

west virginia department of environmental protection

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

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

Tuesday, February 27, 2018 WELL WORK PERMIT Vertical / Plugging

CABOT OIL & GAS CORPORATION 2000 PARK LANE, SUITE 300

PITTSBURGH, PA 15275

Re: Permit approval for 28 47-081-00212-00-00

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

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

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

James A. Martin Chief

Operator's Well Number: 28 Farm Name: BEAVER COAL CO.

U.S. WELL NUMBER: 47-081-00212-00-00

Vertical / Plugging

Date Issued: 2/27/2018

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date Janu	ary 9	,	2018
2) Operator	's		
Well No.	Beaver	Coal 2	8
3) API Well	No. 4	7-081	- 00212

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

		evation 1,974.17'	Watershed Mill Branch of Winding Gulf
6)		strict Slab Fork	County Raleigh Quadrangle Lester
	Well Operator	Cabot Oil & Gas Corporation	7) Designated Agent Phillip Hill - Cabot Oil & Gas Corporation
		2000 Park Lane, Suite 300	Address 29 Starbuck Lane
		Pittsburgh, PA 15275	Saulsville, WV 25876
8)	Name_Gary K		9)Plugging Contractor Name Francis Brothers
	Address 25	2 Circle Avenue	Address 622 North Church Street
	Ra	inelle, WV 25962	Ripley, WV 25271
	Work Order: See Attached Sheets		oner of plugging this well is as follows:
			oner of plugging this well is as follows:
			nner of plugging this well is as follows: RECEIVED Office of Oil and Gas
			RECEIVED

Beaver Coal #28 API # 47 - 081 - 00212 PLUGGING PROCEDURE

Current Configuration

TD @ 2003'

13-3/8" conductor @ 11' grouted at surface

10-3/4" casing @ 395' on shoe grouted at surface

8-5/8" casing @ 1026' on B.H. Packer

4 1/2" casing @ 985' on Parmaco Tension packer

2-3/8" tubing @ 2003' with cave catcher @ 1982'

Fresh water @ 25' & 830'

Coal @ 341' - 345'

Ravencliff @ 1020' - 1150' with gas show @ 1058' & 1130'

Maxton @ 1982 - 2003'

Maxton shot from 1986' to 2003'

PROCEDURE

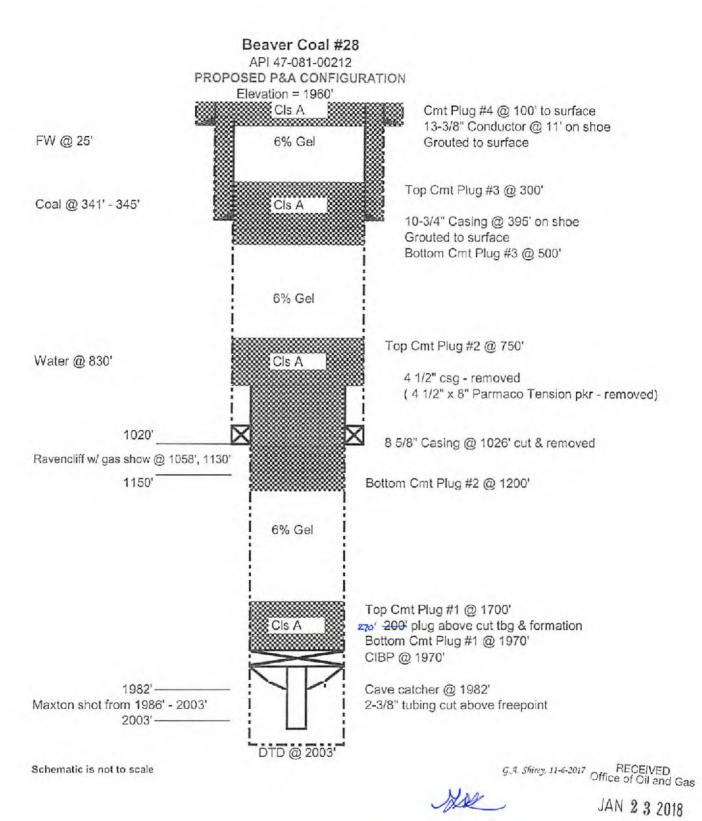
- 1. Contact Pineville Office a minimum of 48 hours prior to starting work.
- 2. Contact State Inspector a minimum of 24 hours prior to starting work.
- 3. Lay 2" line from wellhead to tank and stake down securely.
- 4. MIRU service rig and blow down well. Have vacuum truck available to catch any fluids circulated from well.
- 5. Unpack wellhead.
- 6. Pull 2-3/8" tubing.
- 7. If unable to pull tubing, run freepoint, cut above freepoint, and POOH.
- Latch onto 4 ½" casing, unset Parmaco tension packer, POOH.
- RIH and set CIBP in open hole @ 1970' or just above top of cut tubing.
- TIH with 23/8" work string to 1970' or to just above top of CIBP.
- 11. MIRU Cement Company and pump 25 bbls 6% Gel.
- Pump 61 sks (13 bbls) of Class A cement for cement plug #1 @ 1970' 1700'.
- 13. Displace w/ 7 bbls of 6% Gel.
- 14. Pull work string up to +/- 1500', safely above cement top. WOC minimum 8 hours.
- RIH with workstring, tag TOC to confirm.
- 16. TOOH with tubing.
- 17. Run freepoint on 8 5/8" casing.
- 18. Cut 8 5/8" casing above freepoint and POOH.
- 19. TIH with workstring to 1200'.
- Pump 25 bbls 6% gel followed by 157 sks (33 bbls) of Class A cement for cement plug #2 @ 1200' – 750'.
- 21. Displace w/ 3 bbls of 6% Gel
- 22. Pull work string up to +/- 600', safely above cement top, WOC minimum 8 hours.
- RIH with workstring, fag TOC to confirm.
- 24. PU workstring to 500'.
- 25. Pump 20 bbls 6% gel followed by 90 sks (19 bbls) of Class A cement for cement plug #3 @ 500' 300'.
- 26. PU workstring to 100'.
- 27. Pump 45 sks (9.5 bbls) of Class A cement for cement plug #4 @ 100' surface.
- 28. TOOH with work string and lay down.
- 29. RDMO Cementing Company.
- 30. Place monument as required by law on top of well bore.
- 31. Reclaim well site.

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JAN 2 3 2018

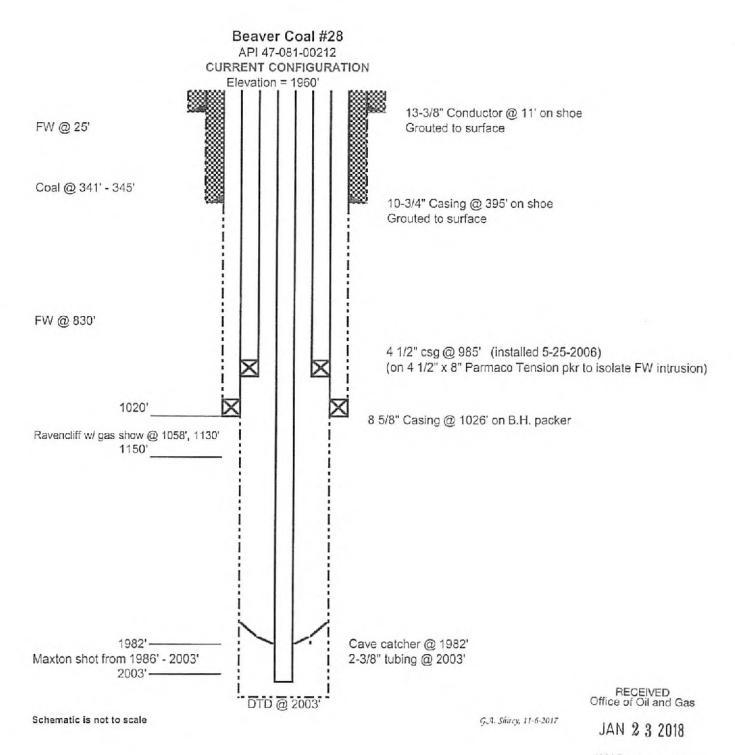
WV Department of Environmental Protection

03/02/2018



03/02/2018

WV Department of Environmental Protection



WV Department of Environmental Protection



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

M	ullens		OIL AND G	AS DIVISION			
Quadrangle M Permit No. R		-	WELL	RECORD		Oil or (Gas Well GAS
Company G	odfrey L. C	abot, Inc.					(1,10)
		V. Va.		Casing and Tubing	Used in Drilling	Left in Well	Packers
The second second		Corp. A				0.40	
	s)		Cros	Size			
		174	1960	16			Kind of Packer
			iga	13	and the second second second second	12	Bottom Hole
				10		395	Size of. 7"
					1026	1026	0120
		Address					Depth set
Mineral rights	are owned by	Beaver Coel	MA V. V				Trepen sec
- VV	March	21, 1957		A CENTS DECORAGE	1		Perf. top
					2013	2013	Perf. bottom
		1957					
			_2002	Lancre Used			
		oglycerin					Perf. bottom
		n					
		n		CASING CEM	ENTED	_SIZE	No. FtDat
Volume	2,271,000		Cu. Ft.				
		1bs					FEET 48 INCHE
			.bbls., 1st 24 hrs.				
							_FEETINCHE
							FEETINCHE
WELL FRACT							
	1	Hard or			Oil, Gas	Depth	
Formation	Color	Soft	Төр	Bottom	or Water	Lieptr	1 Kemarks
Top Soil Sand & Grave Lime Slate & She Sand Slate, blac Sand Slate & She Lime Coal Slate & She Lime Coal Slate & She Lime Coal Slate & She Lime Slate & She Lime Sand Red Lime Slate & She Red Lime Sand Red Lime Sand Red Rock	ells ells ells ells		0 12 52 64 80 162 168 200 257 250 280 341 345 360 552 575 627 650 678	12 52 64 80 162 168 200 227 250 280 341 345 363 460 552 575 605 627 650 678	Water	10,00	Office of Oil and Gas JAN 2 3 2018 Wy Department of Environmental Protection
Lime Slate & Sh Lime Slate & Sh Sand			696 720 736 762 782	720 736 762 782 832	Water	830	03/02/2018 2007 in hote

de

Formation	Color	Hard or Soft	Top 🦒	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate & She Ravencliff Slate & She Lime Red Rock Lime Red Lime Slate & She Lime Slate & She Lime Slate & She Lime Slate & She Red Rock Lime Slate & She Slate	ells ells ells ells		832 1020 1150 1179 1206 1323 1349 1441 1455 1507 1518 1579 1612 1625 1634 1653 1670 1685 1730 1738 1751 1822 1840 1859 1868 1964 1980	1020 1150 1179 1206 1323 1349 1441 1455 1507 1518 1579 1612 1625 1634 1653 1670 1685 1730 1738 1751 1822 1840 1859 1868 1964 1980	Gas Gas	1058	Smell Show; not enough to test.
Maxton TOTAL DEPT	H		1900	. 2003	NOTE: RI	EDUCED HOLE	TO 7" @ 2001.
	si. i.	·					
							RECEIVED Office of Oil and Gas JAN 2 3 2018 WV Department of Environmental Protection
							MA

	Date Nune 13	03/02/2018
APPROVED	GODFREY L. CABOT, ING.	, Owner
Ву	H.J.Sinmons, Jr. (Title)	

00212

WW-4A	
Revised	6-07

1) Date:	January 9, 2018	
2) Operator's	s Well Number	
Beaver Coal 2	8	

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

3) API Well No.: 47 -

(a) Name	Beaver Coal Company Limited /	Name	See Addendum "A"
Address	115 1/2 S. Kanawha Street	Address	
	Beckley, WV 25801		
(b) Name	Penny Powell /	(b) Coal Ow	oner(s) with Declaration
Address	P.O. Box 165	Name	Beaver Coal Company Limited
	Helen, WV 25853	Address	115 1/2 S. Kanawha Street
			Beckley, WV 25801
(c) Name	Coal Fillers, Inc.	Name	
Address	4099 Tams Highway	Address	
	Sophia, WV 25921		
) Inspector	Gary Kennedy	(c) Coal Les	ssee with Declaration
Address	252 Circle Avenue	Name	See Addendum "A"
	Rainelle, WV 25962	Address	
Telephone	304-382-8402		
The state of the state of			

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

	Well Operator	Cabot Oil & Gas Corporation	
	By:	Kenneth L. Marcum	ar
Commonwealth of Pennsylvania - Notary Seal	Its:	Regulatory Supervisor	
Constance C. Carden, Notary Public Washington County	Address	2000 Park Lane, Suite 300	RECEIVED
My commission expires November 16, 2021		Pittsburgh, PA 15275	Office of Oil and Gas
Commission number 1252953	Telephone	412-249-3850	1411 4 0 000
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES			JAN 16 2018
Subscribed and sworn before me t	his 10th de	ay of January 2018 Notary Public	WV Department of Environmental Protection

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

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JAN 2 3 2018

SURFACE OWNER WAIVER

WV Department of Environmental Protection

Operator's Well Number

Beaver Coal 28

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

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

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

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

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

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

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

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;

3) Damage would occur to publicly owned lands or resources;

4) The proposed well work fails to protect fresh water sources or supplies;

5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

and Application For A Permit To Plug And Abandon on Forms WV		materials, and I have no
I further state that I have no objection to the planned objection to a permit being issued on those materials. FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTIO	N BY A CORPORATION,
Jerry Javel Date 01.22/2 Nar By	ne	Date
Pignature Its	Signature	Date 03/02/2018

ADDENDUM "A" Coal Operator/Lessee with Declaration

BEAVER COAL 28

47-081-00212

Newgate Development of Beckley, LLC 302 South Jefferson Street Roanoke, Virginia 24011

Newgate Development of Beckley, LLC 818 North Eisenhower Drive Beckley, WV 25801

Kentucky Fuel Corporation 818 North Eisenhower Drive Beckley, WV 25801

Pocahontas Coal Company, LLC 109 Appalachian Drive Beckley, WV 25801

ICG Beckley, LLC P.O. Box 49 Eccles, WV 25836

Baylor Mining, Inc. P.O. Box 577 Mabscott, WV 25871

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Office of Oil and Gas

JAN 16 2018

WV Department of Environmental Protection

WW-9 (2/15)

API Number	47 -	081	_ 00212

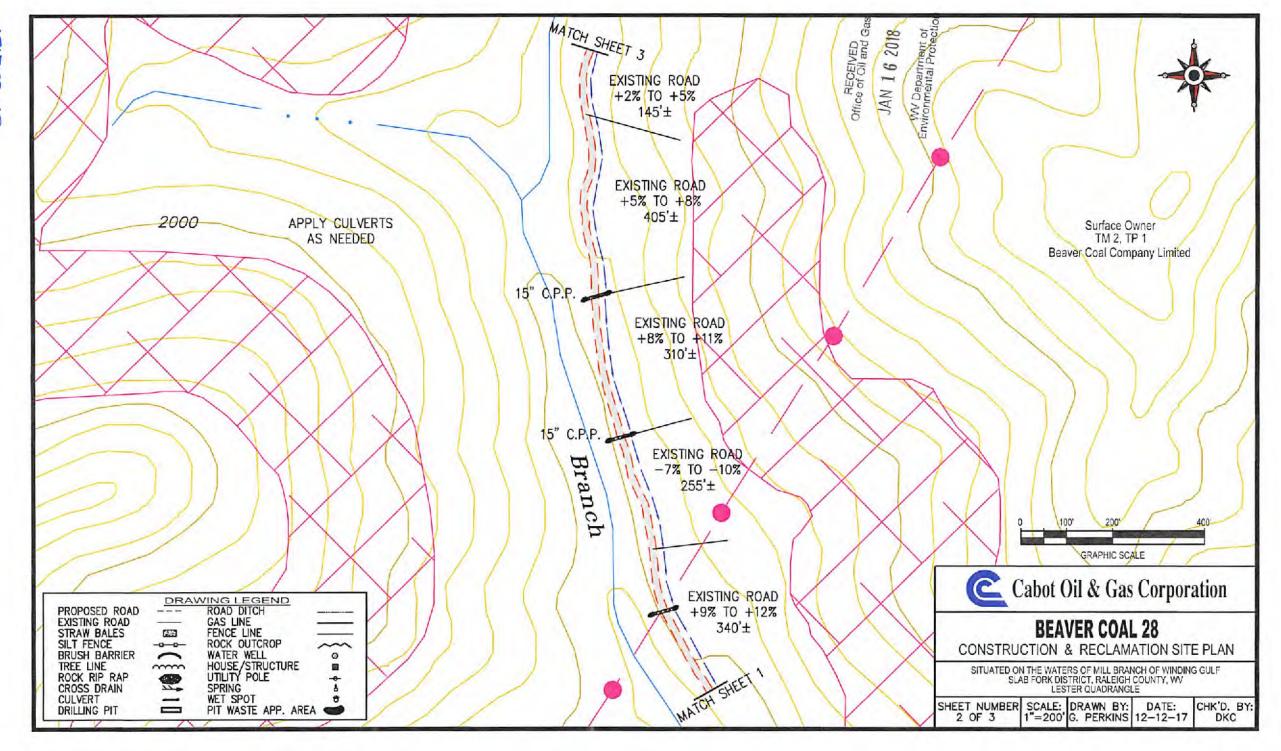
Operator's Well No. Beaver Coal 28

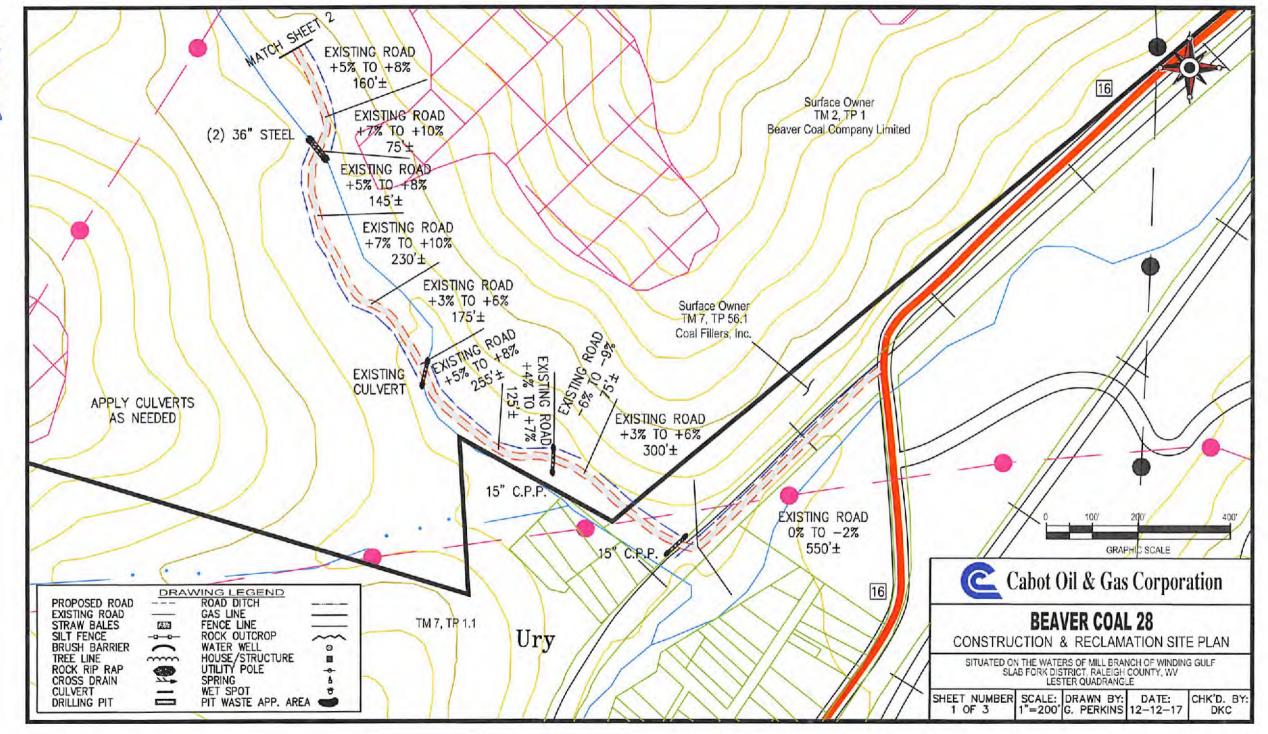
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

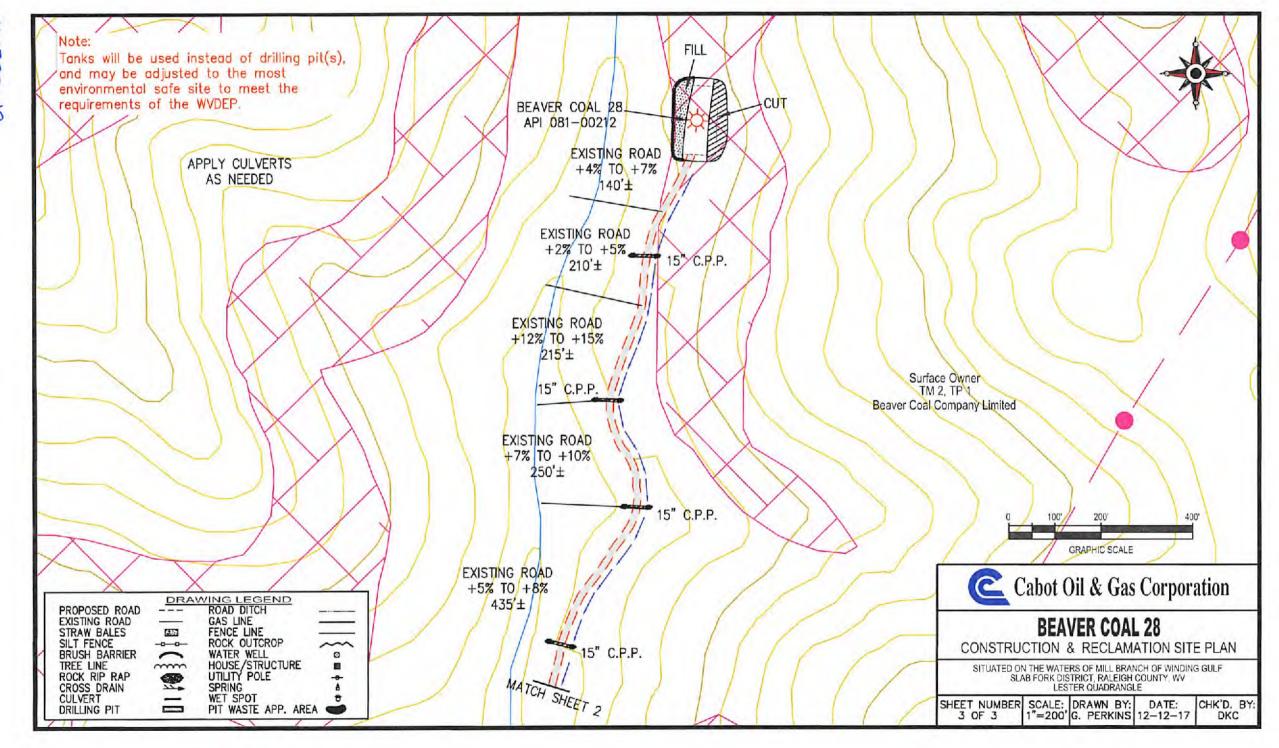
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION	ON PLAN
Operator Name Cabot Oil & Gas Corporation OP	Code 08145
Watershed (HUC 10) Mill Branch of Winding Gulf Quadrangle Lester	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well we	ork? Yes No 🗸
Will a pit be used? Yes No ✓	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No If so, wh	nat ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain No treated pit wastes will be produced	
Will closed loop system be used? If so, describe: N/A	
	no dellina proposad
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil	
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium? N/A	and the desired of the second
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. No cuttings p	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sa	
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cu West Virginia solid waste facility. The notice shall be provided within 24 hours of reject where it was properly disposed.	attings or associated waste rejected at any tion and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENER on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of En provisions of the permit are enforceable by law. Violations of any term or condition of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am fam application form and all attachments thereto and that, based on my inquiry of the obtaining the information, I believe that the information is true, accurate, and compensalties for submitting false information, including the possibility of fine or imprisonment of the company Official Signature	vironmental Protection. I understand that the of the general permit and/or other applicable siliar with the information submitted on this use individuals immediately responsible for olete. I am aware that there are significant ment.
Company Official (Typed Name) Kenneth L. Marcum	Office of Oil and Gas
Company Official Title Regulatory Supervisor	JAN 2 3 2018
	WV Department of
Subscribed and sworn before me this 10 th day of January	
Unstance C. Carden	Notary Commissive aith of Pennsylvania - Notary Sea: Constance C. Carden, Notary Public
My commission expires 11/16/2021	Washington County My commission expires November 16, 2021 Commission number 32/7325/2018 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Operator's Well No. Beaver Coal 28

Cabot Oil & Gas Corporation		
Proposed Revegetation Treatment: Acres Disturbed 1.00	Prevegetation pH 6	3.5
Lime 2 Tons/acre or to correct to pF	6.5	
Fertilizer type 10-20/20 or equivalent		
Fertilizer amount 500	os/acre	
Mulch Pulp Fiber at 1000 to 1500 lbs. Tons/	acre	
See	d Mixtures	
Temporary	Permaner	ıt
Seed Type lbs/acre	Seed Type	lbs/acre
(Grain Rye - 100) (Red Clover - 5) (Fescue - 40)	(Grain Rye - 100) (Red Clover	r - 5) (Fescue - 40)
(Annual Rye - 20) (White Clover - 5)	(Annual Rye - 20) (Whi	te Clover - 5)
(Perennial Rye - 10) (Alta Sweet Clover - 5)	(Perennial Rye - 10) (Alta s	Sweet Clover - 5)
(Yellow Clover - 5) (Birdsfoot Trefoil - 10)	(Yellow Clover - 5) (Birds	foot Trefoil - 10)
Photocopied section of involved 7.5' topographic sheet. Plan Approved by: When the section of involved 7.5' topographic sheet.		
Comments:		
Title: Turpector	Date: 1/23/18	Office of Oil and G
Field Reviewed? () Yes () No	JAN 2 3 2018
iou reviewed: 1 es		WV Department of Environmental Protection







GENERAL NOTES:

THIS DRAWING REPRESENTS A SCHEMATIC REPRESENTATION OF THE PROPOSED WELL SITE AND ACCESS ROAD.
PROPOSED STRUCTURES SUCH AS THE DRILLING PIT, ROADWAY, CULVERTS, SEDIMENT BARRIERS, ETC. ARE SHOWN IN
THEIR APPROXIMATE PREPLANNING CONFIGURATION. GIVEN UNFORESEEN CIRCUMSTANCES, THE AS-BUILT LOCATION OF
THESE STRUCTURES MAY VARY SLIGHTLY FROM THE LOCATION SHOWN ON THE ATTACHED DRAWINGS.
ALL ROADS SHOWN THEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE

WITH GUIDELINES AND REQUIREMENTS OF WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL

MANUAL.

ALL CULVERTS SHOWN ON THIS DRAWING ARE PROPOSED AND WILL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE NOTED

DITCH LINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL. HOWEVER PORTIONS OF THE EXISTING/ PROPOSED ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS

PROPOSED ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.

SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL STRUCTURES MEASURES IN ADDITION TO THOSE SHOWN ON THE ATTACHED DRAWINGS WILL BE INSTALLED WHEN AND WHERE DEEMED NECESSARY. SUCH ADDITIONAL MEASURES MAY CONSIST OF EITHER STRAW BALES, SILT FENCES OR OTHER MEASURES OUTLINED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

SEDIMENT BASINS (TRAPS) WILL BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAINS INLETS AS REQUIRED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL. FIELD CONDITIONS SUCH AS ROCK OUTCROPS AND BEDROCK MAY PROHIBIT INLET TRAPS BEING INSTALLED WHEN THESE CONDITIONS EXIST. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

A SEDIMENT BARRIERS OF EITHER BRUSH, STRAW BALES, FILTER FENCE, ETC. WILL BE INSTALLED AND MAINTAINED BELOW THE OUT FALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DRAINAGE POINTS FROM EITHER THE ROADWAY OR THE LOCATION.

ALL NECESSARY TIMBER OR BRUSH WILL BE REMOVED FROM ROUTE OF THE ROADWAY AND LOCATION BY CLEANING

THE ROADWAY OR THE LOCATION.

ALL NECESSARY TIMBER OR BRUSH WILL BE REMOVED FROM ROUTE OF THE ROADWAY AND LOCATION BY CLEANING AND GRUBBING ACTIVITIES. ANY SALVAGEABLE TIMBER WILL BE CUT AND STACKED TO THE SIDE OF THE ROADWAY OR REMOVED TO A STOCKPILE AREA. THE REMAINING TIMBER OR BRUSH WILL BE CUTUP AND WIND ROWED BELOW THE OUTSLOPE OF THE CONSTRUCTION AREAS TO BE UTILIZED AS A SEDIMENT BARRIER.

SEPARATE PERMITS WILL BE OBTAINED FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION FOR ALL POINTS OF INGRESS AND EGRESS FROM COUNTY AND STATE ROADS. THESE INGRESS AND EGRESS POINTS WILL BE MAINTAINED IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS. A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" OF CRUSHED STONE WILL BE CONSTRUCTED FOR A MINIMUM DISTANCE OF 50' FROM THE INGRESS AND EGRESS POINTS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS. DEPARTMENT OF TRANSPORTATION REGULATIONS.

ALL CULVERTS SHOWN ON THE ATTACHED DRAWINGS ARE TO BE CONSIDERED PERMANENT AND WILL REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE. A STABILIZED OUTLET CONTROL DEVICE SUCH AS RIP RAP, NATURAL STONE, BRUSH, ETC. WILL BE INSTALLED BELOW THE OUT FALL OF ANY ROADWAY CULVERT(S) WHICH ARE NOT LOCATED IN A STREAM OR CREEK.

PERMANENT OF TRANSPORTATION REGISTRATION OF THE RECLAMATION PROPERTY OF THE RECLAMATION RECORD AND STABLE 11. A CETTLE WEST

PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH AS-BUILT ROADWAY SLOPES AND TABLE 11-4 OF THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

TEMPORARY SEEDING AND MULCHING WILL BE UTILIZED TO PROVIDE A VEGETATIVE COVER ON ALL DISTURBED AREAS I.E. ROADWAYS, LOCATION, ROAD/LOCATION SLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION **ACTIVITIES**

THE LOCATION OF DRILLING PIT(S) MAY BE ADJUSTED TO THE MOST ENVIRONMENTAL SAFE SITE TO MEET THE REQUIREMENTS OF THE WYDEP.

CONTRACTORS NOTE:

IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY/OR CONSTRUCTION ACTIVITIES. DIG WITH C.A.R.E. CALL MISS UTILITY 1-800-245-4848.

TABLE 11-4 SPACIN	G OF CROSS DRAINS
ROAD GRADE (%)	DISTANCE (FT)
1	400
2	250
5	135
10	80
15	60
20	45

TABLE 11-7 SPAC	
ROAD GRADE (%)	DISTANCE (FT)
2-5	500-300
6-10	300-200
11-15	200-100
16-20	100



1-800-245-4848

DRAWING LEGEND

PROPOSED ROAD EXISTING ROAD STRAW BALES SILT FENCE BRUSH BARRIER TREE LINE
ROCK RIP RAP
CROSS DRAIN
CULVERT
DRILLING PIT DRILLING PIT
ROAD DITCH
GAS LINE
FENCE LINE
ROCK OUTCROP
WATER WELL
HOUSE/STRUCTURE
UTILITY POLE
SPRING 0 SPRING WET SPOT PIT WASTE APP. AREA

DRIVING DIRECTIONS FOR BEAVER COAL 28

FROM INTERSTATE 64/77, EXIT 42, IN BECKLEY, WV, DRIVE SOUTHWEST ON STATE ROUTE 16 AND 97 FOR 3.5 1.) MILES± TO SOPHIA, WV.

TURN RIGHT AND CONTINUE WEST ON STATE ROUTE 16 AND 54 FOR 7.4 MILES± TO THE BEGINNING OF THE EXISTING ACCESS ROAD LOCATED ON THE RIGHT-HAND SIDE OF THE ROAD, WHICH IS NEXT TO THE RAILROAD 2.)

FROM THE AFOREMENTIONED SITE, FOLLOW THE EXISTING ROAD FOR APPROXIMATELY 0.9 MILE \pm TO THE EXISTING WELL SITE AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

03/02/201B

