ROBERT F. THAW PS #965



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

DATE JANUARY 18 2022
 OPERATOR'S WELL No. 7377
 API WELL No. 47 077 - 00033P

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE COUNTY PERMIT

LOCATION: ELEVATION 2226.0' WATER SHED IRISH RUN OF SALTICK CREEK
 DISTRICT PORTLAND COUNTY PRESTON
 QUADRANGLE TERRA ALTA, WV

SURFACE OWNER DOROTHY A. BOLYARD ACREAGE 27.52
 OIL & GAS ROYALTY OWNER ROY L. LEWIS, ET AL
 LEASE No. 1090395-000 LEASE ACREAGE 118

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 5822

WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT MARIA MEDVEDEVA
 ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS 1700 MACCORKLE AVE., S.E. CHARLESTON, WV 25314

FORM IV-6 (8-78)

03/25/2022

4707700033P



McLaughlin, Jeffrey W
<jeffrey.w.mclaughlin@wv.gov>

TERRA ALTA 7377 UTM

1 message

Robert Thaw <robert.thaw@terraddon.com> Tue, Mar 22, 2022 at 10:38 AM
To: "Jeffrey.W.McLaughlin@wv.gov" <Jeffrey.W.McLaughlin@wv.gov>

Mr. McLaughlin

I am confirming that the correct UTM coordinates for TERRAD ALTA 7377 are as follows:

N 4365981.64

E 623178.35

47077000339

Robert F. Thaw, PS

Vice President - Survey Services

TERRADON Corp.

409 Jacobson Dr.

Poca, WV 25159

main://304.755.8291

direct://304.729.9105

mobile://304.415-4080

web://terraddon.com



TERRADON



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging Vertical Storage Well Work Permit API: 47-077-00033)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Tue, Mar 22, 2022 at 1:41 PM

To: maria_medvedeva@tcenergy.com, cervin@prestoncountywv.com, "Gayne J. Knitowski" <gayne.j.knitowski@wv.gov>

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

47-077-00033 - TERRA ALTA 7377

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry
Environmental Resource Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 41115
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

2 attachments

 **47-077-00033 - Copy.pdf**
8174K

 **IR-8 Blank.pdf**
228K

03/25/2022