



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

June 19, 2014

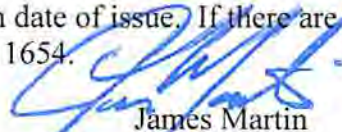
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8100209, 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: BEAVER 25
Farm Name: BEAVER COAL COMPANY
API Well Number: 47-8100209
Permit Type: Plugging
Date Issued: 06/19/2014

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.

8100209P

WW-4B
Rev. 2/01

1) Date April 30, 2014
2) Operator's
Well No. Beaver Coal #25
3) API Well No. 47-081 - 00209

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 1,937.84' Watershed Bailey Branch of Winding Gulf off the Guyandotte River
District Slab Fork County Raleigh Quadrangle Lester

6) Well Operator Cabot Oil & Gas Corporation 7) Designated Agent Whitney Johnson
Address Five Penn Center West, Ste. 401 Address P.O. Box 450
Pittsburgh, PA 15276 Glasgow, WV 25086

8) Oil and Gas Inspector to be notified Name Gary Kennedy
Address P.O. Box 268
Nimitz, WV 25978
9) Plugging Contractor Name Shreve's Well Service
Address 3473 Triplett Road
Spencer, WV 25276

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

Received

MAY - 6 2014

Office of Oil and Gas
WV Dept. 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 5/5/14

06/20/2014

Beaver Coal #25 API # 47 - 081 - 00209 PLUGGING PROCEDURE

Current Configuration

TD @ 1756'
 13-3/8" 48# conductor @ 35' grouted at surface
 10-3/4" - 32.75# casing @ 212' on shoe grouted at surface
 8-5/8" - 24# casing @ 997' pulled in July 1966
 7" - 23# casing @ 991' on Hookwall packer
 2-3/8" - 4.6# tubing @ 1736' with cave catcher @ 1673'
 Fresh water @ 45' & 266'
 Coal @ 266' - 268'
 Gas show @ 336'
 Maxton @ 1675 - 1756' with gas show @ 1722' - 1751'
 Maxton shot from 1719' to 1751'
 Ravencliff @ 1017' - 1089' with gas show @ 1036'

Received

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Office of Oil and Gas
WV Dept. of Environmental Protection

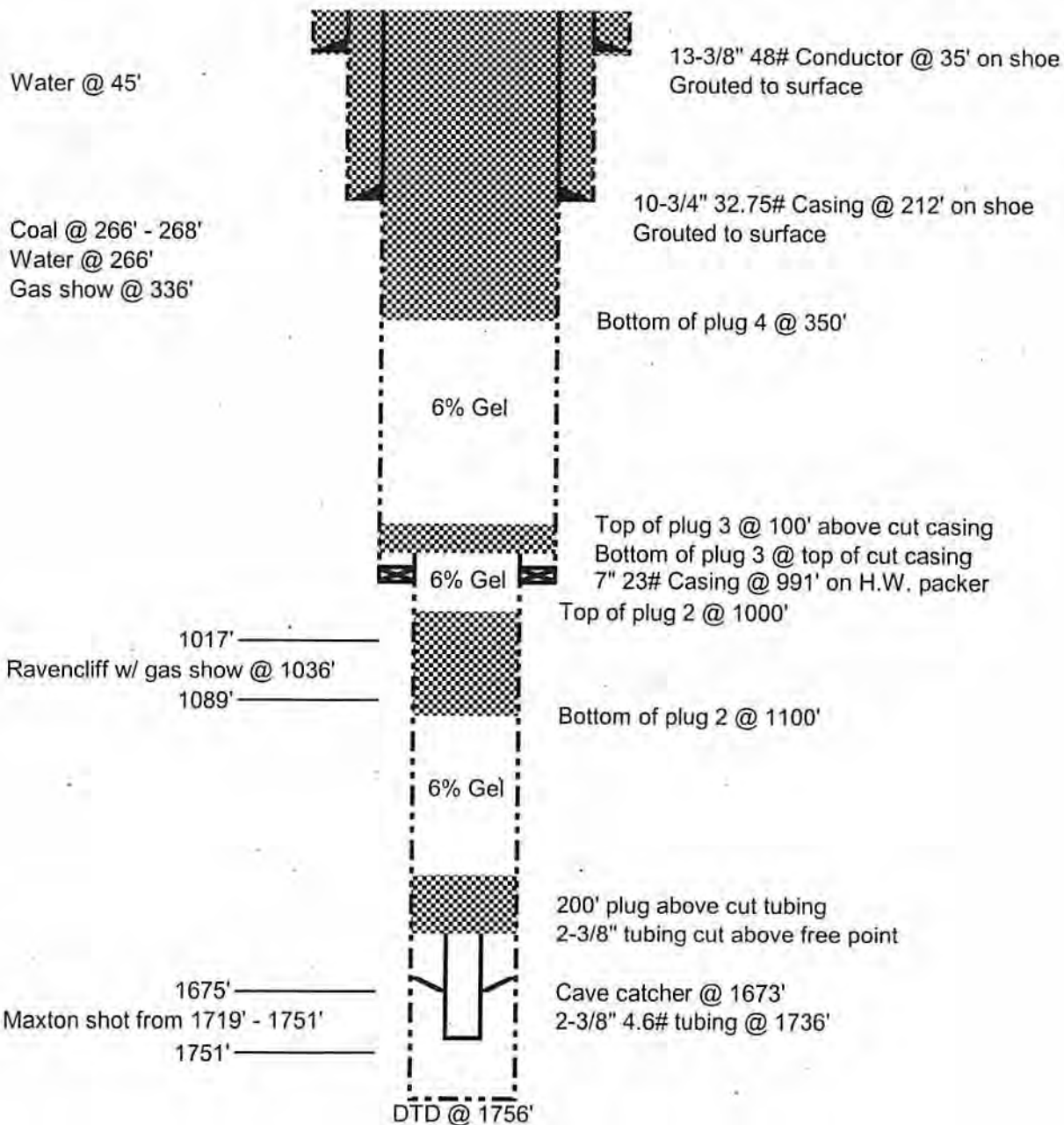
PROCEDURE

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 pit/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
8. TIH with 2³/₈" work string to 1710' or to top of cut tubing.
9. MIRU Cement Company and pump 50 bbls 6% Gel.
10. Pump 55 sks of Class A cement for plug 1 of 200'.
11. Displace w/ 5 bbls of 6% Gel.
12. Pull work string up to 1100' and pump 27 sks of Class A cement for plug 2 from 1100' to 1000'.
13. Displace w/ 3 1/2 bbls of 6% Gel.
14. TOOH with work string.
15. Release packer and pull 7" casing. If unable to pull go to step 21.
16. TIH with 2³/₈" work string to 950'.
17. Pump 30 bbls 6% Gel followed by 45 sks of Class A cement for plug 3 from 950' to 850'.
18. Displace w/ 3 bbls of 6% Gel.
19. Pull work string up to 350' and pump 165 sks of Class A cement for plug 4 from 350' to surface.
20. TOOH with work string and lay down. Go to step 27.
21. If unable to pull 7", run freepoint, and cut above freepoint.
22. Pick up on 7" casing to pump cement plug.
23. MIRU Cement Company and pump 5 bbls 6% Gel followed by 45 sks of Class A cement for plug 3 of 100'.
24. Displace w/ 33 bbls of 6% Gel.
25. Pull 7" casing up to 350' and pump 165 sks of Class A cement for plug 4 from 350' to surface.
26. TOOH with 7" casing.
27. RDMO Cementing Company.
28. Place monument as required by law on top of well bore.
29. Reclaim well site.

[Signature]

06/20/2014

Beaver Coal #25
API 47-081-00209
PROPOSED CONFIGURATION



Schematic is not to scale

T. Ott 02/20/14

8100 209A



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Mullens

WELL RECORD

Permit No. RAL-209

Oil or Gas Well GAS
(KIND)

Company Godfrey L. Cabot, Inc.
 Address Charleston, West Virginia
 Farm Beaver Coal Corp. Acres 9400
 Location (waters) _____
 Well No. 25, Serial 1458 Elev. 1934
 District Slab Fork County Raleigh
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by Beaver Coal Corp.
 Address Beckley, W. Va.
 Drilling commenced July 18, 1956
 Drilling completed September 28, 1956
 Date Shot 9-27-56 From 1719 To 1751
 With 80 qts. nitroglycerin
 Open Flow /10ths Water in _____ Inch
 /10ths Merc. in _____ Inch
 Volume 3,753,000 Cu. Ft.
 Rock Pressure 480 lbs. 24 hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water 45', 266' feet feet
 Salt water _____ feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer <u>8"</u>
13	<u>35'</u>	<u>35'</u>	B.H.
10	<u>212'</u>	<u>212'</u>	Size of <u>8"</u>
8 1/4	<u>997'</u>	<u>997'</u>	
6 1/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 266 FEET 24 INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Gravel			0	34			
Blue Slate			34	73	Water	45	Hole full.
Sand			73	138			
Slate			138	176			
Broken Sand			176	206			
Slate			206	216			
Gray Lime			216	246			
Slate			246	256			
Sand			256	266	Water	266	Hole full.
COAL			266	268			
Slate & Shells			268	301			
Sand			301	310			
Gritty Lime			310	334			
Slate			334	338	Gas	336	Show.
Lime			338	346			
Sand			346	383			
Slate			383	386			
Sand			386	400			
Gritty Lime			400	418			
Slate			418	470			
Red Rock			470	515			
Slate			515	538			
Red Rock			538	545			
Sand			545	568			
Slate			568	585			
Sand			585	597			
Slate			597	605			
Sand			605	609			
Slate			609	625			
Red Rock			625	638			
Slate			638	680			
Sand			680	735			
Slate			735	737			
Sand			737	760			
Lime			760	775			
Slate & Shell			775	962			

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 WEST VIRGINIA
 DEPT. OF MINES
 OCT 1956
 06/20/2014

SK

Formation	Color	Hard or Soft	Top 9	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			962	1016			
Slate			1016	1017			
Sand RAVENCLIFF			1017	1089	Gas	1036	29 Mcf.
Slate			1089	1093			
Lime			1093	1132			
Slate			1132	1138			
Red Rock			1138	1184			
Lime			1184	1218			
Red Rock			1218	1225			
Lime			1225	1244			
Red Rock			1244	1274			
Lime			1274	1293			
Red Rock			1293	1300			
Lime			1300	1330			
Red Rock			1330	1344			
Lime			1344	1351			
Red Rock			1351	1374			
Lime, Gritty			1374	1436			
Slate & Shells			1436	1477			
Lime, Gritty			1477	1507			
Slate & Shells			1507	1510			
Sand			1510	1537			
Lime			1537	1560			
Slate & Shells			1560	1585			
Lime			1585	1590			
Red Rock			1590	1625			
Slate & Shells			1625	1671			
Lime			1671	1675			
MAXTON Sand			1675		Gas	1685-1731	174 Mcf.
					Gas	1735-1751	852 Mcf.
TOTAL DEPTH				1756			

Received

MAY - 6 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

06/20/2014

Date....., 19.....

APPROVED....., Owner

By.....
(Title)

SKK

WW-4A
Revised 6-07

1) Date: April 30, 2014
2) Operator's Well Number
Beaver Coal #25
3) API Well No.: 47 - 081 - 00209

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</u>	Name <u>Three Marie Highwall Mine, Newgate Development of Beckley, LLC</u>
Address <u>115 1/2 South Kanawha Street</u>	Address <u>818 N. Eisenhower Dr.</u>
<u>Beckley, WV 25801</u>	<u>Beckley, WV 25801</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Beaver Coal Company</u> ✓
	Address <u>115 1/2 South 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>Newgate Development of Beckley, LLC</u>
<u>Nimitz, WV 25978</u>	Address <u>818 N. Eisenhower Dr.</u>
Telephone <u>(304) 382-8402</u>	<u>Beckley, WV 25801</u> ✓

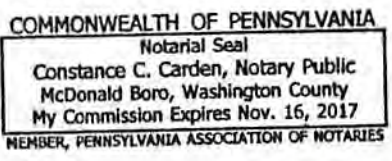
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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 Five Penn Center West, Ste. 401
Pittsburgh, PA 15276
 Telephone (412) 249-3850



Subscribed and sworn before me this 30th day of April, 2014
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.

8100209A

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MAY 1 2014
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Beaver 25 R/A

Sent To **Three Marie Highwall Mine**
Newgate Development of Beckley, LLC
818 N. Eisenhower Dr.
Beckley, WV 25801

PS Form 3800, August 2013

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PITTSBURGH PA 15244 MONTGOMERY BRANCH
MAY 1 2014
Postmark Here
Beaver 25 R/A

Sent To **Beaver Coal Company**
115 1/2 South Kanawha Street
Beckley, WV 25801

PS Form 3800, August 2013

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Office of Oil and Gas

MAY 05 2014

WV Department of
Environmental **06/20/2014**

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 307249

Watershed (HUC 10) 050701010101 - Bailey Br. of Winding Gulf Quadrangle Lester WV USGS 7 1/2 Series

Elevation 1937.84 County Raleigh District Slab Fork

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No XX

Will a pit be used for drill cuttings? Yes No XX *See*

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 _____)

Will closed loop system be used? yes

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. no drilling proposed - plugging only

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

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

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

-Landfill or offsite name/permit number? _____

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Office of Oil and Gas
WV Dept. of Environmental Protection

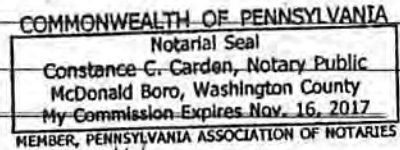
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 PS

Company Official Title North Region Regulatory Supervisor



Subscribed and sworn before me this 30th day of April, 2014

Constance C. Carden Notary Public

My commission expires November 16, 2017

06/20/2014

Form WW-9

Operator's Well No. Beaver Coal 25

Cabot Oil & Gas Corporation

Proposed Revegetation Treatment: Acres Disturbed 2.03 Prevegetation pH 6.35

Lime 2 Tons/acre or to correct to pH 7.0

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch pulp fiber at 1/2 to 3/4 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

Attach:
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Greg Kennedy*

Comments: _____

Received

MAY - 6 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Title: Inspector

Date: 5/5/14

Field Reviewed? () Yes () No

Cabot Oil & Gas Corporation Beaver Coal 25

TOPO SECTION OF:
United States Department of the Interior
Geological Survey - Lester 7½' Quadrangle

PROPOSED CULVERT INVENTORY (For Bid Purposes Only)

15' (Minimum) Culverts	none proposed
------------------------	---------------

Additional Culverts and/or other drainage structures and sediment control devices may be required by the WVDEP Oil & Gas Inspector. Operator is responsible for coordination with contractor and True Line regarding any changes or additions the State may require.

PROJECTED EARTHEN DISTURBANCE

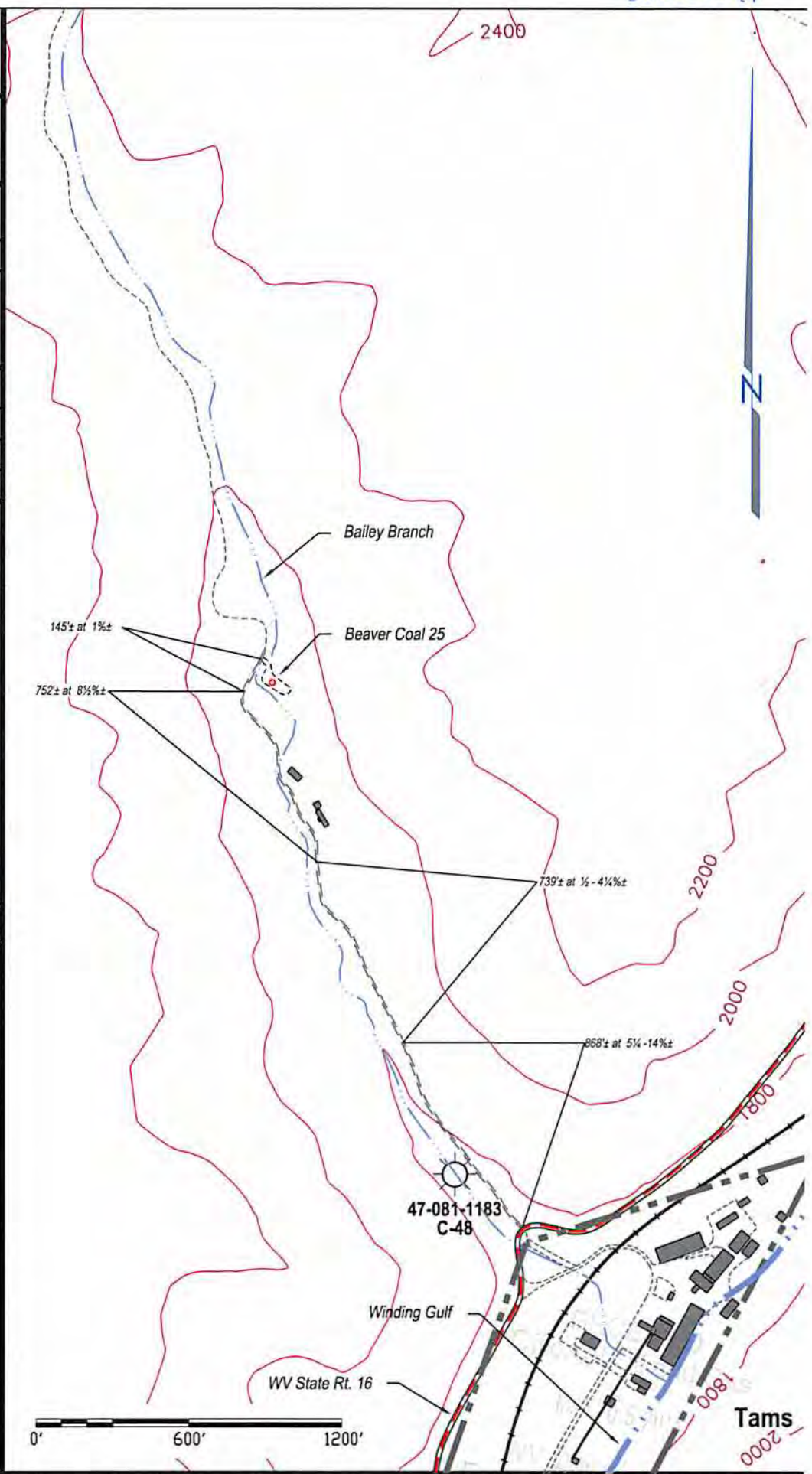
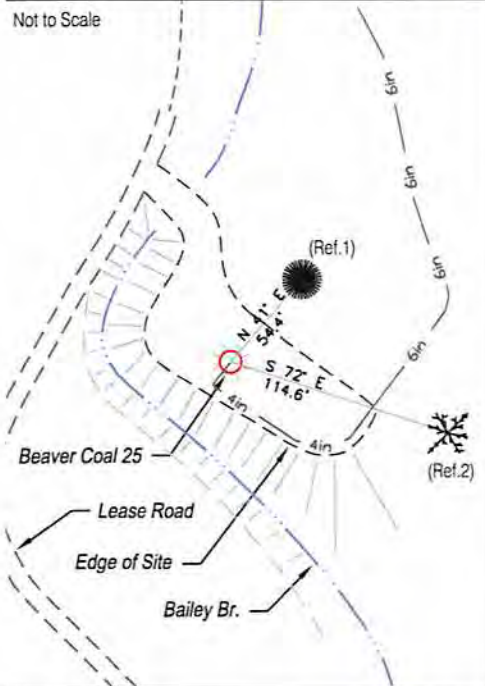
Well Location Site	0.28 Acres
Access Road	1.75 Acres
Approximate Total Disturbance	2.03 Acres

LEGEND

Proposed Road	
Existing Road	
Existing Culvert	
Proposed Culvert (15' Min. unless noted)	
Proposed Stream Crossing	
Cross Drain	
Diversion Ditch	
Silt Fence	
Brush Barrier	
Tree Line	
Road Ditch	
Gas Line	
Fence Line	
Water Well	
House/Structure	
Spring	
Wet Spot	

Detail Sketch for existing well Beaver Coal 25

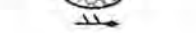

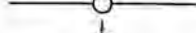
Not to Scale



GENERAL NOTES:

- 1.) THESE DRAWINGS ARE 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 UNFORSEEN CIRCUMSTANCES, THE AS-BUILT LOCATION OF THESE STRUCTURES MAY VARY SLIGHTLY FROM THE LOCATION SHOWN ON THE ATTACHED DRAWINGS.
- 2.) ALL ROADS SHOWN THEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES AND REQUIREMENTS OF THE WV DEP OIL & GAS EROSION AND SEDIMENT CONTROL MANUAL.
- 3.) ALL CULVERTS SHOWN ON THESE DRAWINGS ARE PROPOSED AND WILL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE NOTED.
- 4.) DITCHLINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL; HOWEVER, PORTIONS OF THE EXISTING ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.
- 5.) SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL STRUCTURES/MEASURES IN ADDITION TO THOSE SHOWN ON THE ATTACHED DRAWINGS WILL BE INSTALLED WHERE AND WHEN DEEMED NECESSARY. SUCH ADDITIONAL MEASURES MAY CONSIST OF SILT FENCES OR OTHER MEASURES AS OUTLINED IN THE EROSION AND SEDIMENT CONTROL MANUAL.
- 6.) SEDIMENT BASINS (TRAPS) WILL BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAIN INLETS AS REQUIRED IN THE WV-DEP OIL & 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.
- 7.) SEDIMENT BARRIERS OF EITHER WINDROWED BRUSH, FILTER FENCE ET CETERA WILL BE INSTALLED AND MAINTAINED BELOW THE OUTFALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DISCHARGE POINTS FROM EITHER THE ROADWAY OR SITE LOCATIONS.
- 8.) ALL NECESSARY TIMBER AND BRUSH WILL BE REMOVED FROM THE PROPOSED ROADWAY AND SITE LOCATIONS BY CLEARING AND GRUBBING ACTIVITIES. ANY MARKETABLE TIMBER WILL BE CUT AND STACKED TO THE SIDE OF THE ROADWAY OR REMOVED TO A STOCKPILE AREA. THE REMAINING TIMBER AND BRUSH WILL BE CUT AND WINDROWED BELOW THE OUTSLOPE OF THE CONSTRUCTION AREAS, TO BE UTILIZED AS A SEDIMENT BARRIER.
- 9.) SEPARATE PERMITS WILL BE OBTAINED FROM THE WV-DOT FOR ALL POINTS OF INGRESS-EGRESS FROM COUNTY/STATE ROADS. THESE INGRESS-EGRESS POINTS WILL BE MAINTAINED IN ACCORDANCE WITH CURRENT WV-DOT REGULATIONS. A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" OF CRUSHED STONE WILL BE CONSTRUCTED FOR A MINIMUM DISTANCE OF 50' FROM THE INGRESS-EGRESS POINTS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH CURRENT WV-DOT REGULATIONS.
- 10.) ALL CULVERTS SHOWN ON THESE DRAWINGS ARE TO BE CONSIDERED PERMANENT AND WILL REMAIN IN PLACE AFTER THE COMPLETION OF CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE. A STABILIZED OUTLET CONTROL DEVICE SUCH AS RIPRAP, NATURAL STONE, BRUSH, ETC. WILL BE INSTALLED BELOW THE OUTFALL OF ANY ROADWAY CULVERT(S) WHICH ARE NOT LOCATED IN A STREAM CHANNEL OR CREEK.
- 11.) PERMANENT CROSS DRAINS OR WATERBARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH THE AS-BUILT ROADWAY GRADES AND TABLE II-4 OF THE SEDIMENT AND EROSION CONTROL FIELD MANUAL.
- 12.) TEMPORARY SEEDING AND MULCHING WILL BE UTILIZED TO PROVIDE A VEGETATIVE COVER ON ALL DISTURBED AREAS I.E. ROADWAYS, STIE LOCATIONS, ROAD OR SITE OUTSLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES RESULTING FROM THE PROPOSED WELL.
- 13.) THE LOCATION OF DRILLING PIT(S) MAY BE ADJUSTED TO MINIMIZE ENVIRONMENTAL IMPACTS AND MEET THE REQUIREMENTS OF THE WV-DEP.

DRAWING LEGEND

- Proposed Road 
- Existing Road 
- 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 

SPACING OF CULVERTS BY GRADE

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

SPACING OF CROSS DRAINS BY GRADE

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

CONTRACTOR NOTE:

IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE SIZE/CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR EXCAVATION ACTIVITIES

WEST VIRGINIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS NOTICE IN DESIGN STAGE.

CALL 1-800-245-4848

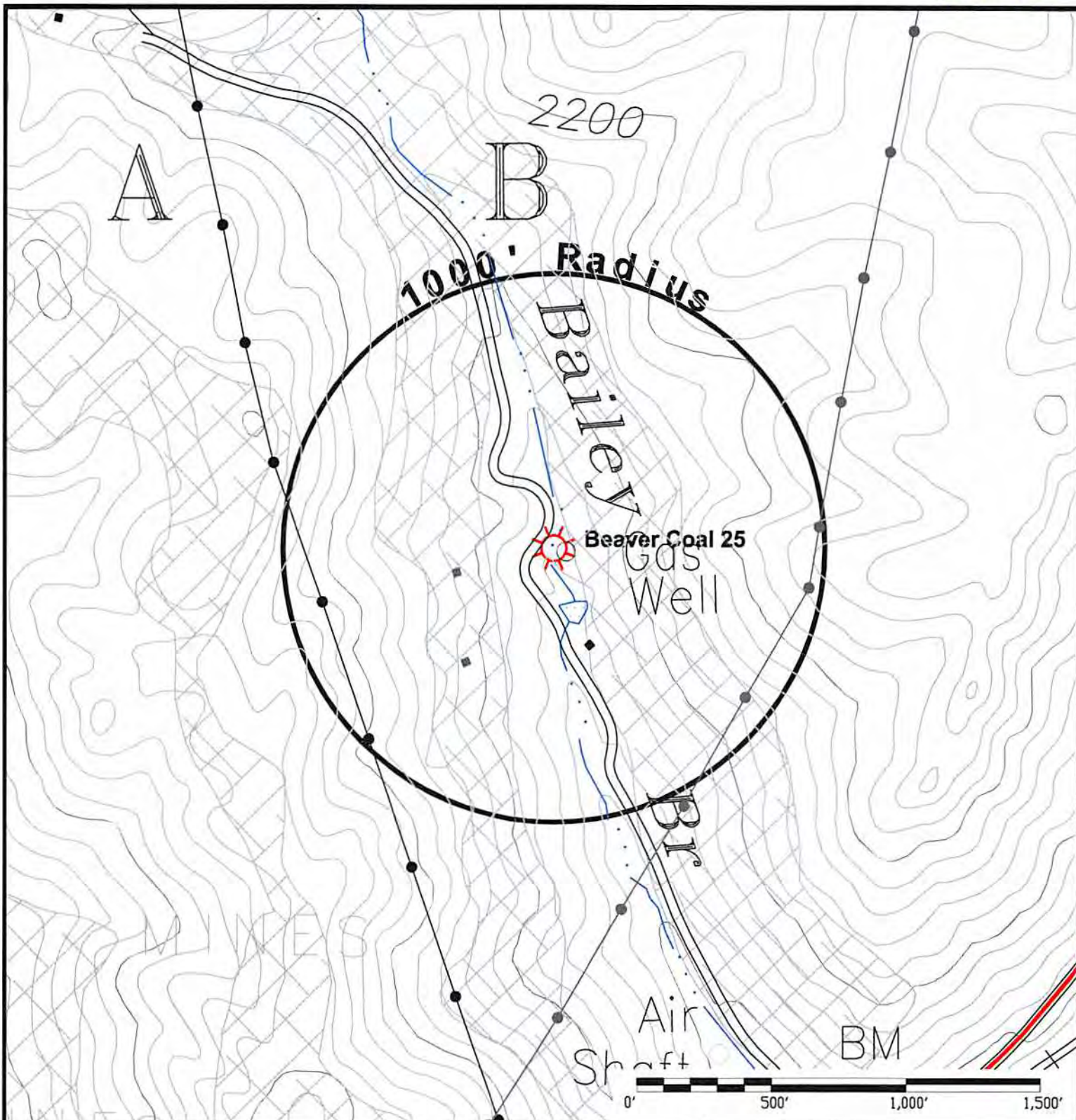
Office of Oil and Gas
WV Dept. of Environmental Protection



Beaver Coal 25

06/20/2014
December 10, 2013

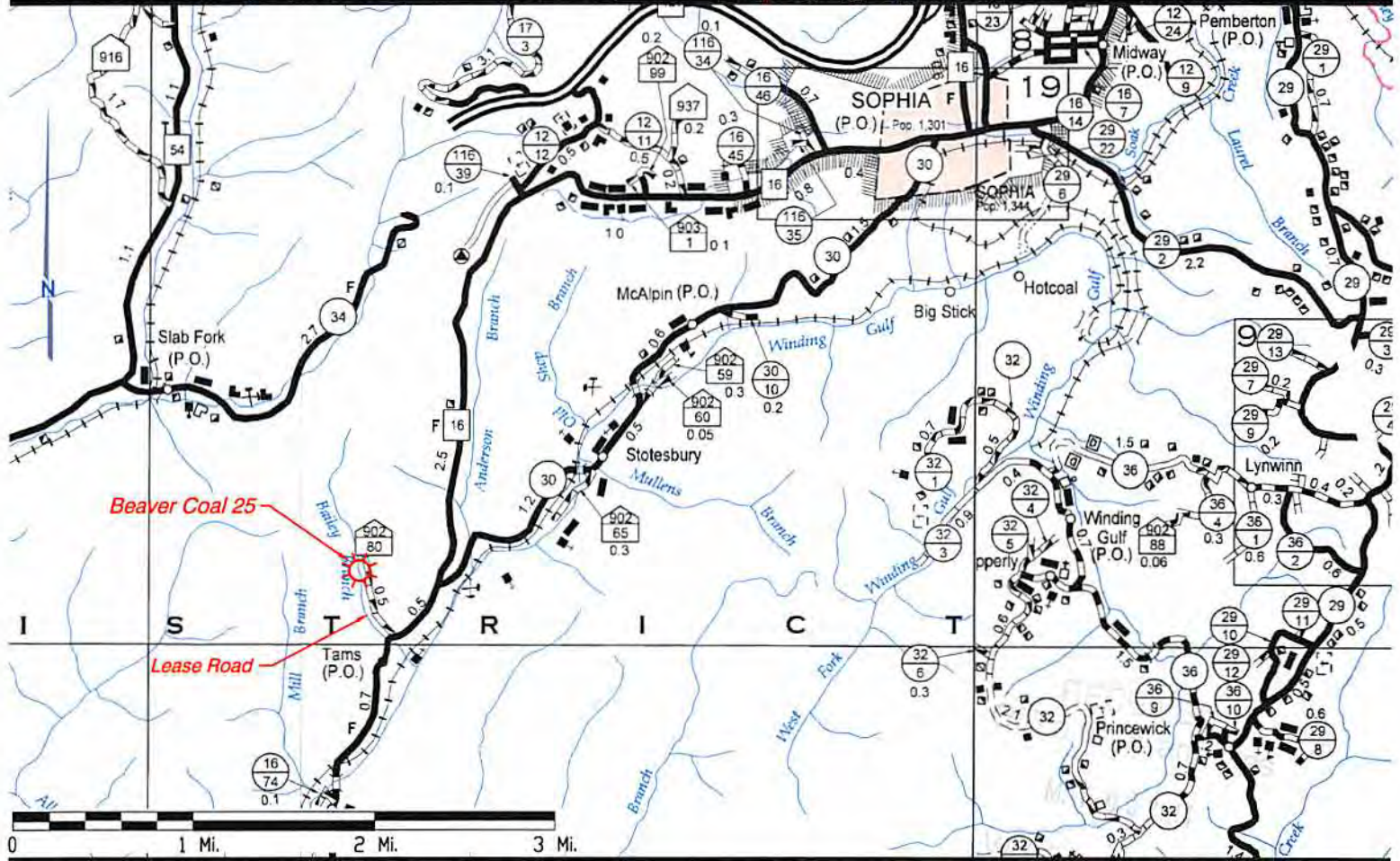
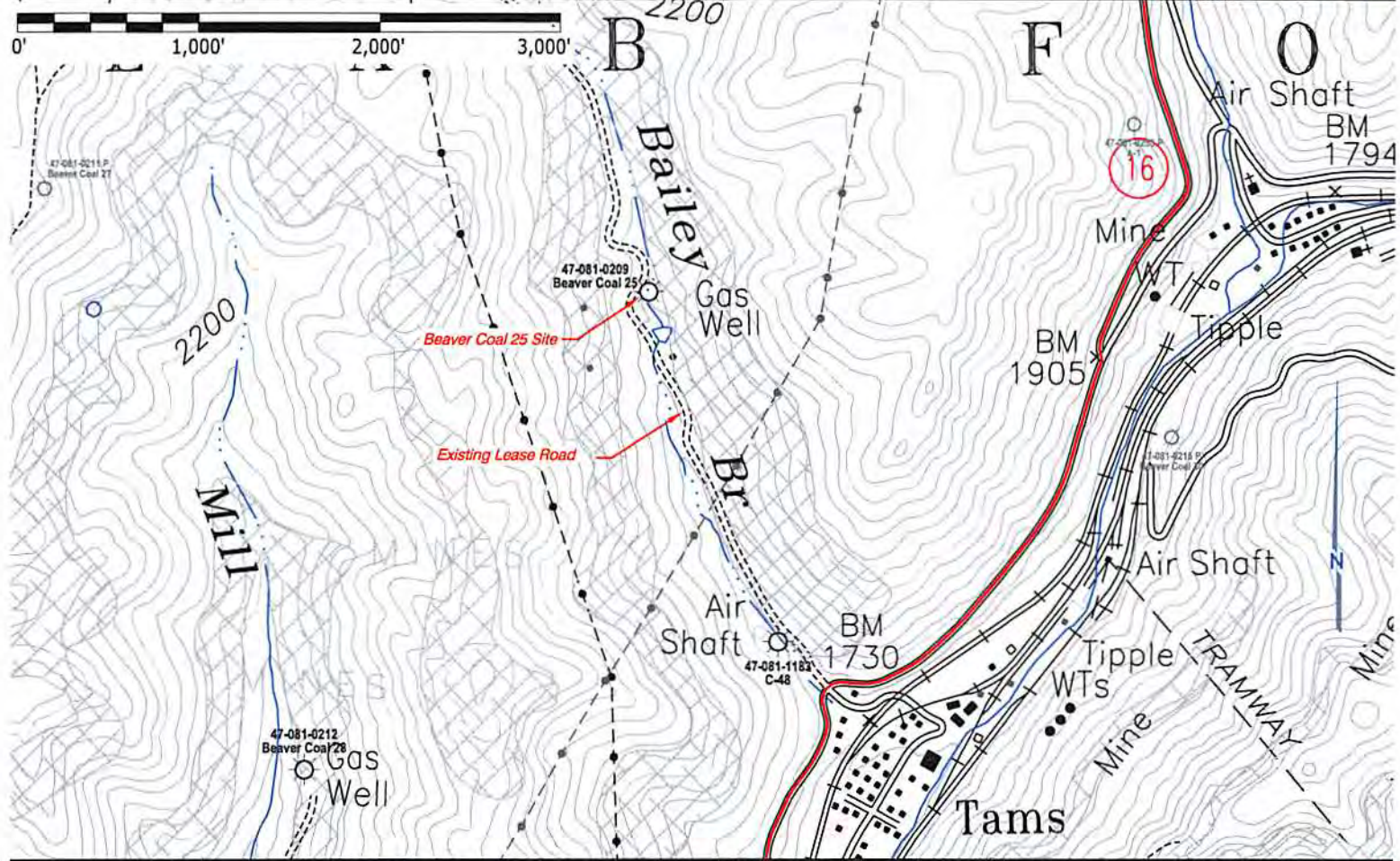
Located near Tams in Slab Fork District of Raleigh County, West Virginia



Lester, WV 7 1/2' Series Quadrangle

Notes:
 No water wells or other sources of groundwater currently being used for human consumption, domestic animals or other general uses were identified within 1000' of the proposed well site.

- Legend:**
- Water Well (W)
 - Spring
 - Wet Spot
 - House/Structure

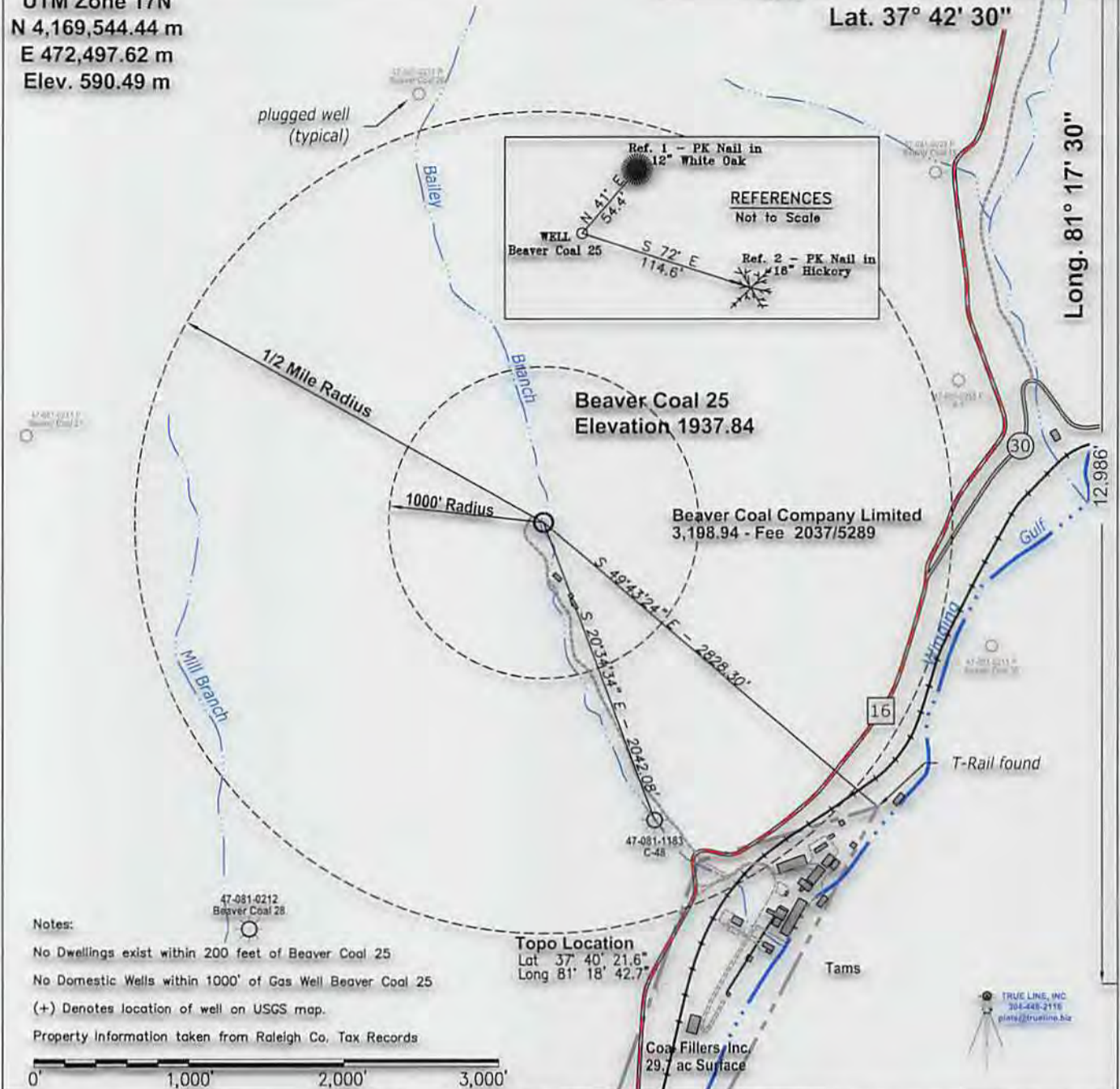


UTM Zone 17N
 N 4,169,544.44 m
 E 472,497.62 m
 Elev. 590.49 m

5,942

Lat. 37° 42' 30"

Long. 81° 17' 30"



Notes:
 No Dwellings exist within 200 feet of Beaver Coal 25
 No Domestic Wells within 1000' of Gas Well Beaver Coal 25
 (+) Denotes location of well on USGS map.
 Property Information taken from Raleigh Co. Tax Records



FILE #: \\filestation1\station4d\work\Cabot.2014
 DRAWING #: WW-6-BeaverCoal-25.pdf
 SCALE: see bar scale above
 MINIMUM DEGREE OF ACCURACY: 1 part in 2500
 PROVEN SOURCE OF ELEVATION: survey grade 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 ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*
 R.P.E.: _____ L.L.S.: 1065



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



DATE: December 10, 2013
 OPERATOR'S WELL #: Beaver Coal 25
 API WELL #: 47 081 00209
 STATE COUNTY PERMIT

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

WATERSHED: Bailey Branch of Winding Gulf off the Guyandotte River ELEVATION: 1937.84'

COUNTY/DISTRICT: 081-Raleigh / 5-Slab Fork QUADRANGLE: 432 - LESTER

SURFACE OWNER: Beaver Coal Company Limited ACREAGE: 3,198.94

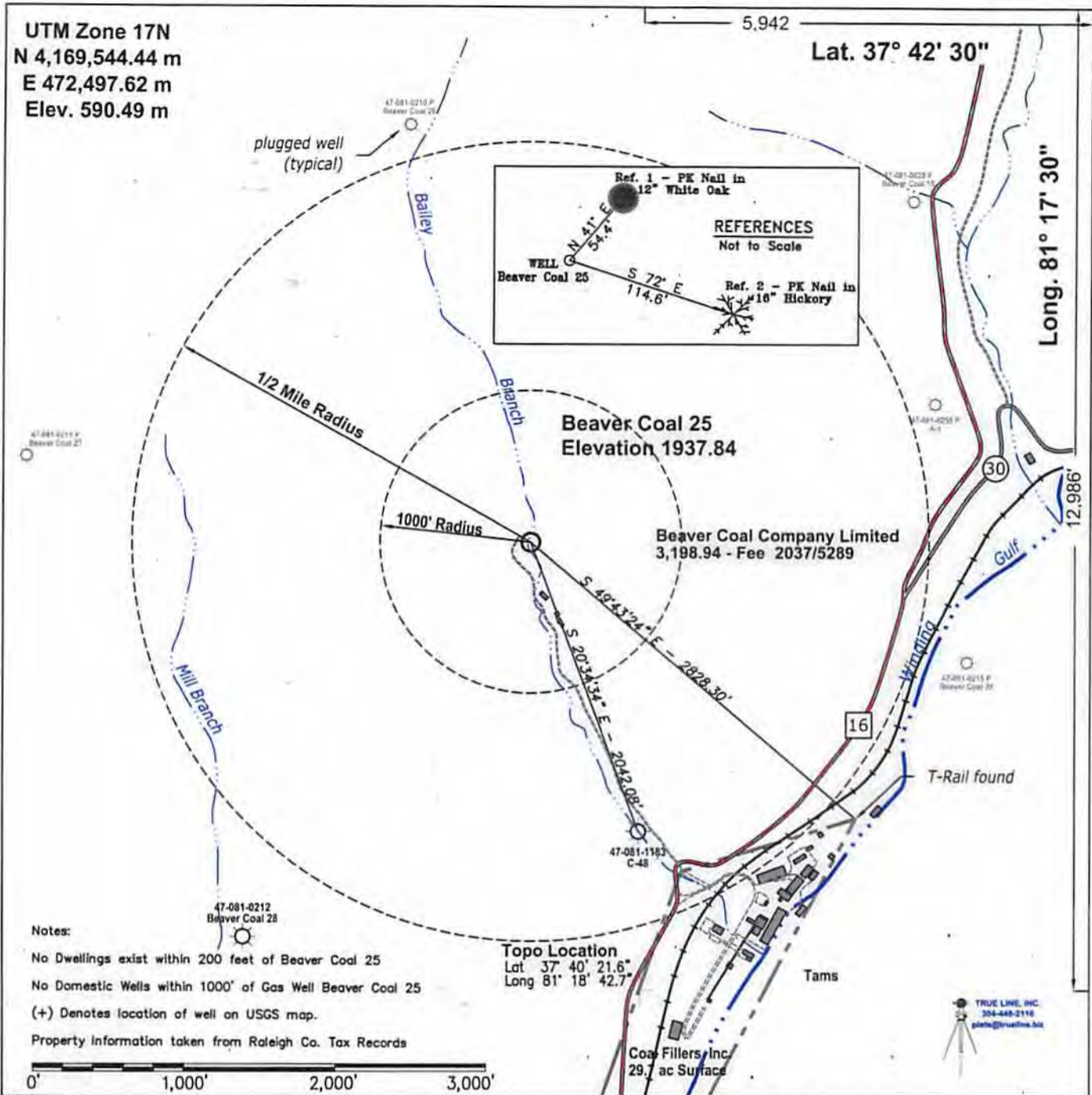
OIL & GAS ROYALTY OWNER: Beaver Coal Company Limited ACREAGE: 9400

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: Maxton ESTIMATED DEPTH: 1756'

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

06/20/2014



Notes:

No Dwellings exist within 200 feet of Beaver Coal 25
 No Domestic Wells within 1000' of Gas Well Beaver Coal 25
 (+) Denotes location of well on USGS map.
 Property Information taken from Raleigh Co. Tax Records

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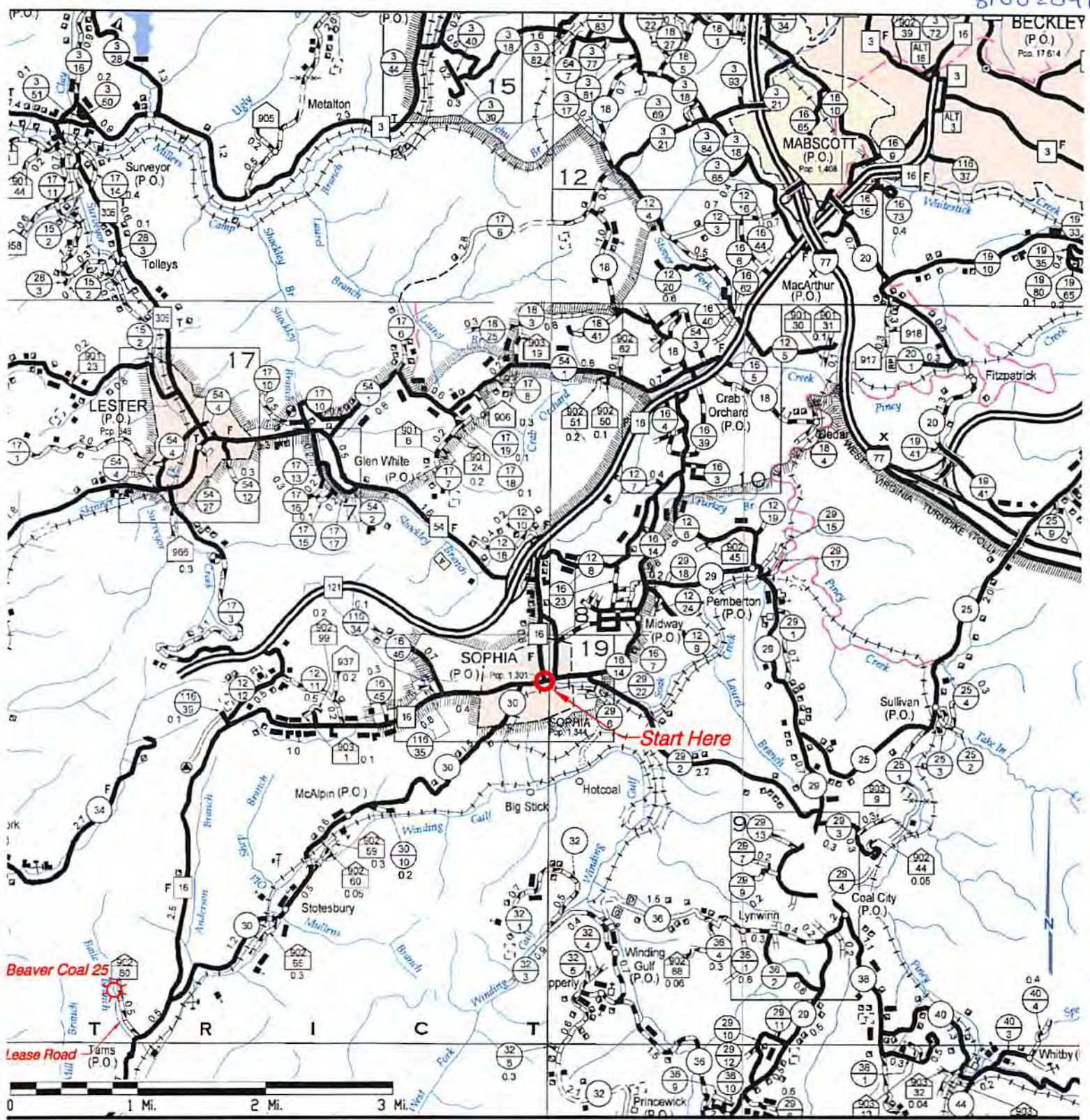
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 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: Maxton ESTIMATED DEPTH: 1756'

WELL OPERATOR Cabot Oil & Gas Corp. Address Five Penn Center West, Suite 401 City Pittsburgh State PA Zip Code 15276
 DESIGNATED AGENT Whitney Johnson Address P.O. Box 450 City Glasgow State WV Zip Code 25086

06/20/2014



Driving Directions:

1. Beginning in Sophia, WV at the T intersection of State Route 16 and Raleigh County Route 29, turn right onto State Route 16 south.
2. From the intersection, follow State Route 16 South for a distance of 5.65 miles to the community of Tams.
3. Observe Bailey Branch Road 902 on the right hand side of State Route 16 South. Turn up Bailey Branch Road.
4. From Rt. 16, follow Bailey Branch Road for 1/2 mile to the site. Beaver Coal 25 will be on the right side of the lease road across the creek.



April 30, 2014

Chief
West Virginia Division of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Beaver Coal #25
Slab Fork District, Raleigh County, WV
API # 47-081-00209
Written Application to plug and abandon wellbore

Dear Chief:

In accordance with Article 22-6-23 of the Code of State Regulations regarding oil and gas operations, please find attached a formal application for the plug and abandonment of the subject well.

Notices of our intention to plug this wellbore have been sent to surface owner, coal owner, and coal operators associated with this well. Copies of the certified mail receipts are attached for your records.

If you have any questions or need additional information, I can be reached at 412-249-3850.

Sincerely,



Kenneth L. Marcum
Regulatory Supervisor



CERTIFIED MAIL

April 30, 2014

Gary Kennedy
P.O. Box 268
Nimitz, WV 25978

Re: Beaver Coal #25
Slab Fork District, Raleigh County, WV
API # 47-081-00209
Written Application to plug and abandon wellbore

Dear Mr. Kennedy:

Enclosed are the following forms for the subject well:

- Form WW-4A Notice of Application to Plug and Abandon Well (1 copy)
- Form WW-4B Application for a Permit to Plug and Abandon (1 copy)
- Well Location Plat Certified Copy of WVDEP Well Location Plat
- Form WW-9 Reclamation Plan and Site Registration Application (1 copy)

Copies of the Well Permit Application and Voluntary Statement of No Objection have been sent to the appropriate surface owner(s) and coal operator(s), owner(s) and lessee(s) for signature.

Please make necessary recommendations and sign the Reclamation Plan before forwarding to Chief, Division of Oil & Gas, 601 57th Street, Charleston, WV 25304

If you have any questions or need additional information, please contact me at 412-249-3850.

Sincerely,

Kenneth L. Marcum
Regulatory Supervisor

Received

MAY - 6 2014

Office of Oil and Gas
WV Dept. of Environmental Protection