



west virginia department of environmental protection

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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Thursday, January 26, 2017
WELL WORK PERMIT
Vertical / Plugging

CABOT OIL & GAS CORPORATION (A)
2000 PARK LANE, SUITE 300

PITTSBURGH, PA 15275

Re: Permit approval for 86
47-047-00199-00-00

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: 86
Farm Name: POCAHONTAS LAND
U.S. WELL NUMBER: 47-047-00199-00-00
Vertical / Plugging
Date Issued: 1/26/2017

Promoting a healthy environment.

01/27/2017

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.

1) Date December 12, 2016
2) Operator's
Well No. Pocahontas Land 86
3) API Well No. 47-047 -00199

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 1866.85' Watershed UT of Wolfpen Br. of Clear Fk. of Tug Fk. of the Big Sandy
District Big Creek County McDowell Quadrangle Davy

6) Well Operator Cabot Oil & Gas Corporation 7) Designated Agent Phillip Hill - Cabot Oil & Gas Corporation
Address 2000 Park Lane, Suite 300 Address 900 Lee Street East, Suite 1500
Pittsburgh, PA 15275 Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name Brian Ferguson
Address 708 Manor Drive
Beckley, WV 25801
9) Plugging Contractor Name Contractor Services, Inc.
Address 929 Charleston, Road
Spencer, WV 25276

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

Received
Office of Oil & Gas
DEC 22 2016

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

Work order approved by inspector _____ Date _____

01/27/2017

Pocahontas Land #86
API # 47 – 047 – 00199
PLUGGING PROCEDURE

Current Configuration

TD @ 4433'
 13-3/8" – 48# casing @ 174' on shoe
 10-3/4" – 32.75# casing @ 975' on packer
 8-5/8" – 24# casing @ 1950' on shoe
 7" – 23# casing @ 4411' with bottom 400' cemented
 Coal @ 93' – 96', 949' – 950', & 370' – 372'
 Berea @ 4403' – 4431' & frac'd open hole
 Big Lime @ 3237' – 3746' with no gas show
 Gas show @ 1813'

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. MIRU service rig and blow down well. Have vacuum truck available to catch any fluids circulated from well.
4. Lay 2" line from wellhead to pit/tank and stake down securely.
5. Unpack wellhead.
6. TIH with 2-3/8" work string to 4430'.
7. MIRU Cementing Company.
8. Pump 40 bbls 6% gel followed by 45 sks of Class A cement for plug 1 from 4430' to 4200'.
9. Displace w/ 16 bbls of 6% Gel.
10. TOOH with work string. Let cement plug set for a minimum of eight hours.
11. Run freepoint and cut 7" casing where free. Estimate ±3900'.
12. Pick up on 7" casing and pump 60 sks of Class A cement for plug 2 from 3900' to 3700'.
13. Displace w/ 145 bbls of 6% Gel.
14. TOOH with 7" casing.
15. Pull 8-5/8", 10-3/4", & 13-3/8" casing strings. If unable to pull, run freepoint on casing strings, cut casing above freepoint, and POOH with casing.
16. TIH w/ work string to 1900' and pump 95 sks of Class A cement for cement plug 3 from 1900' to 1700'.
17. Displace w/ 6 ½ bbls of 6% Gel.
18. Pull work string up to 420'.
19. Pump 100 bbls 6% gel followed by 50 sks of Class A cement for cement plug 4 from 420' to 350'. *320'. 100' CLASS A CEMENT PLUG. (COVERING COAL)*
20. Displace w/ 1 ¼ bbls of 6% Gel.
21. Pull work string up to 200'.
22. Pump 225 sks of Class A cement for plug 5 from 200' to surface.
23. TOOH with work string and lay down.
24. RDMO Cementing Company.
25. Place monument as required by law on top of well bore.
26. Reclaim well site.

- ★ 17a. Pull work string to 1030'.
 17b. Pump class A cement plug from 1030' to 930'. (cover 10" casing seat)

Received
 Office of Oil & Gas
 DEC 22 2016

J. W. M.

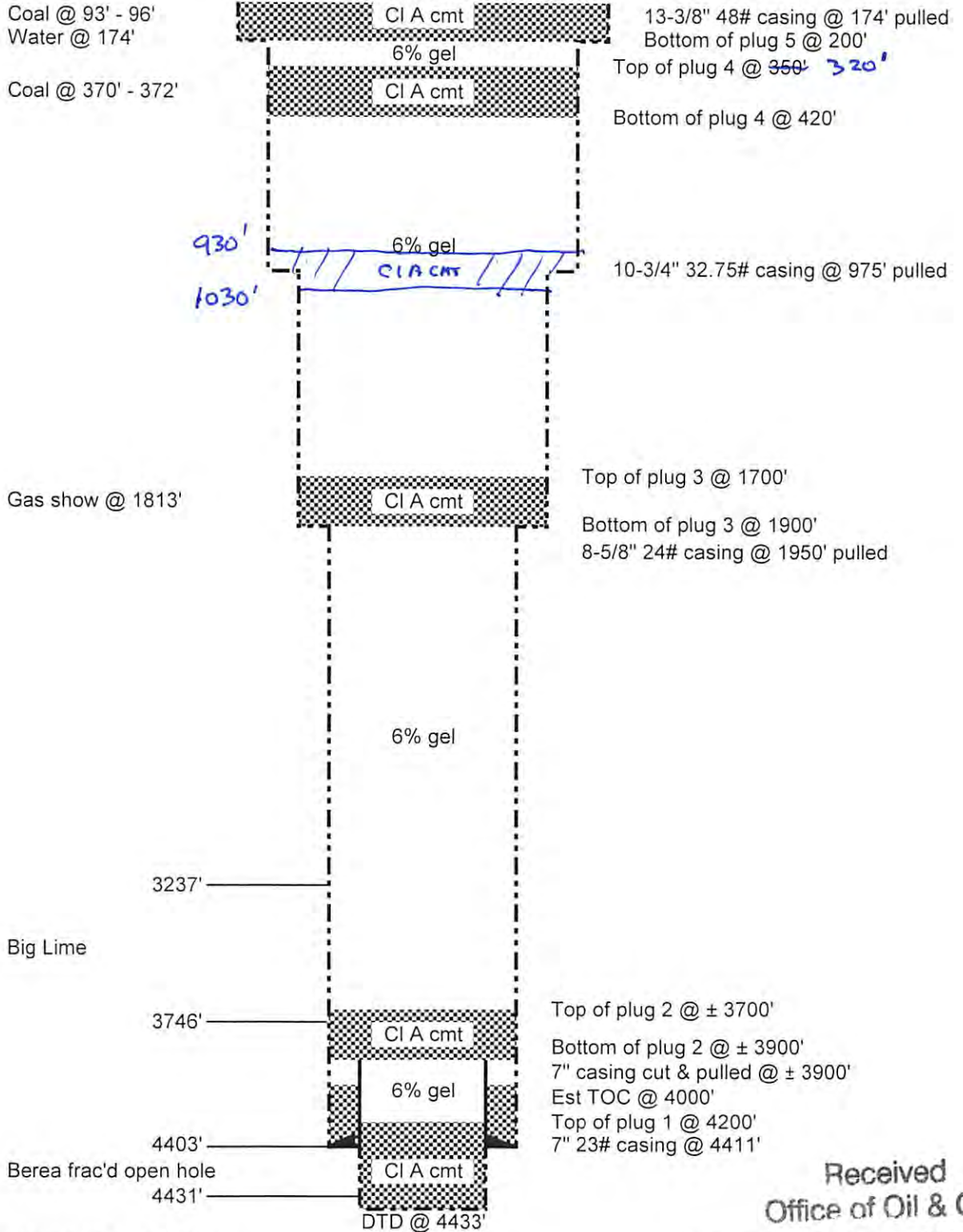
01/27/2017

POCAHONTAS LAND #86

API 47-047-00199

PROPOSED CONFIGURATION

Elevation - 1870'



Schematic is not to scale

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Office of Oil & Gas

7. Oct 12/01/15 DEC 22 2016

01/27/2017

00-10



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 14

Quadrangle Welch
Permit No. MCD-199

WELL RECORD

Oil or Gas Well GAS

Company Cabot Corporation
Address Charleston, West Virginia
Farm Pocahontas Land Corp. Acres 47,520
Location (waters) _____
Well No. 86, Serial 1510 Elev. 1870
District Big Creek County McDowell
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Pocahontas Land Corp.
Address Bluefield, W. Va.
Drilling commenced June 8, 1960
Drilling completed October 17, 1960
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 636,000 Cu. Ft.
Rock Pressure 940 lbs. 168 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18			Kind of Packer _____
13	174	174	Bottom Hole
10	979	979	Size of <u>10-3/4"</u>
8 1/2	1950	1950	
6 3/4	4411	4411	Depth set _____
5 3/16			<u>179</u>
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

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

COAL WAS ENCOUNTERED AT 93 FEET 36 INCHES
370 FEET 24 INCHES 949 FEET 12 INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

WELL FRACTURED 10/26/60 with 30,000 gals. water and 25,000# sand.

RESULT AFTER TREATMENT 636,000 cubic feet

ROCK PRESSURE AFTER TREATMENT 940# = 168 hrs.

Fresh Water 174 Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	10			
Slate & Shell			10	93			
COAL			93	96			
Slate & Shell			96	172			
Idme			172	184	Water	174	Hole full.
Slate & Shell			184	206			
Sand			206	260			
Slate & Shell			260	370			
COAL			370	372			
Slate & Shell			372	380			
Sand			380	440			
Slate & Shell			440	480			
Sand			480	610			
Slate & Shell			610	654			
Sand			654	710			
Slate & Shell			710	735			
Sand			735	878			
Slate & Shell			878	915			
Sand			915	935			
Slate & Shell			935	949			
COAL			949	950			
Sand			950	997			
Slate & Shell			997	1048			
Sand			1048	1056			
Slate & Shell			1056	1066			
Sand			1066	1134			
Slate & Shell			1134	1173			
Red Rock			1173	1200			
Slate & Shell			1200	1272			



(over)

Formation	Color	Hard or Soft	Top $\frac{1}{4}$	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1272	1332			
Red Rock			1332	1395			
Slate & Shell			1395	1463			
Sand			1463	1515			
Slate & Shell			1515	1550			
Lime			1550	1578			
SAND			1578	1639			
Slate & Shell			1639	1716			
Sand			1716	1760			
Shale			1760	1773			
Sand			1773	1903	Gas	1813	Show.
Lime AVIS			1903	1962			
Red Rock			1962	2123			
Shale			2123	2163			
Red Rock			2163	2237			
Sand			2237	2250			
Shale			2250	2286			
Sand			2286	2305			
Shale			2305	2417			
Sand			2417	2447			
Red Rock			2447	2515			
Sand			2515	2530			
Slate & Shell			2530	2605			
Red Rock			2605	2675			
Slate & Shell			2675	2810			
Sand			2810	2825			
Slate & Shell			2825	3010			
Lime			3010	3109			
Shale			3109	3138			
Lime			3138	3237			
BIG LIME			3237	3746			
MacGrady - Red			3746	3791			
Slate & Shell			3791	3862			
WEIR			3862	4000			
Slate & Shell			4000	4376			
Brown Shale			4376	4403			
BEREA			4403		Gas	4427-4431;	874 Mcf
TOTAL DEPTH				4433			

Date November 29, 19 60

APPROVED: GABOT CORPORATION, Owner

By *J. J. [Signature]*
General Supt. (Title)

01/27/2017

47 00199P

WW-4A
Revised 6-07

1) Date: December 12, 2016
2) Operator's Well Number
Pocahontas Land 86
3) API Well No.: 47 - 047 - 00199

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

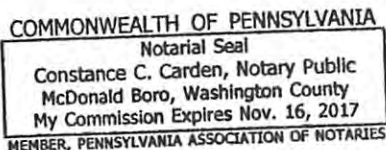
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Pocahontas Land Corporation</u>	Name <u>See Attached Sheet</u>
Address <u>P.O. Box 1517</u>	Address _____
<u>Bluefield, WV 24701</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Pocahontas Land Corporation</u>
_____	Address <u>P.O. Box 1517</u>
_____	<u>Bluefield, WV 24701</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Brian Ferguson</u>	(c) Coal Lessee with Declaration
Address <u>708 Manor Drive</u>	Name <u>See Attached Sheet</u>
<u>Beckley, WV 25801</u>	Address _____
Telephone <u>(304) 550-6265</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

Subscribed and sworn before me this 12th day of December, 2016
Constance C. Carden Notary Public
 My Commission Expires November 16, 2017

Received
Office of Oil & Gas

DEC 22 2016

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.

01/27/2017

47 00199 P

COAL LESSEE
POCAHONTAS LAND 85
47-047-00199

National Resources, Inc.
100 Cranberry Creek Drive
Beckley, WV 25801

Consol Energy, Inc.
1000 Consol Energy Drive
Canonsburg, PA 15317

Baystar Coal Company, Inc.
P.O. Box 1084
Bluefield, VA 24605

Concept Mining, Inc.
640 Clover Dew Dairy Road
Princeton, WV 24740

Black Oak Mining, Inc.
P.O. Box 13
Thorpe, WV 24888

Split Fork Mining Company
P.O. Box 117
Caretta, WV 24821

Timeco Energy, Inc.
P.O. Box 1030
Bluefield, WV 24605

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47 00199P

COAL OPERATOR
POCAHONTAS LAND 86
47-047-00199

Sally Ann Coal Company, Inc.
P.O. Box 770
Bluefield, WV 24701

Skyway Strip, Inc.
P.O. Box 770
Bluefield, WV 24701

Bundy Auger Mining, Inc.
2005 Webster Road
Summersville, WV 26651

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<input type="checkbox"/> Return Receipt (hardcopy)	\$ 1.35
<input type="checkbox"/> Return Receipt (electronic)	\$ 0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$1.780
Total Postage and Fees	\$6.430



Sent To National Resources Inc.
100 Cranberry Creek Drive
Beckley, WV 25801
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PS Form 3800, April 2015 See Reverse for Instructions

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<input type="checkbox"/> Adult Signature Required	\$ 0.00
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Postage	\$1.780
Total Postage and Fees	\$6.430



Sent To Pocahontas Land Corporation
P.O. Box 1517
Bluefield, WV 24701
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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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Sent To Baystar Coal Company Inc.
P.O. Box 1084
Bluefield, VA 24605
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$1.780
Total Postage and Fees	\$6.430



Sent To Consol Energy Inc.
1000 Consol Energy Drive
Canonsburg, PA 15317
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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$1.780
Total Postage and Fees	\$6.430



Sent To Black Oak Mining Inc.
P.O. Box 13
Thorpe, WV 24888
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Postage	\$1.780
Total Postage and Fees	\$6.430



Sent To Concept Mining Inc.
40 Clover Dew Dairy Road
Princeton, WV 24740
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$1.780
Total Postage and Fees	\$6.430

Sent To: Timeco Energy Inc.
P.O. Box 1030
Bluefield, WV 24605

Street, Apt. No., or PO Box No.
City, State, Zip+4
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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$1.780
Total Postage and Fees	\$6.430

Sent To: Split Fork Mining Company
P.O. Box 117
Caretta, WV 24821

Street, Apt. No., or PO Box No.
City, State, Zip+4
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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$1.780
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Sent To: Skyway Strip Inc.
P.O. Box 770
Bluefield, WV 24701

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City, State, Zip+4
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Sent To: Sally Ann Coal Company Inc.
P.O. Box 770
Bluefield, WV 24701

Street, Apt. No., or PO Box No.
City, State, Zip+4
12/12/2016 11:11:38 AM

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708 Manor Drive
Beckley, WV 25801

Street, Apt. No., or PO Box No.
City, State, Zip+4
12/12/2016 11:11:38 AM

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Code: Poca 86 Panda

Received
Office of Oil & Gas
DEC 22 2016

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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Total Postage and Fees	\$6.430

Sent To: Bundy Auger Mining Inc.
2005 Webster Road
Summersville, WV 26651

Street, Apt. No., or PO Box No.
City, State, Zip+4
12/12/2016 11:11:38 AM

PS Form 3800, April 2015 See Reverse for Instructions

Code: Poca 86 Panda

01/27/2017

WW-9
(2/15)

API Number 47 - 047 - 00199

Operator's Well No. Pocahontas Land 86

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) Wolfpen Branch of Clearfork Creek Quadrangle Davy

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)

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OF OFF-SITE PROPERLY. JNM

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

Received
Office of Oil & Gas

DEC 22 2016

Subscribed and sworn before me this 12th day of December, 2016

Constance C. Carden

Notary Public
COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires Nov. 01/27/2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

My commission expires 11/16/2017

Cabot Oil & Gas Corporation

Proposed Revegetation Treatment: Acres Disturbed 0.27 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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(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.

Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No

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Office of Oil & Gas
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TOPO SECTION OF:
United States Department of the Interior
Geological Survey - Davy & Welch, WV - 7½ Quads

PROPOSED CULVERT INVENTORY
(For Bid Purposes Only)

15" (Minimum) Culverts	None
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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	0.16 Acres
Access Road	0.11 Acres
Approximate Total Disturbance	0.27 Acres

All roads shown hereon are existing unless otherwise noted and shall be maintained in accordance with the WVDEP best management practices contained in the Erosion and Sediment Control Field Manual.

Entrances at County/State roads shall be maintained in accordance with WVDOT regulations. Separate permits may be required by the WVDOT.

Sediment basins (sumps) and appropriate erosion control barriers are to be constructed at all culvert and cross drain inlets and outlets as required in the WVDEP Oil & Gas Erosion and Sediment Control Field Manual. Field conditions (rock outcrops or bedrock) may prohibit inlet sumps (traps) being installed. When these conditions exist, additional erosion control measures shall be evaluated and employed as needed.

Earthwork contractors are responsible for notification to the operator and Oil & Gas Inspector prior to any deviation from this plan.












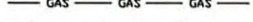





All slopes shall be seeded and mulched after site construction is complete. All slopes created during road construction will receive temporary seeding and mulch immediately following completion.

Marketable timber shall be cut and stacked at an accessible location.

Stacked or windrowed brush may be used for sediment control.

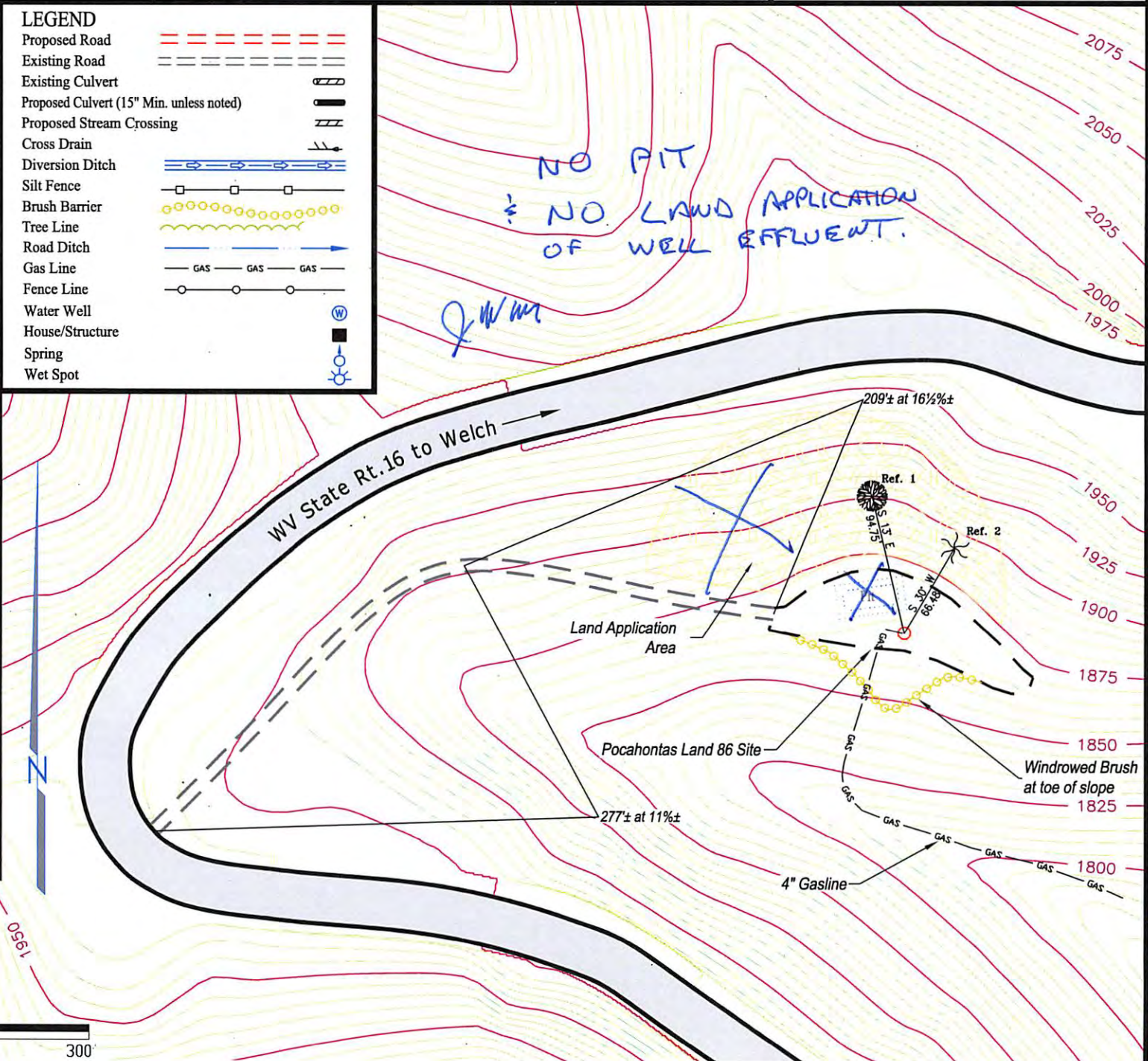
Applications for separate Public Lands Corporation permits on the access road stream crossings (if any) have been provided where applicable.

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 

NO PIT
NO LAND APPLICATION
OF WELL EFFLUENT.

JW/M

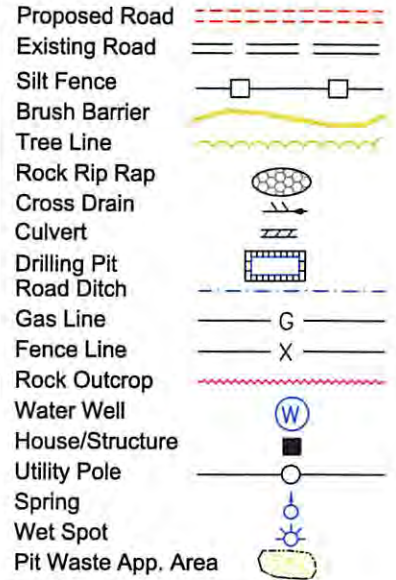


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GENERAL NOTES:

- 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



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:

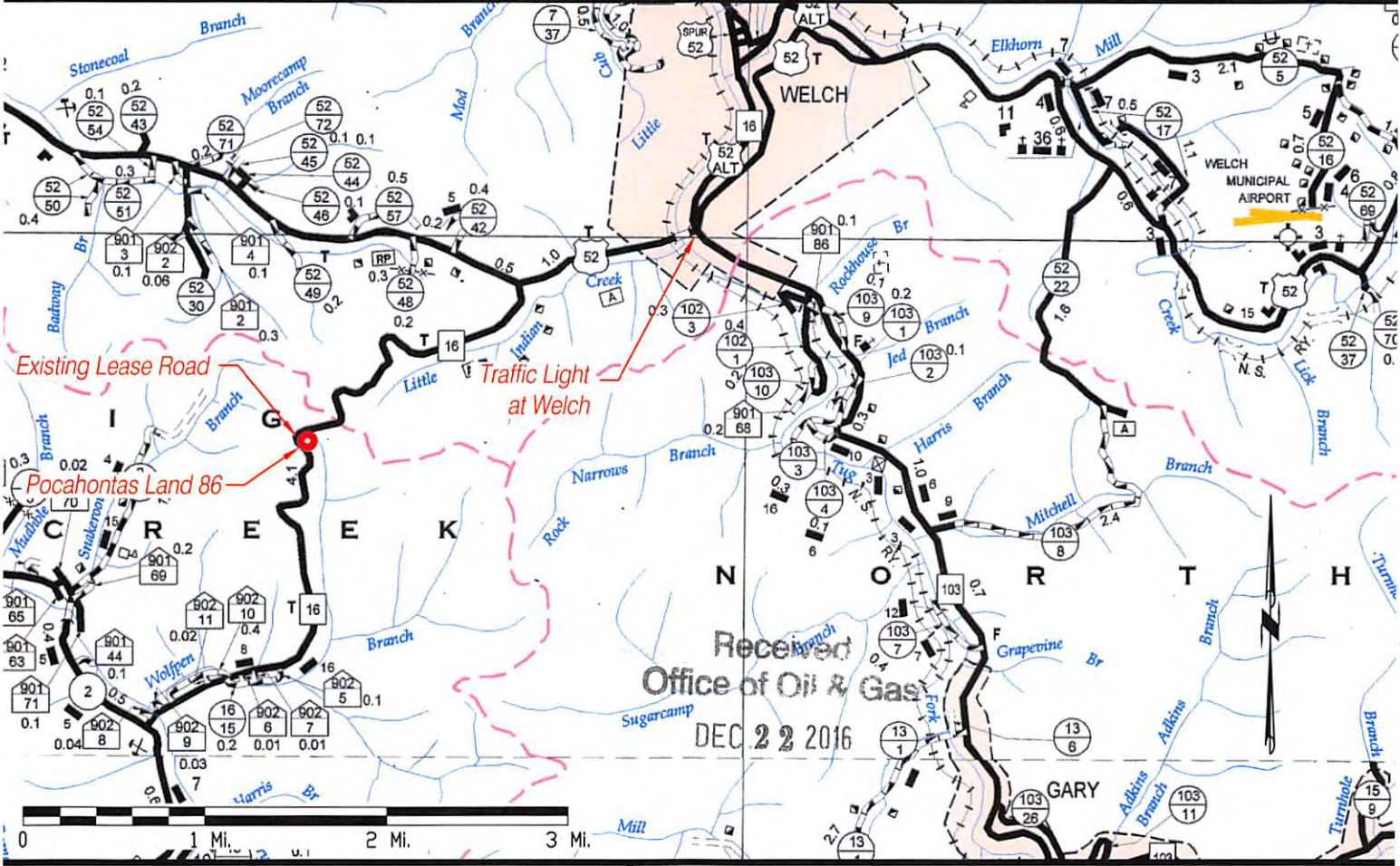
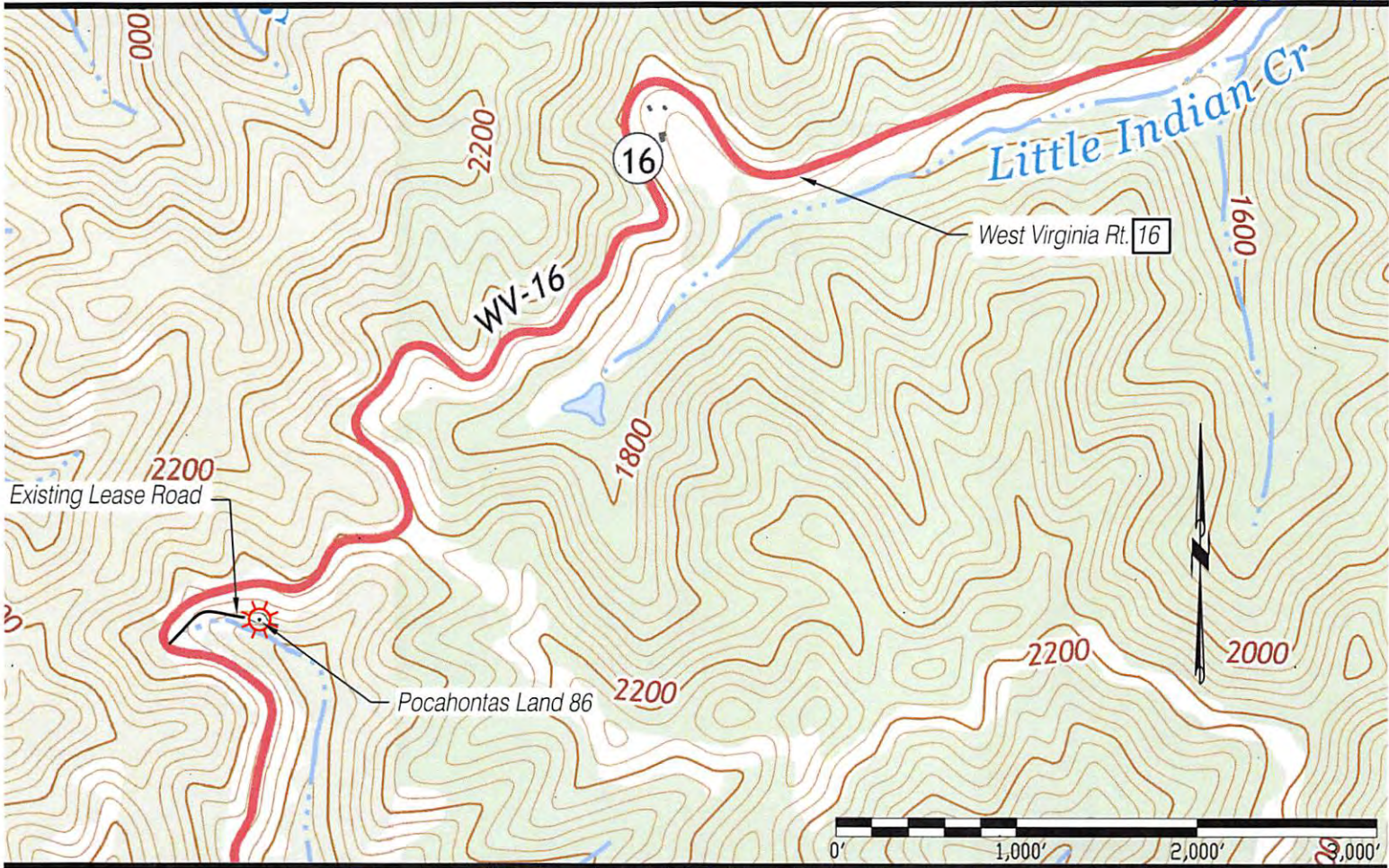
IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE SIZE/CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR EXCAVATION ACTIVITIES

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

CALL 1-800-245-4848

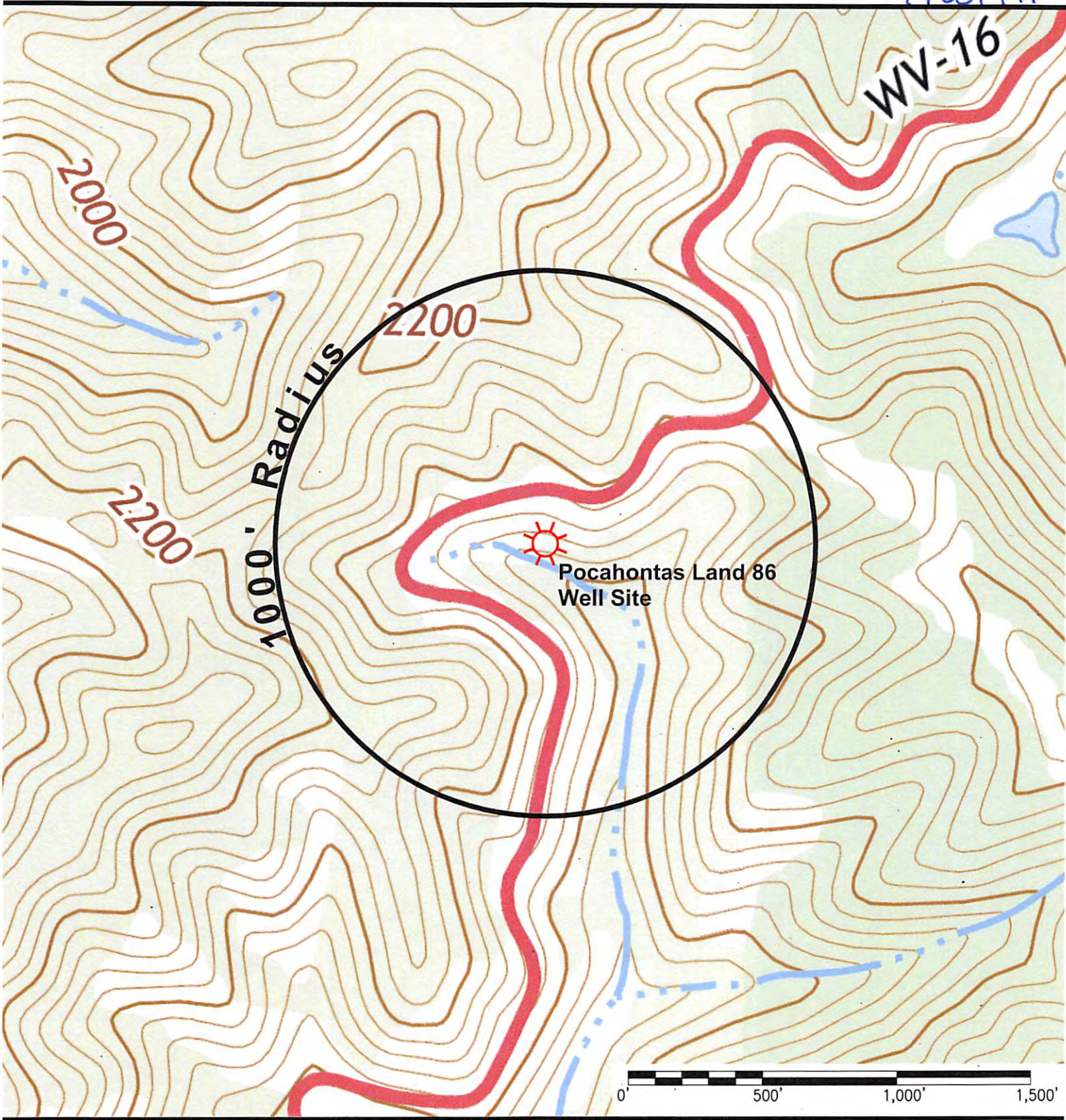
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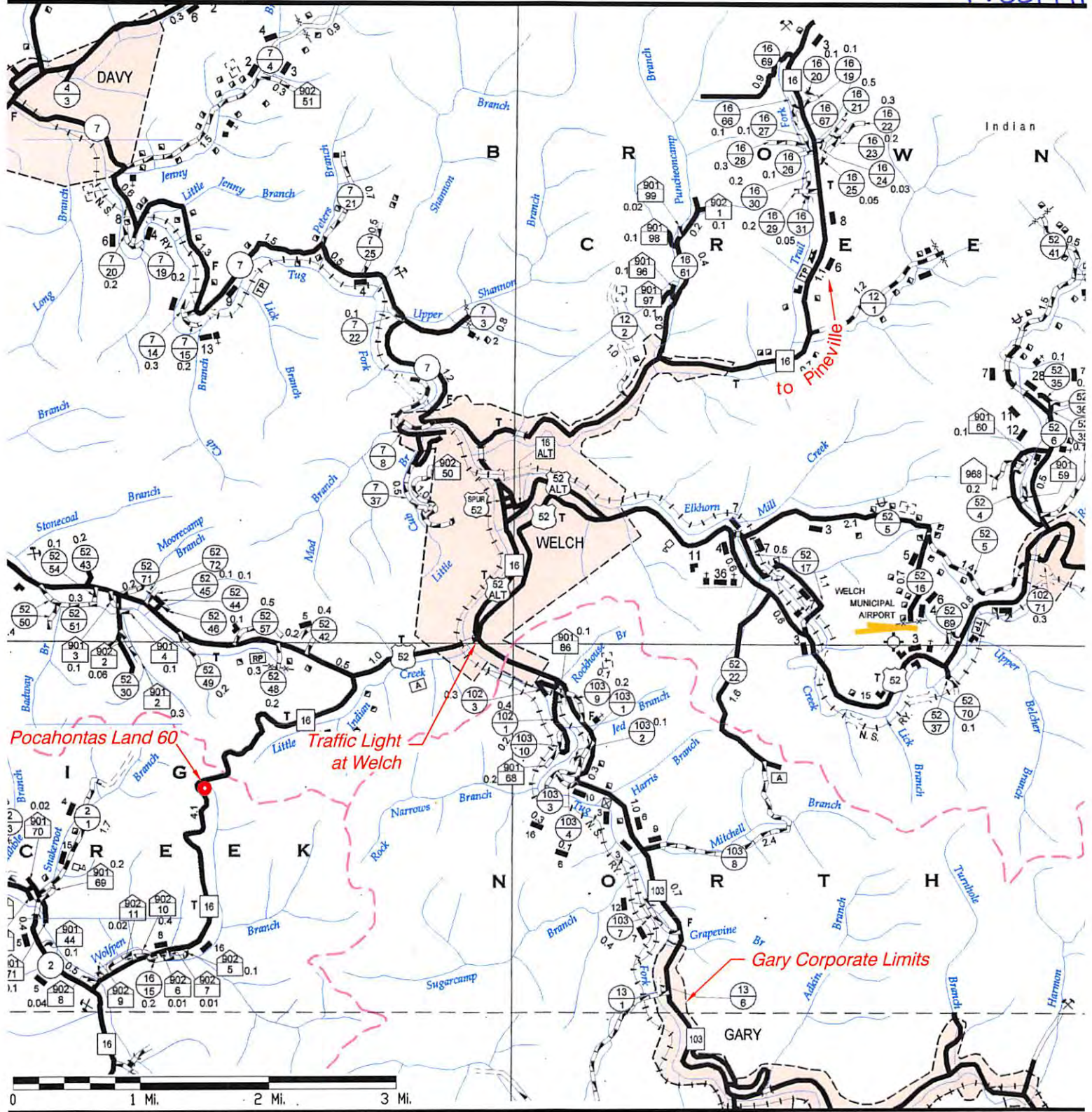
Davy WV 7 1/2' Quadrangle

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:

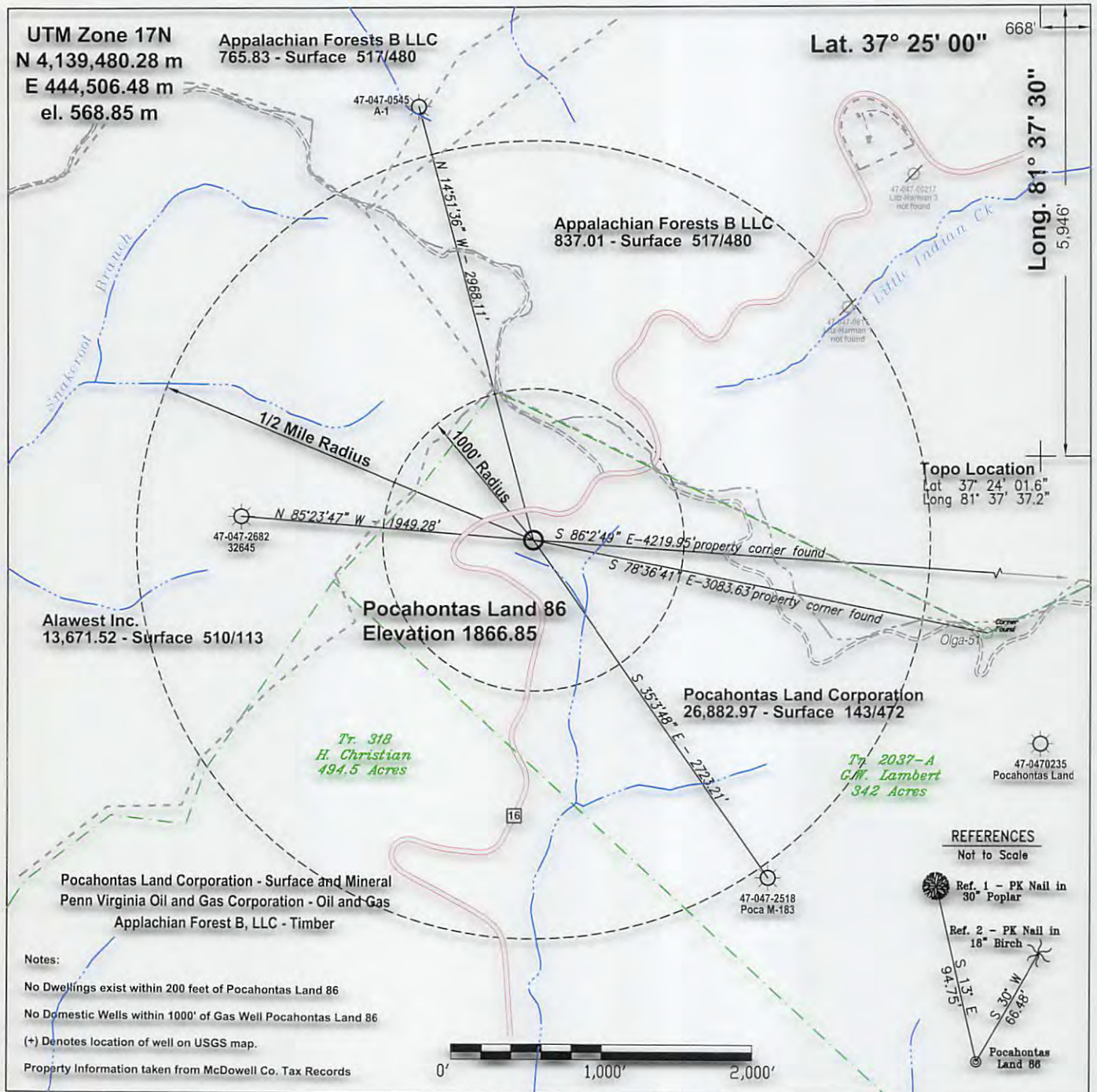
- Water Well Received Office of Oil & Gas
- Spring
- Wet Spot
- House/Structure

DEC 22 2016



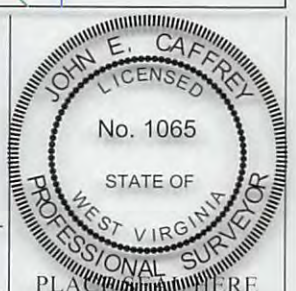
Driving Directions:

1. From Cabot's Pineville, WV office, take WV Rt. 10 South 0.2 miles to junction with WV Rt. 16 South at the bridge over the Guyandotte River.
2. Turn right at the bridge onto Rt. 16 South (Welch-Pineville Road) for ±19 miles to the junction of US Rt. 52 in Welch, WV at the traffic light.
3. At the intersection with the traffic light, turn right onto US Rt. 52 north / WV State Rt. 16 south for 0.9 miles where Rt. 16 splits off lefthanded.
4. Turn left onto WV State Rt. 16 south for 2¼ miles. At the apex of a tight left turn, the existing lease road is on the left. Turn off Rt. 16 onto the lease road.
5. Follow the existing lease road 486 feet to the existing Pocahontas Land 86 well site.



FILE #: \\filestation1\Station4D\work\Cabot Oil & Gas
 DRAWING #: Cabot2014-Pocahontas_Land_86(199)WW-6_Poca86.pdf
 SCALE: see barscale above
 MINIMUM DEGREE OF ACCURACY: 1 part in 2500
 PROVEN SOURCE OF ELEVATION: sub meter GPS locatio

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: November 12, 2014
 OPERATOR'S WELL #: Pocahontas Land 86
 API WELL #: 47 047 00199 P
 STATE COUNTY PERMIT

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

WATERSHED: UT of Wolfpen Br. of Clear Fk. of Tug Fk. of the Big Sandy ELEVATION: 1866.85

COUNTY/DISTRICT: 047-McDowell / 2-Big Creek QUADRANGLE: 319 - DAVY

SURFACE OWNER: Pocahontas Land Corporation ACREAGE: 26882.97

OIL & GAS ROYALTY OWNER: Penn Virginia Oil and Gas Corporation ACREAGE: 47,520

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: Berea Sandstone ESTIMATED DEPTH: 4,433'

WELL OPERATOR Cabot Oil & Gas Corporation 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

01/27/2017



North Region
December 12, 2016

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

RE: Pocahontas Land 86
Big Creek District, McDowell County, WV
API # 47-047-00199
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,

A handwritten signature in blue ink, appearing to read 'Kenneth L. Marcum'.

Kenneth L. Marcum
Regulatory Supervisor

Received
Office of Oil & Gas

DEC 21 2016