

west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304 (304) 926-0450 fax; (304) 926-0452

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

Monday, May 3, 2021 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 1852 47-051-00264-00-00

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.

Operator's Well Number: 1852 Farm Name: MATHEWS, G. U.S. WELL NUMBER: 47-051-00264-00-00 Vertical Plugging Date Issued: 5/3/2021

Promoting a healthy environment.

### **PERMIT CONDITIONS**

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit</u> 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.

WW-41 Rev.	B 2/01	<b>470510026</b> 4P 1) Date January 6 2) Operator's Well No. Victory B 1852 3) API Well No. <u>47-051</u> - 00264-00-00
	DEPARTMENT OF ENV	WEST VIRGINIA TRONMENTAL PROTECTION F OIL AND GAS
	APPLICATION FOR A PE	RMIT TO PLUG AND ABANDON
4)	(If "Gas, Production or U	<pre>id injection/ Waste disposal/ Inderground storage X) Deep/ Shallow X Watershed Ben Run - A Tributary of Fish Creek</pre>
5)	Location: Elevation 1472.3 District Liberty	County Marshall Quadrangle Cameron, WV
6)	Well Operator Address Columbia Gas Transmission, LLC 1700 MacCorkle Avenue S.E., P.O. Box 127 Charleston, WV 25325	
8)	Oil and Gas Inspector to be notified	
	Name_James Nicholson Address P.O. Box 44	
	Moundsville, WV 26041	

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.

RECEIVED Office of Oil and Gas

JAN 2 1 2021

WV Department of Environmental Protection

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

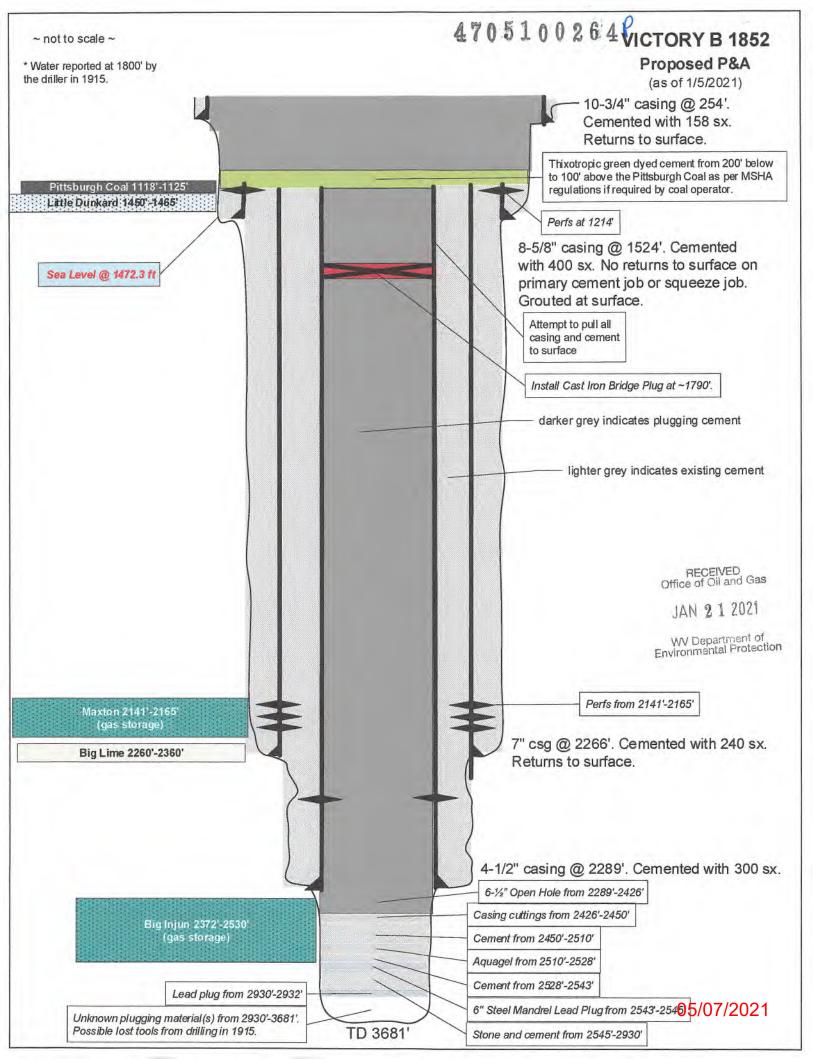
Work order approved by inspector Barry Stollings

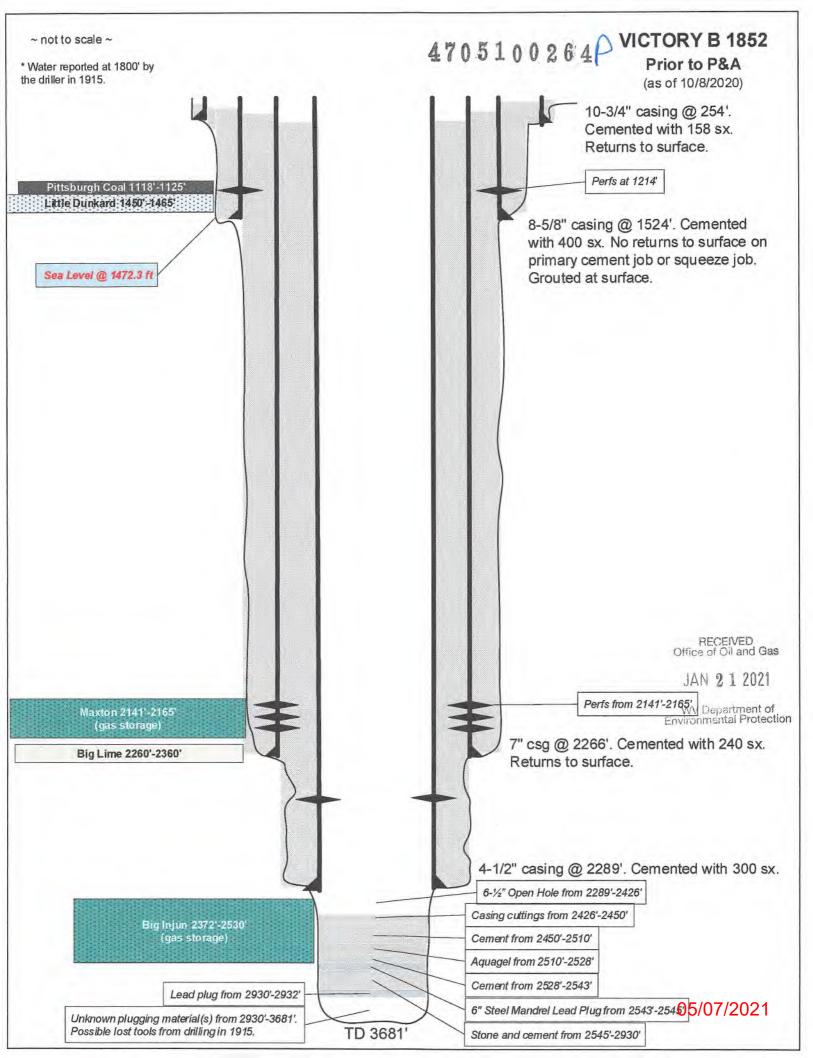
Date 1-12-21



Plug and Abandonment Plug and Abandonment			and the second se		LAS	ST PROFILE U	PDATE:
Minham D			V	VORK TYPE:	MOD3		
Victory B	WELL:	1852					
WV	SHL (Lat/Long):		55695	API:		-00264-00-00	
Liberty	BHL (Lat/Long):	39.796110 -80. PROCEDU	55695	CNTY:	Marsha	11	
Debain State plugging perm Notify Reservoir Engineeric Prepare access road and Service all wellhead valve Document initial tubing / c Service all wellhead valve Document initial tubing / c Service all wellhead valve Document initial tubing / c Service all wellhead valve Pressure test low/high to 2 Pressure test low/high to 2 Pull RBP and obtain CBL Pull RBP and obtain CBL Pull RBP and obtain CBL on results. Consult with WE&T Engin "IH with work string and c Circulate two bottoms up. Spot balanced cement plug install cast-iron DBP abov ND BOPs, install pulling n NU 11" BOPE (blind + pip Function and pressure tes Wireline freepoint and cut Consult with WE&T Engin Consult with WE&T Engin f needed, next objective is install balanced cement plu D BOP equipment. Consult With WI WE&T Engin Consult with WE&T Engin Consult WE&T Engin Consult With WE&T Engin Consult WE&T Engin Consult WE&T Engin Consult WE&T Engin Consult WE&T Engin Consu	mit. Ing & Geosciences (REG) of well site. Install ECD's per E s. asing / annular pressures. x 7", and 7" x 8-5/8" annuli v (double ram with blind & pipe 250/1600 psig using packer s from TD to surface - keep ho eer on results of CBL. Proce tut-lip shoe. Clean to TD at ~ g(s) from TD to 1800 ft. WC g. e cement plug. ipple on 4-1/2" and 7", dress e) and annular on 8-5/8" cas t low / high to 250 psig / 100 / pull all 4-1/2" casing that is eer to determine whether CE reter to determine next steps. s to install annular cement bi- ugs from BP to 300' above co- sult with WE&T Engineer to de- content pull all of the 8 //squeeze to surface. State in casing. 10-3/4" casing that is free. spot balanced cement plug(s- with cement. 0" above GL, tack weld cap,	intent to take well out of M&CP, with kill fluid. Load 8-5/8" e + annular). Secure BOF set <30 ft. Pressure test ble full while logging. Not dure may change depend 2426'. OC minimum 6 hrs, tag ce 8-5/8" to accommodate in g. Need kill choke outle 0 psig. free. 8. needs to be ran inside arriers via perf and squee ement top behind 8-5/8" fetermine if BOP equipm lar BOP on 10-3/4". psig. 9-5/8" casing will need to nspector, and/or coal ope	x 10-3/4" annulus with Ps to eliminate free mo TIW/stabbing valves. ify WET engineer for i ding on evaluation. ment. If cement top is BOPE. the below blind rams. 7". 8-5/8". are method. or 1200', whichever is ent is needed on next either cut casing 50 ft rrator (if applicable), w	vement. CBL evaluation deeper than 20 shallower. steps. below bottom o ill dictate metho	40', then f Pittsburg d.	gh Coal, pull,	and
						Of	RECEIVED fice of Oil and G
							JAN 2 1 202
						V	W Department of
	btain State plugging peri otify Reservoir Engineeri repare access road and ervice all wellhead valve ocument initial tubing / c oad 4-1/2" casing, 4-1/2" IIRU service rig. IU 2000 # 7-1/16" BOPs ressure test low/high to 2 ull RBP and obtain CBL in results. <b>Consult with WE&amp;T Engin</b> IH with work string and c inculate two bottoms up. pot balanced cement plug istall cast-iron DBP abov ID BOPs, install pulling n IU 11" BOPE (blind + pip unction and pressure test Vireline freepoint and cut <b>Consult with WE&amp;T Engin</b> needed, next objective is astall balanced cement plu DBOP equipment. Consult <b>Consult with WE&amp;T Engin</b> needed, next objective is astall balanced cement plu DBOP equipment. Consult vith WE&T Engin needed, next objective is astall balanced cement plu ID BOP equipment. Consult with WE&T Engin needed, next objective is astall balanced cement plu ID BOP equipment. Consult vith WE&T Engin needed, next objective is astall balanced cement plu ID BOP equipment. Consult Vith WE&T Engin needed, next objective is astall balanced cement plu ID BOP equipment. Consult Vith WE&T Engin needed, next objective is astall balanced cement plu ID BOP equipment. Consult II 11" spool (with kill and unction and pressure test tempt to pull all 8-5/8" c ement to surface, or perf ID 11" BOPS. rive 10' to 20' of 13-3/8" reepoint and cut/pull all 'I IH with work string and s op off well and all annuli astall 7" csg monument 3	btain State plugging permit. atify Reservoir Engineering & Geosciences (REG) of repare access road and well site. Install ECD's per E ervice all wellhead valves. bocument initial tubing / casing / annular pressures. add 4-1/2" casing, 4-1/2" x 7", and 7" x 8-5/8" annuli v IIRU service rig. IU 2000 # 7-1/16" BOPs (double ram with blind & pipe ressure test low/high to 250/1600 psig using packer s ull RBP and obtain CBL from TD to surface - keep ho n results. <b>Consult with WE&amp;T Engineer on results of CBL. Proce</b> IH with work string and cut-lip shoe. Clean to TD at ~ irculate two bottoms up. pot balanced cement plug(s) from TD to 1800 ft. WC istall second cement plug. IStall cast-iron DBP above cement plug. ID BOPs, install pulling nipple on 4-1/2" and 7", dress unction and pressure test low / high to 250 psig / 100 Vireline freepoint and cut / pull all 4-1/2" casing that is <b>consult with WE&amp;T Engineer to determine whether CE</b> <b>Consult with WE&amp;T Engineer to determine whether CE</b> <b>Consult with WE&amp;T Engineer to determine next steps</b> . needed, next objective is to install annular cement ba- istall balanced cement plugs from BP to 300' above of D BOP equipment. Consult with WE&T Engineer to determine next steps. needed, next objective is to install annular cement ba- stall balanced cement plugs from BP to 300' above of D BOP equipment. Consult with WE&T Engineer to determine next steps. needed, next objective is to install annular cement ba- stall balanced cement plugs from BP to 300' above of D BOP equipment. Consult with WE&T Engineer to determine next steps. needed, next objective is to install annular cement ba- istall balanced cement plugs from BP to 300' above of D BOP equipment. Consult with WE&T Engineer to determine next steps. needed next objective is to install annular cement ba- istall balanced cement plugs from BP to 300' above of D BOP equipment. Consult with WE&T Engineer to determine next steps. IN 11" BOPS. rive 10' to 20' of 13-3/8" casing. reepoint and cut/pull	otify Reservoir Engineering & Geosciences (REG) of intent to take well out of repare access road and well site. Install ECD's per EM&CP, ervice all wellhead valves. Incument initial tubing / casing / annular pressures. ooad 4-1/2" casing, 4-1/2" x 7", and 7" x 8-5/8" annuli with kill fluid. Load 8-5/8". IRU service rig. IU 2000 # 7-1/16" BOPs (double ram with blind & pipe + annular). Secure BOP ressure test low/high to 250/1600 psig using packer set <30 ft. Pressure test ull RBP and obtain CBL from TD to surface - keep hole full while logging. Not in results. <b>consult with WE&amp;T Engineer on results of CBL. Procedure may change depend</b> IH with work string and cut-lip shoe. Clean to TD at ~2426'. inculate two bottoms up. pot balanced cement plug. ID BOPs, install pulling nipple on 4-1/2" and 7", dress 8-5/8" to accommodate I U1 1" BOPE (blind + pipe) and annular on 8-5/8" casing. Need kill choke outled unction and pressure test low / high to 250 psig / 1000 psig. Vireline freepoint and cut / pull all 4-1/2" casing that is free. <b>consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</b> <b>vireline</b> freepoint and cut / pull all 7" casing that is free. <b>consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</b> <b>vireline</b> freepoint and cut / pull all 7" casing that is free. <b>consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</b> <b>vireline</b> freepoint and cut / pull all 7" casing that is free. <b>consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</b> <b>vireline</b> freepoint and cut / pull all 7" casing that is free. <b>consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</b> <b>vireline</b> freepoint and cut / pull all 7" casing that is free. <b>consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</b> <b>vireline</b> freepoint with WE&T Engineer to determine to termine if BOP equipment. <b>consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</b> <b>vireline</b> freepoint with with inte	btain State plugging permit. otify Reservoir Engineering & Geosciences (REG) of intent to take well out of service. repare access road and well site. Install ECD's per EM&CP, ervice all wellhead valves. tocument initial tubing / casing / annular pressures. cad 4-1/2" casing, 4-1/2" x 7", and 7" x 8-5/8" annuli with kill fluid. Load 8-5/8" x 10-3/4" annulus with IRU service rig. U 2000 # 7-1/16" BOPs (double ram with blind & pipe + annular). Secure BOPs to eliminate free mo ressure test low/high to 250/1600 psig using packer set <30 ft. Pressure test TWV/stabbing valves. UI RBP and obtain CBL from TD to surface - keep hole full while logging. Notify WET engineer for 0 n results. to surface - negative the surface - keep hole full while logging. Notify WET engineer for 0 n results. to surface on results of CBL. Procedure may change depending on evaluation. IH with work string and cut-lip shoe. Clean to TD at ~2426'. inculate two bottoms up. pot balanced cement plug. ID BOPs, install pulling nipple on 4-1/2" and 7", dress 8-5/8" to accommodate BOPE. U11" BOPE (blind + pipe) and annular on 8-5/8" casing. Need kill choke outlets below blind rams. unction and pressure test low / high to 250 psig / 1000 psig. Wreline freepoint and cut / pull all 4-1/2" casing that is free. <i>Consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</i> 7". Wireline freepoint and cut / pull all 7" casing that is free. <i>Consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</i> 7". Wireline freepoint and cut / pull all 7" casing that is free. <i>Consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</i> 8-5/8". <i>Consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</i> 8-5/8". <i>Consult with WE&amp;T Engineer to determine whether CBL needs</i> to be ran inside 8-5/8". <i>Consult with WE&amp;T Engineer to determine whether</i> CBL needs to be ran inside 8-5/8". <i>Consult with WE&amp;T Engineer to determine whether</i> CBL needs to be ran inside 8-5/8". <i>Consult with WE&amp;T </i>	bbain State plugging permit. otify Reservoir Engineering & Geosciences (REG) of intent to take well out of service. repare access road and well site. Install ECD's per EM&CP, ervice all wellhead valves. occument initial tubing / casing / annular pressures. oad 4-172' casing, 4-172'' x 7'', and 7'' x 8-5/8'' annuli with kill fluid. Load 8-5/8'' x 10-3/4'' annulus with TFW. IIRU service rig. U 2000 # 7-1/16'' BOPs (double ram with blind & pipe + annular). Secure BOPs to eliminate free movement. ressure test low/high to 250/1600 psig using packers et <30 ft. Pressure test TW/stabbing valves. UI RPA and obtain CBL from TD to surface - keep hole full while logging. Notify WET engineer for CBL evaluation. II with WF&T Engineer on results of CBL. Procedure may change depending on evaluation. II with wrok string and cut-lip shoe. Clean to TD at ~2426'. irculate two bottoms up. pot balanced cement plug. Ib WID work string and cut-lip shoe. Clean to TD at ~2426'. Irculate two bottoms up. pot balanced cement plug. ID BOPs, install pulling nipple on 4-1/2'' and 7'', dress 8-5/8'' to accommodate BOPE. UI '1'' BOPE (blind + pipe) and annular on 8-5/8'' casing. Need kill choke outlets below blind rams. unction and pressure test low / high to 250 psig / 1000 psig. Vireline freepoint and cut / pull all 4-1/2'' casing that is free. <b>forsult with WE&amp;T Engineer to determine whether CBL needs to be ran inside 7''.</b> Vireline freepoint and cut / pull all ''' casing that is free. <b>forsult with WE&amp;T Engineer to determine thet rest steps.</b> needed, next objective is to install annular cement barriers via perf and squeeze method. ISB BOP equipment. Consult with WE&T Engineer to determine there tabe needs to be ran inside 7''. Or should with WE&T Engineer to determine there tabe there in BOP equipment is needed on next steps. ID BOP equipment. Consult with WE&T Engineer to determine there tabe performed to either cut casing 50 ft below bottom o ment to surface, or perf/squeeze to surface. State inspector, and/or	bitain State plugging permit. tifty Reservoir Engineering & Geosciences (REG) of intent to take well out of service. repare access road and well site. Install ECD's per EM&CP. ervice all wellhead valves. ocument initial tubing / casing / annular pressures. cad 4-172' casing, 4-12" x 7", and 7" x 8-5/8" annuli with kill fluid. Load 8-5/8" x 10-3/4" annulus with TFW. IRU service rig. UI 2000 #7-1/16" BOPs (double ram with blind & pipe + annular). Secure BOPs to eliminate free movement. ressure test low/high to 250/1600 psig using packer set <30 ft. Pressure test TIW/stabbing valves. UI RUP and obtain CBL from TD to surface - keep hole full while logging. Notify WET engineer for CBL evaluation - procedu n results. <i>Ginsult with WEAT Engineer on results of CBL. Procedure may change depending on evaluation.</i> IH with work string and cut-lip shoe. Clean to TD at ~2426'. irculate two bottoms up. pot balanced cement plug(s) from TD to 1800 ft. WOC minimum 6 hrs, tag cement. If cement top is deeper than 2040', then stall ascond cement plug. D BOPs, install pulling nipple on 4-1/2" and 7", dress 8-5/8" to accommodate BOPE. UI 11" BOPE (blind + pipe) and annular on 8-5/8" casing. Need kill choke outlets below blind rams. unction and pressure test tow / high to 250 psig / 1000 psig. Vireline freepoint and cut / pull all 4-1/2" casing that is free. <i>Consult with WE&amp;T Engineer to determine whether CBL needs to be ran inside</i> 7". <i>Vireline freepoint</i> and cut / pull all 7". casing that is free. <i>Consult with WE&amp;T Engineer to determine therriers</i> via perf and squeeze method. Istall balanced cement plugs from BP to 300° above cement top behind 8-5/8" or 1200°, whichever is shallower. D BOP equipment. Consult with WE&T Engineer to determine the arivers via perf and squeeze method. Istall balanced cement plugs from BP to 300° above cement top behind 8-5/8" or 1200°, whichever is shallower. D BOP equipment. Consult with WE&T Engineer to determine the arivers via perf and squeeze method. ID 111" spo0! with	bein State plugging permit. dify Reservoir Engineering & Geosciences (REG) of Intent to take well out of service. repare access road and well site. Install ECO's per EM&CP. ervice all wellhead valves. document initial tubing / casing / anuliar pressures. ead 4.12° casing, 4.12° x 7°, and 7° x 8-5/8° annuli with kill fluid. Load 8-5/8° x 10-3/4° annulus with TFW. IRU service ng. U 2000 # 7-1/16° BOPs (double ram with blind & pipe + annular). Secure BOPs to eliminate free movement. ressure test (w/high to 250/1600 paig using packer set 30 ft. Pressure test TW/stabbing valves. U IRPB and obtain CBL from TD to surface - keep hole full while logging. Notify WET engineer for CBL evaluation - procedure may change n results. IN WW WEXT Engineer on results of CBL. Procedure may change depending on evaluation. IH with work string and out-lip shoe. Clean to TD at ~2426: irculate two bottoms up. pot balanced cement plugs from TD to 1800 ft. WOC minimum 6 hrs, tag cement. If cement top is deeper than 2040°, then stall accertion DBP above cement plug. DI BOPs, install pulling nipple on 4-1/2° and 7°, dress 8-5/8° to accommodate BOPE. UI 1° BOPE (bind + pipe) and annular on 8-5/8° casing. Need kill choke outlets below blind rams. unction and pressure test low / high to 250 psig / 1000 psig. Mireline freepoint and cut / pull all 4-1/2° casing that is free. forsult with WEXT Engineer to determine whether CBL needs to be ran inside 8-5/8°. forsult with WEXT Engineer to determine next steps needed, next objective is to install annular cement barries via perf and squeeze method. Isall balanced cement plugs from BP to 300° above cement top behind -5/8° or 1200°, whichever is shallower. D BOP equipment. Consult with WEXT Engineer to determine the result size performed and squeeze method. Isall balanced cement plugs from BP to 300° above cement top behind -5/8° or 1200°, whichever is shallower. D BOP equipment. Consult with WEXT Engineer to determine there on 10-3/4°. unction and pressure test low / high to

### 05/07/2021





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

٠.

- . . . -

FORM OG-8

------

limit.

### 4705100264P

#### AFFIDAVIT OF PLUGGING AND FILLING WELL

COAL OP		The Long Solid of Well ope an Union Truck Phil Mitteland: 22, Pana Conflict Address	ting -	t Cartaly	
		The State	ATION	19_62	
COAL OF	ERATOR OR OWNER	WELL AND LOU	ATION	District	
	ADDRESS	carbace all		C	
LEASE OF	R PROPERTY OWNER	Harmall-		_County	
		ell. No.			
	ADDRESS	Ger S. Bat	head	Farm	
		no Storing			
STATE INSPECTOR S	UPERVISING PLUGGING				
being first duly sw plugging and filling well operator, and p	ss: ss: and orn according to law depose and s oil and gas wells and were employed participated in the work of plugging the solution of second	ed by <b>The Market Constant</b> g and filling the above w	nced in the rell, that s	A Frit, C. aid work	
and filled in the fol	lowing manner:				-
SAND OR ZONE RECORD	FILLING MATERIAL	PLUGS USED		i cso	RECEIVED
FORMATION	•	PLUGS USED	Cag PULLED	CEG LEFT. IN	RECEIVED Office of Oil and G
PORTANBON	2528		CBG	i cso	RECEIVED Office of Oil and G
PORMATION NOTITAL DESIGN	•		CBG	i cso	JAN 21202
PORTANBON	2528 2528 to 2520 2530 to 2850		CBG	i cso	JAN 21202
PORMATION Pristoni Unité Lignagoi Ligna	2528 2528 to 2520 2520 to 2150		CBG	i cso	JAN 21202
PORMATION	2528 2528 to 2520 2520 to 2150		CBG	i cso	JAN 21202
FORMATION Prisingl Depict Lengest Denset Scol Cuttings from Stating Windows in	2523 2525 to 2510 2510 to 2150 2150 to 2150 2150 to 2150 2150 to 2150		CBG	i cso	JAN 21202
FORMATION Prisingl Depict Lengest Denset Scol Cuttings from Stating Windows in	2523 2525 to 2520 2530 to 2150 2155 to 2150		CBG	i cso	JAN 21202
FORMATION Professional Depicts Legangial Democal Democal Democal Cutting of Stational Lange Stational With Society Lange Stational Lange of Stational Lange of Stational Lange Stational Lange of Stational Lange of Stational Lange of Stational Lange Stational Lange of Stational Lange of Stational Lange of Stational Lange Stational Lange of Stational Lange of Stational Lange of Stational Lange Stational Lange of Stational Lang	2523 2525 to 2510 2510 to 2550 2550 to 2550 2550 to 2550 Notes 25 by. Count and set 25 Manual 2" Tablag at Mar. Bom Pressure of 100%, No.		CBG	i cso	JAN 21202
FORMATION Prisingl Depict Lengest Denset Scol Cuttings from Stating Windows in	2523 2525 to 2510 2510 to 2550 2550 to 2550 2550 to 2550 Notes 25 by. Count and set 25 Manual 2" Tablag at Mar. Bom Pressure of 100%, No.		CBG	CSO LEFT. IN	JAN 21202
PORMATION Program International I	2523 2525 to 2510 2510 to 2550 2550 to 2550 2550 to 2550 Notes 25 by. Count and set 25 Manual 2" Tablag at Mar. Bom Pressure of 100%, No.		Ces PULLED	CSO LEFT. IN	
COAL SEAMS	2523 2525 to 2510 2510 to 2550 2550 to 2550 to 2550 2550 to 2550 to 2550 to 2550 2550 to 2550 to 25500 to 2550 t		Ces PULLED	CSO LEFT. IN	JAN 21202
COAL SEAMS	2523 2525 to 2510 2510 to 2550 2550 to 2550 to 2550 2550 to 2550 to 2550 to 2550 2550 to 2550 to 25500 to 2550 t		Ces PULLED	CSO LEFT. IN	JAN 21202
COAL SEAMS	2523 2525 to 2510 2510 to 2550 2550 to 2550 to 2550 2550 to 2550 to 2550 to 2550 2550 to 2550 to 25500 to 2550 t		Ces PULLED	CSO LEFT. IN	JAN 21202
COAL SEAMS NAME) AMAKED AND AND AND AND AND AND AND AND AND AND	2528 2528 to 2510 2510 to 2550 2550 to 2550 to 2550 2550 to 2550 to 2550 to 2550 2550 to 2550 to 25500 to 2550 t		Ces PULLED	CSO LEFT. IN	JAN 21202
COAL SEAMS COAL SEAMS NAME) And that the work	2523 2526 to 2510 2510 to 2150 2150 to 2150 2150 to 2150 2150 to 2150 Notes 25 Ng. Count and 25 2100 Protocol and 25 200 Protocol and 25 2118 to 1125		CBG PULLED	CEG	JAN 21202

05/07/2021

Variable         Description         Procession         Processi	LOCATION	FARM		acturers	Li c	RESL	Hea EASE	NO.	DISTRI	CT -XD		NOR AND A	Camero suter	COUNT		128	STATE	
Open E         Contraction         Delive the main intermediate inte		TOPO.	In the offe	2008				12 1		Ft				Tial?	D	1	/ and	
UNCLE TOR         Dollied from         FA to         FA           OWNTRACTOR TOR         CONTRACTOR ADDRESS         CONTRACTOR TOR         Data if the Dollied from         FA to         FA           CONTRACTOR CONTRACTOR         CONTRACTOR ADDRESS         CONTRACTOR TOR         Data if the Dollied from         FA to         FA           HOLE         CONTRACTOR ADDRESS         FA to         Data if the Dollied from         FA to         FA           HOLE         Contractor ADDRESS         FA to         Data if the Dollied from         FA to         FA           HOLE         Difference         Contractor, Visit Virtual is Dollied from         Data if the Dollied from         FA to         FA           HOLE         Difference         Data if the Dollied from         Data if the Doli			CONTR	ACTOR	-					Ft		1	of		°			-
Total         Tope of Rig           ORILING TOR         ORILING ORDER/ MACTOR         Original Machine No. holid Damaron, Nock Virginal Difference of Development Control Control Letter No. holid The site Research Free of Rig Damaron, Nock Virginal Difference of Development Control Letter No. holid Difference of Development Control Letter No. holid Difference of Rig Difference of Development Control Letter No. holid Difference of Development Control Development Contr		HOLE	ADDRE	SS			_				-	Drille	ed from		Et. to	_	Et.	
CONTRACTOR CONTRACT NO. 10013 Contract No. 1013	C					01						Type	of Rig	a.				_
TON         ADDRESS         P. 0. Roc # 156         Type of Rig.         Drilling Hachine           PHOLE         PHOLE THIC COMPLEXED COMPLEXENCE COMPLEXENCE TO ALL DEPTH CALLS FOR WALL NO.         3/5/52         2/2/5         2/2/5         1/2/7         Reveal	CONTRACTOR	a trianation and	1.2.2	1.0.0.00	moor	Tri Mo.	ahir	No. No.	1.01	2			1.6					
No.E         1/10/62         3/5/62         2/26         n.1           SIZE         FROM-TO UNET)         0.70         0.77	1.1.1	TOR	ADDRE	55	P. 0	. Bo	x #	156		12								1
HOLE         BT GAUGE (incred)         1.2 <sup>H</sup> 10 <sup>H</sup> 6 <sup>H</sup> 6 <sup>H</sup> 1 <sup>H</sup> SIZE         FRANCE         10:271/H         0:52 (26)         10:22 (26)         10:22 (26)           CANNO         SIZE (FRANCE)         10:271/H         0:52 (26)         12:26 (26)         12:26 (26)           CANNO         SIZE (FRANCE)         H         J         J         J         J           TUBING         TYPE         Short         Short         Short         Short         Short           SIZE         FRANCE         H         J         J         J         J         J           GRANE         H         J         J         J         J         J         J           MOLOF SANCE         Short         Shor         Shor         Short		FIRSTRIG	COMMENC	CED (DATE)	DRILI	Came	OMPL	West	(DATE)	COMP	LETE	Type D. TOT	AL DEPTH	DATE	urchase	D FOR	WELL NO	
SIZE         FROM-TO UPERTY OLD 25/L OLD 27/5 OLD 22/50 OLD 22/50 OLD 20/50 OLD					-				1	1						1		-
CASHO AND MADE STREE, GADE TURNE STREE, GADE STREE, GADE STREE STREE STREE STREE STREE STREE STREE STREE STREE STREE STREE STREE STREE STREE STREE STREE STREE STREE STREE STR						0					6			2	t <sub>u</sub>			2
TUBILS STREE GROOM DATE SHOTT				10-3/			8-50	811		7"		1	-1/2"					3
(All Accord Profession: Short Short Profession: Short Profesion: Short Profession: Short Profession: Short Profes					_	1			-					2		1		81 I.
SO, OF SACKS     300     MAR C = 1962       WEIGHT BYORL     Drigtmal     Original     Disting       PACKER     STE     Doing that     Original     MAR C = 1962       PACKER     STE     Doing that     Original     Main Steep       STE     Weilt     Weilt     Weilt     Weilt     Bornethon       STE     STE     Description     Record     Record     Record     Record       TREATMAIN     TYPE     Weilt     Weilt     Weilt     Weilt     Steep       VELL     STE AND/ON ANDOUT     ZONE TREATED     OPEN FLOW     PERFORMED BY     PERFORMED BY       VELL     From     Before     After     Image: Steep     OTION       VELL     From     Before     Image: Steep     Image: Steep     Image: Steep       VELL     From     Before     Image: Steep     Image: Steep     Image: Steep       OFEN     DATE GAUGED     FORMATION     PAY ZONE     TYPE GAUGE     OFEN FLOW     Image: Steep       OFEN     DATE GAUGED     FORMATION     PAY ZONE     TYPE GAUGE     OFEN FLOW     Image: Steep       VELWEAD     DATE GAUGED     FORMATION     PAY ZONE     TYPE GAUGE     OFEN FLOW     Image: Steep       VELWEAD     DATE GA		COUPLING	TYPE	Short			Shor		Sh	ort		Sh	ort		020	ENA	En	-
SO, OF SACKS     300     MAR C = 1962       WEIGHT BYORL     Drigtmal     Original     Disting       PACKER     STE     Doing that     Original     MAR C = 1962       PACKER     STE     Doing that     Original     Main Steep       STE     Weilt     Weilt     Weilt     Weilt     Bornethon       STE     STE     Description     Record     Record     Record     Record       TREATMAIN     TYPE     Weilt     Weilt     Weilt     Weilt     Steep       VELL     STE AND/ON ANDOUT     ZONE TREATED     OPEN FLOW     PERFORMED BY     PERFORMED BY       VELL     From     Before     After     Image: Steep     OTION       VELL     From     Before     Image: Steep     Image: Steep     Image: Steep       VELL     From     Before     Image: Steep     Image: Steep     Image: Steep       OFEN     DATE GAUGED     FORMATION     PAY ZONE     TYPE GAUGE     OFEN FLOW     Image: Steep       OFEN     DATE GAUGED     FORMATION     PAY ZONE     TYPE GAUGE     OFEN FLOW     Image: Steep       VELWEAD     DATE GAUGED     FORMATION     PAY ZONE     TYPE GAUGE     OFEN FLOW     Image: Steep       VELWEAD     DATE GA				2541	_	-	152	41	2	2661		2	2891		NEU	<b>LIVI</b>	<u>EU</u>	-
WEIGHT 9/AAL.     Il.5#     Production     Department       MANUPACTURER     Original     Original     Original     Ball humbor     S. D.       PACKER     TYPE     Well     Well     Well     Pall humbor     S. D.       STIZE     Record     Record     Record     Record     S. D.       THEATMENT     TYPE - SIZE     Size AMOVER AMOUNT     ZONE TREATED     DPEN FLOW MOP/DAY PERFORMED BY     DATE       WELL     TREATMENT     TYPE - Size AMOVER AMOUNT     ZONE TREATED     DPEN FLOW MOP/DAY PERFORMED BY     DATE       WELL     From     Before     After     JAN     DATE     DATE       STANULATION     Prom     Before     JAN     JAN       Prom     Before     JAN     More From Science     JAN       OPEN     DATE EAUGED     FORMATION     PAY ZONE     TYPE GAUGE PRESSURE SIZE     OPEN FLOW ENVIRONM       PLOW     2     T (62 TAI & Dover Trom to     Origine Big Trom to     Origine Big Trom Transport T	CEUEUr	NO. OF SA	CKS	- tes		1.						3	00		MAR	- 19	52	-
MANUFACTURE       Original       Original       Wall       Weill       Description       S. C. D.         TYPE       WEIL       Weill       Weill       Weill       Weill       Weillight       Weill	CEMENT		1000			-					-			P	oduction	Depar	tmakt	-
SIZE REGORD ReGORD ReGORD 140 X 2011         SIZE ABGORD REGORD REATED OPEN FLOW MOT/DAY PERFORMED BY DATE         TREATMENT TYPE - SIZE ANG/OR AMOUNT ZONE TREATED OPEN FLOW MOT/DAY PERFORMED BY DATE         NELL STINGLASS ANGUNT ZONE TREATED OPEN FLOW MOT/DAY PERFORMED BY DATE         NELL STINGLASS ANGUNT ZONE TREATED OPEN FLOW MOT/DAY PERFORMED BY DATE         NELL STINGLASS ANGUNT TYPE - SIZE ANG/OR AMOUNT ZONE TREATED OPEN FLOW MOT/DAY PERFORMED BY DATE         OPEN FLOW END ANGUNT TO THE ANGUNT ANGULA TON THE TO BEFORE ANGUNT TO THE TO A T	1000	MANUFACT	URER		a] .	0					1	Ha11	iburton				CHISHE	2
SETTING DEPTH     Image: Setting of the size AND/or AMOUNT     ZONE TREATED     OPEN FLOW MG/DAY     PERFORMED BY       WELL     Image: Setting of the size AND/or AMOUNT     ZONE TREATED     OPEN FLOW MG/DAY     PERFORMED BY     DATE       WELL     Image: Setting of the size AND/or AMOUNT     ZONE TREATED     OPEN FLOW MG/DAY     PERFORMED BY     DATE       Image: Setting of the size AND/or AMOUNT     Image: Setting of the size AND/or AMOUNT     Setting of the size     OFEN     OFEN       Image: Setting of the size AND/or AMOUNT     Image: Setting of the size AND/or AMOUNT     Setting of the size     OFEN     OFEN       Image: Setting of the size AND/or AMOUNT     Image: Setting of the size     OFEN     OFEN     OFEN     OFEN       Image: Setting of the size AND/or AMOUNT     Image: Setting of the size     Image: Setting of the size     OFEN     Image: Setting of the size     Image: Setting of the size       Image: Setting of the size AND/or AMOUNT     Image: Setting of the size       Image: Setting of the size     Image: Setting of the size     Image: Setting of the size     Image: Setting of the size     Image: Setting of the size       Image: Setting of the size     Image: Setting of the size     Image: Setting of the size     Image: Setting of the size       Image:	PACKER				d				1					-	-			-
VELL       From       Before       After       Office         STINULATION       (None)       From       Before       Office         OPEN       DATE GAUGED       FORMATION       PAY ZONE       TYPE GAUGE       PRESSURE       SIZE       OPEN FLOW       Environm         PLOW       DATE GAUGED       FORMATION       PAY ZONE       TYPE GAUGE       PRESSURE       SIZE       OPEN FLOW       Environm         PLOW       T / 62       FORMATION       PAY ZONE       TYPE GAUGE       PRESSURE       SIZE       OPEN FLOW       Environm         YELL       ATE GAUGED       FORMATION       PAY ZONE       TYPE GAUGE       PRESSURE       SIZE       OPEN FLOW       Environm         YELL       2       7       62       TOLA       OPEN FLOW       Interview       Interview <td></td> <td></td> <td></td> <td>1.1.1.1.1.1.1</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>2</td> <td>291</td> <td></td> <td></td> <td>1, -</td> <td></td> <td>-</td>				1.1.1.1.1.1.1					-			2	291			1, -		-
WELL       TO       After       Office         STINULATION       (None)       To       After       Office         TINULATION       (None)       To       After       JAN         OPEN       DATE GAUGED       FORMATION       PAY ZONE       TYPE GAUGE       PRESSURE       SIZE       OPEN PLOW       WV E         OPEN       DATE GAUGED       FORMATION       PAY ZONE       TYPE GAUGE       PRESSURE       SIZE       OPEN PLOW       WV E         TEST       2       7       62       TOIL& LOWEST       From       to       Orifice       81/10       N.C.F./ DAY 198. EDM         TEST       2       7       62       TOIL& LOWEST       From       to       Orifice       72/10       N.       1/1"       17       2         WELLHEAD       Big: IDI:       From       to       Orifice       72/10       N.       1/1"       17       2         WELLHEAD       Big: IDI:       From       to       Orifice       75/10       70       20       24 HR. 48 HR. 72 HR.       MAK.PRESS. TIME         PRESSURE       3       5       62       Dist. TO GROUND       ELEVATION       2 ha       11/2"       11/2"		TREATMENT	1176	JAILE .	JUR	AMUUT		_	TREAT	ED			mor/DAY	PERFO	RMED BY	1	DATE	-
STINULATION       (None)       100       After       Office         Image: String Latter Property of the string of the							4	to		-	After							- 85
Image: Second	1. A. M. A. M.		(Nor	ne)		*						e						Office of
OPEN     DATE GAUGED     FORMATION     PAY ZONE     TYPE GAUGE     SIZE     OPEN FLOW     Environment       PLOW     MaxLon_Big     From     To     Orifice     Size     OPEN FLOW     Environment       PLOW     2     7     62     This     Lower     From     To     Orifice     Size     OPEN FLOW     Environment       3     2     62     This     Lower     From     To     Orifice     72/10     N.     1/1     17     2       WELLHEAD     PATE TAKEN     FORMATION     To     3     5     62     This     To     7       WELLHEAD     J     5     62     J     J     5     10     20     30     24 HR.     48 HR.     72 HR.     MAX.PRESS.     TIME       WELLHEAD     J     5     62     J     J     5     10     20     30     24 HR.     48 HR.     72 HR.     MAX.PRESS.     TIME       WELLHEAD     J     S     10     20     30     24 HR.     48 HR.     72 HR.     MAX.PRESS.     TIME       WELLHEAD     S     GO     Dame     Gauce     Sate     Sate     Sate     Time       VELLHEAD     S						-					1.00	6					1	IAN
OPEN       Maxton,Big       From       to       Orifice       Bl/10 W.       M.C.F./DAY       M.C.F./DAY         FLOW       2       7       62       Ini.& Lower From       to       Orifice       Bl/10 W.       1"       71.3       7         3       2       62       Ini.& Lower From       to       Orifice       72/10 W.       1/h"       1.a       7         3       2       62       Ini.       From       to       Orifice       72/10 W.       1/h"       1.a       7         DATE TAKEN       FORMATION       I       3       5       10       20       30       24 HR.       48 HR.       72 HR.       MAX.PRESS.       TIME         WELLMEAD       FORMATION       I       3       5       62	Ì		1					78.c				8						- UAIN
OPEN       Maxton,Big       From       to       Orifice       Bl/10 W.       M.C.F./DAY       M.C.F./DAY         FLOW       2       7       62       Ini.& Lower From       to       Orifice       Bl/10 W.       1"       71.3       7         3       2       62       Ini.& Lower From       to       Orifice       72/10 W.       1/h"       1.a       7         3       2       62       Ini.       From       to       Orifice       72/10 W.       1/h"       1.a       7         DATE TAKEN       FORMATION       I       3       5       10       20       30       24 HR.       48 HR.       72 HR.       MAX.PRESS.       TIME         WELLMEAD       FORMATION       I       3       5       62			1			-	-	1				- 1 pr	FCCIDE	6175		OPEN E	TOW E	WV D
TEST       2       7       62       Thisk Lower From to From to Orifice       Orifice       84/10 W.       1"       71.3.       7         3       2       62       From to From to Orifice       02/10 W.       1/h"       1.7       2         DATE TAKEN       FORMATION       I       3       5       10       20       30       24 HR.       48 HR.       72 HR.       MAX.PRESS.       TIME         WELLHEAD       DATE TAKEN       FORMATION       I       3       5       10       20       30       24 HR.       48 HR.       72 HR.       MAX.PRESS.       TIME         WELLHEAD       J       5       10       20       30       24 HR.       48 HR.       72 HR.       MAX.PRESS.       TIME         WELLHEAD       J       J       J       0       10       10       10       10       10       10       10       10       10       10       11       11       11       11       11       11       11       11       11       11       11       10       11       11       11       11       11       11       11       11       11       11       11       11       11       11 <td< td=""><td></td><td>DATE GAUG</td><td></td><td></td><td></td><td></td><td>Y ZO</td><td>NE</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>r HRS. BLOW</td><td>N</td></td<>		DATE GAUG					Y ZO	NE	-								r HRS. BLOW	N
3       2       62       Big: Ini.       From to       Orifice       72/10 N.       1/h"       h.7       2         WELLHEAD       DATE TAKEN       FORMATION       1       3       5       10       20       30       24 HR.       48 HR.       72 HR.       MAX.PRESS.       TIME         PRESSURE       3       5       62       1       1       3       5       10       20       30       24 HR.       48 HR.       72 HR.       MAX.PRESS.       TIME         PRESSURE       3       5       62       1       1       1       3       5       10       20       30       24 HR.       48 HR.       72 HR.       MAX.PRESS.       TIME         PRESSURE       1		2 7	62 Ini.	& Lower						Orif	ice	81	/10 W.	7.11	7	1.3	7	1
DATE TAKEN       FORMATION       MINUTE PRESSURE - PSIG       WELLHEAD PRESSURE - PSIG         WELLHEAD       3       5       62       30       24 HR.       48 HR.       72 HR.       MAX.PRESS.       TIME         PRESSURE       3       5       62       585       585       585       585         MISC.       DEPTH MEASUREMENT TAKEN FROM:       DIST. TO GROUND       ELEVATION       2 H.       11/79'         MISC.       Derick Floer       Ground       Other (Specify)       2 H.       11/79'         MISC.       Derick Floer       Ground       Other (Specify)       2 H.       11/79'         Vise:       No       Schlumberger Well Survey Corp.       Dist. TO GROUND       ELEVATION         * Note:       Form 2D-17 "Well Fracture Report to be completed and attached, if applicable       2 B 162         * Note:       Form 2510!       to 2150! through 2" Tubing, Cut Window in 7" Csg. from 2073! to 2090' W/         Servco Section Mill & Undereamed a 11 <sup>1</sup> / <sub>2</sub> " hole from 2073! to 2079!3" W/Servco Hole       Opener. Cut Window in 7" Casing from 1675' to 1685! W/Servco Section Mill. Run 1 <sup>1</sup> / <sub>2</sub> "         Tubing to 2289! & Cemented, 21' of Casing Cuttings left in hole from 2150! to 21/26'.       The 10", 8" & 7" Casings remain the same as was installed on W.0.1253-L-606-lie <td></td> <td>2 0 1</td> <td>52 Bi</td> <td>g Ini.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Out P</td> <td></td> <td></td> <td>- T- 1</td> <td>2/1.</td> <td></td> <td>100</td> <td>11:22</td> <td>- 1</td>		2 0 1	52 Bi	g Ini.						Out P			- T- 1	2/1.		100	11:22	- 1
WELLHEAD       I       3       5       10       20       30       24 HR.       43 HR.       72 HR.       MAX_PRESS. TIME         PRESSURE       3       5       62       585       585       585       585         MISC.       DEPTH MEASUREMENT TAKEN FROM:       DIST. TO GROUND ELEVATION       2 ft.       11/79'         MISC.       Depth MEASUREMENT TAKEN FROM:       Dist. TO GROUND ELEVATION       2 ft.       11/79'         MISC.       Depth MEASUREMENT TAKEN FROM:       Dist. TO GROUND ELEVATION       2 ft.       11/79'         MISC.       Depth MEASUREMENT TAKEN FROM:       Dist. TO GROUND ELEVATION       2 ft.       11/79'         MISC.       Depth MEASUREMENT TAKEN FROM:       Dist. TO GROUND ELEVATION       2 ft.       11/79'         MISC.       Depth MEASUREMENT TAKEN FROM:       Dist. TO GROUND ELEVATION       2 ft.       11/79'         MISC.       Depth MEASUREMENT TAKEN FROM:       Dist. To GROUND ELEVATION       2 ft.       11/79'         MISC.       Depth MEASUREMENT TAKEN FROM:       Schumberger Well Survey Corp.       PATE LEGGEP,       2 ft.         MISC.       Well Was leaking gas from deeper sands. Pulled 2539' of hg." Tubing, Cemented back       From 2510' to 2090' W/       Serveo Section Mill & Undereamed a 11g." hole from 2073' to 2079'8" W/Serveo Hol					Fror	_			- PS		ICe	1 10					2	- 1
PRESSURE       3       5       62       585         TESTS       DEPTH MEASUREMENT TAKEN FROM:       DIST. TO GROUND ELEVATION         MISC       DepTH MEASUREMENT TAKEN FROM:       DIST. TO GROUND ELEVATION         MISC       DepTH MEASUREMENT TAKEN FROM:       DIST. TO GROUND ELEVATION         MISC       DepTH MEASUREMENT TAKEN FROM:       DIST. TO GROUND ELEVATION         MISC       DepTH MEASUREMENT TAKEN FROM:       DIST. TO GROUND ELEVATION         MISC       DepTH MEASUREMENT TAKEN FROM:       DIST. TO GROUND ELEVATION         MISC       DepTH MEASUREMENT TAKEN FROM:       DIST. TO GROUND ELEVATION         MISC       LOGGED       Schlumberger Well Survey Corp.       2 ft.         * Note: Form PD-17 "Well Fracture Report" to be completed and attacked. # applicable       2 ft.       162         Well MAS leaking gas from deeper sands. Pulled 2539' of htmas, Gemented back       From 2510' to 200' N/       200' N/         Serveo Section Mill & Undereamed a 112" hole from 2073' to 2079'8" W/Serveo Hole       Opener. Cut Window in 7" Casing from 1675' to 1685' W/Serveo Section Mill. Run htm         Tubing to 2289' & Cemented. 24' of Casing Cuttings left in hole from 2150' to 2126'.       The 10", 8" & 7" Casings remain the same as was installed on W.0.1253-L-606-Li.		DATE TAKE	- FURN	MATTON	1	3	5	10	20	30	2	4 HR.	48 HR.	72 HR.	MAX.P	RESS.	TIME	
MISC.       Dep TH MEASUREMENT TAKEN FROM:       Dist. TO GROUND ELEVATION         MISC.       Dorrick Floor       Ground       Other (Specify)       2 %       11/79'         MISC.       Dorrick Floor       Ground       Other (Specify)       2 %       11/79'         LOGGED       LOGGED BY (COMPANY)       DATE LOGGED,       10 %       11/79'         Wisc.       No       Schlumberger Well Survey Corp.       10 %       10 %         * Note: Form PD-17 "Well Fracture Report" to be completed and attacked. # applicable       2 8 162       2 8 162         * Note: Form PD-17 "Well Fracture Report" to be completed and attacked. # applicable       2 8 162       2 8 162         Well was leaking gas from deeper sands. Pulled 2539' of 11/2" Tubing, Cemented back       From 2510' to 21:50' through 2" Tubing. Cut Window in 7" Case. from 2073' to 2090' N/         Serveo Section Mill & Undereamed a 112" hole from 2073' to 2079'8" W/Serveo Hole       Opener. Cut Window in 7" Casing from 1675' to 1685' W/Serveo Section Mill. Run 112"         Tubing to 2289' & Cemented. 21' of Casing Cuttings left in hole from 21:50' to 21:26'.       The 10", 8" & 7" Casings remain the same as was installed on W.0.1253-L-606-11.		3 5	52									22	585 -					1
MISC.       DEPTH MEASUREMENT TAKEN FROM:		11						1			T							
MISC.       Image: Subscription of the subscri	t i	( I			Î			1		1				-		•		-
MISC.       Image: Second Control of the second of the secon				INT TAKE	N FR	DM:		-	1	1	1		DIST	TO GE	ROUND	ELEVA	TION	-
Image: Second point of the same as was installed on W.0.1253-L-606-h.         Image: Second point         Image: Second point </td <td>HISC.</td> <td></td> <td>Floor</td> <td></td> <td>ay In</td> <td></td> <td></td> <td>pecify)</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>2 ft.</td> <td>31.7</td> <td>91</td> <td>1</td>	HISC.		Floor		ay In			pecify)			-				2 ft.	31.7	91	1
* Note: Form PD-17 "Well Fracture Report" to be completed and attached. W applicable 		X Yes	the second second second	Sch	umb	erger	We.	11 Su	rvey	Corp					12	C LO	IZ4	4
from 2510! to 2h50! through 2" Tubing. Cut Window in 7" Csg. from 2073! to 2090! W/         Servco Section Mill & Undereamed a 112" hole from 2073! to 2079'8" W/Servco Hole         Opener. Cut Window in 7" Casing from 1675! to 1685! W/Servco Section Mill. Run han         Tubing to 2289! & Cemented. 24! of Casing Cuttings left in hole from 2450! to 2426!.         The 10", 8" & 7" Casings remain the same as was installed on W.O.1253-L-606-4.		* Note: For	m PD-17 **	Well Fractur	Repo	n** to b	e com	pleted a	nd attac	bed. if	applic	sòle				<u></u>	102	
from 2510! to 2h50! through 2" Tubing. Cut Window in 7" Csg. from 2073! to 2090! W/         Servco Section Mill & Undereamed a 112" hole from 2073! to 2079'8" W/Servco Hole         Opener. Cut Window in 7" Casing from 1675! to 1685! W/Servco Section Mill. Run han         Tubing to 2289! & Cemented. 24! of Casing Cuttings left in hole from 2450! to 2426!.         The 10", 8" & 7" Casings remain the same as was installed on W.O.1253-L-606-4.		Well we	as leak	ing gas	fro	n dee	per	sand	s. Pu	lled	253	91 of	· 1금기 Tu	bing.	Cemen	ted ba	ack	1
REMARKS Servco Section Mill & Undereamed a 11 <sup>1</sup> / <sub>2</sub> " hole from 2073' to 2079'8" W/Servco Hole Opener. Cut Window in 7" Casing from 1675' to 1685' W/Servco Section Mill. Run 4 <sup>1</sup> / <sub>2</sub> " Tubing to 2289' & Cemented. 24' of Casing Cuttings left in hole from 2450' to 2426'. The 10", 8" & 7" Casings remain the same as was installed on W.0.1253-L-606-4.																		au tra
Tubing to 2289' & Cemented. 24' of Casing Cuttings left in hole from 2450' to 2426'. The 10", 8" & 7" Casings remain the same as was installed on W.C.1253-L-606-4.	1																	
Opener. Cut Window in 7" Casing from 1675' to 1685' W/Servco Section Mill. Run 42" Tubing to 2289' & Cemented. 24' of Casing Cuttings left in hole from 2450' to 2426'. The 10", 8" & 7" Casings remain the same as was installed on W.O.1253-L-606-4.	REMARKS	Serveo	Section	n Mill &	Un	ierea	med	a 11	a" ho	le fi	rom	20731	to 207	9181 1	N/Serve	to Ho	le	
Tubing to 2289' & Cemented. 24' of Casing Cuttings left in hole from 2450' to 2426'. The 10", 8" & 7" Casings remain the same as was installed on W.C.1253-L-606-4.	-	Opener.	Cut W	indow in	7"	Casi	ng i	from	1675	to :	1685	W/s	ervco S	ectio	n Mill.	. Run	4章	
The 10", 8" & 7" Casings remain the same as was installed on W.O.1253-L-606-L.								-34-57		10000							1	1
	1																c420'	N
stach additional sheets and forward to Production Dept. Pittsburgh General Office	tter aller											stall	ed on W	.0.12	53-I-60	06-4e		y.

\_\_\_\_\_

Form PD-44b .

4.

#### COLUMBIA GAS SYSTEM - PITTSBURGH GROUP COMPANIES

#### WELL LOG SUMMARY

1 of 1 Sheets

.

		Gay B. Hat		COUNTY Marshell 47015100264
RIGIN OF FORMATION DEPTHS		riller's Log		REMARKS
FORMATION	ТОР	BOTTOM	THICKNESS	(Water, Gas, Oil encountered-Open Flows-Rock Pressure-etc.)
Pitteburgh Coal	8111	1125	7	
Burphy Sand	1235	1255	20	
Big Durkard	1605	1627	22	
lst Salt Sand	1784	1825	h	
2nd Salt Sand	1935	1960	25	
Haxton Sand	221-7	2165	24	
Big IBJAK Line	2255	2290	8	
Big Injun	.2295	2530	235	
Total Depth		21,26		
his Tubing set 8 2291'				
•			. •	
				Note: Hell was licking gas from deeper
				RECEIVED sands, Pulled 2539* efficit Tubing, Office of Oil and
·				Commented back from 2510 to 2150 W/2* JAN 2 1 20
	1	1	1	Tubing, fat winder in 7 Onding from
	-	1		WV Departmen 2073' to 2090' W/Servec Section Minvironmental Prot
	-		1	and Underson a 113" Hole from 2073' to
				2079'8" W/Serveo Hole Opener. Cut
		+		Hindow in 7" Custag from 1675" to 1685"
				H/Serves Section Mill. Run Lin Tubing
				to 2289' & Cesented W/300 Bg. Commit,
	-		+	
				lh.57 per gal.good raturn of cement at
			·	surface, bin Tubing set on a Formation
				Racker Shoe set at 2291*. 2h* of Casing
				Cuttings left in hole from 2650 to 2620
			-	
				1
•			_	<u> </u>
		<u> </u>		

Division Record of	well No	1852		n G.B.	Methows		1.1	Farm			Acr	A	10
Cameron		Field	Libert			ershall	1	Count	y Tea	\$ Va.	Sta	te	
Rig Comr	nenced		1	9,		mpleted					19		
-1947 -	Commenced	Becenber	24, 1	9 53	Co	mpleted	Oct	ober	10.		19 5		
	r L.G.IS				Ad	Idress C	amer	on, I	lest V	irgini	ž,		
			r. Sdieoz	: Isiming	er, Homer	, Antil							
										_			
		1		CASING	AND TUBIN		1		-	-	- 1		-
0.0120	Conductor	18"	10**	31/4"	q#	6 5/8/	53	/16″	4"		30	-	
Used in Drig.			10000	Multiple	125 124		-		5 1210				-
Left in well			256*	1535	2283*	SHOO	TING	RECO	25391		_		1
			leasured	with the Type Ex			1	DEF		1	Volume	1	Volume
dize	Depth Set	Type Packer	Date		(0:051VP	Amount	1 21	00	Botte	m Be	fore Cu. Ft.	1	ter Cu. Ft.
= 7"	2224	Anchor	10.26.5			-	21	4	2165	89	326	29.3	26
_	1	1		Ve	DLUME AND	PRESSUR	KE	PRESS	URE IN	MIN.	1	1	1
Data	Reading in Inches	Ligaid	Size Orifice	Volume		Sand	1	5	10	80 60	24 Hour E. P.	Max. R. I	P. Hour
0/26/54	14/10	Nator	Ta	29*326	Big L	ijun	0	5 1/1	2	100	380	500	432
	1	1			Maxto	22	-				294	1	288.
TOTAL I	NITIAL OPEN	FLOW			1		CI	JBIC F	EET PE	R 24 HO	URS	1000 - 1000	
	FORMATIO	N	TOP	BOTTOM	THICKNESS				F	EMARKS			
[35	rgh Coal		1100	1107	7		and the second	10.1 2019		2			3
	nga Goul Inkard Su	nà	1450	1465	15						nss fou 1g set		
latten St		2143	2141	2193	19	1933-3	10 Cy		unter a	nd sta	ng sec ce to t	the dem	th ab
sig inju	101.01		2295	2530	335						69 65 6 592 85		1
	spth for	Strawe	2528		125			-			p of Pl		-
· Preser Di	Sim TAE		Cyclu							ta 252		-Genes	
				1	1	-					conont	ing th	e 10
				-	1					to sur			
				1.0	1		-				en the	10 3/	Fu
iynesbur (	g Coal.		750	754							a.8 5/8		
pletom			1000	1007		-					a 400 m		
tteburgi	1 Coal		1100	1108	1	cement	use	d bet	W0911	the 10	3/4" a	nd 8 5	/8*
					1	sater	in t	he e	ment	return	ed to s	urface	but
" Casing	set at 2	2671				20 060	ert,	bale	ince i	as fil	ted fro	m top	of
						Casing			1 AND 1 A				
					1.5.4						een the		and
			-	1.	-	7ª 685					surface	w:	
						11 B		and internet	Recor		- 41 - 44-	1.4:	
				-	1	14 x			_	or set			
						anchor				and the	1	4*	
			-			First P					28"Sec	ond	
			-			Perfora		_			aberger	with (	96
	é se é					shots.T	-						
					~	Maxton	Sand	-					
				-	1	Open 21 some ge							_
						294# in	and the second second	Sector States		And the second second			
			1	1	1				200			2. S.	

NOTE-The above blank must be filled out curefully 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 steel line measurements, and under the head of "Remarks" must be recorded in what sand sud at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.



DEPARTMENT OF MINES OIL AND GAS DIVISION

. cameron

		RS LIGHT AND 1		Casing and	Used in Drilling	Left in Well	Packers	
		Bldg., Pgh.,		Tubing	Drilling	Weit		2
		A	cres_60	Size				
Location (waters). Well No	1852	F	Slev_1479!	18			Kind of Packer	÷
District Liber			rshall	13			Anchor h = 7	-
		fee by			1524	2561	Size of 4 x 7	
		Address		814	1524	15351 22831	Depth set_2224	
Mineral rights are		Adamen		18% 7 ,第59月1181 4	~~~~~	25391	Depta set	<u>+</u>
Drilling commence		Address ber 24, 1953				- 6/57	Perf. top	
Drilling commence Drilling completed		er 10, 1954		2			Perf. bottom	24
Date Shot 10-		n To		Liners Used			Perf. top	£
With							Perf. bottom	n an
		in1				·	bil	<b>.</b>
		in		CASING CEMI	ENTED	SIZE	No. FtDet	e
Volume Rock Pressure			Cu. Ft.		CARL COLOR	750		
Oil			bbls., 1st 24 hrs.		INCOUNTERED			1.00
Fresh water		feet		_1100 FRE	TINCH			- T.H.
Salt water		feet	feet	FEE	T INCH	TES	FEET INCHE	ŝ
Formation	Color	Hard or Soft	Төр	Bottom	Oil, Gas or Water	Depth Found	Remarks	RECEIVED Office of Oil and
Pittsburg	h Coal		1100	1107 1	In aleening	open	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1943
Little Du	nkard Sand	4	1450	1465 2	2530 to 2930	1.6" Le	ead Flug set at 20	DAD JAN GILL
Maxton Sei Big Injun		( I	2141					
	th for sto	trage	2295 2528	2530 c	If 2543' Sec	.ond lead	6" Plug set at 25 on top of Plug ma	Environmental Pro
1		1464	L'AL	t	the total sta	drage dep	oth to 2528	EL
		( I	× × .	1	158 sacks cer	ement was	used cementing th	18
Waynesburg	c Coal	1	750	754 4	10 3/4 Casin	g, Good r	eturn to surface. 1 between the 10-3	5/1
Mapletown	Coal	6 1	1000	1007 c	casing and 8	3-5/8" No	Return. 8 5/8" ca	asi
Pittsburgh	n Coal	6	1100 ,	1108 W	was perforate	ted at 121	14' and 400 more s	SEC
*		1. 01			ement used a	tetween 1	10 3/4 and 8 5/8" ad to surface but	Va
7" Casing	set at 22	67'		c	cement, bala	ance was f	filled from top of	Ĕ
. 1		(2. CD 14)	allo anak		casing to su	mface.		1324
× •		1 1		s cement use o surface.	d between w	he 0 5/0-	' and 7" casing. g	200)
		1. 1						
	λ.	1	Packer Re			and in		傳
		1 1		nder packer	ker set at 2	304:		a.
		6 11	First Per	rforated joj	int at 2528'	Second P	Perforated Joint a	at
		1	2259 ·	- man shot 1	- Cabulabor	Landth	96 shots. Top of	
		1	2141. Bo	ttom 2165' 1	in the Maxton	ger with sand	96 shors, top or	Sh
1		1	Open flow	w was not in	ncreased afte	er shooti	ng, some gas came	in
	53456		later wit Sand	h a rock pr	essure of 20	9# in 28	8 Hours from Maxt	то.
A	ALL AS	83	Dalla		1.			
(S)	JAN 195	101	1				4.4	
120	ECOPENS	517	1	/ ite	1		- Alter	
	WEST MERIC			/	A	1.1.1		
183	A CALCERT	12:00					- · · · · · · · · · · · · · · · · · · ·	
15787	UEPT. OF MINIS	10. 5				4		
1912	Contractor	5 6		×		1		
19050	UEPT. OF MINUS	3 6						

(Over)

Division Record of a	vell No. 1	852	or	Gay	B. Mather	WS.		Farm				Acre	es		
Cameron		Field	Liber	iy	District	Marshall		Count	У	H. 1	12.4	Stat	e		
tig Comm	enced	May 6.	19	15,	Co	mpleted		3	tay 19		19	53			è i
Drilling Co	mmenced	Hay	21, 19	15,	Co	mpleted			Sept 1		19	53			-
Contractor		adon & Fle				idress			-						-
Driller's N	ame S	. E. Stone	Braker	Gran	t Richer	de	-					_			
	ng at an a state of the m			CASING	AND TUBIN	IG RECORT	2								
	Conductor	13"	10"	81/4#	7"	6 5/8"		/16#	4#	T	8"	T	-		
Jsed in Drig.							-			1	-				
eft in well									1					1	-
PACK	ER RECOR	D		¥		SHOOT	TING	RECO	DRD			-			-
ize	Depth Set	Type Packer	Date	Type Ex	plosive	Amount	-	DEP			Volu Before		1	clume er Cu. Ft.	
	2		- Q	-			To	2	Botto		Belore	JU. FL.	AIP	er Cu. FL	-
				VO	LUME AND	PRESSURI	E								
ata	Reading	Liquid	Size	Volume		Sand		PRESS	URE IN 1			4 Hour R. P.	Max. R. P.	Hours	
	in Inches		Orifice	204/13			1		10			at Fr			-
										-	1		-		
TOTAL IN	TIAL OPEN	FLOW					CI	JBIC F	EET PE	R 24 H	IOUR	5			
	FORMATIO	N	TOP	BOTTOM	THICKNESS					EMARK	u.				1
- 2	FORMATIO		101	BOITOM	Thickness				15	1941 / 19 19 19 19 19 19 19 19 19 19 19 19 19					
Go	schotor		14	-		-									
10	" Casing		252		-								_		-
Ne	ynesburg	the Coal	750	754								-			
Ma	pletern	Coal	1000	1007			_							Office	CEIV
	ttsburgh	1	1100	1108	-									Office	of Oil
		ukard Sand	1450	1465			_							the second se	1 61
	Casing		1515	-										JA	-
	<u>e Chakar</u>	d Sani	1620	.1655			-							JA	I Depa
	al		1705	1710		-		-				-		Enviro	-
	and Same	@ 30001	1768	1825		Little	Gas	and	Water						-
	1t Sand	a tonn.	1900	1915	1		-								-
	ad .	-	1925	1950	1	1					-	-			÷
	जात. भारते		2010	2050 211.0		-									
	uxim Sami	1	2145	2210	1					-				-	•
	5/8" Cas		2295	Carlos dista											-
10.10.00	g Line		2265	2287	1		-								
	g Injun	Sand	2287	2530									-		
	auw Sand		2538	2550		1				_					
Th	irty Foo		2906	2950	1							_			2
	fty Foot		3112	3240		1			_						
	rdon Str		31.55	3166					_						-
	rdon Sar		3180	3208											
-	orth Sar		324	3254											
	fth Sand		3300	3306	-										
To	tal Dept	h	3681				-			-		-			
															2

NOTE-The above blank must be filled 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 formations and known sands must be given by their proper name, with the line 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.

•

	well No. 1	852		on Gay	ð, m	thes	<b>\$</b>		Farm			-	Acr	es		_
		Field			Town Dista	nship rict			Count	y		·	Stat	æ		_
Rig Comm	enced			19 ,		. Co	mpleted					1	9			-
	ommenced		"•	<u>19</u> ,			mpleted					1	9			-
Contracto Driller's N						Ac	<u>idress</u>									-
Dimer 8 1		· · ·					i.i.,									-
•		•		CASIN	G AND	TUBI	G RECO	RD								-
	Conductor	18″	10″	8 1/4"	7#		65/8"	5 8,	/16*	4	*	8^				-
Used in Drig.										ļ						-
Left in well					<u> </u>		• 									-
PAC	ER RECOR	D					SHOC	T								-
Size	Depth Set	Type Packer	Date	Type I	Explosive		Amount	To		PTH Bo	ttom		olume ire Cu. Ft.		olume er Cu. Ft.	-
· · · · · · · · · · · · · · · · · · ·	<u> </u>															<b>-</b> .
	<u> </u>			· · · ·		<u></u>	PRESSU	RE T	PRES	URE I	N MIN			+	1	-
Date ·	Reading in Inches	Liquid	Size Orifice	Volum	ie -	<u>,</u>	Sand ,	1	5	10	80	60	24 Hour R. P.	Max. R. P.	Hours	_
• .																-
				1							<u> </u>					-
TOTAL IN	ITIAL OPEN	FLOW					-	CL	JBIC F	EET P	PER 24	4 HOU	RS			
	FORMATION	1	TOP	BOTTON	a THIO	CKNESS				×.1	REMA	RRS				
	•						<b> </b>									-
	ing pulle	d bet 55				<u>hich</u>	an lei									-
											<u>م</u>	~ M				
ospe. 1	4. * Wal	l) plugge	d in dig	; <b>kajum</b> s	azd w	ith 3	- 6-5/8	)" dr	y ho	ie p.	LASS.	<b>4</b> 6 2	272.			-
	i. Tiekter				ard v	ith 3	- 6-5/C	) <sup>8</sup> èr	y ho	le p.	lags	86 2j	272.			-
Pitass		Wright &	Frank A	land.			ė									CEIVED
Vitasso Lovenbo	: Takter	Gright &	Frank 5 d in 8°	ienc. with 8"	dry h	ale 1		<u>B1g</u>							Office	CEIVED of Oil and C
Vitasso Revente Nov. 11	: Wakter r 10, No	Wright & Ll Plagge nd in 10°	<sup>i</sup> rank b d in 8° cole wi	ienc. with 8" ith 10° d	dry h	ale p le pl	ing et 1	<b>B1</b> g 1072	Dank	ard I	send.	at 1	64:0*	•	Office	CEIVED of Oil and C
Vitasso Novembe Nov. 11 Vitass	: Walter r 10, We Plugg ; Nath J L LEFT JJ	Wright & Ll Plagge ed in 10" Junhon R. H EOLE OR	Frank N d in 8" hole wi L. Reid ACUOSET	iana. with 8* ith 10* d 1 Sam 0	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at l oha l	SLO*		Office JA	CEIVED of Oil and C N 2 1 20
Vitasso Novembe Nov. 11 Vitassa	: Walter r 10, We Plugg ; Nath J L LEFT JJ	Wright & Ll Pingge ed in 10 <sup>0</sup> Junden A.	Frank N d in 8" hole wi L. Reid ACUOSET	iana. with 8* ith 10* d 1 Sam 0	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at l oha l	SLO*	•	Office JA	CEIVED of Oil and O A 2 1 20 Departmental P
Vitasso Novembe Nov. 11 Vitassa	: Walter r 10, We , Plugg ; Nath 1 L LEFT 11 2 = 4-3,	Wright & Ll Plagge ed in 10" Junhon R. H EOLE OR	Frank 5 d in 8" bole wi 4. Reid ACUONT STRIS	iana. with 8* ith 10* d 1 Sam 0	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at l oha l	SLO*	•	Office JA W Envir	CEIVED of Oil and C N 2 1 20 Departmental P
Vitasso Novembe Nov. 11 Vitassa	: Walter = 10, Moi - Plugg - Neth J L LEFT 11 2 - 14-3, 2 SET 14 - 14-3, - 14-3, - 14-3, - 14-3, - 14-3, - 14-3, - 14-3, - 10, Moi - 10, Mo	Wright & Ll Phages ed in 10 <sup>9</sup> Sanbers & H EOLE OB A ROLE OB A X 146 B	i Frank I in 8" in 10 mi in Reid i Acussi STRIS ARS B JABS	ienc. with 8" ien 10" d i Sam C : 09 FISH	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at l oha l	SLO*		Office JA M Envir	CEIVED of Oil and o N 2 1 20 Departmental P
Vitasso Novembe Nov. 11 Vitassa	: Walter r 10, Wei Plugge 3 Math J L LEFT 11 2 - 1-3, 2 SET 14 2 - 1-3, 2 SET 14 1 - 7/8	Wright & Ll Phages ad in 10" Anders & A EOLE OR A EOLE O	rank B in 8" in 8" i	ienc. with 8" ien 10" d i Sam C : 09 FISH	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Diffice JA Enviro	CEIVED of Oil and o N 2 1 20 Departmental P
Vitasso Novembe Nov. 11 Vitassa	: Walter r 10, Wei Plugge 3 Math J L LEFT 11 2 - 1-3, 2 SET 14 2 - 1-3, 2 SET 14 1 - 7/8	Wright & Ll Phages ed in 10 <sup>9</sup> Sanbers & H EOLE OB A ROLE OB A X 146 B	rank B in 8" in 8" i	ienc. with 8" ien 10" d i Sam C : 09 FISH	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*	•	Office JA Envir	CEIVED of Oil and O N 2 1 20 Departmental P
Vitasso Novembe Nov. 11 Vitassa	: Walter = 10, No. - Plugg - Plugg - Neth J L LEFT 11 2 - 14-3, 2 - 14-3, 2 - 14-3, 2 - 14-3, 1 - 14-3, - 14-	Wright & Ll Phages of in 10° Danhess & A HOLE ON A HOLE	i Frank I in 8" in 10 mi in Reid i Acussi Ars Ars I Jabs HE BOPS IN AR	ienc. with 8" ien 10" d i Sam C : 09 FISH	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Office JA W Envir	CEIVED of Oil and o N 2 1 20 Departmental P
Vitasso Novembe Nov. 11 Vitassa	: Walter r 10, Wei Plusse s Math J L LEFT 11 2 - 1-3, 2 SET DA 1 - 7/8 FROM J. 1 - 64 <sup>0</sup> 1 - 6-5	Wright & Ll Phages od in 10" Anders & A EOLE ON A EOLE O	ARS ARS ARS ARS ARS ARS ARS ARS ARS ARS	ienc. with 8" ien 10" d i Sam C : 09 FISH	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Office JA Envir	CEIVED of Oil and C N 2 1 20 Departmental P
Vitasso Novembe Nov. 11 Vitassa	: Walter = 10, We = 10,	Wright & Ll Phages ad in 10" Janham R. A HOLE OR A HOLE OR TEIP SPE A" MANDE A COMB.	ARS ARS ARS ARS ARS ARS ARS ARS ARS ARS	ienc. with 8" ien 10" d i Sam C : 09 FISH	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Diffice JA W Envir	CEIVED of Oil and C N 2 1 20 Departmental P
Vitasso Novembe Nov. 11 Vitassa	: Walter : 10, Wei : 10, Wei : Plusse : Math J 2 = 1,=3, 2 = 2,=3, 2 = 2,=3, 2 = 2,=3, 2 = 2,=3, 1 = 2,5, 1 = 1,0 1 = 6,0 1 = 6,5, 1 = 6,5,5, 1 = 6,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5	Wright & Ll Phages od in 10" Annham R. A HOLE ON A	ARS BARANS ACCOUNT STRES ARS B JARS B JARS	ienc. with 8" ien 10" d i Sam C : 09 FISH	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Diffice JA W Enviro	CEIVED of Oil and O Departmental P
Vitasso Novembe Nov. 11 Vitassa	: Walter = 10, We = 10, We = Plugge : Nath J L LEFT JJ 2 = 1-3, 2 = 2-3, 2 = 2-3, 1 = 2-3, 1 = 7/8' FROM J. 1 = 6-5, 1 = 6-5, 1 = 6-5, 1 = 6-5, 1 = MILL FROM CON	Wright & Ll Phages ad in 10" Annham R. A HOLE ON A	AR SOCKET	ienc. with 8" ien 10" d i Sam C : 09 FISH	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Pl Office JA Envir	CEIVED of Oil and C N 2 1 20 Departmental P
Vitasso Rovenbe Nov. 11 Vitassa	: Walter r 10, We Plugg s Nath J L LEPT 11 2 = 1-3, 2 SET 12 1 = 1-3, 1 = 14 1 = 7/6' FROM 4. 1 = 6-5, 1 = 6-5, 1 = MILL FROM GON 1 = SUB	Wright & Ll Phages ad in 10" Annham R. A HOLE ON A	i Frank I in 8" in 8" in 8" in 8" i 2010 wi i 2009377 STRIS	kend. with 8" ish 10° d Seen C SOCKET SOCKET	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Pl Office JA Envir	CEIVED of Oil and C N 2 1 20 Departmental P
Vitasso Rovenbe Nov. 11 Vitassa	: Walter : 10, We : Plugg : Nath J L LEFT 11 2 - 1-3, 2 SET M 1 - 7/8 FROM d. 1 - 6-5, 1 - 6-5, 1 - MILL FROM GOU 1 - SUB 1 - SET	Wright & LI Phages ad in 10" Annham R. A HOLE ON A	i Frank I in 30 and 1 in 8° in 80 and 1 in 8° in 1 in 8° in 1 in 8° in 1 in 8° in 1 in 1 in 1 in 1 in 1 in 1 in 1 in 1	kend. with 8" ish 10° d Seen C SOCKET SOCKET	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Pl Office JA W Envirt	CEIVED of Oil and o Departmental P
Vitasso Novembe Nov. 11 Vitassa	: Walter : Walter : 10, Wei : Pluggu : Neth 1 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 1 - 1-3, 1 - 50B 1 - 50B 1 - 3-1,	Wright & Ll Phages in 10° Combers B., A EOLE OB A	i Frank I in 8" in 10 mi in 8" in 10 mi in 80 mi in 8 mi in 10 mi	kend. with 8" ish 10" d Sam C C 09 FISH SOCKET SOCKET	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Pl Office JA Enviro	CEIVED of Oil and C N 2 1 20 Departmental P
Vitasso Novembe Nov. 11 Vitassa	: Walter : Walter : 10, Wei : Pluggu : Neth 1 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 1 - 1-3, 1 - 50B 1 - 50B 1 - 3-1,	Wright & LI Phages ad in 10" Annham R. A HOLE ON A	i Frank I in 8" in 10 mi in 8" in 10 mi in 80 mi in 8 mi in 10 mi	kend. with 8" ish 10" d Sam C C 09 FISH SOCKET SOCKET	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Pl Office JA W Envir	CEIVED of Oil and C V 2 1 20 V Departmental P
Vitasso Novembe Nov. 11 Vitass	: Walter : Walter : 10, Wei : Pluggu : Neth 1 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 1 - 1-3, 1 - 50B 1 - 50B 1 - 3-1,	Wright & Ll Phages in 10° Combers B., A EOLE OB A	i Frank I in 8" in 10 mi in 8" in 10 mi in 80 mi in 8 mi in 10 mi	kend. with 8" ish 10" d Sam C C 09 FISH SOCKET SOCKET	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Pl Office JA W Envirt	CEIVED of Oil and C Departmental P
Vitasso Novembe Nov. 11 Vitass	: Walter : Walter : 10, Wei : Pluggu : Neth 1 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 1 - 1-3, 1 - 50B 1 - 50B 1 - 3-1,	Wright & Ll Phages in 10° Combers B., A EOLE OB A	i Frank I in 8" in 10 mi in 8" in 10 mi in 80 mi in 8 mi in 10 mi	kend. with 8" ish 10" d Sam C C 09 FISH SOCKET SOCKET	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Pl Office JA Enviro	CEIVED of Oil and O V 2 1 20 V Departmental P
Vitasso Novembe Nov. 11 Vitass	: Walter : Walter : 10, Wei : Pluggu : Neth 1 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 1 - 5, 1	Wright & Ll Phages in 10° Combers B., A EOLE OB A	i Frank I in 8" in 10 mi in 8" in 10 mi in 80 mi in 8 mi in 10 mi	kend. with 8" ish 10" d Secure Socker 	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Pl Office JA Envir	CEIVED of Oil and C Departmental P
Vitasso Novembe Nov. 11 Vitass	: Walter : Walter : 10, Wei : Pluggu : Neth 1 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 1 - 5, 1	Wright & Ll Phages in 10° Combers B., A EOLE OB A	i Frank I in 8" in 10 mi in 8" in 10 mi in 80 mi in 8 mi in 10 mi	kend. with 8" ish 10" d Secure Socker 	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Pl Office JA Envirt	CEIVED of Oil and C Departme Somental P
Vitasso Rovenbe Nov. 11 Vitassa	: Walter : Walter : 10, Wei : Pluggu : Neth 1 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 1 - 5, 1	Wright & Ll Phages in 10° Combers B., A EOLE OB A	i Frank I in 8" in 10 mi in 8" in 10 mi in 80 mi in 8 mi in 10 mi	kend. with 8" ish 10" d Secure Socker 	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Pl Office JA Envir	CEIVED of Oil and O Departmental P
Vitasso Rovenbe Nov. 11 Vitassa	: Walter : Walter : 10, Wei : Pluggu : Neth 1 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 2 - 1-3, 1 - 5, 1	Wright & Ll Phages in 10° Combers B., A EOLE OB A	i Frank I in 8" in 10 mi in 8" in 10 mi in 80 mi in 8 mi in 10 mi	kend. with 8" ish 10" d Secure Socker 	dry h ry ho	sie ; le pl En.	lag et l Slopak	<u> </u>	Dank regy	ara I Rieg	1911d 28. J	at 1 ohn 1	SLO*		Pl Office JA Envir	CEIVED of Oil and C N 2 1 20 Departmental P

31-1-12 4705100264P The Mheeling Hat GAROMPANKS House Final Report of Material charged to and used in Drilling and Equipping of sense Well No. 1852 in must no Well No. Valles Gameron District County 191 5 Service of invoWe have this day finished work on Well Note 201 5 51 on the mori tost acre farm of G. J. Mathews situate in Liberty District, Township, mettarshaine "i missade to ecounty, State of \_//. for mote an amore an as shown by sketch on other side, and have left in and at said well the following material, which Reservation around Emildings. has been charged to said well on District Transfers. SPREIAL CONSTRUCTORS :-550 ft 678 casing 75-76 unte lune Rop 3-678 Wood Dry Hole Phugs 1-526 374 x 3 2-7/ more lime Robe Sochets 1-63" Trip spear 1-6% Mandrill 1-10" 1-67 Gomb socket 4 1×46' 5tems. t orilling Jars 1- Mill Office of Oil and Gas 1-34× 441 Stem JAN 21 2021 List above ONLY material left in and at the well which is being used in the operation of WV Department of Environmental Protection said well, including Casing, Tubing, Wire Lines, Rods, Pumping Outfits, Packers, Tanks, Boilers, Engines, Casing heads, and all well connections, but not including Drips or Branch Lines. Well produces Mathing from all\_ Depth of Well 36.8. Feet. \_\_ Sand, Signed: Signed: Foreman. Dist. Supt. Checked by Field Clerk. Checked by Inventory Clerk. 19: Dist. Sop. . Phasingh. Fo. them Haw as soon to Not a class that superinge of bestweithe when one of .m. and must he completed et neuternition d 1917 elide on forgeorie and server. Bhen evention on publican indirection into the server double ebie sere at the two "blief is dependent laborer treast de filie" and the erse side A. 16 8 05/07/2021 of this sheet and forwarded to Pittsburgh Collea. Receip two capy of this order for your illes. - State

WEL	L RECORD	
92 a :		Local and
Vheelin	g Not Gos	Co.
·····	/	
10	5 0.	
ELL NO. 182		
IN Gay	J. Mathe	NS
~	iberty	
	rshall	
UNTY MA		
ATE	W. Ka	
VSED BY Whie	eling Na	tGas6
	ameroz	
VISION	971161.01	
тк	•\$13	
		g
TUGEN W D Ro	K FOLIO	

Office of Oil and Gas Office of Oil and Gas JAN 2 1 2021 WW Department Office Environmental Protection

\*\*

-

r

17051002648 Form 109 1m-12-,13 75476 mallaline Jo Company 248 Fourth Ave., Pittsburgh, Penns Diutsion ( 60 Farm Acres Record of Well No. an Field Piberts askell County 90 1a State May 6 may 191 5 Completed **Rig Commenced** 191.5. 191 0 Completed **Drilling** Commenced 1914 Cost per foot Contractor Address 201 94 2 Drillers' Names De C. Stockedan, Bra t. Ro alier, 6 BOILER ENGINE RIG No. Name of Maker Height Name of Builder No. Name of Maker H. P. H. P. New 821 N.n. Yost. 100 CONDUCTOR AND CASING USED IN DRILLING 10 Inch 844 Inch 8% inch 6% Inch 5% Inch 6 3-16 Inch Conductor 13 Inch 1575 2295 252 CONDUCTOR AND CASING LEFT IN WELL Boll inch Gil Inch 5% Inch G d 16 inch 4 insh Conductor 10 Inch 6 inch 3 inch 53 OIL WELL GAS WELL Size of Torpedo Production When Shot Tubing Rods Tanks Size of Packer Depth Set Packed with Ist Minute's Pressure **Rock Pressure** FORMATION Bettom Thickness Top Mayneshing Con 735 750 4 sas and water 1800 Little gas the 1000 2 Cm 1007 2/10 itshur 100 2192 1108 15 \$50 Sept 14-1915 Well Pluged in 678 1465 5 1853 6.23 3 5 Hale in Biginsunsand at 2315 ft 1 5 with 3 698 Dry Hole Plugs. mark 2011/103 1710 37 Nov. 10 - Net Pluged with 1-8" Hole PECEIVED Office of Oil and Gas 176 20 900 15 in Big Dunkard sand at 1640 ft. 192.57950 2.5 Nor 11-1915. Pluged in 10" Hole JAN 2 1 2021 2010 2050 40 with sec Dry Hole at 1073 ft, · Hard 80 with 55, North Dumharn, IR. L. Reid. WN Department of 65 Samuel Graig, Wm. Slamaker Environmental Protection 2060 21 40 Hund NA 2145 2210 25 Harvey Risor John Wassum e Lyp D de 2262 2287 2287 43 Materia, west in word act holin 2530 2 2538 2550 12 From Broden + Fletcher 2986 2950 94 2- 43/8× 16 / t stems. 3/12 3/ 80 28 2- Set Drilling Jars 3155 3166 1- " hong Stroke Jors 11 3180 3208 28 1- 18" Wire Ime Robe socket 3288 3252 20 From J.J. Davin 6 1-63" Trip spear 3300 3906 1 6% Mondril 368 loter 678 Comp Socket. Mill From Gampony Tools. 1 8ub 31/4 × 3" 1- set hong stroke Jars. 1- 34 x 44 ft stem 1- 18" wire line Rope Sochet, My Cuullugs Superintendent of the The above

the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and 5/07/2021 at what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of pay.

							<b>A</b> 8	94 A 127	A	
5D5 20		įb	1. 2. A. A. A. A.		,	<b>.</b>	4	(0)	100	264
Division				Company				1820		
Record of Well No.	18 5	2	on 🗷	trey E	det and	Farm		1	Acres	
	Field			District Township		County		S	tate	
Rig Commenced		19	э,	C	Completed			19		
Drilling Commenced		19	Э,		Completed			19		
Contractor	•				Address					
Driller' Name			· · · ·							
<b>arayan manang katalan dan dari kata d</b> alam tari dari kata dari kata dari kata dari kata dari kata dari kata dari k			CASING A	ND TUBIN	IG RECORD	it in a sub-region of the second				
Conductor	18″	10″	81/4"	7"	6%," 5 <sub>1</sub> a	" 4"	8"			
Used in Drig.	· · · ·									
Left in Well										
PACKER RECORD		• • • • • • •			SHOOTING					
Size Depth Set	Type Packer	Date	Type Expl	osive .	Amount Top	DEPTH Bottom		ume Cu. Ft.	Volume After Cu. Ft.	
	•				,	•		1		
· · • • •			VOLUN	AE AND PI	RESSURE	PRESSURE IN	MIN.			
Date Reading In Inches	Liquid .	Size Orifice	Volume		Sand 1	5 10	80 60	24 Hr. R. P.	Max. R. P. Hou	1
		•								
TOTAL INITIAL OPEN I	FLOW				Cl	BIC FEET	PER 24 HO	URS		
FORMATION		Тор	Воттом	THICKNESS	3		REMARKS			
Mars sellow	coll	0	14	1-	Mar Mart	Beg	Solt	1160	1170 1	٤
Sand White	fime	14	17	24	Linie At	il Num	harry	1170	1200 30	, ,
Alate abook	sofi	-1	121	. 1 2	fet fund	en	Lack	1200	1220 20	•
Red Mych Med	s Il	127	15	Ċ		Whits	har	1221	1240 2	
Sind White.	from	150	185	م ب ی	A ate	North	sp	1240	1300 4	FILE FILE FILE FILE FILE FILE FILE FILE
Red Block Fra	- of de	1.5-	213	ر * ک	Sur 1	der the	raro	1800	1825 0	HICE 01 2021
Alate Moth	soft.	-615	ا ترنی ا		A - 1 - 4	a that	ange.	1		JAN 5-
fed John ful	Sight	310	4 (~~~)	1.30-	Scolar 1	A are	aver	134	1355 1 <u>9</u> 1377 1	WV Department of WV Department of Invironmental Protect
Stato Bros	~ have	1.0	ر موجو ۲۰ - ۲۰ ۲۰	<b>*</b> . 		1 100	f une -	1370	1417 3	WV Department of Anvironmental Protect
Slate While		510	- م - م - ر	י י רא י	1		state	1405	1457 5	-
Line Viet	f '	511	63-		j ie	Wert	hard	Ĩ.		
blacko NUM	-ope	1030	11.	in	Apt y -1	1 "ka		1400	- 1980 1C	3
Gana Wall	p rung	715	: 75	. 2	1. 7.	: A	soft	1480	15-16 30	:
IN any longe a some	A ATH	150	154	÷	Line	w. A.	lard	15-10		٢
	e 100	1.50-4	7 - 4	^ ئ	State	Black	soft	15-85		-
Viate . Link	<b>.</b>	184	y1."	31	State	Aira		1	- 1705 -3	
Sand Whit	A .	115	11	-	2	win.	kary "		1168 3	
State Nuth	* 15 2	Y Y _	42		State	"	1 Sta	1820	~ 18403 1800 4	
Alute 212.12	•	7~	10.		Age	4	Soft		- - - - - - - - - - - - - - - - - - -	
Line White	· · ·	y 3:	المرجب ا	ų .	Acatoria		Ax/x		0 2010 4	
June hard		1001	1053	·	Acto	d ente	Soft.		0 2260 /	
State wint		1055	110	+: -	Aunt	6			aryst	:
deater "		1100	1127	بکنه د	Alferrard	are he	and Soft	; [	0 2224 /	,
Fyme shell "	hard	1120	11 20 -	من ا مر	dictory	finge the	to Blac			
Stato de unh	Angle	1125	11.43	1.	Aires	Ner 1	1. 1		25084	
	sill. And	11.1	<u></u>	<u>1.4</u> 2.	- tya and		yh /ra	¢ 452	8,2550 1	-
Examined above information a	ind measurements				Examined and			Field S	superintendent	

NOTE-The above blank must be filled 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 formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarky" must be given by their proper name, with steel line measurements, and under the head of "Remarky" must be given by their proper name, with steel line measurements, and under the head of "Remarky" must be given by their proper name, the quality of the sand, and thickness of pay.

7088 109 14 3-41 PADS 24				Compar	ny		••••••••••••••••••••••••••••••••••••••		<ul> <li>Department of onmental Protect</li> </ul>	
Division	o. 185	2	. L		1 Attain	L & 1	Farm	ŧ.	Acres	
Record of Well N		~.	on Ma						State	
Dia Generalia	Field		10	District Townshi			County	19	Jught	
Rig Commenced Drilling Commence	and		19, 19,		Completed Completed			19		
Contractor	.eu		10,		Address	•		10		
Driller' Name					11001000					
		·	, i	i se je	ى			meute cuer es teruna tel	26 71- <u>1 1 1 1 1 1 1 1</u>	<b>-</b>
			CASING A	AND TUB	ING RECOR	D				_
Conducto	r 18″	10~	8¼~	7"	65%"	5 76 "	4"	8"	!	
sed in Drig.							-			_
eft in Well	i		• • • • • • • • • • • • • • • • • • • •		 بەرىمە ھەسەب ،					-
PACKER RECC	RD .	I•			SHOO	TING REC				
ize Depth Se	Type Packer	Date	Type Expl	osive	Amount	DE Top	PTH Bottom	Volume Before Cu. 1	Volume t. After Cu. Fi	L.
•		 						y.		
			VOLUN	AE AND	PRESSURE			, · · · ·		
Date Reading		Size Orifice	Volume		Sand	PRE 1 5	SSURE IN 1	MIN. 24 1 80 60 R.	ir. P. Max. R. P. Ho	urs
	•	:								
		•								
TOTAL INITIAL OPI	N FLOW		•	•		CUBIC	FEET P	ER 24 HOURS		
FORMATI	- N	Тор	Воттом	THICKNE	86		R	EMARKS		·
				i						
to & Lime the	to rent	h   255	2704	5-6						
later size th	. A.M.	e 245	*7	3 +						
1 .9 1	he and	19.	n jua	100						
late ward	\$ y	1 0000	3112	3 \$ )						
have ayour	h hai	0 314	( دری	10						
at of shall	1.2.00	2146	BI / P	1 1						
in the second se	cr	. الانتخاب ال	- 47	321						-
also Kain	k with	5237	3.2 4	11						RECEIVED ice of Oil and Gas
									Off	1 2021
		,		i						JAN 2 1 2021
				÷						W Department Wironmental Prot
									Er	W Depetal Plot
				•					E	
		і	I							
			1							
		:	1							
			-							
									•	
in			<b></b>	i.	• • • • • •	·				<b>-</b>
			to be correct by		· · · · ·	ed and Appr				

WW-4A Revised 6-07 1) Date: 1/6/2021 2) Operator's Well Number Victory B 1852

3) API Well No.: 47 -

= 002640000

051

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4)		ner(s) to be served: 5) (a) Big Bun Christian Church (Disciples of Christ) and Cemerary	Coal Operator Name	Martay Energy Corporation, American Consolidated Natural Resources, Inc.
	(a) Name Address	2229 Reid Ridge Road	Address	46226 National Road
		Cameron, WV 26033		St. Clairsville, OH 43950
	(b) Name		(b) Coal Owi	ner(s) with Declaration
	Address		Name	Marray Energy Corporation, American Consolidated Natural Resources, Inc.
			Address	46226 National Road
				St. Clairsville, OH 43950
	(c) Name		Name	
	Address		Address	
6)	Inspector	James Nicholson	(c) Coal Less	ee with Declaration
	Address	P.O. Box 44	Name	Not inased.
		Moundsville, WV 26041	Address	
	Telephone	304-552-3874		

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.

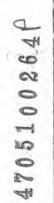
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all.

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.

INSTRUCT OF	Well Operator By:	Columbia Gas Transmission, LLC Brad Nelson Back The
Commonwealth of Phanny Instala - Notary Seal Elaine Rybrid: Hotary Public	Its:	Storage Engineer
Altecheny County	Address	455 Racetrack Road
My commission expines May 11, 2022 Commission number 1332803	2022	Washington, PA 15301
Commission/Administration	Telephone	724-250-0610
Subscribed and sworn before me thi	s 6 de	vof January 2021 Office of Oil and Case
	rthi Ele	ine Antoski Notary Public

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 5/07/2021 information, please contact DEP's Chief Privacy Officer at depprivacyofficer wy gov.



780	U.S. Postal Service <sup>™</sup> CERTIFIED MAIL <sup>®</sup> REC Domestic Mail Only	EIPT
	For delivery information, visit our website	at www.usps.com®.
157 LOOD 090E	Certified Mail Fee \$3.55 \$ \$7.95 Extra Services & Fees (check box, add fee as appropriate) Return Receipt (hardcopy) \$ \$0.00 Return Receipt (electronic) \$ \$0.00 Certified Mail Restricted Delivery \$ \$0.00 Adult Signature Required \$ \$0.00 Adult Signature Restricted Delivery \$ Postage \$2.00 \$ Total Postage and \$ 0.00 \$	Postmark Postmark Here 01/08/2021
9105	Sent To Big Run Christian Church an Street and Apt. No., or PO Box No. ZZZ9 Reid Ridge Rocal City, State, ZIP+4® Cameran, WY Z6033 PS Form 3800, April 2015 PSN 7530-02-000-9047	M (cmetery See Reverse for Instructions

4705100264P



P.O. Box 1273 Charleston, WV 25325

January 8, 2021

ŀ



Big Run Christian Church (Disciples of Christ) and Cemetery 2229 Reid Ridge Road Cameron, WV 26033

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 Victory B 1852 (API 47– 051–00264).

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.

If you have questions, feel free to call.

Regards,

But net

Brad Nelson Storage Engineer TC Energy (Columbia Gas Transmission, LLC) brad\_nelson@tcenergy.com off: 724-223-2753 cell: 724-250-0610

> RECEIVED Office of Oil and Gas

JAN 2 1 2021

WV Department of Environmental Protection

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY			
<ul> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> <li>Article Addressed to:</li> <li>Article Addressed to:</li> <li>Big Run Christian Church and Condexy 2229 Reid Riote Rood</li> <li>Comeron, WV 26033</li> </ul>	A. Signature X B. Received by (Printed Name) Debbre Elson D. Is delivery address different from If YES, enter delivery address	C. Date of Delivery I-12-2/ m item 1?  Ves		
9590 9402 4965 9063 0555 63 - Hole Number (Transfer from service label) 7018 3090 0001 7217 978	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail Restricted Delivery Collect on Delivery Collect on Delivery Restricted Delivery Mail Restricted Delivery D)	<ul> <li>Priority Mail Express®</li> <li>Registered Mail<sup>TM</sup></li> <li>Registered Mail Restricted Delivery</li> <li>Return Receipt for Merchandise</li> <li>Signature Confirmation<sup>TM</sup></li> <li>Signature Confirmation Restricted Delivery</li> </ul>		
PS Form 3811, July 2015 PSN 7530-02-000-9053	<u>)</u>	Domestic Return Re		

E77B	U.S. Postal Service <sup>™</sup> CERTIFIED MAIL <sup>®</sup> RECEIPT Domestic Mail Only
	For delivery information, visit our website at www.usps.com®. Sount Clairsville, OH 43950
217	Certified Mail Fee #7 FF
5	\$ \$7.25
1000 0	Extra Services & Fees (check box, add fee as appropriate)       1.7         Return Receipt (hardcopy)       \$         Return Receipt (electronic)       \$         Certified Mail Restricted Delivery       \$         Adult Signature Required       \$         Adult Signature Restricted Delivery       \$
304	Postage \$2.60 \$ Total Postage and \$9.00 Total Postage and \$9.00
9T02	Sent To Sent To Murray Energy Corporation (American Carl. Antrod Res.) Street and Apt. No., or PO Box No. 46 ZZ6 National Read City, State, ZIP+4® State, ZIP+4 State, ZIP+4 Sta

4705100264 Columbia Pipeline Group 1700 MacCorkle Ave. SE P.O. Box 1273

Charleston, WV 25325

a-144

January 8, 2021

/

Murray Energy Corporation American Consolidated Natural Resources, Inc. Attn: Mason Smith 46226 National Road St. Clairsville, OH 43950

Columbia Gas Transmission, an underground natural gas storage operator, is planning to permanently plug and abandon a storage well (API # 47-051-00264-00-00) in Marshall County, WV. Records indicate that Murray Energy (American Consolidated Natural Resources, Inc.) owns the coal on subject property.

To comply with WV DEP Code, Columbia is required to provide the coal owner the following documents as notification and for processing.

- WV DEP form WW-4A (Notice of Application to Plug and Abandon a Well)
- WV DEP form WW-4B (Application for a Permit to Plug and Abandon)
- Copy of survey plat
- Proposed method of plugging
- Wellbore diagram (prior to plugging)
- Wellbore diagram (proposed plugging)

If you have questions, feel free to call.

Regards,

Bruch nel

Brad Nelson Storage Engineer TC Energy (Columbia Gas Transmission, LLC) brad\_nelson@tcenergy.com off: 724-223-2753 cell: 724-250-0610

RECEIVED Office of Oil and Gas

JAN 2 1 2021

WV Department of Environmental Protection

05/07/2021

4705100284 P SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON	DELIVERY
<ul> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> <li>Article Addressed to:         <ul> <li>Murray Energy Corporation Amouran Conschedated Natural Resources</li> <li>Artin: Massen Smith 46726 Natural Resol</li> <li>Claivs ville, OH 43950</li> </ul> </li> </ul>	A. Signature X Ack Hen B. Received by (Printed Name) A. C. Hess D. Is delivery address different from If YES, enter delivery address to	C. Date of Delivery
2 Article Number (Transfer from service label) 201.8 3090 000 0000 0000	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mall® Certified Mall® Certified Mall Restricted Delivery Collect on Delivery Restricted Delivery Collect on Delivery Restricted Delivery Insured Mall Mall Restricted Delivery 773	<ul> <li>Priority Mail Express®</li> <li>Registered Mail™</li> <li>Registered Mail Restricted Delivery</li> <li>Return Receipt for Merchandisa</li> <li>Signature Confirmation™</li> <li>Signature Confirmation Restricted Delivery</li> </ul>
PS Form 3811, July 2015 PSN 7530-02-000-9053	[	Domestic Return Receipt

WW-9 (5/16)	API Number 47 - 0470 50016000 2640 Operator's Well No
CTATE OF W	
	VEST VIRGINIA CONMENTAL PROTECTION
가는 것을 가지 않았다. 사람들은 것은 것은 것은 것을 못했는 것은 것은 것은 것은 것을 가지 않는 것이 같다. 것이 가지 않는 것은 것은 것은 것은 것을 가지 않는 것을 하는 것을 수 있다. 것은 것을 하는 것을 하는 것을 수 있다. 것은 것을 하는 것을 수 있는 것을 하는 것을 하는 것을 하는 것을 수 있다. 것은 것을 하는 것을 수 있는 것을 하는 것을 수 있는 것을 하는 것을 수 있다. 것은 것을 하는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 것을 수 있는 것을 수 있다. 것을 것을 것을 것을 수 있는 것을 수 있는 것을 것을 수 있다. 것을 것을 것을 것을 것을 수 있는 것을 것을 수 있는 것을 수 있다. 것을 것을 것을 것을 것을 것을 것을 것을 수 있는 것을 것을 것을 것을 것을 수 있다. 것을	OIL AND GAS SAL & RECLAMATION PLAN
Operator Name Columbia Gas Transmission, LLC	OP Code <u>307032</u>
Watershed (HUC 10) Ben Run - A Tributary of Fish Creek	
Do you anticipate using more than 5,000 bbls of water to complet Will a pit be used? Yes No	
If so, please describe anticipated pit waste: Fresh wate	er, cement returns, bentonite gel, NaCl salt
같은 것은 것 것 같아요. 그는 것은 것 같아요. 그는 것 같아요. 가지 않는 것 같아요. 그는 것은 것 같아요. 그는 것 같아요. 그는 것 같아요. 가지 않는 것 같아요. 가지 않 것 같아요. 가지 않는 것 않는 것 같아요. 가지 않는 것 같아요. 가지 않는 것 같아요. 가지 않는 것 않는	No If so, what ml? 20
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a	a completed form WW-9-GPP)
Underground Injection (UIC Permit N	
Reuse (at API Number Off Site Disposal (Supply form WW-	)
Other (Explain Appalachian Water Serv	vices, Station W1 Ronco WTP, Masontown, PA - Permit 2608201
Will closed loop systembe used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horizontal)	1? Air freshwater oil based etc. N/A
	/ · · · · · · · · · · · · · · · · · · ·
Drill cuttings disposal method? Leave in pit, landfill, removed of	
-If left in pit and plan to solidify what medium will be us	sed? (cement, lime, sawdust) <del>Subscript</del>
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided w where it was properly disposed.	그는 것은 것 같은 것 가장 방법을 얻는 것 같은 것 것 같아요. 것 같은 것 같은 것 같은 것 같아요. 것 같아요. 그는 것 같은 것 같아요. 것 같은 것 같아요. 것 같아요. 것 같은 것 같이 것
on April 1, 2016, by the Office of Oil and Gas of the West Virgir provisions of the permit are enforceable by law. Violations of any or regulation can lead to enforcement action. I certify under penalty of law that I have personally e application form and all attachments thereto and that, based on my	enditions of the GENERAL WATER POLLUTION PERMIT issued nia Department of Environmental Protection. I understand that the y term or condition of the general permit and/or other applicable law examined and am familiar with the information submitted on this y inquiry of those individuals immediately responsible for obtaining and complete. I am aware that there are significant penalties for imprisonment.
Company Official Signature Bud Note	Commonwealth of Pennsylvanla
Company Official (Typed Name) Brad Nelson	County of Allegheny
Company Official Title Storage Engineer	
Subscribed and sworn before me this 6 day of	January , 2021
Planin NU. El	aine Aybski Notary Fabrican Pennsylvania - Notary Se
My commission expires 5/11/2022	Elaine Rybski, Notary Public Allegheny Coonty/2021 My commission expires May 11, 2022

------

My commission expires May 11, 202 Commission number 1332803

# **4705100264** Operator's Well No.\_\_\_\_\_

Proposed Revegetation Treat	tment: Acres Disturbed <1.0	Preveg etation pH 6	.5	
Lime 2	Tons/acre or to correct to	pH <u>7</u>		
Fertilizer type 10-	10-10			
Fertilizer amount_6	00	_lbs/acre		
Mulch_2	Тс	ons/acre		
	1	Seed Mixtures		
Te	emporary	Permanent	t	
Seed Type	lbs/acre	Seed Type	lbs/acre	
Annual Rye	40	Orchard Grass and/or Ta	all Fescue	29
		Birdsfoot trefoil (empire	e)	9
		Annual Rye		12
en wanann araac.				
Attach: Maps(s) of road, location, pi	t and proposed area for land ap pit will be land applied, provid	cre) until indigenous plants re-e	this info have be	een
Attach: Maps(s) of road, location, pi provided). If water from the	t and proposed area for land ap pit will be land applied, provid the land application area.	plication (unless engineered plans including	this info have be D) of the pit, and	een I dime
Attach: Maps(s) of road, location, pi provided). If water from the L, W), and area in acres, of Photocopied section of invol	t and proposed area for land ap pit will be land applied, provid the land application area. lved 7.5' topographic sheet.	plication (unless engineered plans including	this info have be D) of the pit, and F Office JA	en I dima RECE of O
Attach: Maps(s) of road, location, pi provided). If water from the L, W), and area in acres, of Photocopied section of invol Plan Approved by: <b>Barry S</b>	t and proposed area for land ap pit will be land applied, provid the land application area. lved 7.5' topographic sheet.	plication (unless engineered plans including	this info have be D) of the pit, and F Office JA	en I dima RECE of O
ttach: laps(s) of road, location, pi rovided). If water from the , W), and area in acres, of hotocopied section of invol an Approved by: <b>Barry S</b>	t and proposed area for land ap pit will be land applied, provid the land application area. lved 7.5' topographic sheet.	plication (unless engineered plans including	this info have be D) of the pit, and F Office	en I dima RECE of O
Attach: Maps(s) of road, location, pi rovided). If water from the L, W), and area in acres, of hotocopied section of invol lan Approved by: <b>Barry S</b>	t and proposed area for land ap pit will be land applied, provid the land application area. lved 7.5' topographic sheet.	plication (unless engineered plans including	this info have be D) of the pit, and F Office JA	en I dima RECE of O
Attach: Maps(s) of road, location, pi rovided). If water from the L, W), and area in acres, of Photocopied section of invol Plan Approved by: <b>Barry S</b>	t and proposed area for land ap pit will be land applied, provid the land application area. lved 7.5' topographic sheet.	plication (unless engineered plans including	this info have be D) of the pit, and F Office JA	en I dima RECE of O
Attach: Maps(s) of road, location, pi provided). If water from the L, W), and area in acres, of Photocopied section of invol Plan Approved by: <b>Barry S</b>	t and proposed area for land ap pit will be land applied, provid the land application area. lved 7.5' topographic sheet.	plication (unless engineered plans including	this info have be D) of the pit, and F Office JA	en I dima RECE of O
Attach: Maps(s) of road, location, pi provided). If water from the L, W), and area in acres, of Photocopied section of invol Plan Approved by: <b>Barry S</b>	t and proposed area for land ap pit will be land applied, provid the land application area. lved 7.5' topographic sheet.	plication (unless engineered plans including	this info have be D) of the pit, and F Office JA	en I dima RECE of O
Attach: Maps(s) of road, location, pi provided). If water from the L, W), and area in acres, of	t and proposed area for land ap pit will be land applied, provid the land application area. lved 7.5' topographic sheet.	plication (unless engineered plans including	this info have be D) of the pit, and F Office JA	en I dima RECE of O
Attach: Maps(s) of road, location, pi provided). If water from the L, W), and area in acres, of Photocopied section of invol Plan Approved by: <b>Barry S</b>	t and proposed area for land ap pit will be land applied, provid the land application area. lved 7.5' topographic sheet.	plication (unless engineered plans including	this info have be D) of the pit, and F Office JA	en I dima RECE of O

Quad: Cameron, WV

#### 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): Ben Run - A Tributary of Fish Creek

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

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

The closest water body is Ben Run, approximately 0.25 miles to the SW. The nearest Wellhead Protection area is 8.04 mi. to the SE - (PWSID 3305202 Hundred JAN 2 1 2021 Littleton PSD).

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

N/A

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

WW-9- GPP Rev. 5/16

N/A

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

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

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

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

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

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

Signature: Bend Nde.

Date: 1/19/21

05/07/2021

RECEIVED Office of Oil and Gas

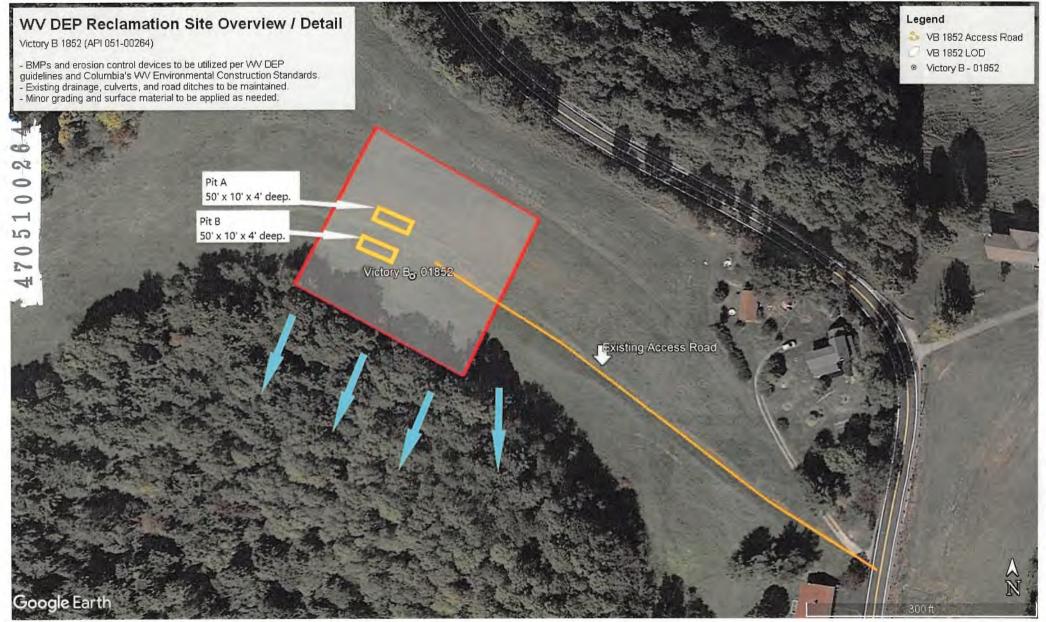
JAN 2 2021

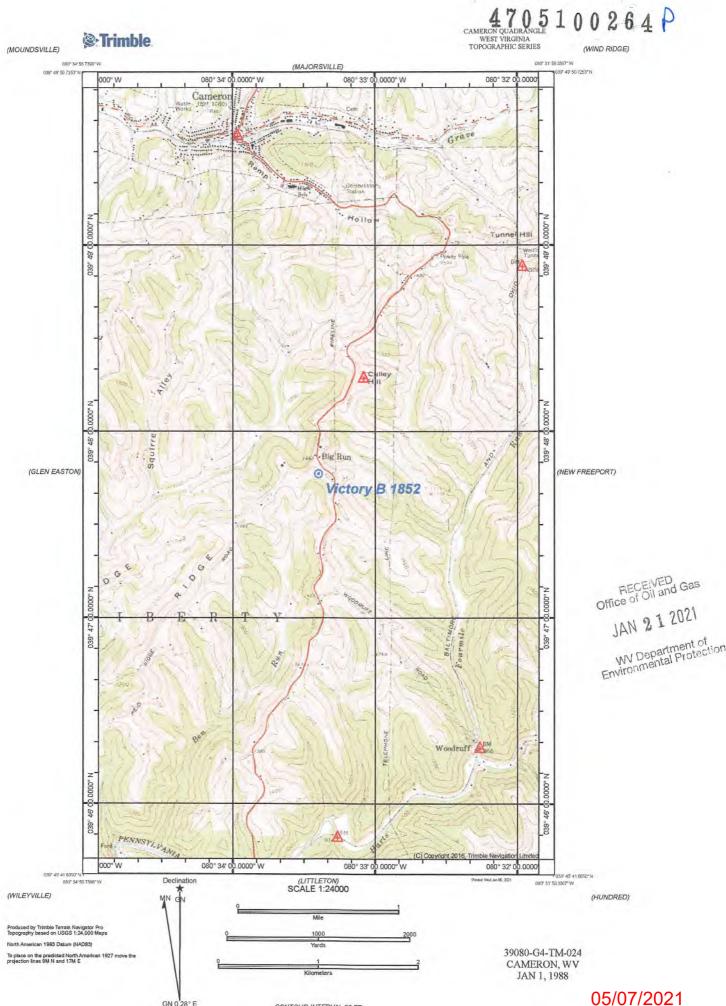
WV Department of Environmental Protection

#### RECEIVED Office of Oil and Gas

MAY 3 2021

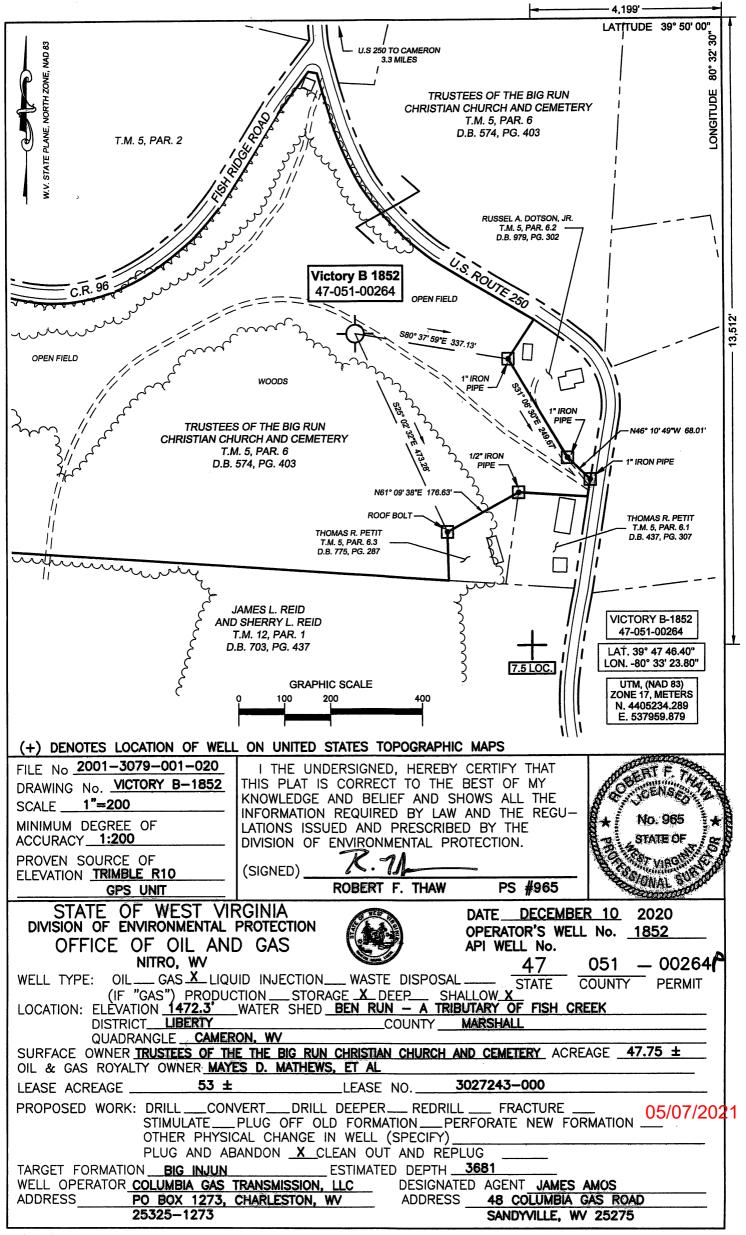
WV Department of Environmental Protection





GN 0.28° E MN 8.73° W

CONTOUR INTERVAL 20 FT



P:\2020\2001-3079-001-020 - TC ENERGY - VICTORY B 1852\50-SURVEY\DWG\VICTORY-B-1852-WELL PLAT.DWG

51-00264 p 4705100264

Pipeline Group

1700 MacCorkle Ave SE P.O. Box 1273 Charleston, WV 25325

> RECEIVED Office of Oli and Gas

JAN 2 1 2021

WV Department of Environmental Protection

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

January 19, 2021

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

Victory B 1852 (API 051-00264)

Please return permit to:

Columbia Gas Transmission, LLC 455 Racetrack Road Washington, PA 15301 Attn: Brad Nelson

If you have questions, feel free to call.

Regards,

Brad Met

Brad Nelson Storage Engineer TC Energy (Columbia Gas Transmission, LLC) brad\_nelson@tcenergy.com off: 724-223-2753 cell: 724-250-0610

