



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

Thursday, July 7, 2022
WELL WORK PERMIT
Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for RIPLEY 7297
47-035-00495-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: RIPLEY 7297
Farm Name: STONE,STEPHEN & DEBORAH
U.S. WELL NUMBER: 47-035-00495-00-00
Vertical Re-Work
Date Issued: 7/7/2022

4703500495W

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

07/08/2022

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



February 16, 2022

WV DEP – Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304-2345

Enclosed is a well work permit application for the following Columbia Gas Transmission existing storage well:

Ripley 7297 (035-00495)

Please email to address below, and return hardcopies of permits to:

Columbia Gas Transmission
1700 MacCorkle Ave SE
Charleston, WV 25314
Attn: Maria Medvedeva

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Office of Oil and Gas

FEB 28 2022

WV Department of
Environmental Protection

If you have questions, feel free to call.

Regards,

Maria Medvedeva
Senior Wells Engineer
Well Engineering & Technology
Columbia Gas Transmission, LLC
Off: 304-357-2445
Mob: 304-410-4313
maria_medvedeva@tcenergy.com

CK# 055284
Amt \$ 900
Date 2/28/2022

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Columbia Gas Transmission, LLC 307032 Jackson Ravenswood Sandyville, WV
Operator ID County District Quadrangle

2) Operator's Well Number: Ripley 7297 3) Elevation: 604.4

4) Well Type: (a) Oil _____ or Gas X
(b) If Gas: Production _____ / Underground Storage X
Deep X / Shallow _____

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 4787

6) Proposed Total Depth: 4850 Feet Formation at Proposed Total Depth: Helderberg

7) Approximate fresh water strata depths: No water intervals reported by driller 1945

8) Approximate salt water depths: No salt water intervals reported by driller 1945

9) Approximate coal seam depths: None reported by driller 1945 RECEIVED Office of Oil and Gas

10) Approximate void depths, (coal, Karst, other): None reported by driller 1945 FEB 28 2022

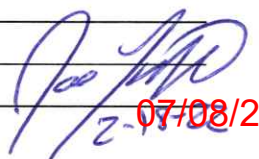
11) Does land contain coal seams tributary to active mine? No WV Department of Environmental Protection

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Install tubing spool, clean out to TD / drill rathole, run 2-7/8" tubing and cement to surface, perforate / frac to complete well.
Frac info: 1000 gals HCl acid, 300 bbls base fluid, 30000 lbs sand.
* casing and equipment listed below are existing

13) **CASING AND TUBING PROGRAM** * existing

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	16 *			15	15	
Fresh Water	8.625 *		24	1922	1922	20 sx
Coal						
Intermediate	7 *		22	4680	4680	66 sx
Production	4.5 *	J-55	12.6	4780	4780	299 sx
Tubing	2.875	N-80	6.4	4840	4840	195
Liners						

NEJ

Packers: Kind: _____
Sizes: _____
Depths Set _____

07/08/2022

Objective: Isolate leak in current 4.5" flowstring LAST PROFILE UPDATE:

TITLE: Sleeve with Cemented Tubing WORK TYPE: Break-Fix
FIELD: Ripley WELL ID: 7297
STATE: WV SHL (Lat/ Long) 38.890073 0 API: 47-035-00495
DIST/TWP: Ravenswood BHL (Lat/Long) 38.890073 0 CNTY: Jackson

Table with columns: EXISTING TUBULAR CONFIGURATION, OD (inches), WEIGHT (PPF), GRADE, THREAD, DEPTH (ft) TOP, DEPTH (ft) BOTTOM. Rows include Conductor, Surface, Intermediate, Production, Perforations, Wellhead.

FORMATION: refer to MISC INFORMATION section
DEPTH:
PAY: 4808
TD: 4808
PBTD:
KB-GL:
CSG DEPTH WELLBORE SCHEMATIC

Table with columns: D.H. EQUIPMENT, TYPE, DEPTH (ft). Rows include PACKER INFO (Upper/Lower), NIPPLE PROFILE INFO (Upper/Lower), SSSV INFO.

Table with columns: CEMENT INFO, Calc. TOC (ft). Rows include 0.000, 8.625, 7.000, 4.500 with descriptions of cement placement.

MISC INFORMATION
REFER TO WELL SUMMARY REPORT, WELLBORE DIAGRAM, LOGS, ETC. (see spreadsheet tabs below)
Misc other Relevant Well Info/Data
Maximum storage field surface pressure (MOP): 1675 psig
Maximum calculated bottom-hole pressure: 1925 psig
Minimum kill fluid density at max BH pressure: 8.6 ppg (assuming 200 psi over-balance)
Current AOF: 57 MMCFD (2016)
Top historical AOF: 62 MMCFD (2010)
2020 HRVRT: Indicates all Class 1
1999 CBL: Top logged depth 550'
Log indicates cement strung from TLI 650 to BLI 4788.
Log indicates 30' interval of decent cement bond between bottom of 7" csg and 4-1/2" packer, which should be adequately sealing Oriskany.
Note that well has storage sourced annular gas, and after diagnostics it appears there is a casing leak between 30-50 ft. Attempt was made to pull on 4-1/2" csg to pull wellhead slips but csg would not budge - likely cmt'd to/near surface.

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PROPOSED YEAR: 2022 STATE PERMIT REQD: YES ___ NO ___X___ (Internal) PDS Required: YES ___ NO ___
DATE RECEIVED:
PREPARED BY: Maria Medvedeva REVIEWED BY: Jim Amos (Contractor) APPROVED: [Signature] Invalid signature
PREP DATE: 2/9/2022

[Handwritten signature]

07/08/2022

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 3	DATE JOB PREPARED: 2/9/2022
Objective: Isolate leak in current 4.5" flowstring				LAST PROFILE UPDATE:	
TITLE: Sleeve with Cemented Tubing		WORK TYPE: Break-Fix			
FIELD: Ripley	WELL: 7297				
STAT: WV	SHL (Lat/Long): 38.890073 0		API: 47-035-00495		
TWP: Ravenswood	BHL (Lat/Long): 38.890073 0		CNTY: Jackson		

PROCEDURE

Note that well has two RBPs and is loaded with fluid. RBP1 @ 4470' and RBP2 @ 4690'.

4703500495W

- 1 Obtain State 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.
- 6 If required, notify State/Federal regulatory agencies prior to beginning work.
- 7 ~~Disconnect well line.~~
- 8 Prepare access road and well site. Install ECD's per EM&CP.
- 9 Service all wellhead valves.
- 10 Document initial casing and annular pressures.
- 11 Drop junk basket on top of upper RBP.
- 12 MIRU service rig.
- 13 Blow down annulus and leave venting to atmosphere.
- 14 Remove wellhead down to casing head.
- 15 Spear 4-1/2" csg, pull tension, and split csg head to remove slips.
- 16 Install new 10K SOW casing head and pressure test weld.
- 17 Spear 4-1/2" csg, pull tension, drop slips, and install new 10K tubing spool. Pressure test seals.
- 18 NU BOPs (double ram + annular) and ptest low 250 and high 2500 psig.
- 19 Pull junk basket and both RBPs.
- 20 RIH with 3.75" TCI roller-cone bit, float sub, SN sub, and 2-3/8" DP. May need to switch to viscosity fluid with fluid loss additive.
- 21 Clean to TD and drill new rathole to 4850'. Sweep and TOOH.
- 22 Obtain GR-Density-Compensated Neutron-PE log from TD to 4600'. Verify that data is good with geology.
- 23 Run new 2-7/8" 6.4 ppf N-80 10rd NU tubing with: float shoe, ~10' pup jt, latch-down baffle or float collar, 3 full jts tubing, ID jt, and tubing.
Will need assortment of pup joints to land at appropriate depth to ensure latch-down plug is >10 ft below proposed bottom storage perforation.
- 24 Install tubing hanger and land in top of tubing spool. Engage lock-down pins.
- 25 Establish circulation and cement to surface per Cementing Procedure.
- 26 WOC xx hours (until cement compressive strength reaches 2000 psig based on lab test).
- 27 Obtain CBL.
- 28 ND BOPs and install remainder of wellhead; tbg bonnet, 2-9/16" 10K tbg MV, flow cross, and 2-9/16" 10K SV.
- 29 Once cement compressive strength exceeds 4000 psig (based on lab test), pressure test WH/tubing to a minimum of 2300 psig surface pressure, assuming 8.4 ppg FW is in wellbore. Do not exceed 2600 psig. Chart pressure test - test passes if no more than 10% drop in 30 minute period. This will serve as documentation of initial integrity via MIT pressure test, in compliance with PHMSA regulations.
- 30 Swab well dry.
- 31 Dump 200 gals 28% HCl acid (corrosion inhibitor + iron control) and load remainder of wellbore with TFW (corrosion inhibitor + iron control + biocide).
- 32 Perforate storage interval, per geology recommendations.
- 33 Perform breakdown. Maximum surface pressure 8000 psig. Once injection established perform 20 bbl injection test @ 4-6 BPM - chart pressure and record ISIP.
- 34 Swab/flow well to re-establish gas flow.
- 35 RDMO service rig.
- 36 Perform 60 minute flowback test and report to WET / REG engineer.
- 37 If deemed necessary, fracture stimulate per Frac Procedure.
Flow well to re-establish gas flow and perform 60 minute flowback test.
- 38 Notify WET Project Support that well is back in-service.
- 39 Reclaim R&L.
- 40 Reconnect well line.
- 41 Paint wellhead and well line.
- 42 Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form.
- 43 Notify REG that well is ready for storage service.

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WV Department of
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PREPARED BY: Maria Medvedeva	REVIEWED BY: Jim Amos	APPROVED: Brent Criser
PREP DATE: 2/9/2022		



07/08/2022

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

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API 47 - 035 - 00495 County Jackson District Ravenswood
Quad Sandyville, WV Pad Name Ripley Field/Pool Name Ripley
Farm name Stone & Heatherington Well Number 7297
Operator (as registered with the OOG) Columbia Gas Transmission LLC
Address 1700 MacCorkle Ave SE City Charleston State WV Zip 25314

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing _____ Easting _____
Landing Point of Curve Northing Not applicable Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 604.4 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)

Not applicable. Job scope was to repair a shallow casing leak by backing off existing 4-1/2" casing and running new casing.

Log well. Could not proceed with job scope due to finding casing cemented to surface. Temporarily isolate well with RBPs, plan new repairs.

Date permit issued 7/8/2021 Date drilling commenced N/A Date drilling ceased N/A
Date completion activities began N/A Date completion activities ceased N/A
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft None reported by driller when drilled Open mine(s) (Y/N) depths N
Salt water depth(s) ft None reported by driller when drilled Void(s) encountered (Y/N) depths N
Coal depth(s) ft None reported by driller when drilled Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

07/08/2022
Reviewed by:

WR-35
Rev. 8/23/13

API 47-035 - 00495 Farm name Stone & Heatherington Well number 7297

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	N/A		existing well				
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

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Comment Details Existing well. Job scope was casing repair.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	N/A		existing well				
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 4808 Loggers TD (ft) _____
 Deepest formation penetrated Oniskany Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) N/A

Check all wireline logs run
 caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING N/A

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS N/A

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS N/A

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

07/08/2022

WR-35
Rev. 8/23/13

API 47-035 - 00495 Farm name Stone & Heatherington Well number 7297

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	N/A		existing well		

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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	N/A		existing well					

Please insert additional pages as applicable.

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API 47- 035 - 00495 Farm name Stone & Heatherington Well number 7297

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
N/A	TVD	MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
N/A	0		0		existing well

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WV Dept
Environment

Please insert additional pages as applicable.

Drilling Contractor N/A
Address _____ City _____ State _____ Zip _____

Logging Company Baker Atlas
Address _____ City _____ State _____ Zip _____

Cementing Company N/A
Address _____ City _____ State _____ Zip _____

Stimulating Company N/A
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Maria Medvedeva Telephone 304-410-4313
Signature  Title Senior Wells Engineer Date 06/29/2022 07/08/2022

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W. E. L. HERRING

Permit No. Jas. 493
Ripley No. 1. Quad.
Company
Address
Farm
Location
Well No.
District
Surface
Mineral
Commenced
Completed
Not shot
Open flow
Volume
Rock Pressure
Fresh Water
Salt Water

United Carbon Company
Box 1913, Charleston 27, W. Va.
W. E. Hupp et al Acres 164.34
Mad Run of Sandy Creek
2 (1320) Elev. 515.2 Cr.
Ravenswood Jackson County
W. E. Hupp et al, Sandyville, W. Va.
Same
Sept. 10, 1945
Dec. 4, 1945
32/10ths W in 7" 22#
9,005,000 C.F.
1360 lbs. 23 hrs.
608 l BPH; 730' l BPH (salt water); 100' H.F.
1195' H.F.

Gas Well
CASINO & TUBING

14	15	15
13 3/8	509	
10 1/2	1100	
8 5/8	1928	1920
7 CD	4609	4609
2 3/8	4788'9"	4788'9"

CASINO CEMENTED:
8 5/8 1192' 10-21-45
7 CD 22# 4619' 11-25-45

Surface	0	15
Red Rock	15	90
Sand	90	125
Red Rock	125	175
Slate & Shells	175	320
Red Rock	320	360
Sand	360	380
Slate	380	400
Red Rock	400	430
Sand	430	480
Slate	480	565
Sand	565	585
Slate	600	725
Sand	725	745
Slate	745	785
Sand	785	800
Slate	800	883
Sand	883	1015
Slate	1015	1125
Sand	1125	1175
Slate	1175	1190
Sand	1190	1250
Slate	1250	1350
Sand	1350	1400
Slate	1400	1460
Sand	1460	1615
Big Lime	1615	1770
Injun Sand	1770	1874
Slate Break	1874	1981
Sand	1981	1922
Slate & Shells	1922	2250
Shale Brown	2250	2250
Iron Shell	2268	2273
Slate & Shells	2283	3450
Shale Brown	3480	3540
Slate & Shells	3540	3740
Shale Brown	3740	4025
Slate White	4025	4470
Shale Brown	4100	4679
Coniferous Lime	4679	4757
Crinkly Sand	4757	4800
TOTAL DEPTH		1000

Ripley
#17297

One 4709' 9,005 C.F.

SPZ

7397
Ripley
F20037

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

Ridley
7297

Gas Well
CASINO & TUSTING

Permit No. Jac. 493
Ripley N.J. Quad.
Company
Address
Farm
Location
Well No.
District
Surface
Mineral
Commenced
Completed
Not shut
Open flow
Volume
Rock Pressure
Fresh Water
Salt Water

United Carbon Company
Box 1913, Charleston 27, W.Va.
W.E. Hupp et al Acres 184.34
Mad Run of Sandy Creek
2 (1320) Elev. 615.2 Gr.
Ravenswood Jackson County
W.E. Hupp et al, Sandyville, W.Va.
Sept. 10, 1945
Dec. 4, 1945
32/10ths W in 7" 22#
9,005,000 C.F.
1360 lbs. 23 hrs.
808 1 RPM; 730" 1 RPM (salt water);
1195" H.F.

16 15 15
13 3/8 509
10# 1100
8 5/3 1928 1930
7 00 4609 4669
2 3/3 4706'9 4706'9
CASINO COMPLETED:
8 5/3 1192' 10-21-45
7 00 22# 4619' 11-25-45

Surface	0	15
Red Rock	15	30
Sand	50	125
Red Rock	125	175
Slate & Shells	175	320
Red Rock	320	340
Sand	350	360
Slate	350	400
Red Rock	400	430
Sand	430	450
Slate	480	525
Sand	565	600
Slate	600	725
Sand	725	745
Slate	745	785
Sand	765	900
Slate	800	960
Sand	960	1015
Slate	1015	1125
Sand	1125	1175
Slate	1175	1190
Sand	1190	1250
Slate	1250	1350
Sand	1350	1400
Slate	1400	1450
Sand	1400	1616
Big Linc	1616	1770
Thin Sand	1770	1874
Slate Break	1874	1881
Sand	1881	1922
Slate & Shells	1922	2250
Shale Brown	2258	2260
Green Shell	2268	2303
Slate & Shells	2203	3450
Shale Brown	3460	3540
Slate & Shells	3540	3740
Shale Brown	3748	4025
Slate White	4025	4450
Shale Brown	4400	4679
Carboniferous Linc	4679	4727
Triassic Sand	4737	4800
Oil Dept		1000

Gas 4739' 9,005 107

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F-3 28 2022

Department of
Environmental Protection

F20057

07/08/2022

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002200

WW-2A
(Rev. 6-14)

1.) Date: 02/15/2022
2.) Operator's Well Number Riplev 7297
State County Permit
3.) API Well No.: 47-035-00495

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

4) Surface Owner(s) to be served: (a) Name Steven B. Stone Address 14 Crooked Run Road Sandville, WV 25275
(b) Name Address
(c) Name Address
5) (a) Coal Operator Name Not operated Address
(b) Coal Owner(s) with Declaration Name Not operated Address
(c) Coal Lessee with Declaration Name Not operated Address
6) Inspector Joe Taylor Address 1478 Claylick Road Riplev, WV 25271 Telephone 304-380-7469

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WV Department of Environmental Protection

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

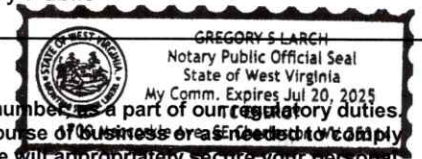
OR
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:
 Personal Service (Affidavit attached)
 Certified Mail (Postmarked postal receipt attached)
 Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.
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, 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 and imprisonment.

Well Operator Columbia Gas Transmission, LLC
By: Maria Medvedeva
Its: Senior Wells Engineer Storage Technical Services
Address: 1700 MacCorkle Ave SE Charleston WV 25314-1273
Telephone: 304-410-4313
Email: maria_medvedeva@tcenergy.com

Subscribed and sworn before me this 16 day of Feb, 2022
[Signature] Notary Public
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 depprivacyofficer@wv.gov

07/08/2022

4703500495W

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



February 16, 2022

Steven B. Stone
14 Crooked Run Road
Sandyville, WV 25275

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to repair an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Ripley 7297 (API 47-035-00495).

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

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, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>MS #82</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Card 19</i></p> <p>C. Date of Delivery <i>2-18-22</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p><i>Steven Stone ✓ 14 Crooked Run Rd Sandyville, WV 25275</i></p>	
<p>3. Service Type</p> <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<p>9590 9402 6856 1104 6636 28</p> <p>7021 1970 0001 1849 9887</p>	

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

RECEIVED
Office of Oil and Gas
FEB 28 2022
WV Department of
Environmental Protection

CERTIFIED MAIL® RECEIPT
Domestic Mail Only

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

Sandyville, WV 25275

OFFICIAL USE

Certified Mail Fee	\$3.75
Extra Services & Fees (check box, add fee as appropriate)	\$3.05
<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 *S. STONE*
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

Postmark Here
FEB 16 2022
KANSAS CITY POST OFFICE
02/16/2022

7021 1970 0001 1849 9887

07/08/2022

WW-2A Surface Waiver
(4/16)

SURFACE OWNER WAIVER

County Jackson

Operator Columbia Gas Transmission LLC

Operator well number Ripley 7297

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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 **FIFTEEN (15) 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.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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

FOR EXECUTION BY A CORPORATION, ETC.

Signature Date _____

Print Name

Company Name _____
By _____
Its _____ Date _____

Signature Date _____

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FEB 28 2022
WV Department of
Environmental Protection

07/08/2022
SRZ

COAL OPERATOR, OWNER, OR LESSEE WAIVER

* coal not operated

County Jackson
Operator Columbia Gas Transmission LLC

Operator's Well Number Ripley 7297

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. 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.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature

Date _____

Company
Name _____
By _____
Its _____

Date

Signature

Date

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Office of Oil and Gas

FEB 28 2022

WV Department of
Environmental Protection

JD 07/08/2022

WW-2B1
(5-12)

Well No. Ripley 7297

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contractor chosen to collect sample.

Certified Laboratory Name _____
Sampling Contractor _____


Well Operator Not applicable - existing underground natural gas storage well
Address _____
Telephone _____

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

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FEB 28 2022

WV Department of
Environmental Protection

 07/08/2022

WW-2A1
(Rev. 1/11)

Operator's Well Number Ripley 7297

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
W.E. Hupp, et al	United Fuel Gas Company	Storage Lease - 1052756-000	84 / 416

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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FEB 28 2022

WV Department of
Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:
By: Its:

Columbia Gas Transmission, LLC

Maria Medvedeva

Senior Wells Engineer Storage Technical Services



07/08/2022

WW-9
(5/16)

API Number 47 - 035 - 00495
Operator's Well No. Ripley 7297

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) Sandy Creek Quadrangle Sandyville, 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: N/A

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground 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: yes - steel flow line to tanks

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Fresh water

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

Additives to be used in drilling medium? NaCl, biocide, soda ash, polymer, starch, CaCO3, HCl acid

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) N/A

-Landfill or offsite name/permit number? To be managed by Waste Management and US Ecology for disposal at permitted landfill

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) Maria Medvedeva
Company Official Title Senior Wells Engineer Storage Technical Services

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Office of Oil and Gas

FEB 28 2022

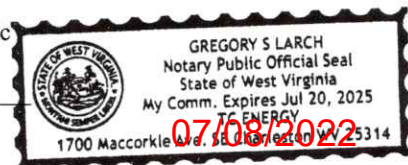
WV Department of
Environmental Protection

[Signature]
2-18-22

Subscribed and sworn before me this 16 day of Feb, 2022

[Signature] Notary Public

My commission expires July 20, 2022



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

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: Joe Taylor

Comments: _____

Title: OGG Inspector Date: 2-18-22

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): Sandy Creek Quad: Snadyville, WV
Farm Name: Stone and Heatherington

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. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Accidental spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater. Drilling and flowback fluids to be stored in tanks. 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. Tanks to be monitored 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.

Mud Run of the Sandy Creek is at a distance of 0.05 miles E. Sandy Creek is at a distance of 0.18 miles E.
The Ravenswod Municipal Water Works WV3301810 is the closest Well Head Protection Area at a distance of 5.27 miles NW from discharge area.

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

N/A

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FEB 28 2022
WV Department of Environmental Protection

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

07/08/2022

N/A

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

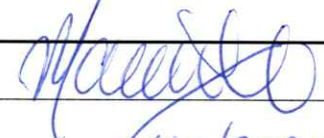
No waste material will be used for deicing or fill material on the property.

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 and JSA meetings groundwater protection will be a topic of discussion.

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

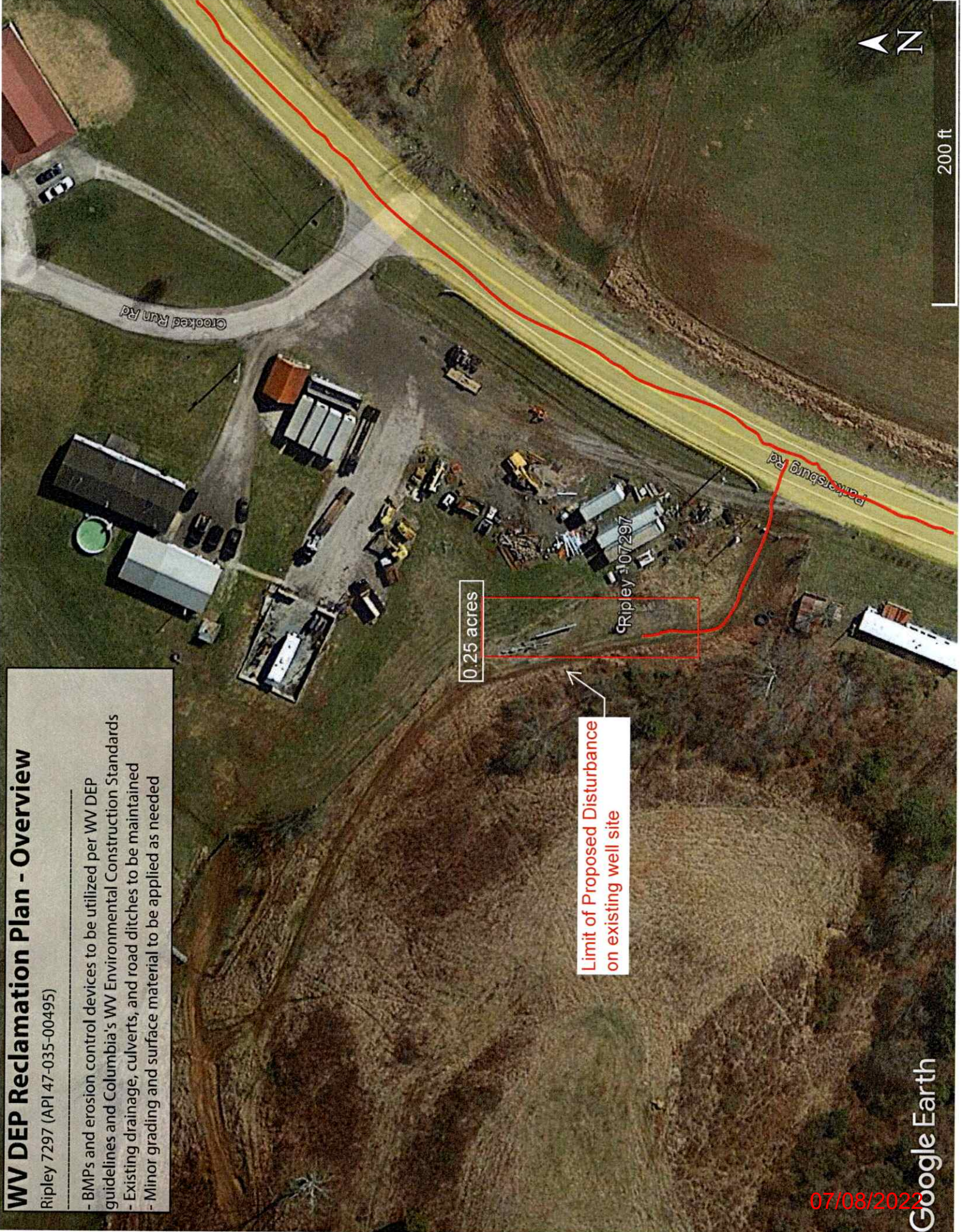
No fertilizer will be stored on site. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater.
All construction and well servicing equipment will be monitored and inspected daily for leaks or spills.

Signature: 

Date: 02/16/2012



[Handwritten signature]
7-18-22



WV DEP Reclamation Plan - Overview
Ripley 7297 (API 47-035-00495)

- 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

0.25 acres

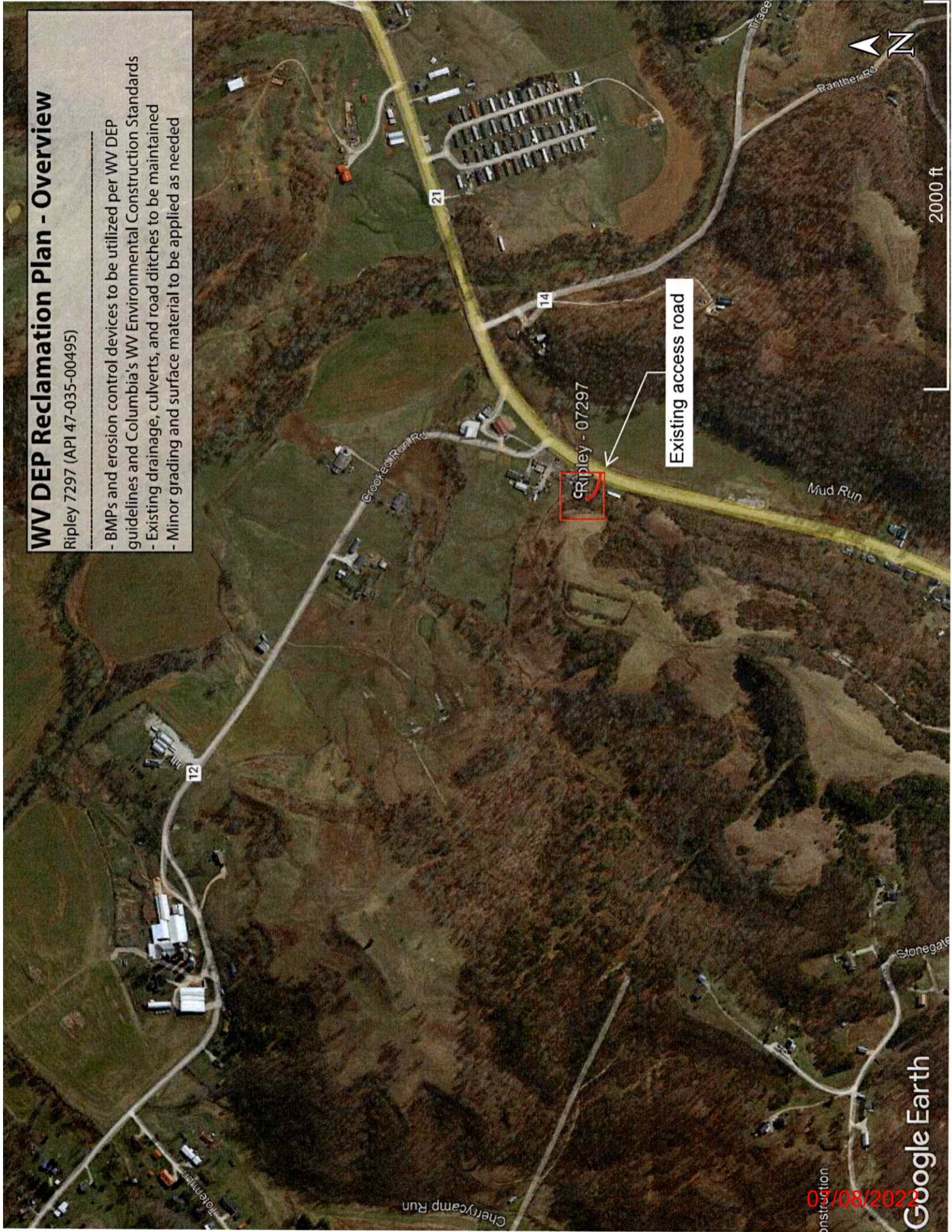
Limit of Proposed Disturbance on existing well site

22-81-2
[Signature]

WV DEP Reclamation Plan - Overview

Ripley 7297 (API 47-035-00495)

- 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



07/08/2022

Google Earth

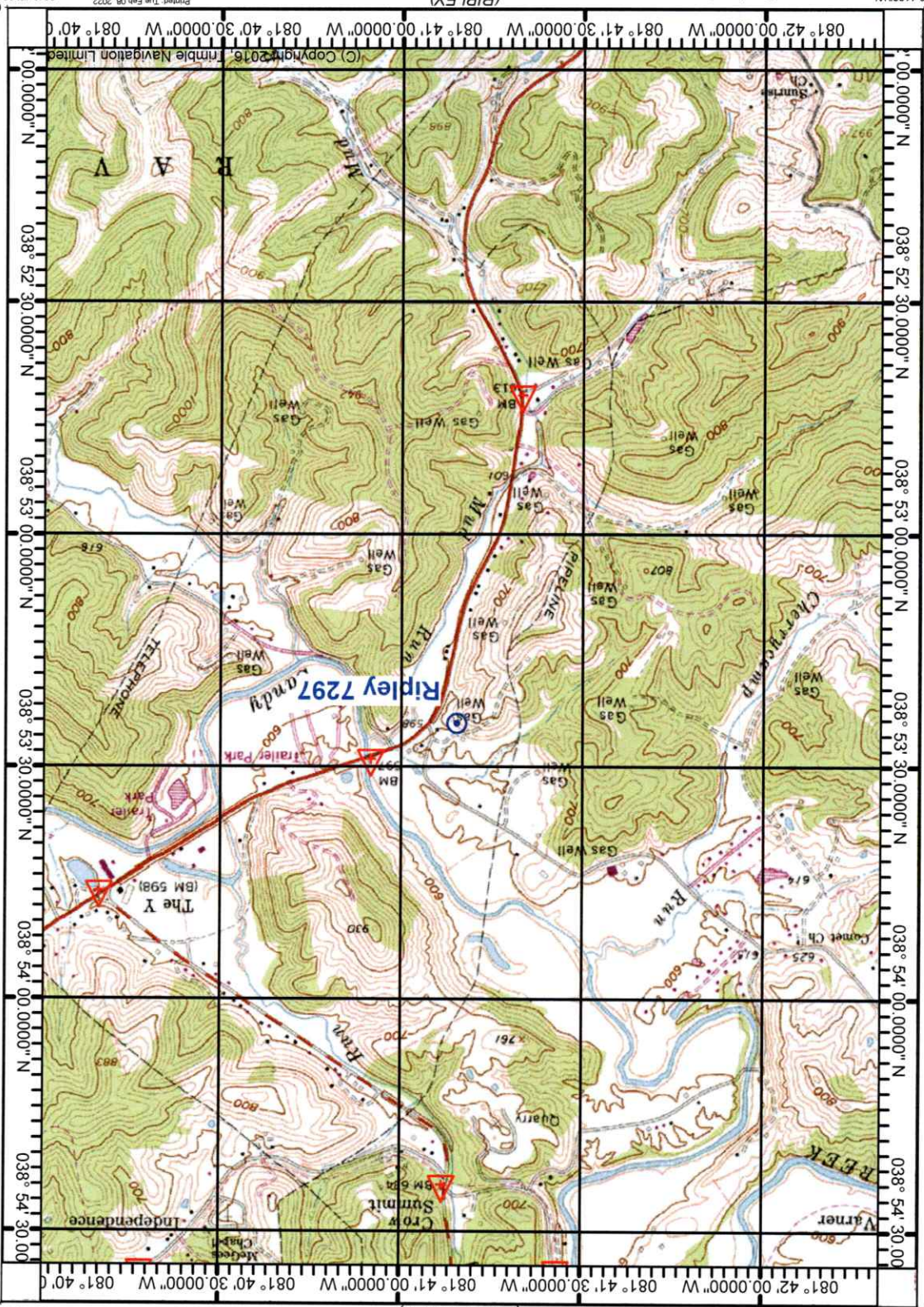
4703500495W

2202/07/2022



(PORTLAND)

SANDYVILLE QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES
(ROCKPORT)



038° 51' 56.6953" N 081° 42' 19.4162" W (COTTAGEVILLE)

038° 51' 56.6953" N 081° 42' 19.4162" W (PORTLAND)

038° 54' 30.0000" N 081° 42' 19.4162" W (ROCKPORT)

038° 54' 00.0000" N 081° 42' 19.4162" W

038° 53' 30.0000" N 081° 42' 19.4162" W

038° 53' 00.0000" N 081° 42' 19.4162" W

038° 52' 30.0000" N 081° 42' 19.4162" W

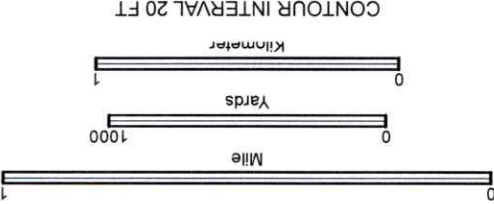
038° 52' 00.0000" N 081° 42' 19.4162" W

038° 51' 30.0000" N 081° 42' 19.4162" W

038° 51' 00.0000" N 081° 42' 19.4162" W

081° 42' 00.0000" W 081° 41' 30.0000" W 081° 41' 00.0000" W 081° 40' 30.0000" W 081° 40' 00.0000" W

SCALE 1:24000



CONTOUR INTERVAL 20 FT

GN 0.43° W
MN 7.81° W

Declination

Produced by Trimble Terrain Navigator Pro
Topography based on USGS 1:24,000
Maps
North American 1983 Datum (NAD83)
To place on the projection lines 9M N and
13M E

Joe [Signature]
2-18-22

38081-H5-TM-024
SANDYVILLE, WV
JAN 1, 1988

(GAY)

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

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL (IF "GAS") PRODUCTION STORAGE X DEEP X SHALLOW
 DISTRICT: RAVENSWOOD COUNTY: JACKSON
 SURFACE OWNER: STEVEN B. STONE ACREAGE: 76.12 +/-
 OIL & GAS ROYALTY OWNER: STEVEN B. AND DEBORAH STONE
 LEASE ACREAGE: 55 LEASE NO.: 1052756-000

PROPOSED WORK: DRILL DEEPER REDRILL FRACTURE STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) REMORK
 PLUG AND ABANDON CLEAN OUT AND REFLUG
 TARGET FORMATION: ORISKANY ESTIMATED DEPTH: 4808
 DESIGNATED AGENT: JAMES AMOS
 ADDRESS: PO BOX 1273, CHARLESTON, WV 25325-1273
 SANDYVILLE, WV 25275

DATE: February 15 2022
 OPERATOR'S WELL No.: 7297
 API WELL No.:
 WASTE DISPOSAL STATE COUNTY PERMIT NO.: 035 - 00495
 47

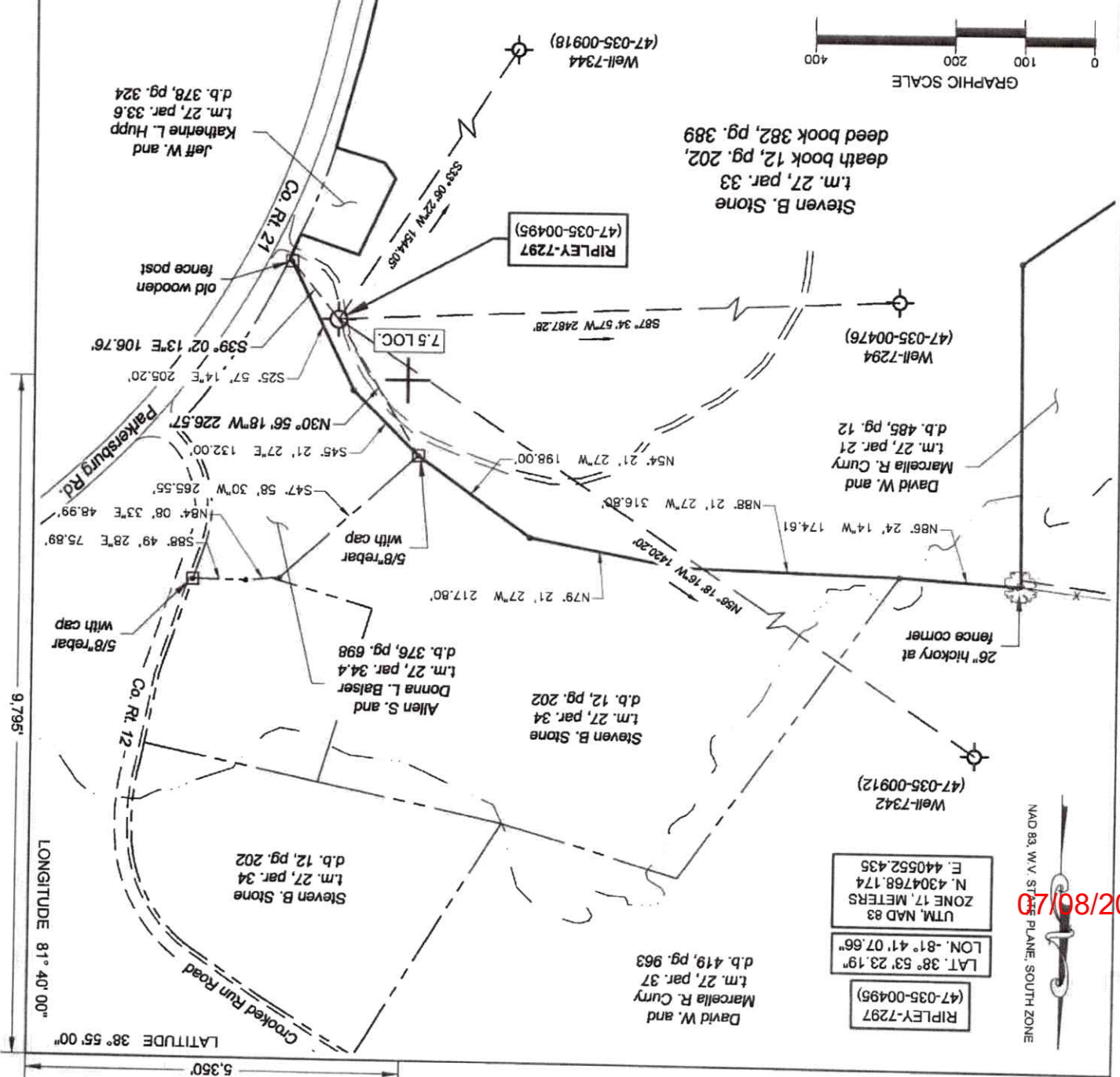


FILE No. 2101-3079-001-001
 DRAWING No. RIPLEY-7297
 SCALE: 1"=200'
 MINIMUM DEGREE OF ACCURACY: 1:200
 PROVEN SOURCE OF ELEVATION: TRIMBLE R10
 GPS UNIT

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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



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



07/08/2022

4703500495



Kennedy, James P <james.p.kennedy@wv.gov>

4703500495 rework

1 message

Kennedy, James P <james.p.kennedy@wv.gov>

Thu, Jul 7, 2022 at 2:22 PM

To: maria_medvedeva@tcenergy.com, Jeffrey W McLaughlin <jeffrey.w.mclaughlin@wv.gov>, Wade A Stansberry <wade.a.stansberry@wv.gov>, bkthomas@jacksoncountywv.com, beth.roberts@jacksoncountywv.com

To whom it may concern this permit has been issued.

James Kennedy
WVDEP OOG

 **4703500495.pdf**
6286K

07/08/2022