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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, April 11, 2018  
WELL WORK PERMIT  
Vertical / Plugging

CABOT OIL & GAS CORPORATION  
2000 PARK LANE, SUITE 300


PITTSBURGH, PA 15275

Re: Permit approval for BEAVER C-11  
47-081-00919-00-00

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: BEAVER C-11  
Farm Name: BEAVER COAL CO.  
U.S. WELL NUMBER: 47-081-00919-00-00  
Vertical Plugging  
Date Issued: 4/11/2018

## 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.

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### CONDITIONS

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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.

1) Date January 8, 2018  
2) Operator's  
Well No. Beaver Coal C-11  
3) API Well No. 47-081 - 00919

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Location: Elevation 2,050.75' Watershed Mill Branch of Winding Gulf  
District Slab Fork County Raleigh Quadrangle Lester

6) Well Operator Cabot Oil & Gas Corporation 7) Designated Agent Phillip Hill - Cabot Oil & Gas Corporation  
Address 2000 Park Lane, Suite 300 Address 29 Starbuck Lane  
Pittsburgh, PA 15275 Saulsville, WV 25876

8) Oil and Gas Inspector to be notified Name Gary Kennedy  
Address 252 Circle Ave.  
Rainelle, WV 25962  
9) Plugging Contractor Name Francis Brothers  
Address 622 North Church Street  
Ripley, WV 25271

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

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Office of Oil and Gas  
JAN 23 2018  
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  Date 1/22/18

## Beaver Coal C-11 API # 47 - 081 - 00919 PLUGGING PROCEDURE

### Current Configuration

TD @ 3,117'

16" conductor @ 64', not cemented

9-5/8" casing @ 585' cemented and grouted to surface

4-1/2" casing @ 2,584' with cement top estimated to be at 750'

1-1/2" tubing @ 2,183'; open ended

CIBP @ 2,280'

Fresh water @ 134'

Coal @ 134'-142', 256'-258', 328'-336' (Open Mine), 347'-349', 417'-421', 469'-475'

Ravencloff @ 1,104'-1,228'; perforations @ 1,150' - 1,230'

L. Maxton @ 2,069' - 2,195'; perforations @ 2,086' - 2,184'

Big Lime @ 2,356' - 2,857'; perforations @ 2,462' - 2,476'

### Check Rock Pressure 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. *work tank - ?*
5. Unpack wellhead.
6. Lower existing 1 1/2" tubing and tag CIBP @ 2,280'; pull up tubing to 2,270' (or 10' above CIBP)
7. MIRU Cement Company and pump 8.5 bbls 6% Gel.
8. Pump 38 sks (7.95 bbls) of Class A cement for cement plug #1 @ 2,280' - 1,780'.
9. Displace w/ 6.9 bbls of 6% Gel.
10. Pull tubing up to +/- 1,500', safely above cement top. WOC minimum 8 hours.
11. RIH with tubing, tag TOC to confirm.
12. PU tubing to 1,250'.
13. Pump 2.5 bbls 6% gel followed by 19 sks (4 bbls) of Class A cement for cement plug #2 @ 1,250' - 1,000'.
14. Displace w/ 3.9 bbls of 6% Gel
15. Pull tubing up to +/- 800', safely above cement top. WOC minimum 8 hours.
16. RIH with tubing, tag TOC to confirm.
17. POOH with 1 1/2" tubing, run freepoint on 4 1/2" casing, cut above freepoint, and POOH. (NOTE: cement top is estimated @ 750')
18. TIH with 2 3/8" workstring to 850'.
19. Pump 284.5 sks (60 bbls) of Class A cement for cement plug #3 @ 850' to surface
20. TOOH with work string and lay down.
21. RDMO Cementing Company.
22. Place monument as required by law on top of well bore.
23. Reclaim well site.

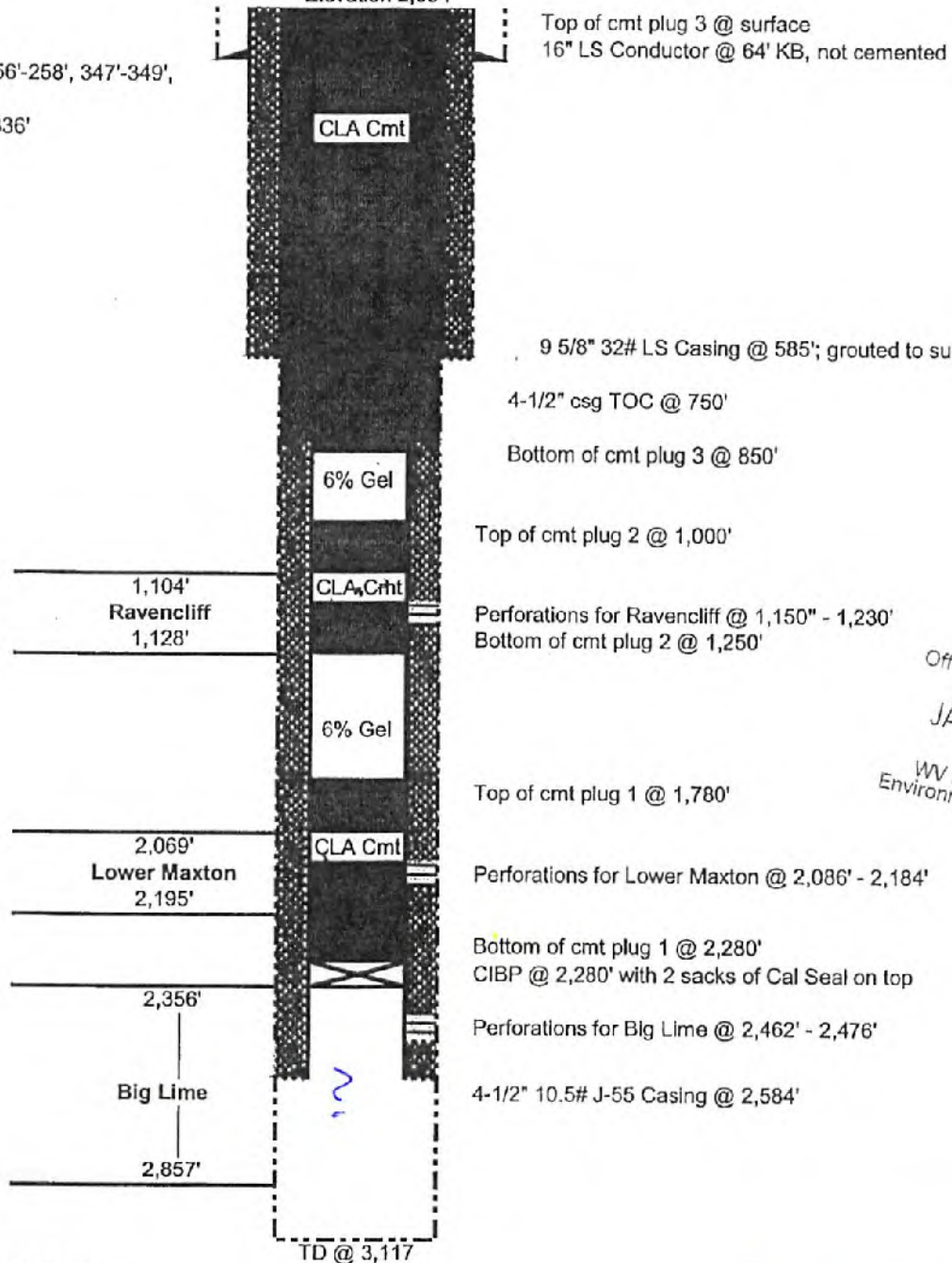
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Office of Oil and Gas

JAN 23 2018

WV Department of  
Environmental Protection

**Beaver Coal C-11**  
API 47-081-00919  
CURRENT CONFIGURATION  
Elevation 2,054'

Fresh water @ 134'  
Coal @ 134'-142', 256'-258', 347'-349',  
417'-421', 469'-475  
Open Mine @ 328'-336'



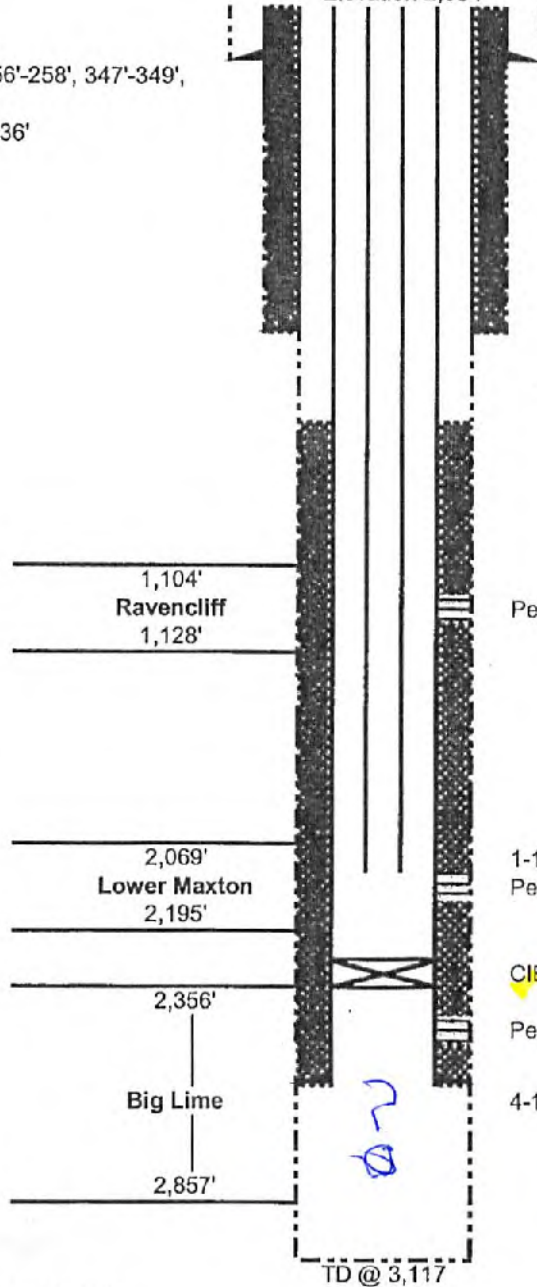
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JAN 23 2018  
WV Department of  
Environmental Protection

Schematic is not to scale

A. Wolff 12/13/2017

**Beaver Coal C-11**  
API 47-081-00919  
CURRENT CONFIGURATION  
Elevation 2,054'

Fresh water @ 134'  
Coal @ 134'-142', 256'-258', 347'-349',  
417'-421', 469'-475  
Open Mine @ 328'-336'



16" LS Conductor @ 64' KB, not cemented

9 5/8" 32# LS Casing @ 585' kb  
grouted to surface  
4-1/2" csg TOC @ 750'

Perforations for Ravencloff @ 1,150' - 1,230'

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JAN 23 2018

1-1/2" tubing @ 2,183'; Open ended  
Perforations for Lower Maxton @ 2,086 - 2,184' WV Department of Environmental Protection

CIBP @ 2,280' with 2 sacks of Cal Seal on top

Perforations for Big Lime @ 2,462' - 2,476'

4-1/2" 10.5# J-55 Casing @ 2,584' kb

Schematic is not to scale

J. Wolfe 12/13/2017

WR-35 RECEIVED  
WV  
MAR 0 1992

04-MAR-93  
API # 47-081-00919

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas  
Well Operator's Report of Well Work

Farm name: BEAVER COAL CO.

Operator Well No.: BEAVER C-11

Location: Elevation: 2054.40

Quadrangle: LESTER

District: SLAB FORK County: RALEIGH  
Latitude: 2200 Feet South of 37 Deg. 40 min. 0 sec.  
Longitude: 9500 Feet West of 81 Deg. 17 min. 30 sec.

Company: CABOT OIL & GAS CORPORATION  
3 Gateway Center, Suite 2000  
Pittsburgh, PA 15222

Agent: STEVEN D. TURK

Inspector: Rodney G. Dillon  
Permit Issued: 6/13/91  
Well Work Commenced: 8/25/92  
Well Work Completed: 9/01/92  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 2574' TP 3117'  
Fresh water depths (ft) 134'  
Salt water depths (ft) none  
Is coal being mined in area (Y/N)? No  
Coal Depths (ft): 134-142, 328-336,  
347-349, 417-421, 469-475

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	64'	64'	
9-5/8"	585'	585'	100 sks CL-A
4-1/2"	2582'	2582'	135 sks CL-A
1-1/2"	-	2183'	-

OPEN FLOW DATA

Producing formation Ravencliff Pay zone depth (ft) 2108'  
Gas: Initial open flow TSTM MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 189 commingled MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 8 Hours  
Static rock Pressure 150 psig (surface pressure) after 14 Hours

Second Producing formation Maxton Pay zone depth (ft) 2078'  
Gas: Initial open flow TSTM MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 189 commingled MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 8 Hours  
Static rock Pressure 150 psig (surface pressure) after 14 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Reviewed TM6  
Recorded \_\_\_\_\_

For: CABOT OIL & GAS CORPORATION  
By: [Signature]  
Date: 3-5-93

VAL  
D 919

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perf Big Lime 2462'-2476'. Perf Maxton 2086'-2106', 2128'-2138', 2154'-2162', 2170'-2184'. Perf Ravenclyff 1150'-1164', 1178'-1190', 1200'-1206', 1210'-1230'.

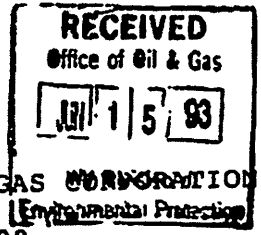
FORMATION	TOP	BOTTOM
Salt Sand	-	905
Pride Shale	905	1108
Ravenclyff SS	1108	1233
Shale	1233	1244
Avis Limestone	1244	1288
Shale	1288	2076
Lower Maxton SS	2076	2200
Little Lime	2200	2462
Big Lime	2462	2900
Shale	2900	TD
LTD		3130
DTD		3117

12319



IR-26  
REVERSE

INSPECTOR'S PERMIT SUMMARY FORM



WELL TYPE \_\_\_\_\_ API# 47- 81-00919  
ELEVATION: 2054.40 OPERATOR: CABOT OIL & GAS CORPORATION  
DISTRICT: SLAB FORK TELEPHONE: (304)347-1600  
QUADRANGLE: LESTER FARM: BEAVER COAL CO.  
COUNTY: RALEIGH WELL NO.: BEAVER C 11

SURFACE OWNER \_\_\_\_\_ COMMENTS (Y/N) \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
TARGET FORMATION \_\_\_\_\_ DATE APPLICATION RECEIVED 05/21/91

DATE PERMIT ISSUED: 06/13/91  
DATE LOCATION STARTED 7/27/92 NOTIFIED  DRILLING COMMENCED 8/24/92

WATER DEPTHS 1.34 \_\_\_\_\_  
COAL DEPTHS 1.34-9.2 , 256-58 , 328-362 , 347-49 , 417-21 , 469-75  
*(river)*

RAN 587 FEET OF 9 5/8 " PIPE ON 8-27 WITH 435 SACKS FILL UP  
RAN 2578 FEET OF 4 1/2 " PIPE ON 8-31 WITH \_\_\_\_\_ FILL UP  
RAN \_\_\_\_\_ FEET OF \_\_\_\_\_ " PIPE ON \_\_\_\_\_ WITH \_\_\_\_\_ FILL UP  
RAN \_\_\_\_\_ FEET OF \_\_\_\_\_ " PIPE ON \_\_\_\_\_ WITH \_\_\_\_\_ FILL UP  
RAN \_\_\_\_\_ FEET OF \_\_\_\_\_ " PIPE ON \_\_\_\_\_ WITH \_\_\_\_\_ FILL UP

TD 3117 8-31-92 PITS  
PIT DISCHARGE DATE \_\_\_\_\_ TYPE \_\_\_\_\_  
FIELD ANALYSIS pH \_\_\_\_\_ Fe \_\_\_\_\_ mg/l Cl \_\_\_\_\_ mg/l  
D.O. \_\_\_\_\_ mg/l TOC \_\_\_\_\_ mg/l

WELL RECORD RECEIVED \_\_\_\_\_ pH OF PRE-SEEDING SOIL \_\_\_\_\_  
DMR RECEIVED \_\_\_\_\_ ACRES DISTURBED \_\_\_\_\_  
TONS OF LIME APP. \_\_\_\_\_  
TONS OF 10-20-20 APP. \_\_\_\_\_  
BALES OF MULCH APP. \_\_\_\_\_  
DATE RELEASED 4/8/93  
\_\_\_\_\_  
INSPECTOR'S SIGNATURE

-----RECORD ALL VISITS TO THIS WELL ON BACK-----

081-0919

FORM WW-2B

Page \_\_\_ of \_\_\_\_\_

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: CABOT OIL & GAS CORPORATION 8145 (5) 432
- 2) Operator's Well Number: Beaver Coal C-11 3) Elevation: 2054.4
- 4) Well type: (a) Oil    / or Gas X /  
(b) If Gas: Production X / Underground Storage    /  
Deep    / Shallow X /
- 5) Proposed Target Formation(s): Ravencliff, Lower Maxton
- 6) Proposed Total Depth: 3125 feet
- 7) \* Approximate fresh water strata depths: 70, 191, 360, 400
- 8) \* Approximate salt water depths: N/A
- 9) \* Approximate coal seam depths: 252, 308 (open), 412, 510
- 10) Does land contain coal seams tributary to active mine? Yes y / No
- 11) Proposed Well Work: Drill and complete a commingled gas well.
- 12) \* Based on Raleigh: 212, 213, 217, 222, 262 and Coal Maps.  
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16"	LS	65	40'	40'	10 sks Neat GFS
Fresh Water						385918.11.3 385918.11.2
Coal	9-5/8"	LS	36	560'	560'	545 sks CL-A w/ 3% CC
Intermediate**	7"	J-55	20	1140'	1140'	175 sks CL-A w/ 3% CC
Production	4-1/2"	J-55	10.5	3125'	3125'	370 sks CL-A w/ 2% gel, 1% CC
Tubing	1-1/2"	CW55	2.75		2369'	385918.11.1
Liners	11-3/4"	LS	32		60'	Weld to 9-5/8" space evenly over mine.

12323

PACKERS : Kind \*\* NOTE: 7" will be run only if additional casing is encountered.  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

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Division of Energy

3056  
15  
For Division of Oil and Gas Use Only

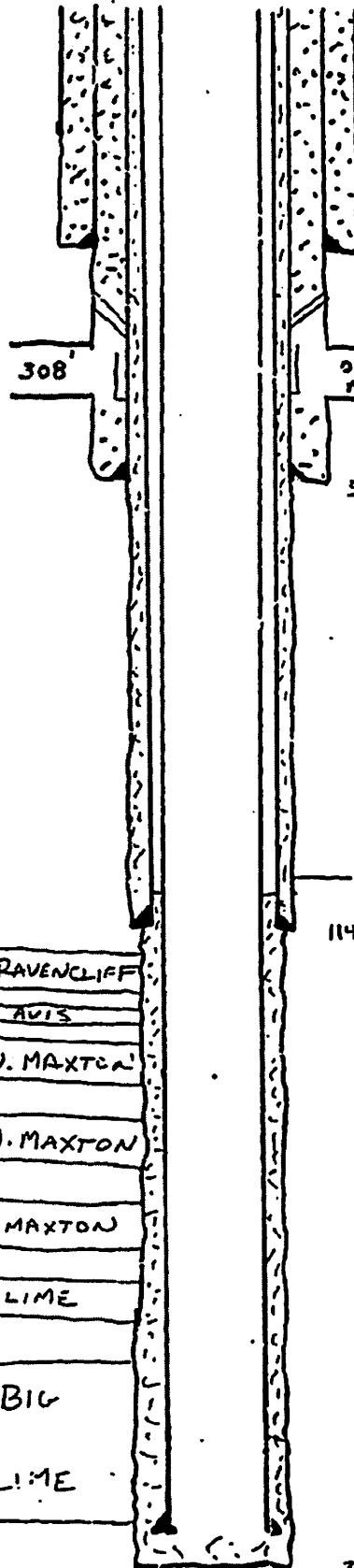
Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Surety Perfect Agent  
 (Type)

081-0919

# BEAVER COAL C-11

COAL: 708, 412, 530

F.S.S. ...



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MAR 28 1951

17 1/2" HOLE

48' 16" 1.5" LS

2 BASINETS

308'

OPEN MINE

11" CASING WELDED EQUIP TO 975' SURF MINE

15" HOLE

560' 9 5/8" 36" LS

175' CL-A w/30' CC

8 3/4" HO

BASE S.S. 1040

TOC 1075

1140 7" 20" S-SS

370' CL-A w/30' GFL - 17' CC

7 7/8"

### PRESSURE

- 123 ...
- 221
- 571 u. max
- 584
- 675 ...
- 706
- 823 L.M.
- 986
- 1130 B.L.
- 1491

- 1230
- 1365 RAVENCLIFF
- 1365
- 1433 AVIS
- 1823
- 1839 V. MAXTON
- 1959
- 1998 M. MAXTON
- 2231
- 2365 L. MAXTON
- 2471
- 2486 L. LIME
- 2564
- BIG
- LIME
- 3026

3125 T.D.

3125 4 1/2 10.5" S-SS

WW-4A  
Revised 6-07

1) Date: January 8, 2018  
2) Operator's Well Number  
Beaver Coal C-11

3) API Well No.: 47 - 081 - 00919

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

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>Beaver Coal Company Limited</u>	Name <u>See Attached Addendum "A"</u>
Address <u>115 1/2 S. Kanawha Street</u>	Address _____
<u>Beckley, WV 25801</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Beaver Coal Company Limited</u>
_____	Address <u>115 1/2 S. Kanawha Street</u>
(c) Name _____	<u>Beckley, WV 25801</u>
Address _____	Name _____
_____	Address _____
<b>6) Inspector</b> <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>252 Circle Ave.</u>	Name <u>See Attached Addendum "A"</u>
<u>Rainelle, WV 25962</u>	Address _____
Telephone <u>304-382-8402</u>	_____

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

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

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

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

Well Operator Cabot Oil & Gas Corporation  
 By: Kenneth L. Marcum  
 Its: Regulatory Supervisor  
 Address 2000 Park Lane, Suite 300  
Pittsburgh, PA 15275  
 Telephone 412-249-3850

Commonwealth of Pennsylvania - Notary Seal  
 Constance C. Carden, Notary Public  
 Washington County  
 My commission expires November 16, 2021  
 Commission number 1252953  
 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

RECEIVED  
 Office of Oil and Gas  
 JAN 10 2018  
 WV Department of  
 Environmental Protection

Subscribed and sworn before me this 8th day of January, 2018  
Constance C. Carden Notary Public  
 My Commission Expires November 16, 2021

**Oil and Gas Privacy Notice**

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

ADDENDUM "A"  
Coal Operator/Lessee with Declaration

BEAVER COAL C-11

47-081-00919

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 10 2018  
WV Department of  
Environmental Protection

WW-9  
(2/15)

API Number 47 - 081 - 00919  
Operator's Well No. Beaver Coal C-11

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION 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 work? 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, what 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 work tank - ?)

ANY WELL EFFLUENT WILL BE  
DISPOSED OF OFF-SITE PROPERLY.

gum

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. no drilling proposed

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

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. No cuttings produced during plugging operation

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

-Landfill or offsite name/permit number? \_\_\_\_\_

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Kenneth L. Marcum  
Company Official (Typed Name) Kenneth L. Marcum  
Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 8th day of January, 2018  
Constance C. Carden

My commission expires 11/16/2021

Notary Public  
Commonwealth of Pennsylvania - Notary Seal  
Constance C. Carden, Notary Public  
Washington County  
My commission expires November 16, 2021  
Commission number 1212975  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

RECEIVED  
Office of Oil and Gas  
JAN 23 2018  
WV Department of Environmental Protection

04/3/2018

**Cabot Oil & Gas Corporation**

Proposed Revegetation Treatment: Acres Disturbed 3.50 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20/20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch Pulp Fiber at 1000 to 1500 lbs. Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type	lbs/acre
(Grain Rye - 100) (Red Clover - 5) (Fescue - 40)	
(Annual Rye - 20) (White Clover - 5)	
(Perennial Rye - 10) (Alta Sweet Clover - 5)	
(Yellow Clover - 5) (Birdsfoot Trefoil - 10)	

Seed Type	lbs/acre
(Grain Rye - 100) (Red Clover - 5) (Fescue - 40)	
(Annual Rye - 20) (White Clover - 5)	
(Perennial Rye - 10) (Alta Sweet Clover - 5)	
(Yellow Clover - 5) (Birdsfoot Trefoil - 10)	

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

RECEIVED  
Office of Oil and Gas  
JAN 23 2018  
WV Department of  
Environmental Protection

Plan Approved by: *Wm Kennedy*

Comments: \_\_\_\_\_

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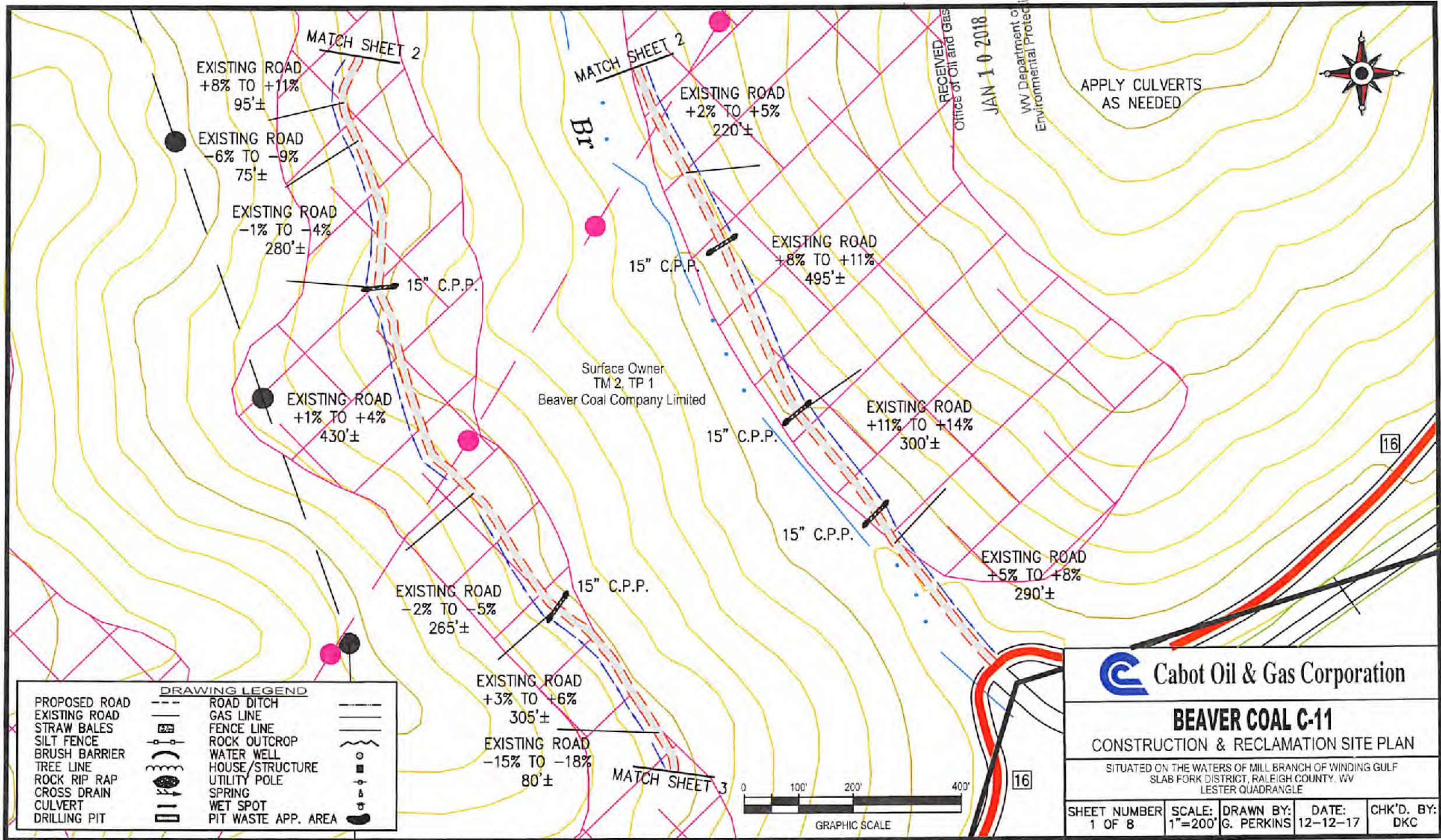
\_\_\_\_\_

Title: *Inspector*

Date: *1/22/18*

Field Reviewed? ( ) Yes ( ) No

81-00919P

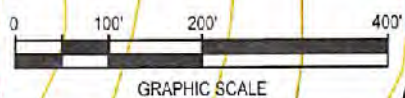


APPLY CULVERTS  
AS NEEDED

RECEIVED  
Office of Oil and Gas  
JAN 10 2018  
WV Department of  
Environmental Protection

Surface Owner  
TM 2, TP 1  
Beaver Coal Company Limited

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



 Cabot Oil & Gas Corporation

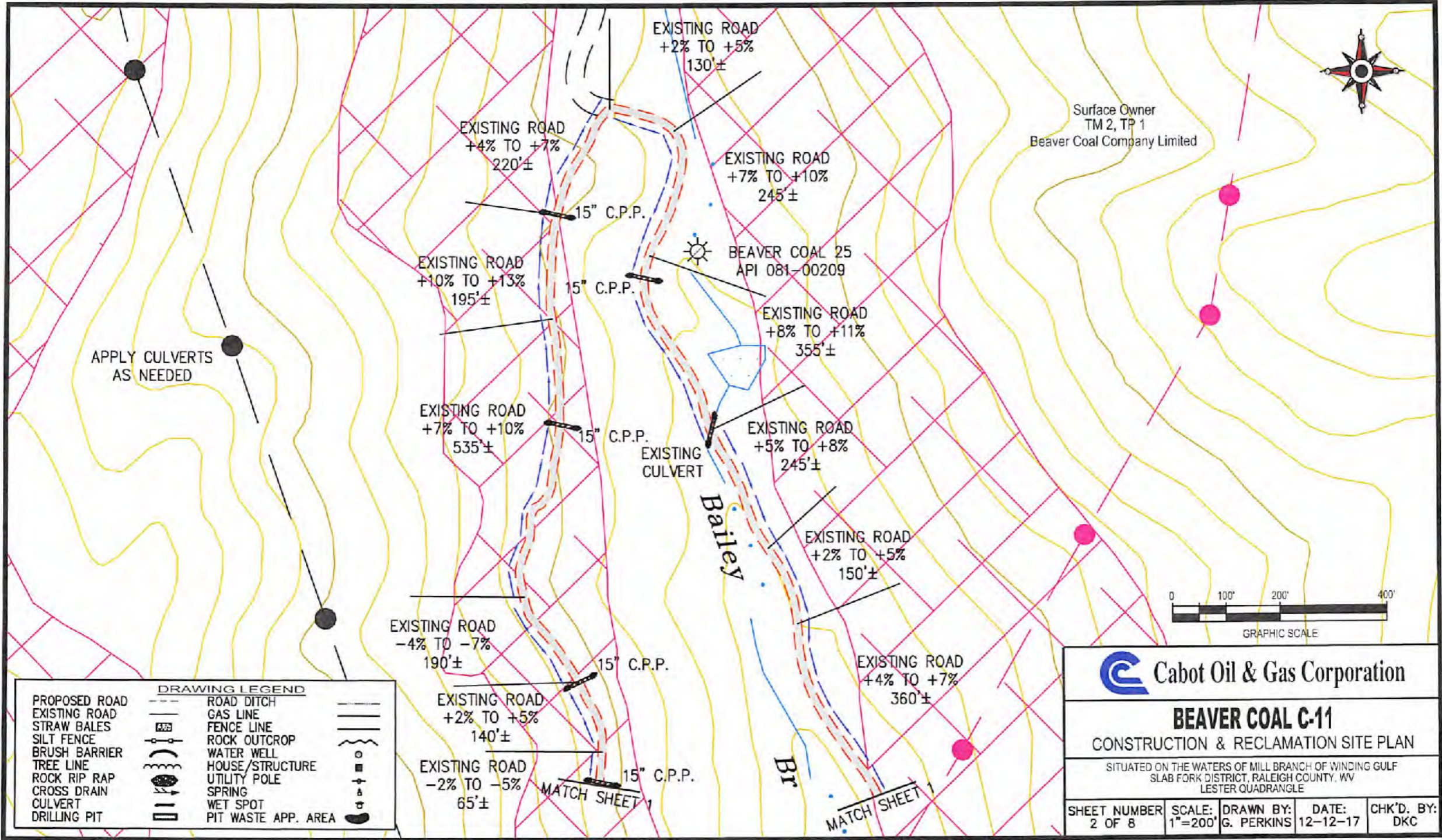
**BEAVER COAL C-11**  
CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF MILL BRANCH OF WINDING GULF  
SLAB FORK DISTRICT, RALEIGH COUNTY, WV  
LESTER QUADRANGLE

SHEET NUMBER 1 OF 8	SCALE: 1"=200'	DRAWN BY: G. PERKINS	DATE: 12-12-17	CHK'D. BY: DKC
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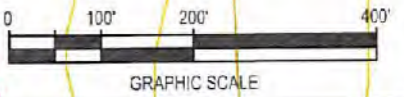
81-00919P



Surface Owner  
TM 2, TP 1  
Beaver Coal Company Limited

BEAVER COAL 25  
API 081-00209

Bailey  
Br



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

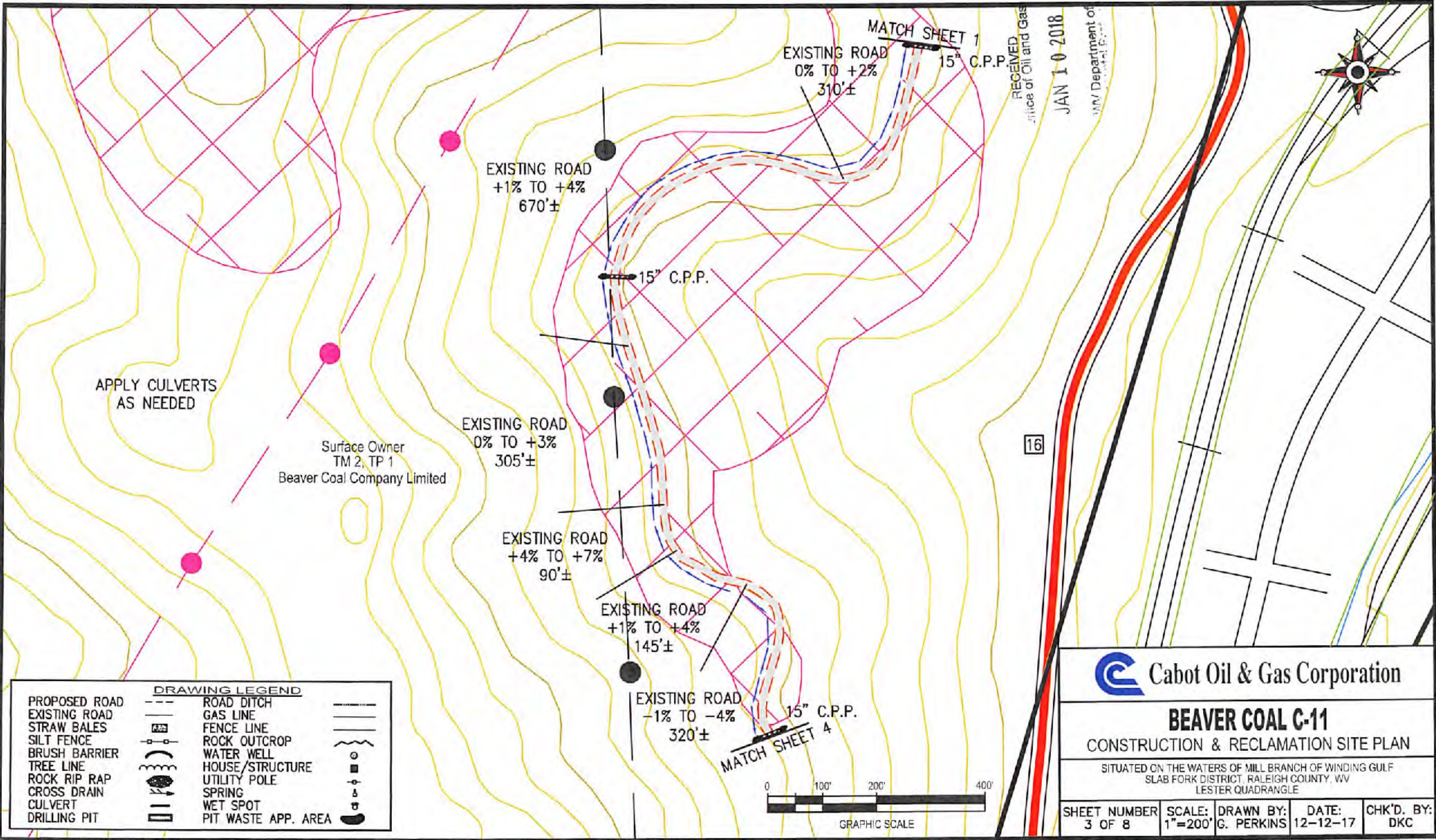
 Cabot Oil & Gas Corporation

**BEAVER COAL C-11**  
CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF MILL BRANCH OF WINDING GULF  
SLAB FORK DISTRICT, RALEIGH COUNTY, WV  
LESTER QUADRANGLE

SHEET NUMBER 2 OF 8	SCALE: 1"=200'	DRAWN BY: G. PERKINS	DATE: 12-12-17	CHK'D. BY: DKC
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81-00919P



APPLY CULVERTS AS NEEDED

Surface Owner  
TM 2, TP 1  
Beaver Coal Company Limited

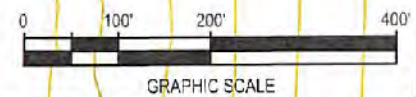
RECEIVED  
Office of Oil and Gas  
JAN 10 2018  
M/W Department of Environmental Protection

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

 Cabot Oil & Gas Corporation

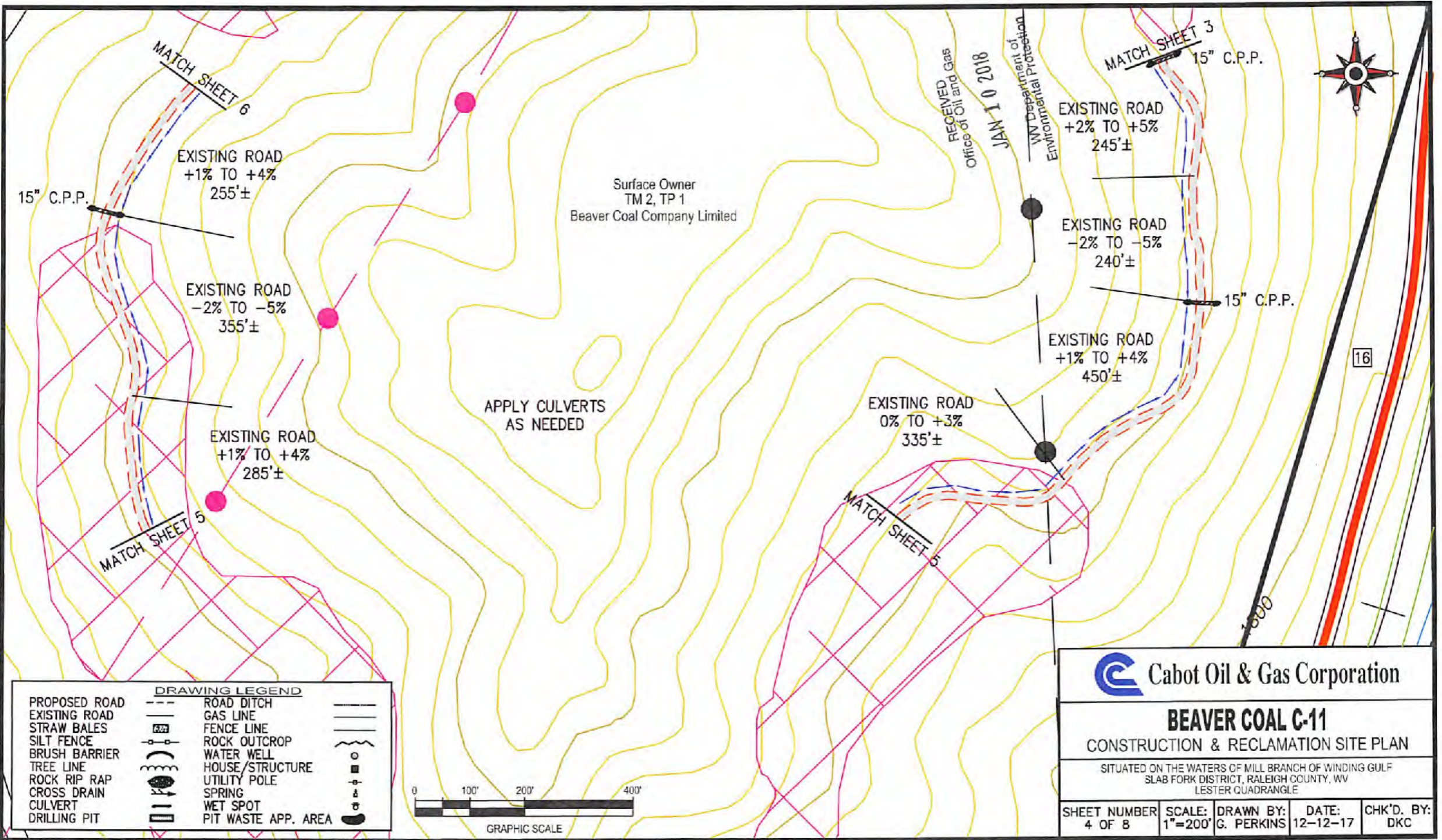
**BEAVER COAL C-11**  
CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF MILL BRANCH OF WINDING GULF  
SLAB FORK DISTRICT, RALEIGH COUNTY, WV  
LESTER QUADRANGLE



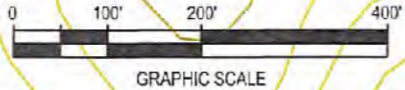
SHEET NUMBER	SCALE:	DRAWN BY:	DATE:	CHK'D. BY:
3 OF 8	1"=200'	G. PERKINS	12-12-17	DKC

81-00919P



**DRAWING LEGEND**

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



**Cabot Oil & Gas Corporation**

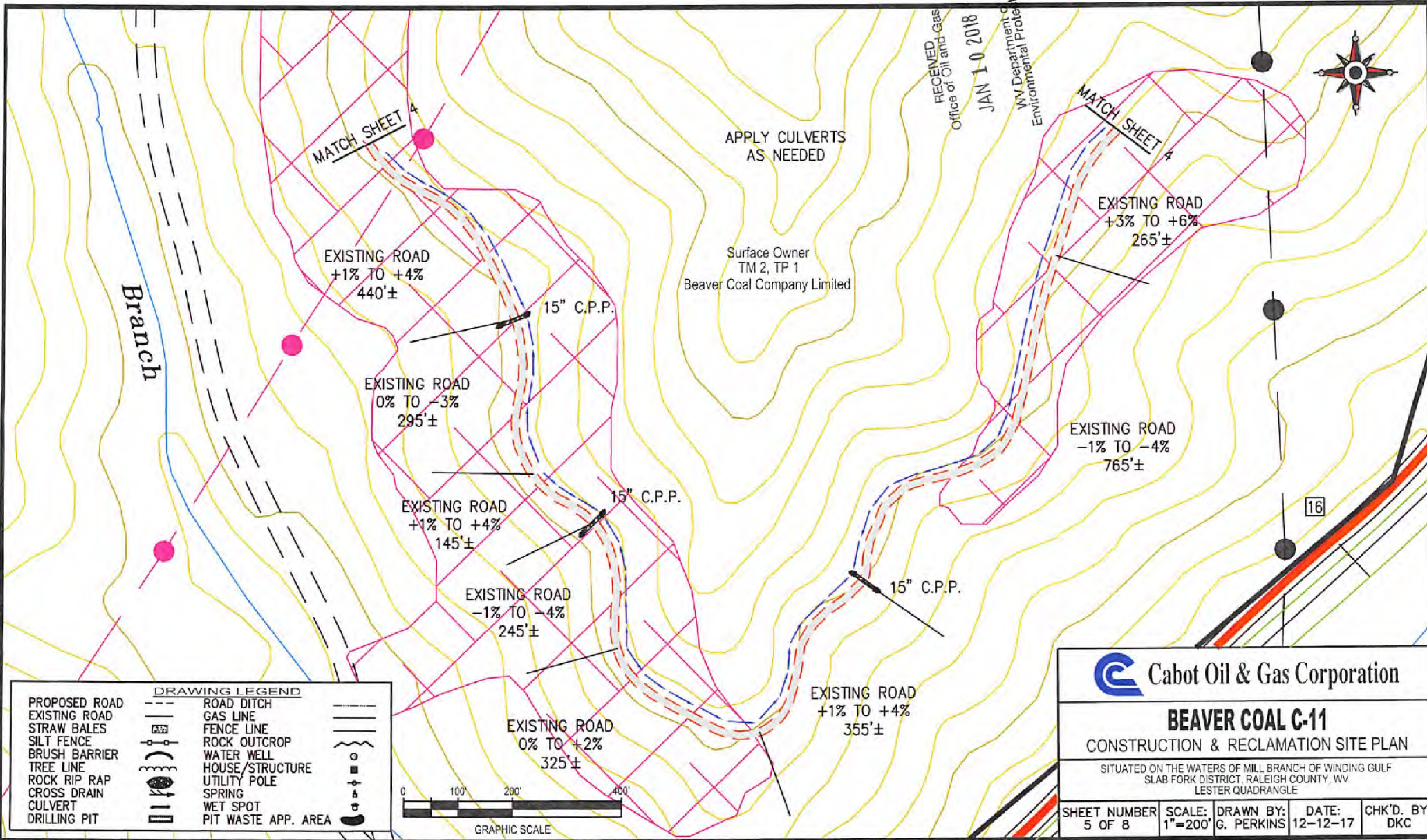
**BEAVER COAL C-11**

CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF MILL BRANCH OF WINDING GULF  
SLAB FORK DISTRICT, RALEIGH COUNTY, WV  
LESTER QUADRANGLE

SHEET NUMBER 4 OF 8	SCALE: 1"=200'	DRAWN BY: G. PERKINS	DATE: 12-12-17	CHK'D. BY: DKC
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81-00919P



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Office of Oil and Gas  
JAN 10 2018  
WV Department of Environmental Protection



APPLY CULVERTS  
AS NEEDED

Surface Owner  
TM 2, TP 1  
Beaver Coal Company Limited

 Cabot Oil & Gas Corporation

**BEAVER COAL C-11**  
CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF MILL BRANCH OF WINDING GULF  
SLAB FORK DISTRICT, RALEIGH COUNTY, WV.  
LESTER QUADRANGLE

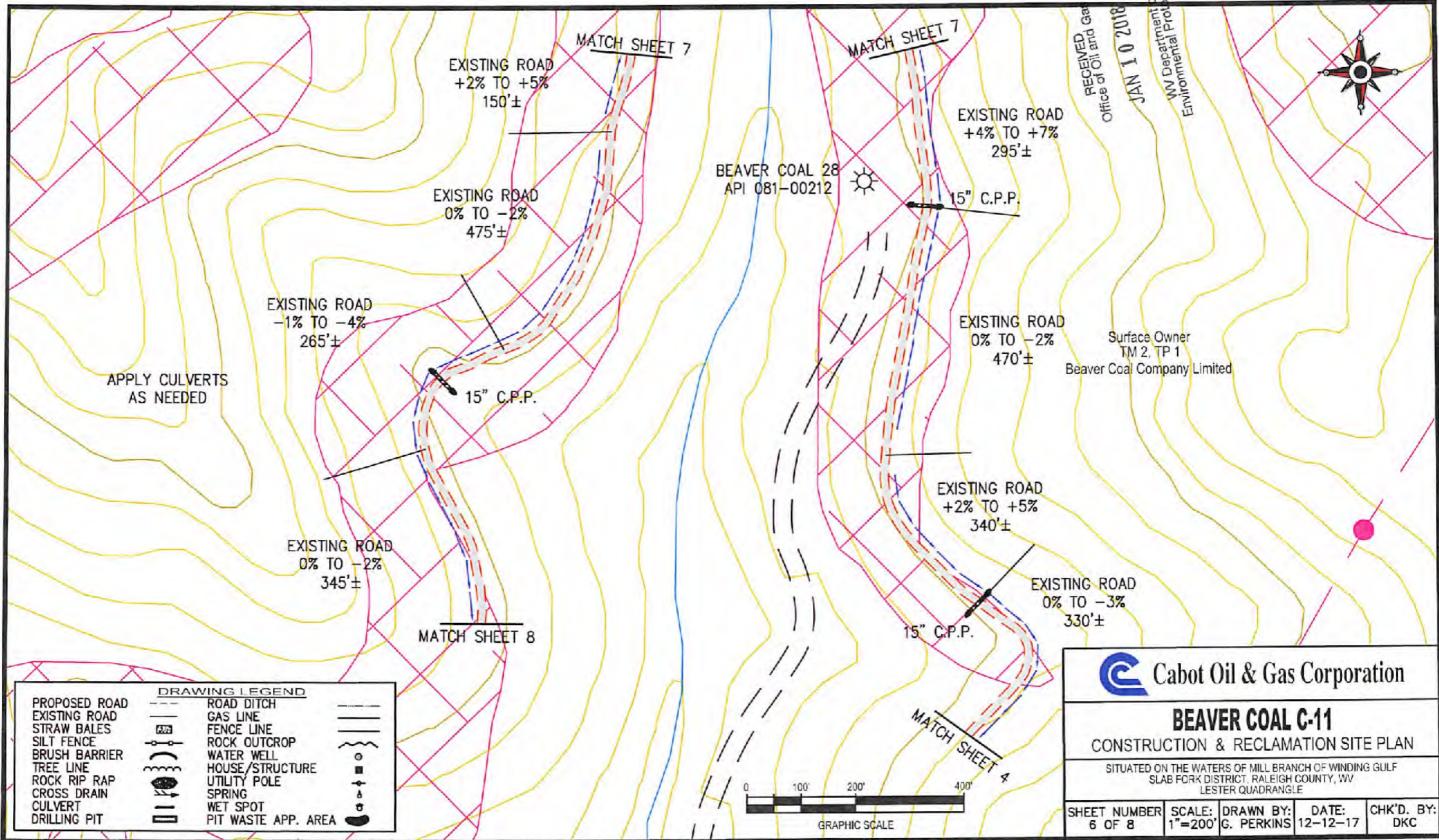
SHEET NUMBER 5 OF 8	SCALE: 1"=200'	DRAWN BY: G. PERKINS	DATE: 12-12-17	CHK'D. BY: DKC
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**DRAWING LEGEND**

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



81-00919P



**DRAWING LEGEND**

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

**Cabot Oil & Gas Corporation**

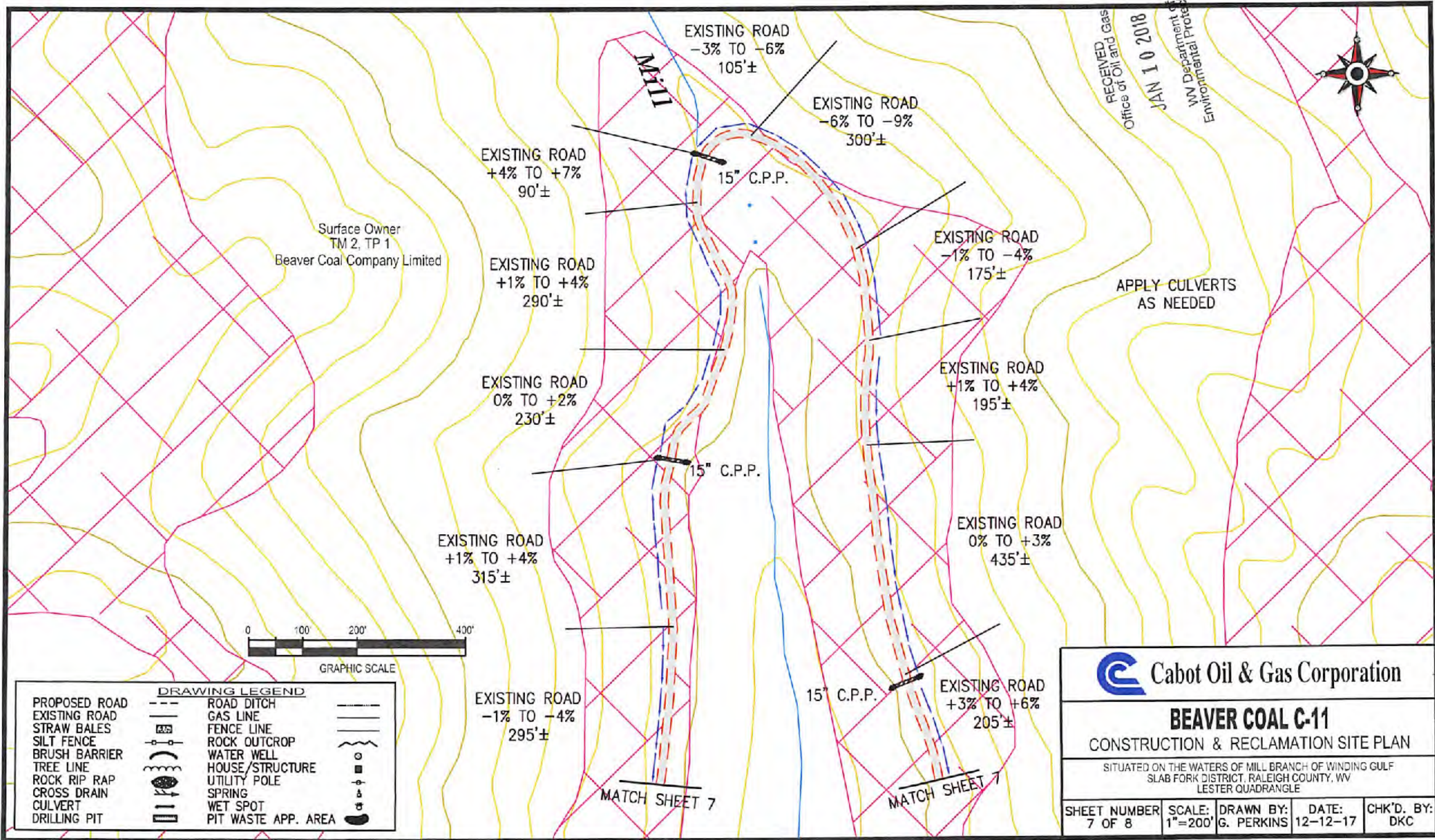
**BEAVER COAL C-11**

CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF MILL BRANCH OF WINDING GULF  
SLAB FORK DISTRICT, RALEIGH COUNTY, WV  
LESTER QUADRANGLE

SHEET NUMBER 6 OF 8	SCALE: 1"=200'	DRAWN BY: G. PERKINS	DATE: 12-12-17	CHK'D. BY: DKC
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81-00919f



Surface Owner  
TM 2, TP 1  
Beaver Coal Company Limited

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Office of Oil and Gas  
JAN 10 2018  
WV Department of  
Environmental Protection



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

Cabot Oil & Gas Corporation

**BEAVER COAL C-11**  
CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF MILL BRANCH OF WINDING GULF  
SLAB FORK DISTRICT, RALEIGH COUNTY, WV  
LESTER QUADRANGLE

SHEET NUMBER 7 OF 8	SCALE: 1"=200'	DRAWN BY: G. PERKINS	DATE: 12-12-17	CHK'D. BY: DKC
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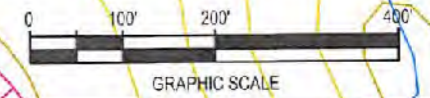
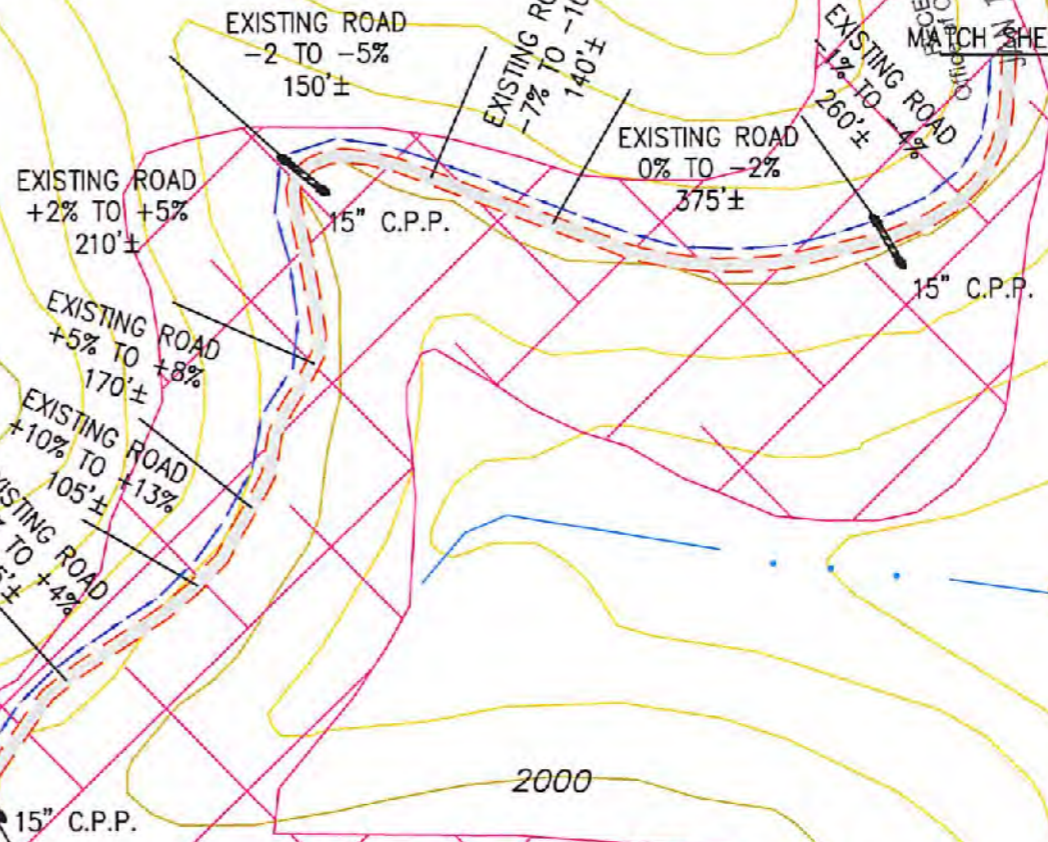
81-00919 P


Note:  
Tanks will be used instead of drilling pit(s),  
and may be adjusted to the most  
environmental safe site to meet the  
requirements of the WVDEP.

APPLY CULVERTS  
AS NEEDED

Surface Owner  
TM 2, TP 1  
Beaver Coal Company Limited

BEAVER COAL C-11  
API 081-00919



 Cabot Oil & Gas Corporation

### BEAVER COAL C-11

CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF MILL BRANCH OF WINDING GULF  
SLAB FORK DISTRICT, RALEIGH COUNTY, WV  
LESTER QUADRANGLE

SHEET NUMBER 8 OF 8	SCALE: 1"=200'	DRAWN BY: G. PERKINS	DATE: 12-12-17	CHK'D. BY: DKC
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DRAWING LEGEND	
PROPOSED ROAD	ROAD DITCH
EXISTING ROAD	GAS LINE
STRAW BALES	FENCE LINE
SILT FENCE	ROCK OUTCROP
BRUSH BARRIER	WATER WELL
TREE LINE	HOUSE/STRUCTURE
ROCK RIP RAP	UTILITY POLE
CROSS DRAIN	SPRING
CULVERT	WET SPOT
DRILLING PIT	PIT WASTE APP. AREA

RECEIVED  
Department of Environmental Protection  
November 10 2018

**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 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 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.

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 CROSS DRAINS OR WATER BARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION 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 WVDEP.

**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.

ROAD GRADE (%)	DISTANCE (FT)
1	400
2	250
5	135
10	80
15	60
20	45

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



**DRAWING LEGEND**

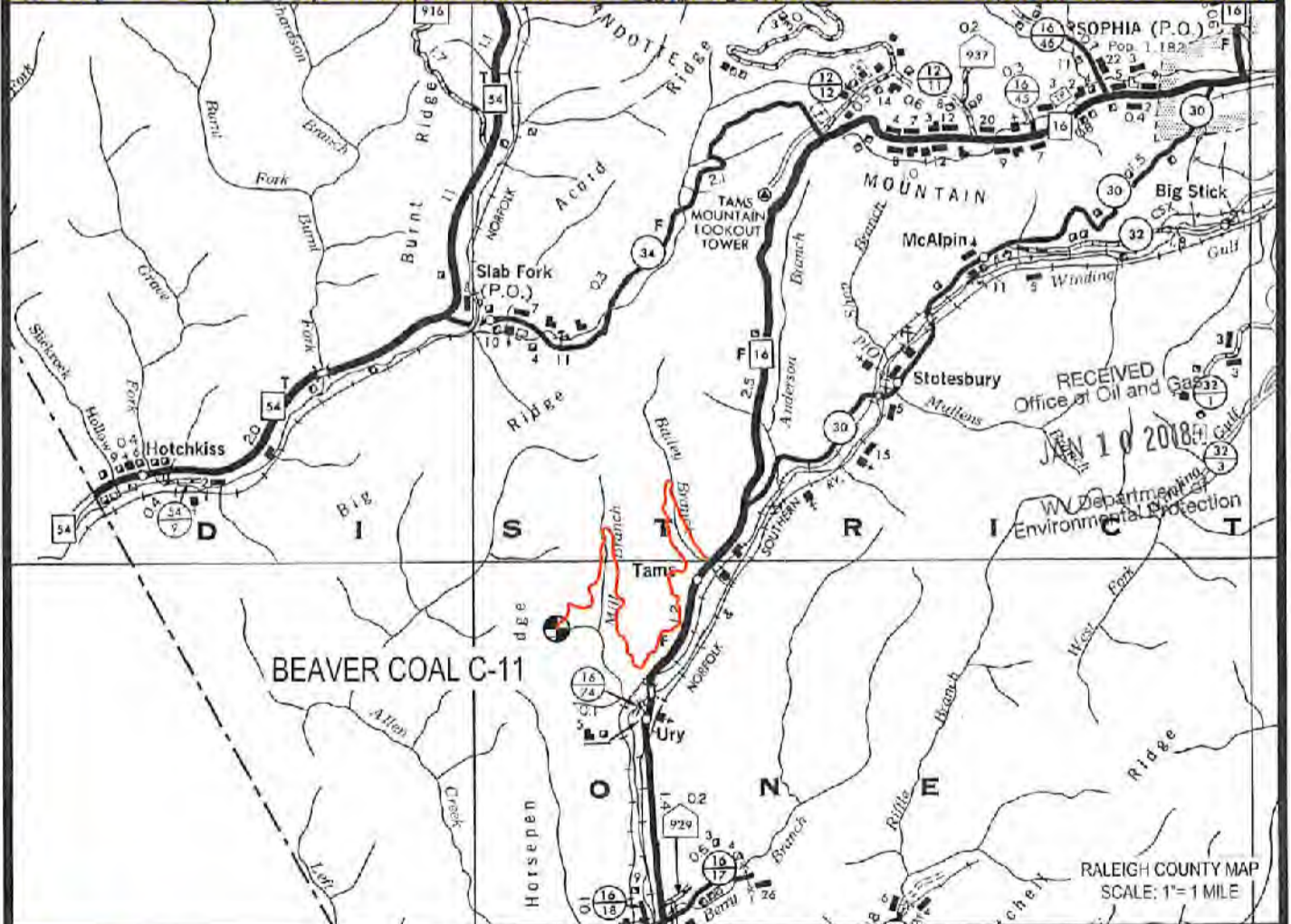
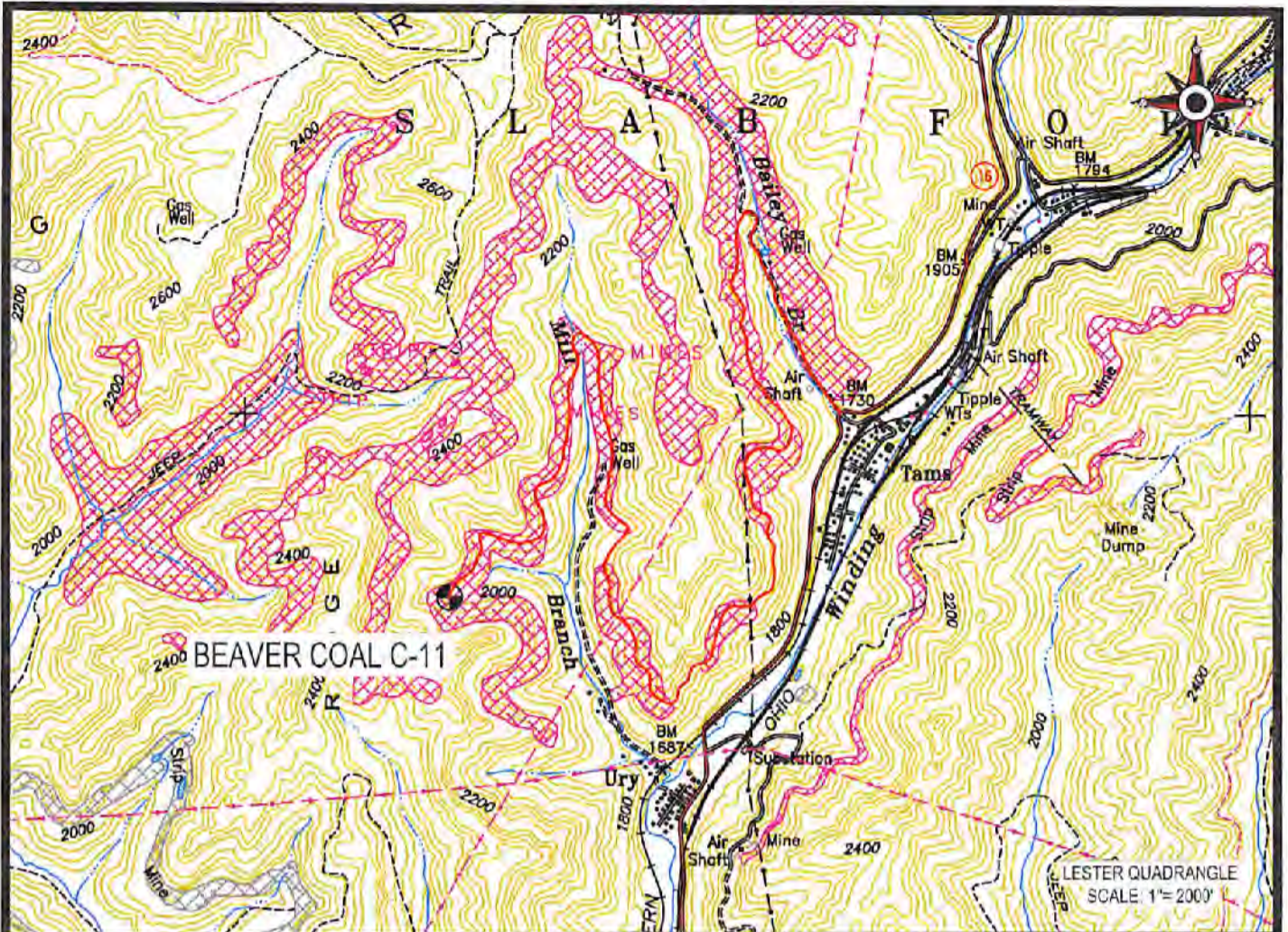
- PROPOSED ROAD
- EXISTING ROAD
- STRAW BALES
- SILT FENCE
- BRUSH BARRIER
- TREE LINE
- ROCK RIP RAP
- CROSS DRAIN
- CULVERT
- DRILLING PIT
- ROAD DITCH
- GAS LINE
- FENCE LINE
- ROCK OUTCROP
- WATER WELL
- HOUSE/STRUCTURE
- UTILITY POLE
- SPRING
- WET SPOT
- PIT WASTE APP. AREA

**DRIVING DIRECTIONS FOR BEAVER COAL C-11**

- 1.) FROM INTERSTATE 64/77, EXIT 42, IN BECKLEY, WV, DRIVE SOUTHWEST ON STATE ROUTE 16 AND 97 FOR 3.5 MILES± TO SOPHIA, WV.
- 2.) TURN RIGHT AND CONTINUE WEST ON STATE ROUTE 16 AND 54 FOR 6.5 MILES± TO THE BEGINNING OF THE EXISTING ACCESS ROAD LOCATED ON THE RIGHT-HAND SIDE OF THE ROAD.
- 3.) FROM THE AFOREMENTIONED SITE, FOLLOW THE EXISTING ROAD FOR APPROXIMATELY 3.7 MILES± TO THE EXISTING WELL SITE AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

04/13/2018





 Cabot Oil & Gas Corporation

**BEAVER COAL C-11**  
LOCATION MAP



**CUNNINGHAM**

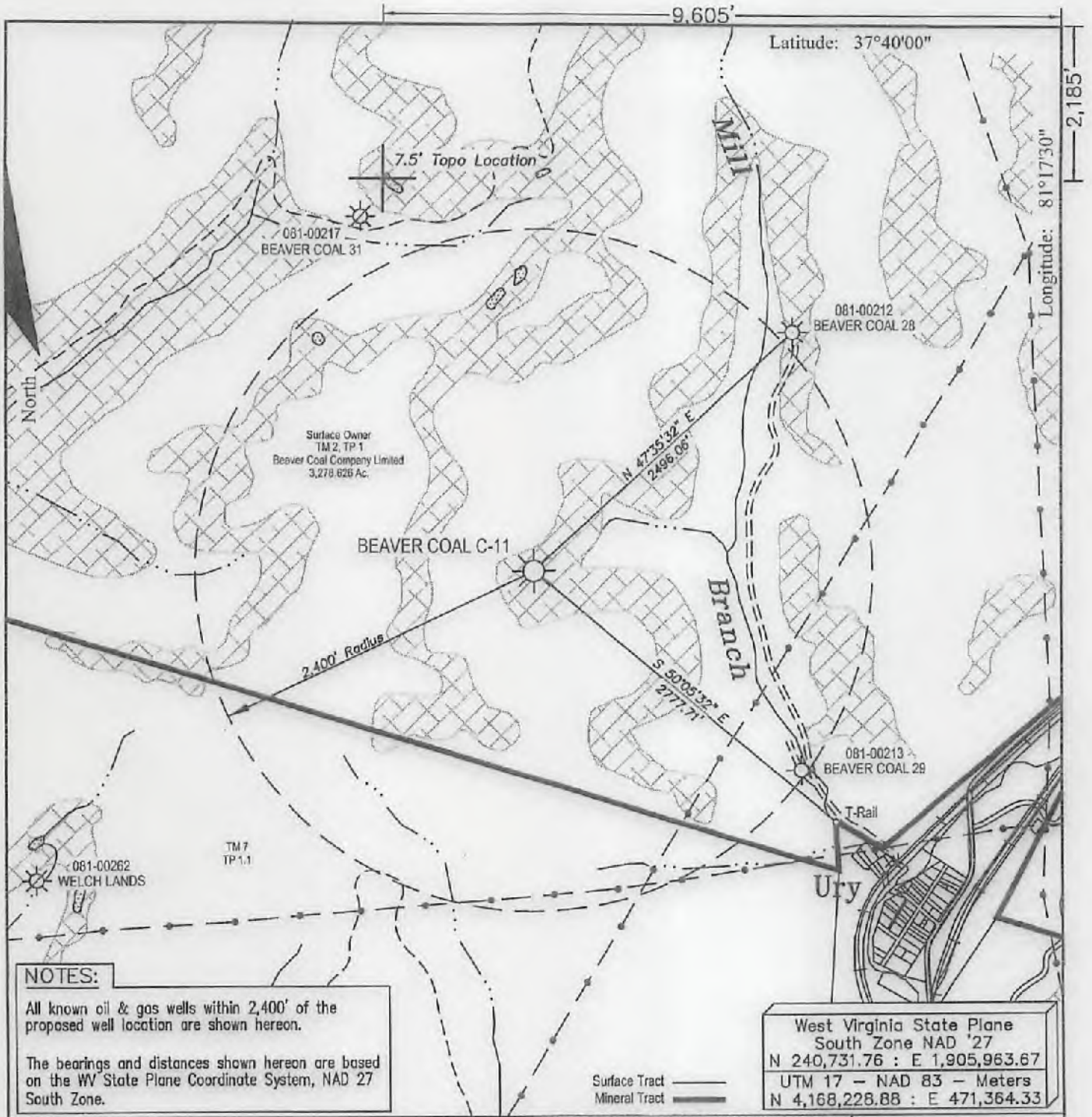
LAND SURVEYING & MAPPING SERVICES, LLC

- 5213 STEPHEN WAY •
- CROSS LANES, WEST VIRGINIA 25313 •
- VOICE (304) 561-4199 • FAX (304) 776-0703 •
- E MAIL ADDRESS • DKCUNNINGHAM@SUDDENLINK.NET •

LOCATED ON THE WATERS OF MILL BRANCH  
OF WINDING GULF  
SLAB FORK DISTRICT, RALEIGH COUNTY, WV  
LESTER QUADRANGLE

04/13/2018

PROJECT NO. CABOT	DWG. NO. BEAVER COAL C-11 LOC
DATE: 12-12-17	SCALE: AS NOTED
DRAWN BY: G. PERKINS	CHK'D BY: D.K.C.
FILE: C:\PROJECT FOLDER\CABOT	



**NOTES:**

All known oil & gas wells within 2,400' of the proposed well location are shown hereon.

The bearings and distances shown hereon are based on the WV State Plane Coordinate System, NAD 27 South Zone.

West Virginia State Plane  
South Zone NAD '27  
N 240,731.76 : E 1,905,963.67  
UTM 17 - NAD 83 - Meters  
N 4,168,228.88 : E 471,364.33

FILE #:  
DRAWING #: Beaver Coal C-11  
SCALE: 1" = 1000'  
MINIMUM DEGREE OF ACCURACY: 1 : 2,500  
PROVEN SOURCE OF ELEVATION: Global Positioning System (GPS)

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIROMENTAL PROTECTION.

Signed: \_\_\_\_\_  
R.P.E.: \_\_\_\_\_ L.L.S.: 1993



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304



DATE: December 8, 2017  
OPERATOR'S WELL #: Beaver Coal C-11  
API WELL #: 47 081 00919 P  
STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: Mill Branch of Winding Gulf ELEVATION: 2,050.75'  
COUNTY/DISTRICT: Raleigh / Slab Fork QUADRANGLE: Lester  
SURFACE OWNER: Beaver Coal Company, Limited ACREAGE: 3,278.626  
OIL & GAS ROYALTY OWNER: Beaver Coal Company, Limited ACREAGE: 3,400.00  
LEASE #: 47-0615 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_  
TARGET FORMATION: \_\_\_\_\_ ESTIMATED DEPTH: \_\_\_\_\_  
WELL OPERATOR Cabot Oil & Gas Corp. DESIGNATED AGENT Phillip Hill  
Address 2000 Park Lane, Suite 300 Address 29 Starbuck Lane  
City Pittsburgh State PA Zip Code 15275 City Saulsville State WV Zip Code 25876

04/13/2018