



---

**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 18, 2013

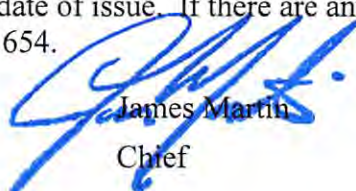
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-7901409, 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: MCLEAN A-171  
Farm Name: WEGERT, HAROLD A.  
**API Well Number: 47-7901409**  
**Permit Type: Plugging**  
Date Issued: 06/18/2013

WW-4B  
Rev. 2/01

1) Date May 22, 2013  
2) Operator's  
Well No. McLean A-171  
3) API Well No. 47-079 - 1409

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 \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 671.51' Watershed Little Guano Creek  
District Union County Putnam Quadrangle Bancroft

6) Well Operator Cabot Oil & Gas Corporation 7) Designated Agent Brian D. Hall  
Address Five Penn Center West, Ste. 401 Address 6804 Lick Creek Road  
Pittsburgh, PA 15276 Danville, WV 25053

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Jamie Stevens Name Francis Brothers, LLC  
Address HC 62 - Box 1 C Address 622 Church St. N.  
Kenna, WV 25248 Ripley, WV 25271

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

Received  
5/31/2013

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

Work order approved by inspector Jamie Stevens Date 6/4/2013

**MCLEAN A-171**  
**API # 47 - 079 - 01409**  
**PLUGGING PROCEDURE**

**Current Configuration**

DTD @ 4525'

13-3/8" conductor @ 37' KB, cemented to surface ✓

9 5/8" - 26# LS casing @ 274' KB, cemented to surface ✓

7" - 19# LS casing @ 1957' KB, cemented to surface ✓

4 1/2" - 10.5# - M60 casing @ 4514' KB w/ TOC @ 1460'

2-3/8" - 4.7# tubing @ 4368' KB

Rhinestreet Shale perforations: 4348' - 4441' —

Huron Shale perforations: 3513' - 3953' —

Berea formation: 2301' - 2322' (not perforated) ✓

Injun formation: 1821' - 1866' (not perforated) ✓

Big Lime formation: 1625' - 1821' (not perforated) ✓

No coal reported

Salt water @ 642' &amp; 1625'

Fresh water @ 20'

**PROCEDURE**

1. Contact Sissonville 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 7" 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 approximately 4435' with two joints of tubing.
8. MIRU Cementing Company.
9. Pump 5 barrels of 6% Gel.
10. Pump 15 sacks of Class A cement for Cement Plug 1 from 4435' to 4235'.
11. Displace with 16 bbls of 6% Gel.
12. Pull tubing to 3950' and pump 40 sacks of Class A cement for Cement Plug 2 from 3950' to 3420'.
13. Displace with 13 bbls of 6% Gel.
14. POOH with tubing and let cement plug set for a minimum of eight hours.
15. TIH with tubing to 2350' and pump 15 sacks of Class A cement for Cement Plug 3 from 2350' to 2150'.
16. Displace with 8 bbls of 6% Gel.
17. Pull tubing to 1850' and pump 25 sacks of Class A cement for Cement Plug 4 from 1850' to 1520'.
18. Displace with 6 bbls of 6% Gel.
19. POOH with tubing.
20. Run freepoint and cut 4 1/2" casing where free. Estimate ±1450'. Pick up casing 1 jt and pump 20 bbls 6% gel.
21. POOH with casing.
22. TIH with tubing to 1500' and pump 33 sacks Class A cement for Cement Plug 5 from 1500' to 1300'.
23. Displace with 5 bbls of 6% Gel.
24. Pull tubing up to 300' and pump 58 sacks of Class A cement for Cement Plug 6 from 300' to surface.
25. TOOH with tubing and lay down.

- 26. RDMO Cement company
- 27. Erect Monument according to Law.
- 28. RDMO.

McLean A-171  
API 47-079-01409  
PROPOSED CONFIGURATION

Fresh water @ 20'

No coal reported

Salt water @ 642'

Salt water @ 1625'

1625'

Big Lime

1821'

Injun

1866'

2301'

Berea

2322'

3507'

Huron Shale

3956'

4326'

Rhinestreet Shale

4505'

DTD @ 4525' KB

37# 13-3/8" Conductor @ 37' KB

26# 9-5/8" LS Casing @ 274' KB cemented to surface  
Bottom of plug 6 @ 300'

Top of plug 5 @ 1300'  
Bottom of plug 5 @ 1500'

TOC @ 1460' KB, 4 1/2" casing to be cut @ ± 1450'  
Top of plug 4 @ 1520'

Bottom of plug 4 @ 1850'  
19# 7" LS Casing @ 1957' KB cemented to surface

Top of plug 3 @ 2150'

Bottom of plug 3 @ 2350'

Top of plug 2 @ 3420'

Perforations @ 3513' - 3953'

Bottom of plug 2 @ 3950'

Top of plug 1 @ 4235'

Perforations @ 4348' - 4441'

Bottom of plug 1 @ 4435'

10.50# 4-1/2" M-60 Casing @ 4514' KB

*Handwritten notes:*  
OK  
192 KB

*Handwritten notes:*  
OK  
all inlets to be pointed more up at 50 ft intervals

*Handwritten notes:*  
OK  
H505K5

*Handwritten notes:*  
OK  
2/4/2013

*Handwritten notes:*  
OK  
350 SK5

Schematic is not to scale

T Oct 01/09/13



7901409A

WW-4A  
Revised 6-07

1) Date: May 22, 2013  
2) Operator's Well Number  
McLean A-171

3) API Well No.: 47 - 079 - 01409

**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>David J. Sowards, et ux</u> ✓	Name <u>None</u>
Address <u>22 Nilan Drive</u>	Address _____
<u>Hurricane, WV 25526</u>	_____
(b) Name <u>John S. Casto, et ux</u> ✓	(b) Coal Owner(s) with Declaration
Address <u>P.O. Box 35</u>	Name <u>Putnam Company (Frank A. Hardy, et al)</u> ✓
<u>Red House, WV 25168</u>	Address <u>P.O. Box 5610</u>
(c) Name _____	<u>Princeton, WV 24740</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Jamie Stevens</u> ✓	(c) Coal Lessee with Declaration
Address <u>HC 62 - Box 1 C</u>	Name <u>N/A</u>
<u>Kenna, WV 25248</u>	Address _____
Telephone <u>(304) 206-7775</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.

<p>COMMONWEALTH OF PENNSYLVANIA</p> <p>Notarial Seal</p> <p>Constance C. Carden, Notary Public</p> <p>McDonald Boro, Washington County</p> <p>My Commission Expires Nov. 16, 2013</p> <p>Member, Pennsylvania Association of Notaries</p>	Well Operator	<u>Cabot Oil &amp; Gas Corporation</u>
	By:	<u>Kenneth L. Marcum</u> <i>Kenneth L. Marcum</i>
	Its:	<u>Regulatory Supervisor</u>
	Address	<u>Five Penn Center, West, Ste. 401</u>
	Telephone	<u>Pittsburgh, PA 15276</u>

Subscribed and sworn before me this 22nd day of May  
Constance C. Carden Notary Public  
My Commission Expires November 16, 2013

Received

MAY 23 2013

**Oil and Gas Privacy Notice**

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

06/21/2013

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Cabot Oil & Gas Corporation OP Code                     

Watershed Little Guano Creek Quadrangle Bancroft

Elevation 671.51' County Putnam District Union

Description of anticipated Pit Waste: None - no cuttings produced during plugging operation

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

Will a synthetic liner be used in the pit? N/A . If so, what mil.?                     

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)  
**XX**      Other (Explain no treated pit wastes will be produced)

*STEEL TANK WILL BE USED FOR EFFLUENT.*

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. no drilling proposed  
-If oil based, what type? Synthetic, petroleum, etc.                     

Additives to be used?                     

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?                     

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

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

Company Official Signature *Kenneth L. Marcum*

Company Official (Typed Name) Kenneth L. Marcum

Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 22nd day of May, 2013

*Constance C. Carden*

Notary Public

MAY 23 2013

My commission expires November 16, 2013

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Constance C. Carden, Notary Public  
McDonald Boro, Washington County  
My Commission Expires Nov. 16, 2013  
Member, Pennsylvania Association of Notaries

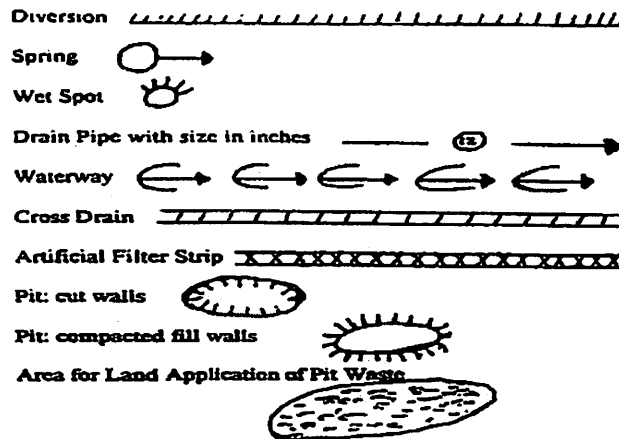
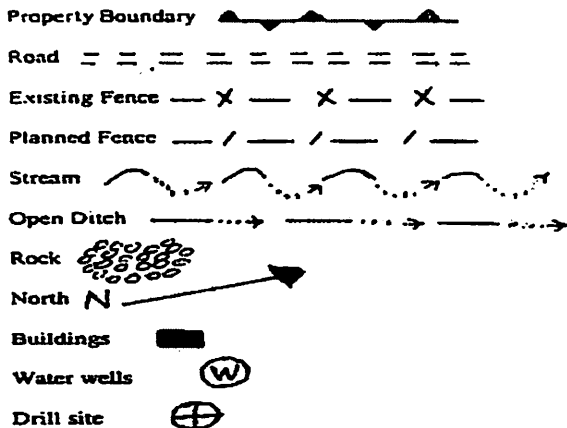
06/21/2013



Form WW-9

Operator's Well No. McLean A-171

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed \_\_\_\_\_ Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

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

Mulch Pulp Fiber at 1000 to 1500 Tons/acre

**Seed Mixtures**

Seed Type	Area I	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 Trefoll - 10	

Seed Type	Area II	lbs/acre
Grain Rye - 100	Red Clover - 5	Fescue - 40
Annual Rye - 20	White Clover - 5	
Perennial Rye - 1	Alta Sweet Clover - 5	
Yellow Clover - 5	Birdsfoot Trefoil - 10	

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

Photocopied section of involved 7.5' topographic sheet.

*Plugging  
47-019-01409-P*

Plan Approved by: *Janice Stevens*

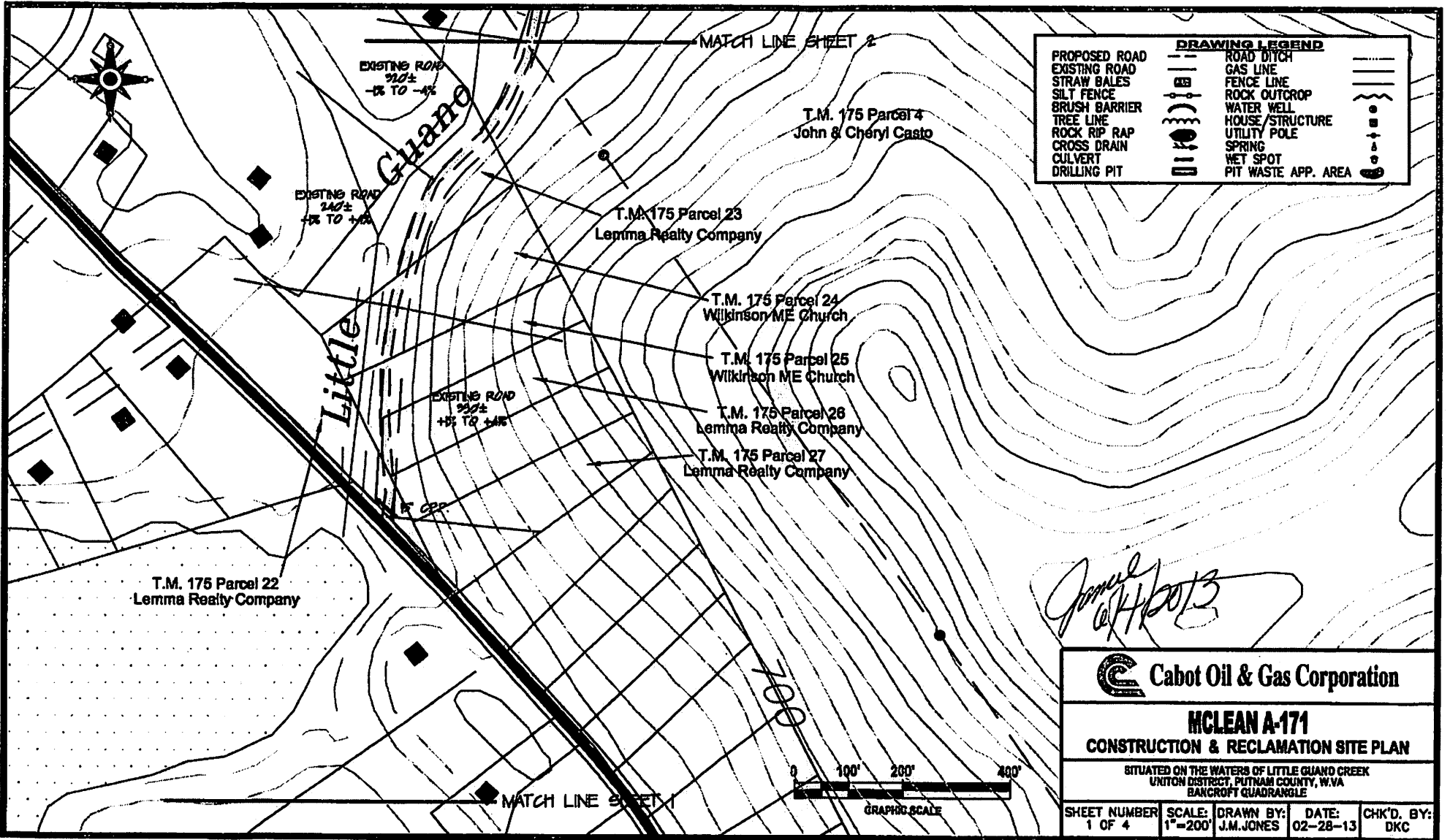
Comments: \_\_\_\_\_

Title: \_\_\_\_\_ Date: 6/4/2013

Field Reviewed?  Yes  No



7901409F



**C Cabot Oil & Gas Corporation**

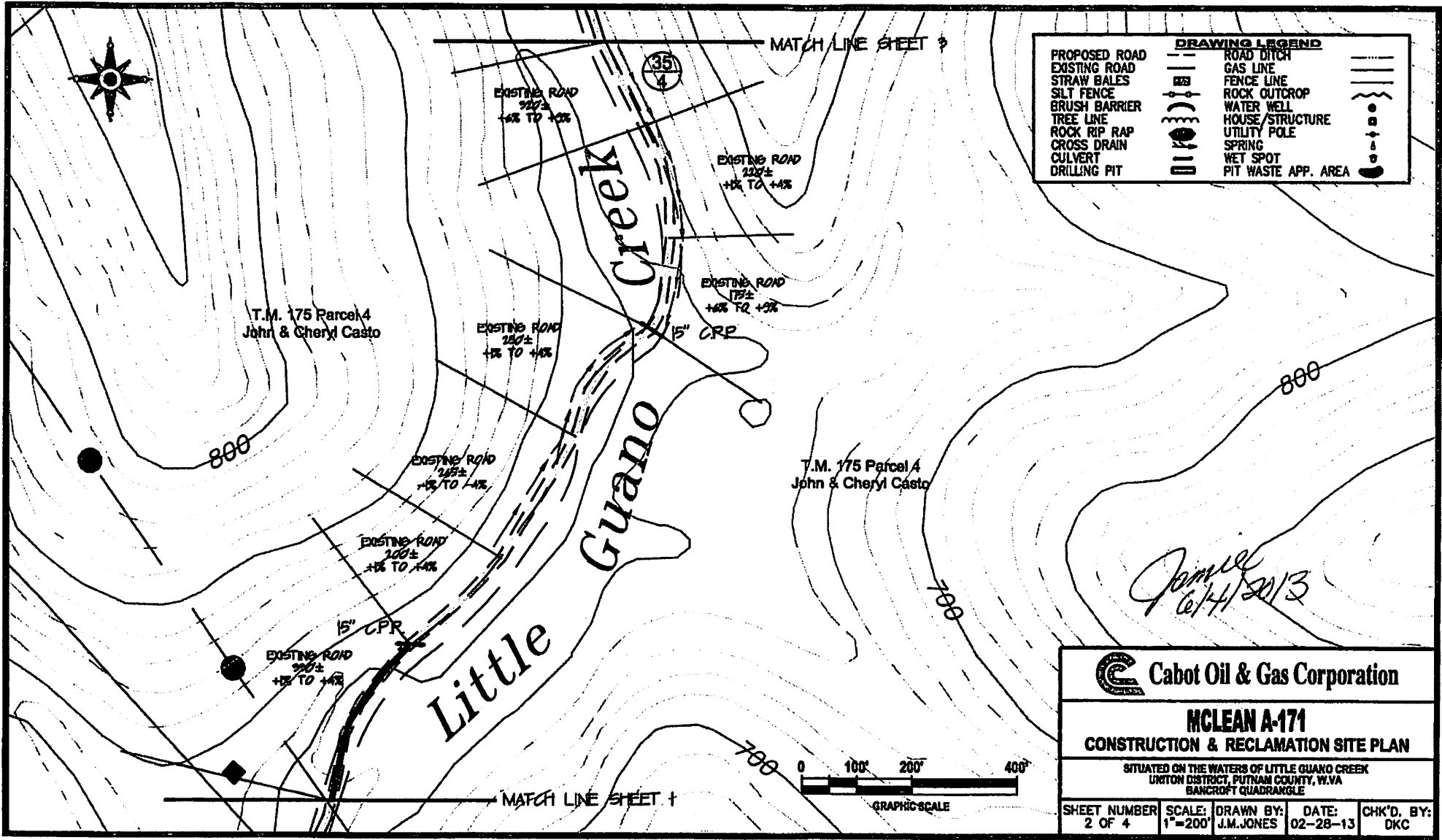
**MCLEAN A-171**

**CONSTRUCTION & RECLAMATION SITE PLAN**

SITUATED ON THE WATERS OF LITTLE GUANO CREEK  
UNION DISTRICT, PUTNAM COUNTY, W.VA  
BANCROFT QUADRANGLE

SHEET NUMBER 1 OF 4	SCALE 1"=200'	DRAWN BY: J.M. JONES	DATE: 02-28-13	CHK'D. BY: DKC
------------------------	------------------	-------------------------	-------------------	-------------------

7901409f



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

*James*  
6/14/2013

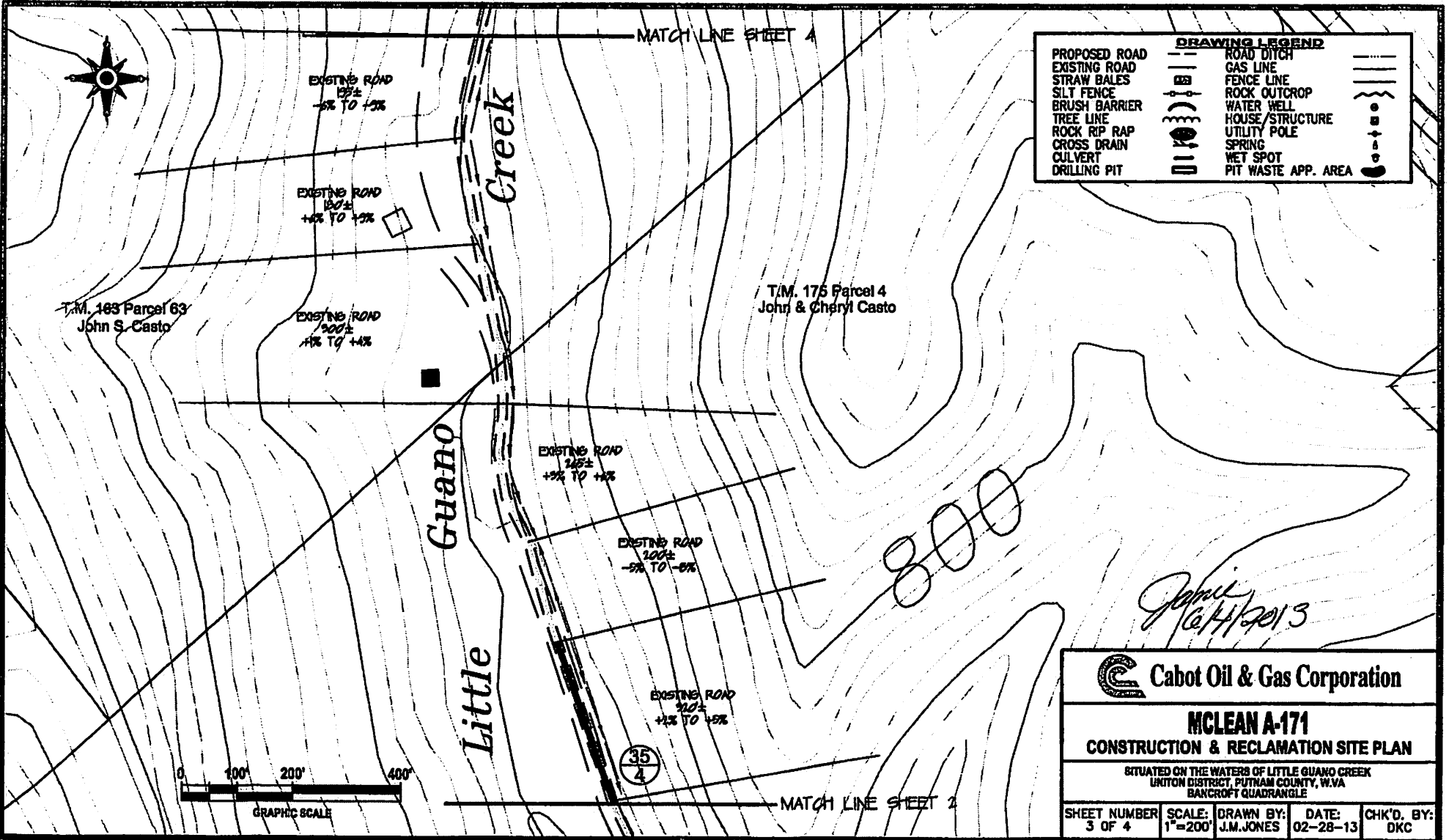
**C Cabot Oil & Gas Corporation**

**MCLEAN A-171**  
**CONSTRUCTION & RECLAMATION SITE PLAN**


SITUATED ON THE WATERS OF LITTLE GUANO CREEK  
UNTON DISTRICT, PUTNAM COUNTY, W.VA  
BANCROFT QUADRANGLE

SHEET NUMBER 2 OF 4	SCALE: 1"=200'	DRAWN BY: J.M.JONES	DATE: 02-28-13	CHK'D. BY: DKC
------------------------	-------------------	------------------------	-------------------	-------------------

7901409P



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

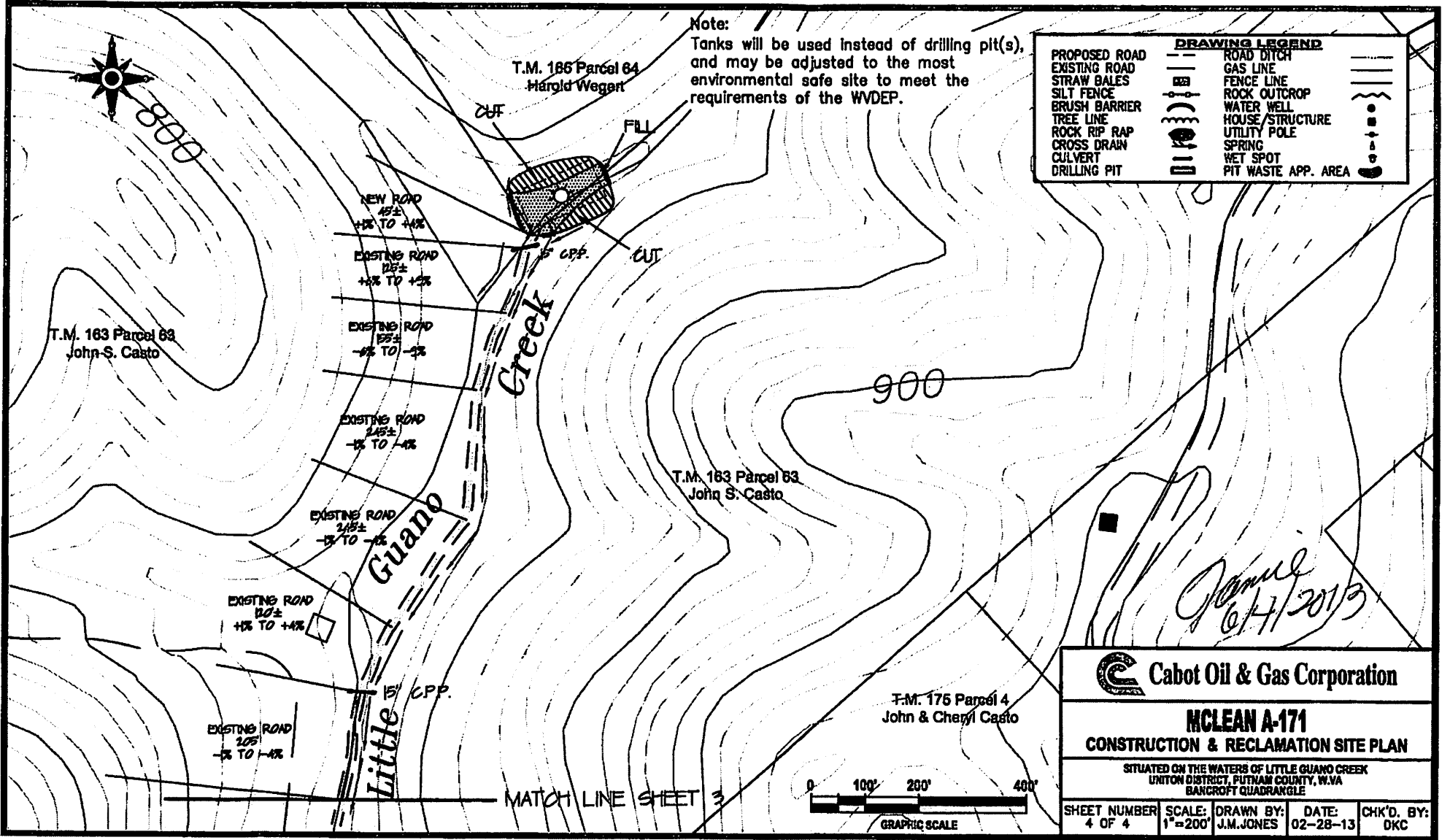
**MCLEAN A-171**  
**CONSTRUCTION & RECLAMATION SITE PLAN**

SITUATED ON THE WATERS OF LITTLE GUANO CREEK  
 UNION DISTRICT, PUTNAM COUNTY, W.VA  
 BANCROFT QUADRANGLE

SHEET NUMBER 3 OF 4	SCALE 1"=200'	DRAWN BY: J.M. JONES	DATE: 02-28-13	CHK'D. BY: DKC
------------------------	------------------	-------------------------	-------------------	-------------------

*John S. Casto*  
2/21/2013

7901409 F



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

*Amel*  
10/7/2013

	<b>Cabot Oil &amp; Gas Corporation</b>		
	<b>MCLEAN A-171</b>		
<b>CONSTRUCTION &amp; RECLAMATION SITE PLAN</b>			
SITUATED ON THE WATERS OF LITTLE GUANO CREEK UNION DISTRICT, PUTNAM COUNTY, W.VA BANCROFT QUADRANGLE			
SHEET NUMBER 4 OF 4	SCALE: 1"=200'	DRAWN BY: J.M.JONES	DATE: 02-28-13
			CHK'D. BY: DKC





7901409A

WR-35

Date March 10, 2009  
API # 47- 079 - 01409

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

Farm Name: Harold A. Wegert Operator Well No.: McLean A-171

LOCATION: Elevation: 676' Quadrangle: Bancroft  
District: Union County: Putnam  
Latitude: 11059' feet South of 38° DEG. 35' MIN. 00" SEC.  
Longitude: 7650' feet West of 81° DEG. 50' MIN. 00" SEC.

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

Agent: Thomas S. Liberatore  
Inspector: Rodney Dillon  
Permit Issued: 5/2/2007  
Well Work Commenced: July 27, 2007  
Well Work Completed: August 24, 2007  
Verbal Plugging: \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_  
Total Depth (feet) 4532'  
Fresh Water Depths (ft) 20'  
Salt Water Depths (ft) 642', 1625'  
Is coal being mined in area (Y/N)? NO  
Coal Depths (ft) NONE REPORTED

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
13-3/8"	37'	37'	
9-5/8"	274'	274'	192
7"	1957'	1957'	450
4-1/2"		4514'	350
2-3/8"		4368'	

**OPEN FLOW DATA**

Producing Formation RHINESTREET Pay Zone \_\_\_\_\_  
Depth (ft) 4348'-4441'  
Gas: Initial Open Flow TSTM MCF/d Oil: Initial Open Flow 0 Bbl/d  
Final Open Flow 231 (COMMINGLED) MCF/d Final Open Flow 0 Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock pressure 410 psig surface pressure after 3736 Hours

Second Producing Formation HURON SHALE Pay Zone \_\_\_\_\_  
Depth (ft) 3513'-3953'  
Gas: Initial Open Flow TSTM MCF/d Oil: Initial Open Flow 0 Bbl/d  
Final Open Flow 231 (COMMINGLED) MCF/d Final Open Flow 0 Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock pressure 410 psig surface pressure after 3636 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

RECEIVED  
Office of Oil & Gas  
MAR 12 2009

For: CABOT OIL & GAS CORPORATION  
By: [Signature] Drilling Superintendent  
Date: 3/11/09

WV Department of  
Environmental Protection

Received

MAY 25 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

06/21/2013

Bancroft 4

STAGE	PERFS	ACID 15% HCl	FOAM	SAND (lbs)	NITROGEN (scf)	BDP	ATP	MTP	ISIP
1-Rhinestreet	4348-4441 (20)				802,667	3573	3467	3588	2442
2-Huron Shale	3513-3953 (40)	504	85Q	90,900	2,127,000	1809	3498	3570	2202

FORMATION	TOP	BOTTOM	REMARKS
SILT / SHALE	SURFACE	1386	
SALT SAND	1386	1602	
SHALE	1602	1625	
BIG LIME	1625	1821	
INJUN	1821	1866	
SHALE	1866	2301	
BEREA	2301	2322	
SHALE	2322	3507	
HURON	3507	3956	
SHALE	3956	4326	
RHINESTREET	4326	4505	
MARCELLUS	4505	4523	
SHALE	4523	4532	TD

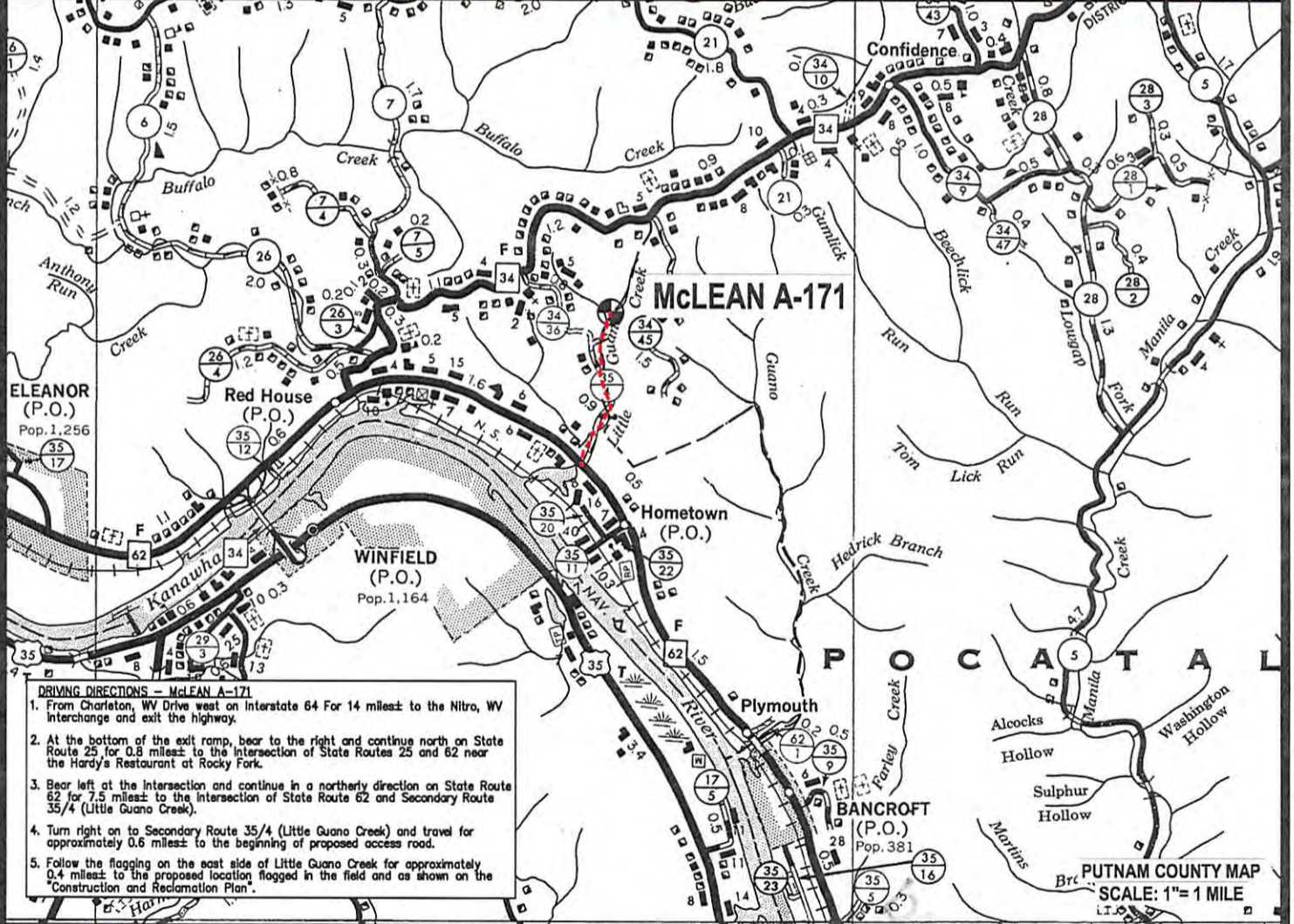
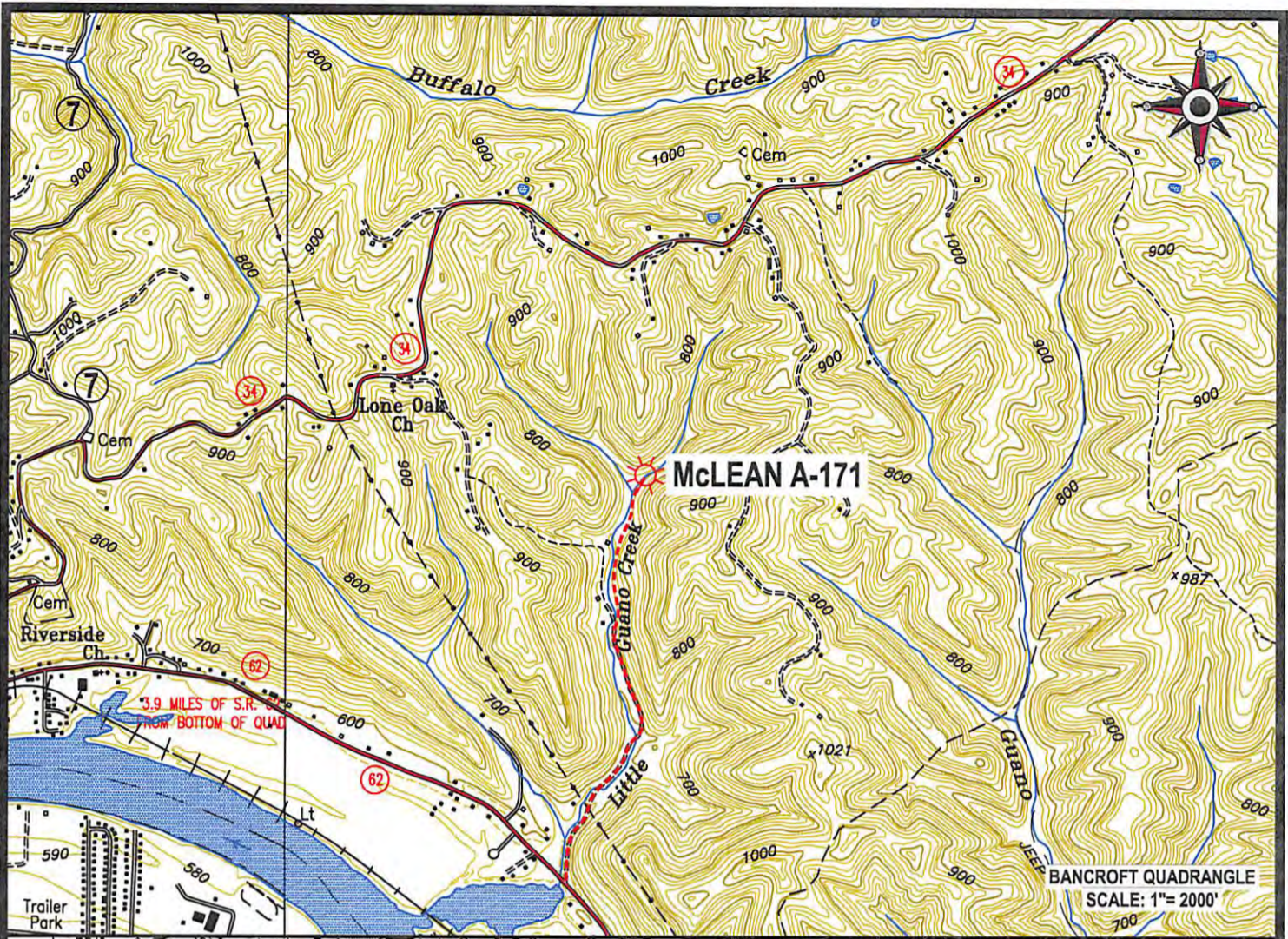
Received

MAY 23 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

06/21/2013





- DRIVING DIRECTIONS - McLEAN A-171**
1. From Charleston, WV Drive west on Interstate 64 For 14 miles± to the Nitro, WV Interchange and exit the highway.
  2. At the bottom of the exit ramp, bear to the right and continue north on State Route 25 for 0.8 miles± to the intersection of State Routes 25 and 62 near the Hardy's Restaurant at Rocky Fork.
  3. Bear left at the intersection and continue in a northerly direction on State Route 62 for 7.5 miles± to the intersection of State Route 62 and Secondary Route 35/4 (Little Guano Creek).
  4. Turn right on to Secondary Route 35/4 (Little Guano Creek) and travel for approximately 0.6 miles± to the beginning of proposed access road.
  5. Follow the flagging on the east side of Little Guano Creek for approximately 0.4 miles± to the proposed location flagged in the field and as shown on the "Construction and Reclamation Plan".

 Cabot Oil & Gas Corporation

**McLEAN A-171**  
LOCATION MAP 06/21/2013



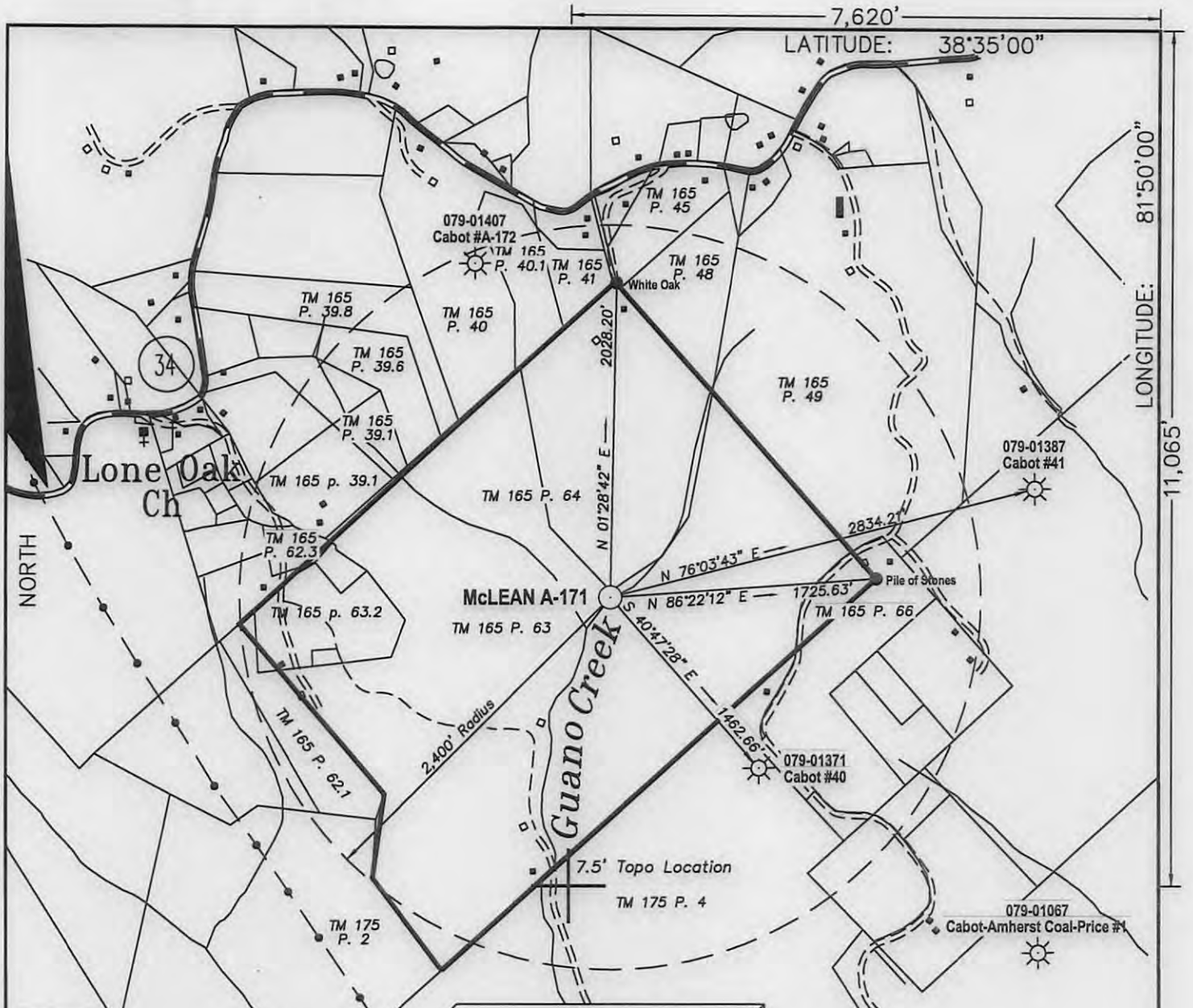
**CUNNINGHAM**  
LAND SURVEYING & MAPPING SERVICES, LLC

- 5305 MORNING DOVE LANE •
- CROSS LANES, WEST VIRGINIA 25313 •
- VOICE (304) 561-4129 • FAX (304) 776-0708 •
- E-MAIL ADDRESS • DKCUNNINGHAM@CHARTER.NET •

LOCATED ON THE WATERS  
OF LITTLE GUANO CREEK  
UNION DISTRICT, PUTNAM COUNTY, W.VA  
BANCROFT QUADRANGLE

PROJECT: CABOT	DWG. NO. McLEAN_A171_LOC.DWG
DATE: 02/28/13	SCALE: AS NOTED
DRAWN BY: J.M. JONES	CHK'D BY: D.K.C.
FILE: C:\PROJECT FOLDER\CABOT	





**NOTES:**

All known oil & gas wells within 2,400' of the proposed well location are shown hereon on the WV State Plane Coordinate System, NAD 27 South Zone.

Coordinates for Well McLEAN A-171
West Virginia State Plane South Zone NAD '27 N 566,621.80 : E 1,754,069.08
UTM 17 - NAD 83 - Meters N 4,267,529.63 : E 425,078.93

Surface Tract  
Mineral Tract

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE #:  
DRAWING #: McLean\_A171\_ww6  
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 ENVIORNENTAL 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: February 25, 2013  
OPERATOR'S WELL #: McLean A-171  
API WELL #: 47 079 01409P  
STATE COUNTY PERMIT

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

WATERSHED: Little Guano Creek ELEVATION: 671.51'  
COUNTY/DISTRICT: Putnam/Union QUADRANGLE: Bancroft  
SURFACE OWNER: Harold A. Wegert (Tax Map 165, Parcel 64) ACREAGE: 33.08  
OIL & GAS ROYALTY OWNER: Kenneth M. Bowyer, Jr. ACREAGE: 24,610 1/8  
LEASE #: 47-0560 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 Brian Hall  
Address Five Penn Center West, Suite 401 Address P.O. Box 260  
City Pittsburgh State PA Zip Code 15276 City Danville State WV Zip Code 25053

06/21/2013



7901409 P



May 22, 2013

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

RE: McLean A-171  
Union District, Putnam County, WV  
API # 47-079-01409  
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 that reads 'Kenneth L. Marcum'.

Kenneth L. Marcum  
Regulatory Supervisor

Received

MAY 23 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection