



**west virginia** department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

October 07, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8101369, issued to CABOT OIL & GAS CORPORATION, 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: C-62  
Farm Name: BEAVER COAL CO.  
**API Well Number: 47-8101369**  
**Permit Type: Plugging**  
Date Issued: 10/07/2015

## 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.

8101369P

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Location: Elevation 2,292.22' Watershed Shockley Branch of Millers Camp Branch  
District Town County Raleigh Quadrangle Lester

6) Well Operator Cabot Oil & Gas Corporation 7) Designated Agent Phillip Hill  
Address 2000 Park Lane, Suite 300 Address Cabot Oil & Gas Corporation  
Pittsburgh, PA 15275 900 Lee St. E, Ste. 1500 Huntington Sq.  
Charleston, WV 25301

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Gary Kennedy Name Contractor Services, Inc.  
Address P.O. Box 268 Address 929 Charleston Road  
Nimitz, WV 25978 Spencer, WV 25276

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

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SEP 14 2015  
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 *Gary Kennedy* Date 9/10/15

10/09/2015



# BEAVER COAL C-62

## API # 47 – 081 – 01369

### PLUGGING PROCEDURE

#### Current Configuration

LTD @ 4042' KB

Elevation – 2305'

20" conductor @ 22' KB, not cemented

13-3/8" – 48# R-2 casing @ 505' KB, cemented & grouted to surface

9-5/8" – 26# LS casing @ 833' KB, cemented to surface

4 1/2" – 10.5# M-60 casing @ 4016' KB w/ TOC @ 2350'

2-3/8" – EUE tubing @ 2918' KB

Sunbury Shale perms: 3800' – 3810'

Weir Shale perms: 3600' – 3620'

Middle Big Lime perms: 2946' – 2956'

Upper Big Lime perms: 2782' – 2792'

Open mine @ 465' – 468'

Workable Coal @ 431' – 433'

Fresh water @ 177', 330', 430', & 530'

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Environmental Protection

#### PROCEDURE

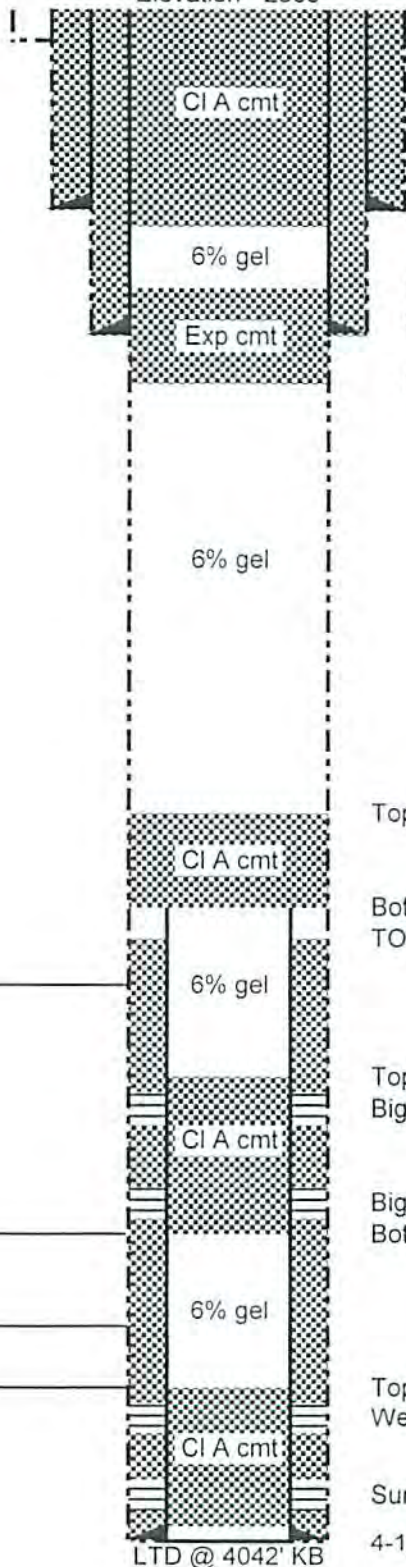
1. Contact Pineville District Office a minimum of 48 hours prior to starting work.
2. Contact state inspector a minimum of 24 hours prior to starting work.
3. MIRU service rig and blow down well.
4. Lay 2" line from wellhead to pit/tank and stake down securely. Vent 4-1/2" x 9-5/8" annulus.
5. Unpack wellhead and ensure tubing is free and can be pulled.
6. Run rig tools to determine well TD and note any fluid level.
7. Lower tubing to 3820' with 29 joints of tubing.
8. MIRU Cementing Company.
9. Pump 25 sacks of Class A cement for cement plug 1 from 3820' to 3500'.
10. Displace with 13-1/2 bbls of 6% Gel.
11. Pull tubing up to 3000' and pump 30 sacks of Class A cement for cement plug 2 from 3000' to 2600'.
12. Displace with 10 bbls of 6% Gel.
13. POOH with tubing and let cement plug set for a minimum of eight hours.
14. Run freepoint and cut 4 1/2" casing where free. Estimate ±2270'.
15. Pick up casing 1 jt and pump 25 bbls of 6% Gel followed by 45 sacks of Class A cement for cement plug 3 from 2270' to 2050'.
16. Displace with 32 1/2 bbls of 6% Gel.
17. Pull casing up to 870' and pump 45 cubic feet of expanding cement for cement plug 4 from 870' to 770'.
18. Displace with 12 bbls of 6% Gel.
19. Pull casing up to 550' and pump 210 sacks of Class A cement for cement plug 5 from 550' to surface.
20. TOOH with casing and lay down.
21. RDMO Cement company.
22. Place monument as required by law on top of well bore.
23. Reclaim well site.

10/09/2015

Beaver Coal C-62  
API 47-081-01369  
PROPOSED CONFIGURATION  
Elevation - 2305'

Fresh water @ 177',  
330', 430', & 530'

Coal @ 431' -433' &  
465' - 468' (open)  
*Exp. cont. ?*



22" Conductor @ 21' KB

13 3/8" - 48# R-2 casing @ 505' KB  
Cemented & grouted to surface  
Bottom of cmt plug 5 @ 550'

Top of cmt plug 4 @ 780'  
9 5/8" - 26# LS casing @ 833' KB  
Cemented to surface  
Bottom of cmt plug 4 @ 880'

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Top of cmt plug 3 @ ±2050'

Bottom of cmt plug 3 @ ±2270'  
TOC @ 2350' KB

2484'

Top of cmt plug 2 @ 2600'  
Big Lime Perforations @ 2782'-2792'

BIG LIME

Big Lime Perforations @ 2946'-2956'  
Bottom of cmt plug 2 @ 3000'

3118'

Top of cmt plug 1 @ 3500'  
Weir Shale Perforations @ 3600'-3620'

WEIR

3350'

Sunbury Perforations @ 3800'-3810'

3410'

4-1/2" 10.5# M-60 casing @ 4016' KB

LTD @ 4042' KB

Schematic is not to scale

T. Ott 04/23/15

10/09/2015

1) Date September 3, 2015  
2) Operator's  
Well No. Beaver Coal C-62  
3) API Well No. 47-081 - 01369

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Location: Elevation 2,292.22' Watershed Shockley Branch of Millers Camp Branch  
District Town County Raleigh Quadrangle Lester

6) Well Operator Cabot Oil & Gas Corporation 7) Designated Agent Phillip Hill  
Address 2000 Park Lane, Suite 300 Address Cabot Oil & Gas Corporation  
Pittsburgh, PA 15275 900 Lee St. E, Ste. 1500 Huntington Sq.  
Charleston, WV 25301

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Gary Kennedy Name Contractor Services, Inc.  
Address P.O. Box 268 Address 929 Charleston Road  
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10) Work Order: The work order for the manner of plugging this well is as follows:  
**See Attached Sheet**

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

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Work order approved by inspector \_\_\_\_\_ Date SEP 16 2015

WV Department of Environmental Protection  
10/09/2015



# BEAVER COAL C-62

## API # 47 – 081 – 01369

### PLUGGING PROCEDURE

#### Current Configuration

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Upper Big Lime perms: 2782' – 2792'

Open mine @ 465' – 468'

Workable Coal @ 431' – 433'

Fresh water @ 177', 330', 430', & 530'

#### PROCEDURE

1. Contact Pineville District Office a minimum of 48 hours prior to starting work
2. Contact state inspector a minimum of 24 hours prior to starting work.
3. MIRU service rig and blow down well.
4. Lay 2" line from wellhead to pit/tank and stake down securely. Vent 4-1/2" x 9-5/8" annulus.
5. Unpack wellhead and ensure tubing is free and can be pulled.
6. Run rig tools to determine well TD and note any fluid level.
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8. MIRU Cementing Company.
9. Pump 25 sacks of Class A cement for cement plug 1 from 3820' to 3500'.
10. Displace with 13-1/2 bbls of 6% Gel.
11. Pull tubing up to 3000' and pump 30 sacks of Class A cement for cement plug 2 from 3000' to 2600'.
12. Displace with 10 bbls of 6% Gel.
13. POOH with tubing and let cement plug set for a minimum of eight hours.
14. Run freepoint and cut 4 1/2" casing where free. Estimate ±2270'.
15. Pick up casing 1 jt and pump 25 bbls of 6% Gel followed by 45 sacks of Class A cement for cement plug 3 from 2270' to 2050'.
16. Displace with 32 1/2 bbls of 6% Gel.
17. Pull casing up to 870' and pump 45 cubic feet of expanding cement for cement plug 4 from 870' to 770'.
18. Displace with 12 bbls of 6% Gel.
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21. RDMO Cement company.
22. Place monument as required by law on top of well bore.
23. Reclaim well site.

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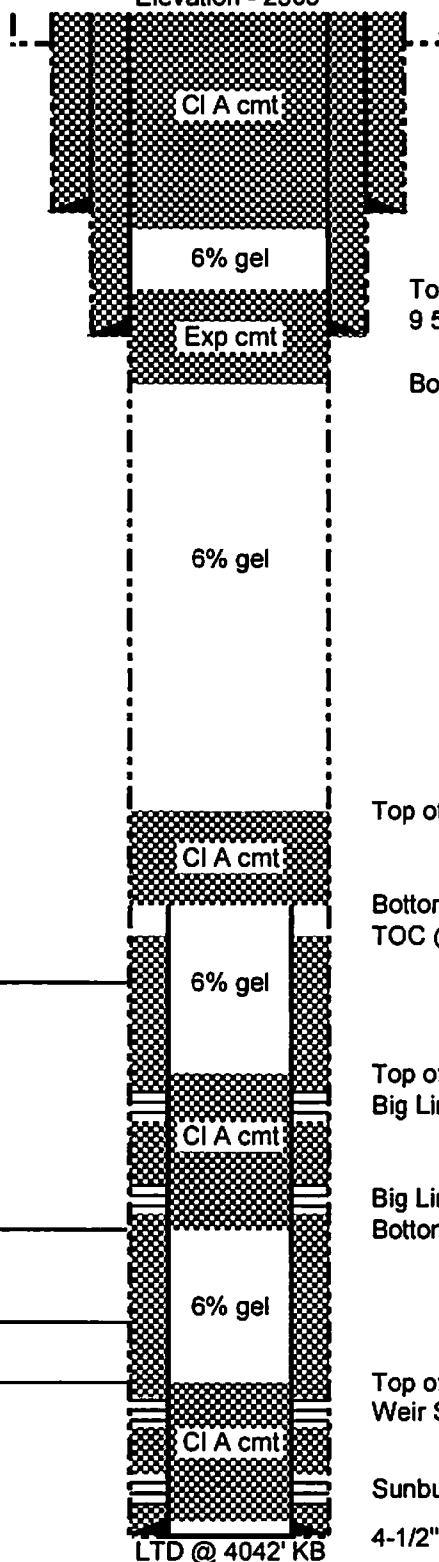
SEP 16 2015

10/09/2015  
WV Department of  
Environmental Protection

**Beaver Coal C-62**  
API 47-081-01369  
PROPOSED CONFIGURATION  
Elevation - 2305'

Fresh water @ 177',  
330', 430', & 530'

Coal @ 431' -433' &  
465' - 468' (open)



22" Conductor @ 21' KB

13 3/8" - 48# R-2 casing @ 505' KB  
Cemented & grouted to surface  
Bottom of cmt plug 5 @ 550'

Top of cmt plug 4 @ 780'  
9 5/8" - 26# LS casing @ 833' KB  
Cemented to surface  
Bottom of cmt plug 4 @ 880'

Top of cmt plug 3 @ ±2050'

Bottom of cmt plug 3 @ ±2270'  
TOC @ 2350' KB

2484'

BIG LIME

Top of cmt plug 2 @ 2600'  
Big Lime Perforations @ 2782'-2792'

3118'

Big Lime Perforations @ 2946'-2956'  
Bottom of cmt plug 2 @ 3000'

WEIR

3350'

3410'

Top of cmt plug 1 @ 3500'  
Weir Shale Perforations @ 3600'-3620'

Sunbury Perforations @ 3800'-3810'  
4-1/2" 10.5# M-60 casing @ 4016' KB  
Gas

LTD @ 4042' KB

Schematic is not to scale

T. On: 04/23/15

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WR-35

Date March 1, 2006  
API # 47- 081 - 01369

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Well Operator's Report of Well Work

Farm Name: Beaver Coal Company Operator Well No.: Beaver Coal C-62

LOCATION: Elevation: 2305' Quadrangle: Lester  
District: Town County: Raleigh  
Latitude: 6400' feet South of 37° DEG. 45' MIN. 00" SEC.  
Longitude: 8100' feet West of 81° DEG. 15' MIN. 00" SEC.

Company: Cabot Oil & Gas Corporation  
900 Lee Street East, Suite 500  
Charleston, WV 25301

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
22"	21'	21'	NA
13-3/8"	505'	505'	445
9-5/8"	833'	833'	393
4-1/2"		4016'	200
2-3/8"		2919'	NA

Agent: Thomas S. Liberatore  
Inspector: Richard S. Campbell  
Permit Issued: 7/25/2005  
Well Work Commenced: October 10, 2005  
Well Work Completed: November 7, 2005  
Verbal Plugging: \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_  
Total Depth (feet) 4042'  
Fresh Water Depths (ft) 177', 330', 430', 530'  
Salt Water Depths (ft) NONE REPORTED  
Is coal being mined in area (Y/N)? YES  
Coal Depths (ft) 431-433'; 465-468' (open)

OPEN FLOW DATA

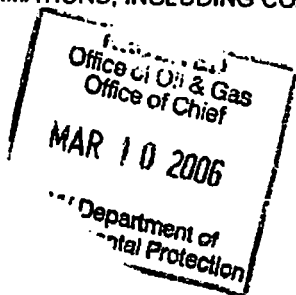
**Producing Formation** SUNBURY LOWER WEIR SHALE Pay Zone 3800'-3810'  
Depth (ft) 3600'-3620'  
Gas: Initial Open Flow TSTM MCF/d Oil: Initial Open Flow 0 Bbl/d  
Final Open Flow 0 MCF/d Oil: Final Open Flow 0 Bbl/d  
Time of open flow between initial and final tests 8 Hours  
Static rock pressure 250 psig surface pressure after 2512 Hours  
**Second Producing Formation** MIDDLE LIME UPPER BIG LIME Pay Zone 2946'-2956'  
Depth (ft) 2782'-2792'  
Gas: Initial Open Flow TSTM MCF/d Oil: Initial Open Flow 0 Bbl/d  
Final Open Flow 285 (COMMINGLED) MCF/d Oil: Final Open Flow 0 Bbl/d  
Time of open flow between initial and final tests 8 Hours  
Static rock pressure 250 psig surface pressure after 2512 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 SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE

For: CABOT OIL & GAS CORPORATION

By: [Signature] Drilling Superintendent

Date: 3/3/06



Lester 3

RAL-1369

STAGE	PERFS	ACID 15% HCl	FOAM	SAND (lbs)	NITROGEN (scf)	BDP	ATP	MTP	ISIP
1-Sunbury Fault	3800-3810 (40)	250 gal	75Q	45,215	474.000	2675	1736	1790	1400
2-Lower Weir Shale	3600-3620'	350 gal	75Q	45,510	422.000	1588	1648	1776	1520
3-Middle Lime	2946-2956 (40)	500 gal	75Q	29,600	438.000	2331	2549	2622	2426
4-Upper Big Lime	2782-2792 (40)	500 gal	75Q	30,400	468.000	2333	2938	3128	2930

FORMATION	TOP	BOTTOM	REMARKS
Silt/Shale	Surface	431	
Coal	431	433	
Silt/Shale	433	465	
Coal	465	468	OPEN
Silt/Shale	468	525	
Shale	525	744	
RV, Sandstone	744	790	
Silt/Shale	790	851	
Avis, Limestone	851	898	
Silt/Shale	898	1474	
Maxton	1474	1545	
Shale	1545	2252	
Little Lime	2252	2379	
Pencil Cave	2379	2484	
Big Lime	2484	3118	
Pocono	3118	3350	
Weir	3350	3410	
Silt/Shale	3410	3772	
Berea	3772	3775	
Silt/Shale	3775	4045	TD

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Department of  
Energy and Environmental Protection

10/09/2015

1) Date: September 3, 2015  
2) Operator's Well Number  
Beaver Coal C-62  
3) API Well No.: 47 - 081 - 01369

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Beaver Coal Company, Limited</u>	Name <u>See Attached Sheet</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>
_____	<u>Beckley, WV 25801</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 268</u>	Name <u>None of Record</u>
<u>Nimitz, WV 25978</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 *Kenneth L. Marcum*  
 Its: Regulatory Supervisor  
 Address 2000 Park Lane, Suite 300  
Pittsburgh, PA 15275  
 Telephone 412-249-3850

**COMMONWEALTH OF PENNSYLVANIA**  
 Notarial Seal  
 Constance C. Carden, Notary Public  
 McDonald Boro, Washington County  
 My Commission Expires Nov. 16, 2017  
 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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 Office of Oil and Gas  
 SEP 16 2015

Subscribed and sworn before me this 3rd day of September 2015  
Constance C. Carden Notary Public  
 My Commission Expires November 16, 2017

**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).



81013697

COAL OPERATORS  
BEAVER COAL C-62  
API #47-081-01369

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

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

Kentucky Fuel Corporation  
818 N. Eisenhower Dr.  
Beckley, WV 25801

Newgate Development of Beckley  
818 N. Eisenhower Dr.  
Beckley, WV 25801

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WV Department of  
Environmental Protection  
10/09/2015

81013667

**SURFACE OWNER WAIVER**

Operator's Well  
Number

Beaver Coal C-62

**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 57<sup>th</sup> 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 your comments.

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

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,  
ETC.

_____	Date _____	Name _____	RECEIVED
Signature		By _____	Office of Oil and Gas
		Its _____	Date _____
		Signature _____	SEP 16 2015
			Date 10/09/2015

WV Department of  
Environmental Protection

API No.	<u>47-081-01369</u>
Farm Name	<u>Beaver Coal</u>
Well No.	<u>C-62</u>

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_ / owner \_\_\_\_ / lessee \_\_\_\_ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_

By: \_\_\_\_\_

Its \_\_\_\_\_

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WV Department of  
Environmental Protection  
**10/09/2015**



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) Shockley Branch of Millers Camp Branch 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 *Task? [Signature]*)

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.

RECEIVED  
Office of Oil and Gas

Company Official Signature [Signature]

Company Official (Typed Name) Kenneth L. Marcum

SEP 14 2015

Company Official Title Regulatory Supervisor

WV Department of  
Environmental Protection

Subscribed and sworn before me this 3rd day of September, 2015

Constance C. Carden

COMMONWEALTH OF PENNSYLVANIA  
Notary Public Notarial Seal  
Constance C. Carden, Notary Public  
McDonald Boro, Washington County  
My Commission Expires Nov. 16, 2017  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

My commission expires 11/16/2017

10/09/2015



**Cabot Oil & Gas Corporation**

Proposed Revegetation Treatment: Acres Disturbed 2.0 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

Seed Type lbs/acre

(Grain Rye - 100) (Red Clover - 5) (Fescue - 40)

(Grain Rye - 100) (Red Clover - 5) (Fescue - 40)

(Annual Rye - 20) (White Clover - 5)

(Annual Rye - 20) (White Clover - 5)

(Perennial Rye - 10) (Alta Sweet Clover - 5)

(Perennial Rye - 10) (Alta Sweet Clover - 5)

(Yellow Clover - 5) (Birdsfoot Trefoil - 10)

(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.

Plan Approved by:



Comments:

Title:

Inspector

Date:

9/10/15

Field Reviewed?

( ) Yes

( ) No

RECEIVED  
Office of Oil and Gas

SEP 14 2015

WV Department of  
Environmental Protection  
10/09/2015



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) Shockley Branch of Millers Camp Branch 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)

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

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Company Official Signature Kenneth L. Marcum

Company Official (Typed Name) Kenneth L. Marcum

Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 3rd day of September, 2015

Constance C. Carden

My commission expires 11/16/2017

RECEIVED  
Office of Oil and Gas  
SEP 18 2015  
COMMONWEALTH OF PENNSYLVANIA  
Notary Public  
Notarial Seal  
Constance C. Carden, Notary Public  
McDonald Boro, Washington County, PA  
My Commission Expires Nov. 16, 2017  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES



**Cabot Oil & Gas Corporation**

Proposed Revegetation Treatment: Acres Disturbed 2.0 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
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(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.

Plan Approved by: \_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

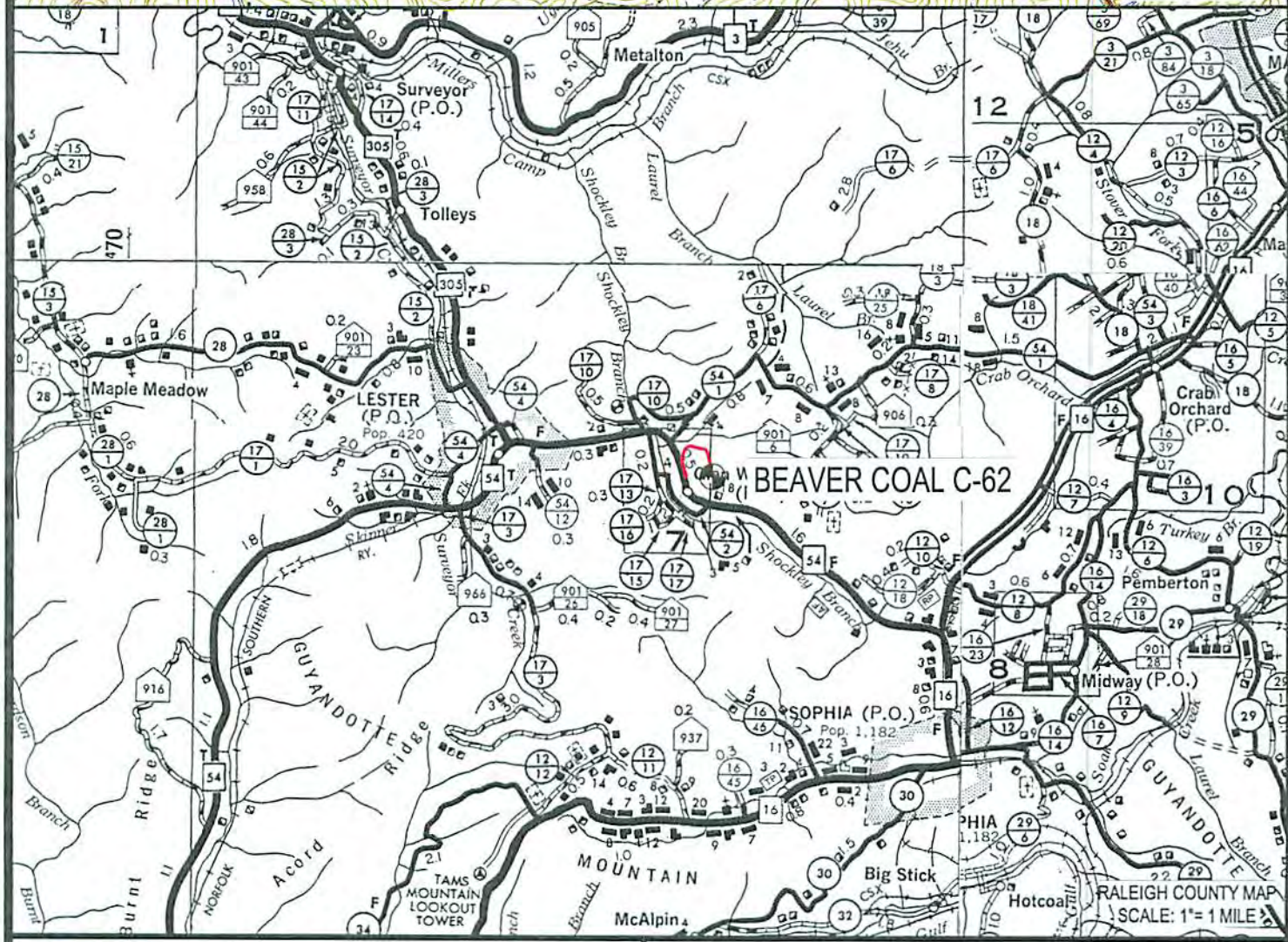
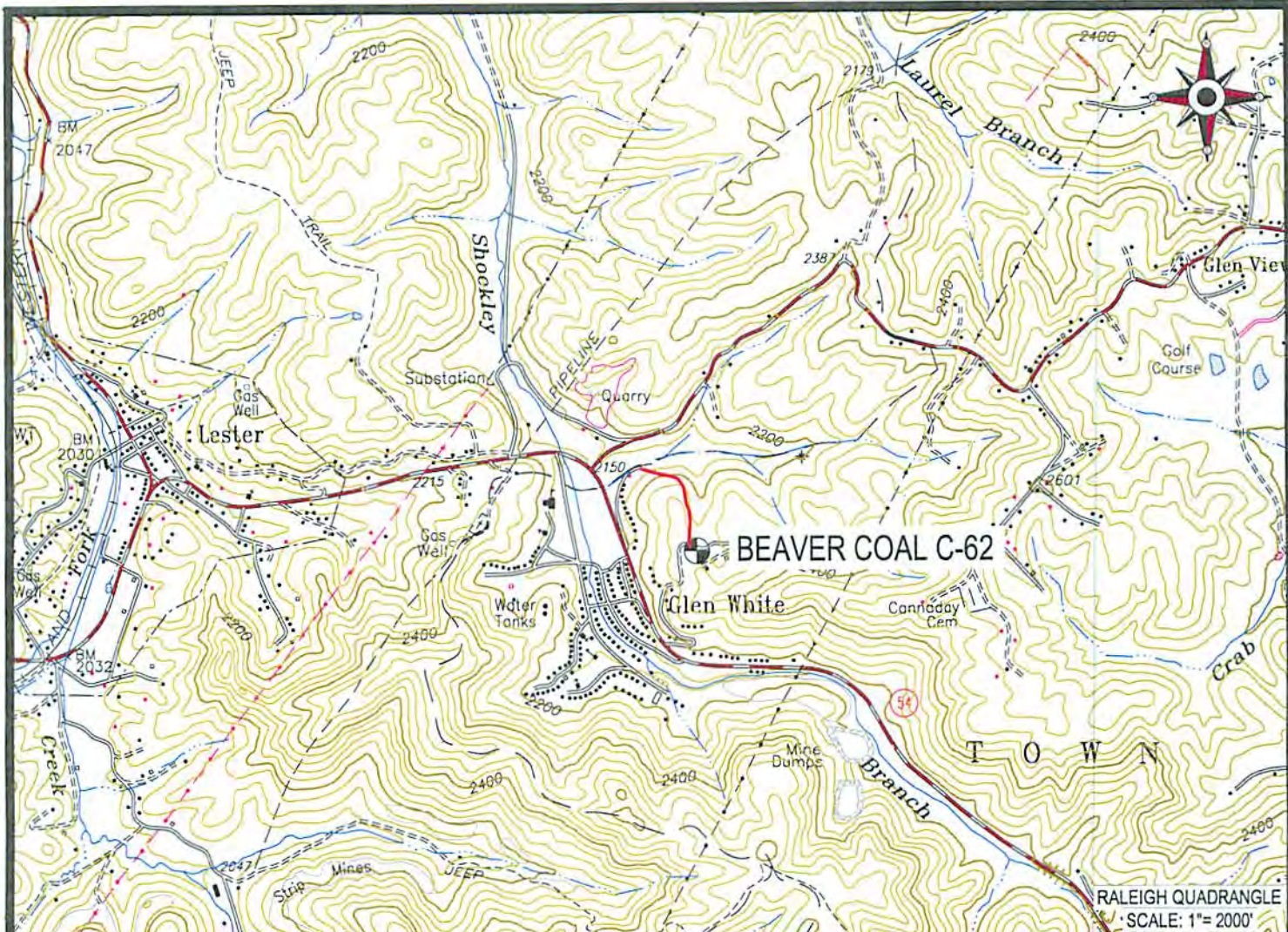
Field Reviewed? ( ) Yes ( ) No

RECEIVED  
Office of Oil and Gas

SEP 16 2015

WV Department of  
Environmental Protection 10/09/2015





 Cabot Oil & Gas Corporation



**CUNNINGHAM**

LAND SURVEYING & MAPPING SERVICES, LLC  
 • 5213 STEPHEN WAY •  
 • CROSS LANES, WEST VIRGINIA 25313 •  
 • VOICE (304) 561-4129 • FAX (304) 776-0703 •  
 • E-MAIL ADDRESS • DKCUNNINGHAM@SUDDENLINK.NET •

**BEAVER COAL C-62**  
 LOCATION MAP

10/09/2015

LOCATED ON THE WATERS OF SHOCKLEY BRANCH  
 OF MILLER CAMP BRANCH  
 TOWN DISTRICT, RALEIGH COUNTY, WV  
 LESTER 7.5' QUADRANGLE

PROJECT NO. CABOT	DWG. BEAVER COAL C-62 LOC
DATE: 04-29-14	SCALE: AS NOTED
DRAWN BY: J. JONES	CHK'D BY: D.K.C.
	FILE: C:\PROJECT FOLDER\CABOT



**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



1-800-245-4848

**DRAWING LEGEND**

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

Office of Oil and Gas  
SEP 10 2015

**DRIVING DIRECTIONS FOR BEAVER COAL C-62**

- 1.) FROM PINEVILLE, W.VA DRIVE NORTH ON STATE ROUTE 97 FOR 22.7 MILES± TO LESTER, WV.
- 2.) FROM LESTER, WV TURN RIGHT AND CONTINUE ON STATE ROUTE 97 AND 54 FOR APPROXIMATELY 1.2 MILES± TO WEST VIRGINIA STREET LOCATED ON THE LEFT-HAND SIDE OF THE ROAD.
- 3.) TURN RIGHT AND FOLLOW THE ROAD FOR APPROXIMATELY 0.2 MILES± TO THE BEGINNING OF THE EXISTING ACCESS ROAD.
- 4.) FROM THE AFOREMENTIONED SITE, FOLLOW THE EXISTING ROAD FOR APPROXIMATELY 0.2 MILES± TO THE EXISTING WELL SITE AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

10/09/2015

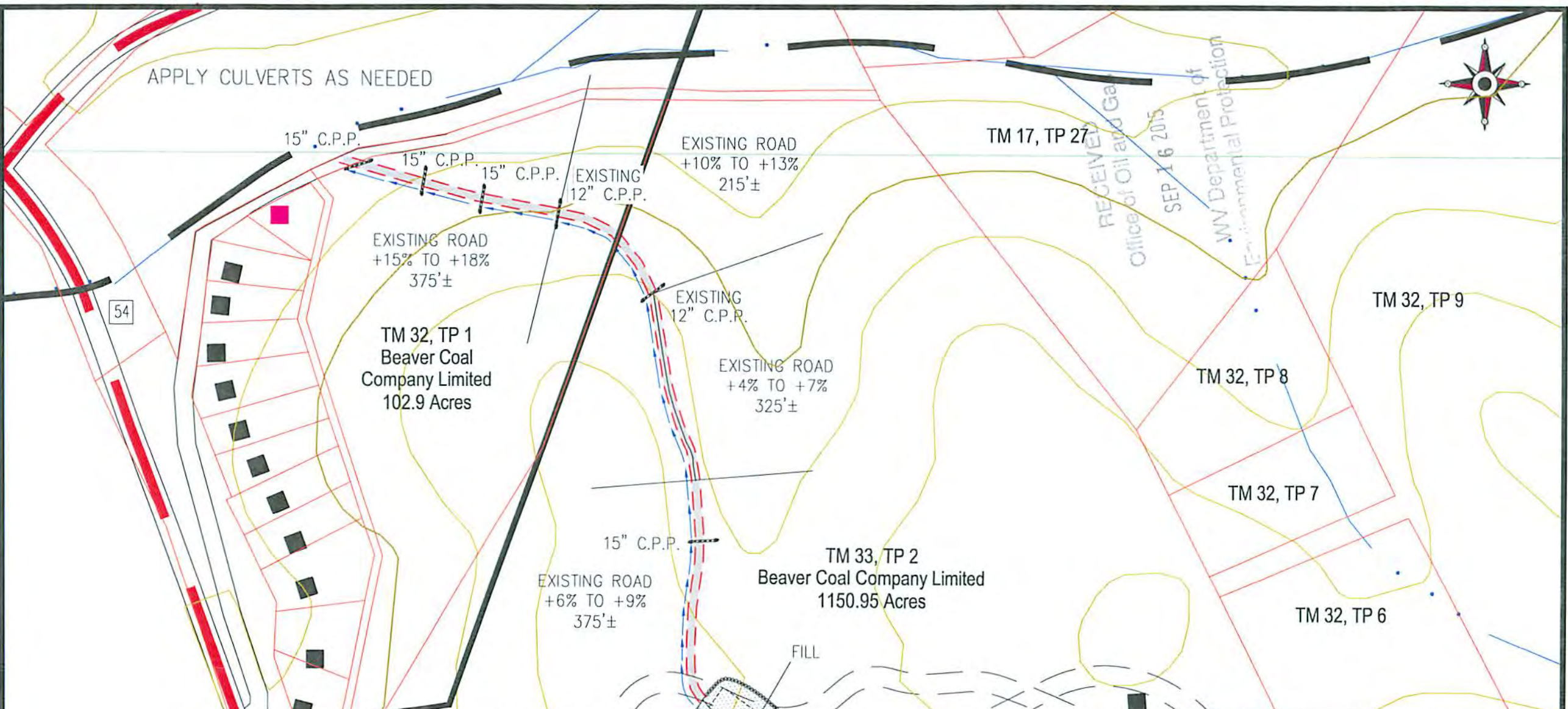


8/01/3697

APPLY CULVERTS AS NEEDED



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Office of Oil and Gas  
SEP 16 2015  
WV Department of  
Environmental Protection



TM 32, TP 1  
Beaver Coal  
Company Limited  
102.9 Acres

TM 33, TP 2  
Beaver Coal Company Limited  
1150.95 Acres

TM 32, TP 8

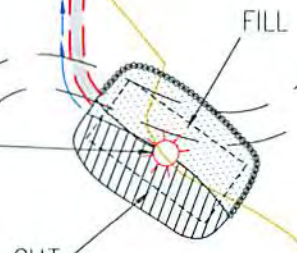
TM 32, TP 7

TM 32, TP 6

TM 17, TP 27

TM 32, TP 9

BEAVER COAL C-62  
API 081-01369



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.



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

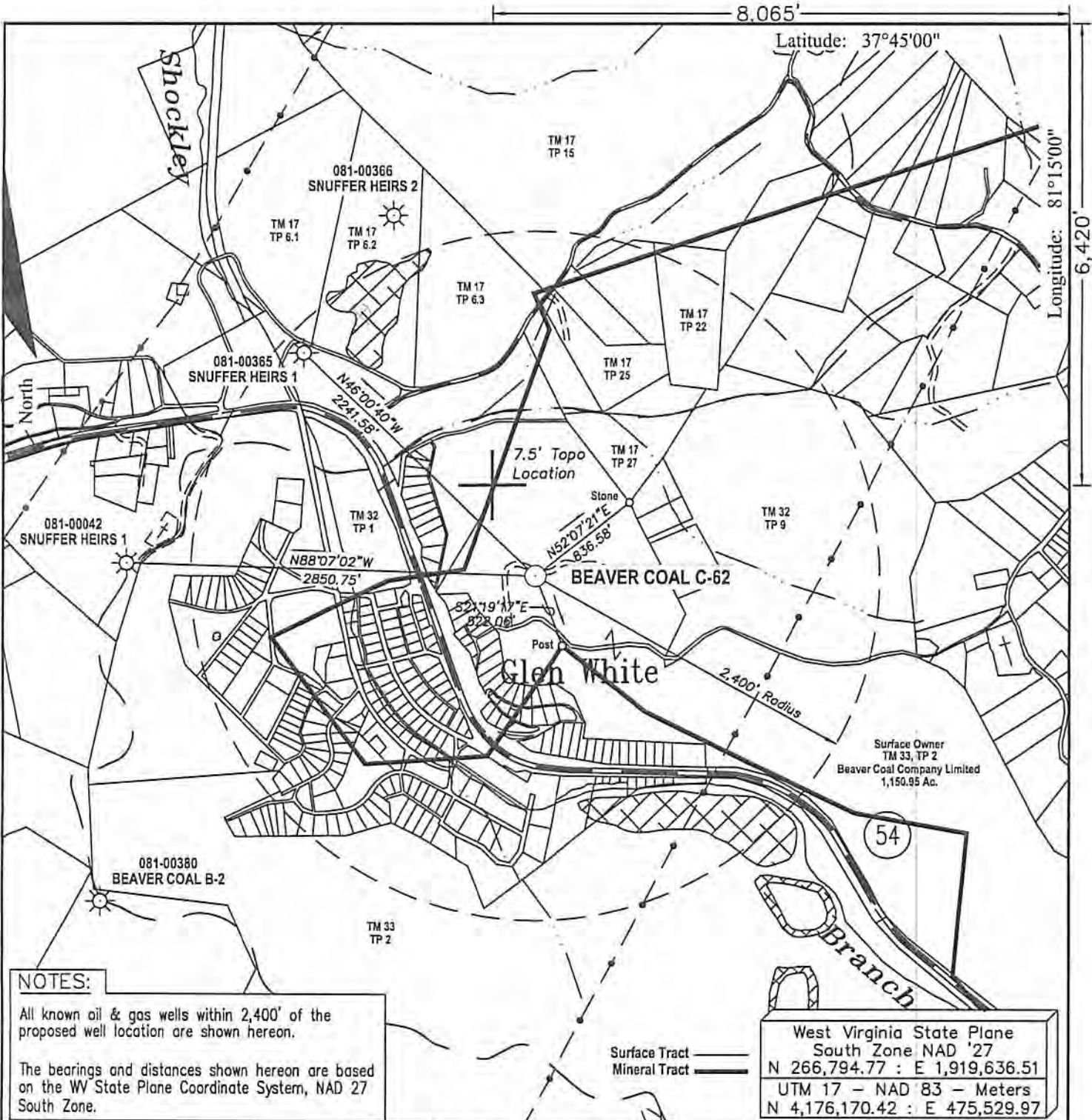
 Cabot Oil & Gas Corporation

### BEAVER COAL C-62 CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF SHOCKLEY BRANCH OF MILLER CAMP BRANCH  
TOWN DISTRICT, RALEIGH COUNTY, WV  
LESTER 7.5' QUADRANGLE

SHEET NUMBER 1 OF 1	SCALE: 1"=200'	DRAWN BY: J.M. JONES	DATE: 04-29-14	CHK'D. BY: DKC
------------------------	-------------------	-------------------------	-------------------	-------------------





**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 266,794.77 : E 1,919,636.51  
UTM 17 - NAD 83 - Meters  
N 4,176,170.42 : E 475,529.97

FILE #:  
DRAWING #: Beaver Coal C-62  
SCALE: 1" = 1000'  
MINIMUM DEGREE OF ACCURACY: 1 : 12,729  
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: Don K. Cunningham  
R.P.E.: \_\_\_\_\_ L.L.S.: 701



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



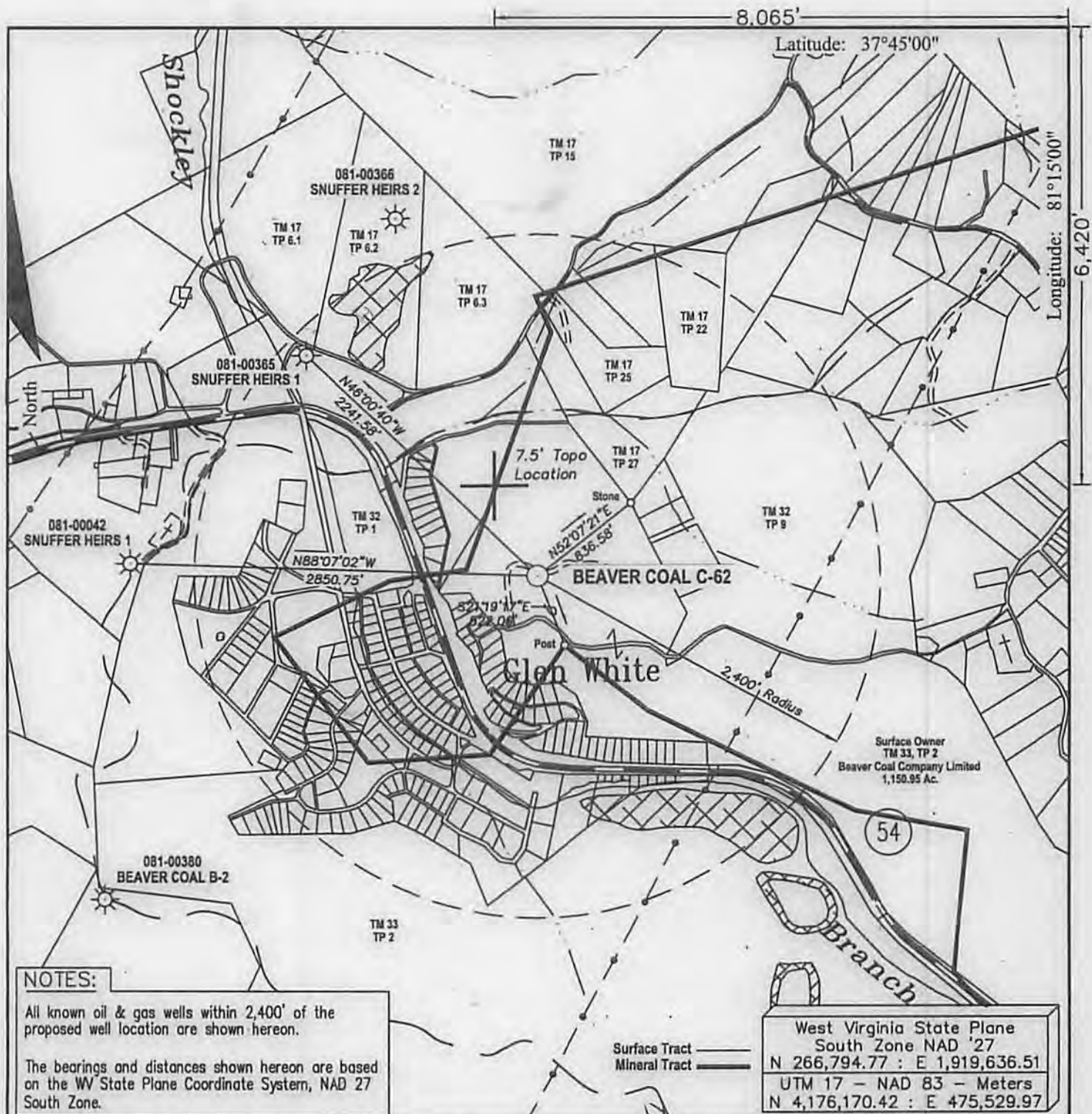
DATE: April 15, 2014  
OPERATOR'S WELL #: Beaver Coal C-62  
API WELL #: 47 STATE 081 COUNTY 01369 PERMIT P

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

WATERSHED: Shockley Branch of Millers Camp Branch ELEVATION: 2,292.22'  
COUNTY/DISTRICT: Raleigh / Town QUADRANGLE: Lester  
SURFACE OWNER: Beaver Coal Company, Limited ACREAGE: 1,150.95  
OIL & GAS ROYALTY OWNER: Beaver Coal Company, Limited ACREAGE: 1,029.28  
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 Whitney Johnson  
Address Five Penn Center West, Suite 401 Address P.O. Box 450  
City Pittsburgh State PA Zip Code 15276 City Glasgow State WV Zip Code 25086

10/09/2015





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West Virginia State Plane  
South Zone NAD '27  
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OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304



DATE: April 15, 2014  
OPERATOR'S WELL #: Beaver Coal C-62  
API WELL #: 47 081 01369 P  
STATE COUNTY PERMIT

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

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COUNTY/DISTRICT: Raleigh / Town QUADRANGLE: Lester

SURFACE OWNER: Beaver Coal Company, Limited ACREAGE: 1,150.95

OIL & GAS ROYALTY OWNER: Beaver Coal Company, Limited ACREAGE: 1,029.28

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 Whitney Johnson  
Address Five Penn Center West, Suite 401 Address P.O. Box 450  
City Pittsburgh State PA Zip Code 15276 City Glasgow State WV Zip Code 25086

10/09/2015