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 penalities 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

7901409P

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
Address Five Penn Center West, Ste. 401
Pittsburgh, PA 15276

7) Designated Agent Brian D. Hall
Address 6804 Lick Creek Road
Danville, WV 25053

8) Oil and Gas Inspector to be notified
Name Jamie Stevens
Address HC 62 - Box 1 C
Kenna, WV 25248

9) Plugging Contractor
Name Francis Brothers, LLC
Address 622 Church St. N.
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 James A Stevens Date 6/4/2013

7901409P

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) OK
Injun formation: 1821' – 1866' (not perforated) OK
Big Lime formation: 1625' – 1821' (not perforated) OK
No coal reported
Salt water @ 642' & 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 ½" 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 ½" 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 to surface.
25. TOOH with tubing and lay down.

7901409P

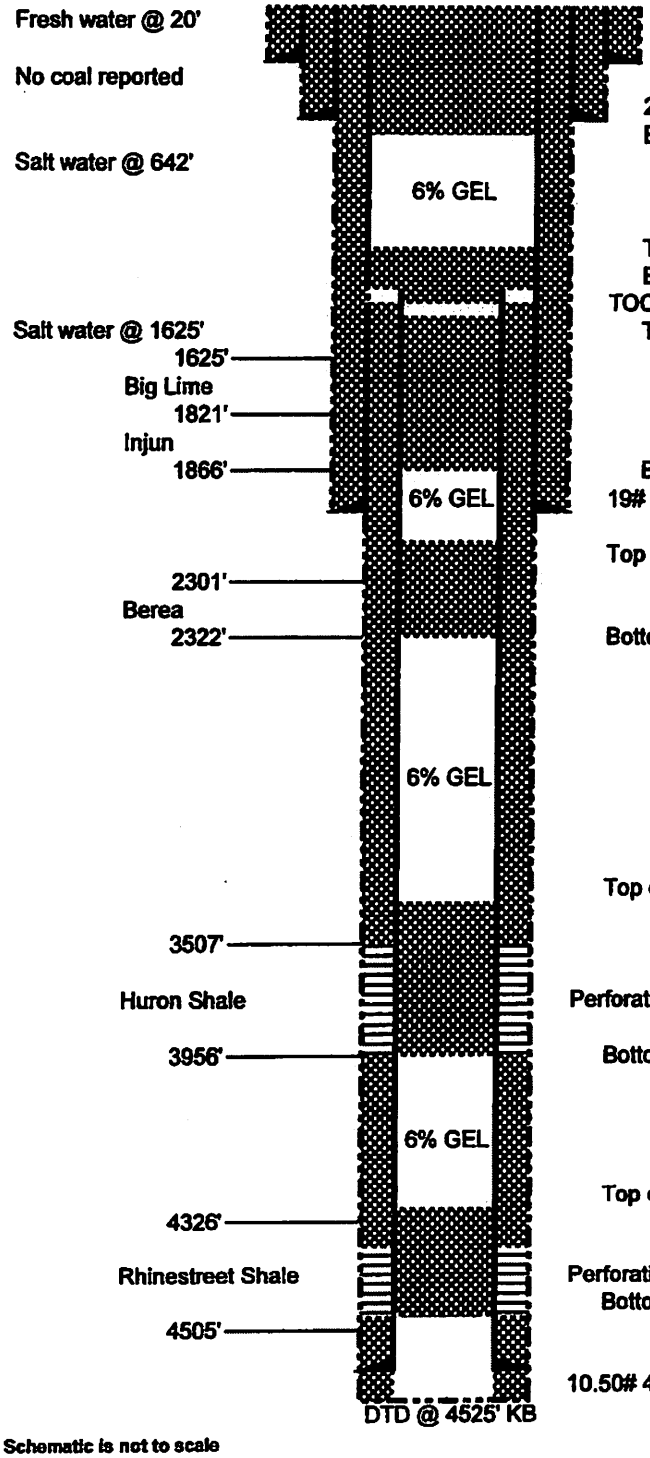
26. RDMO Cement company
27. Erect Monument according to Law.
28. RDMO.

7901409P

McLean A-171

API 47-079-01409

PROPOSED CONFIGURATION



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

Schematic is not to scale

T Ott 01/09/13

7901409P

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 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served: ✓
(a) Name: David J. Sowards, et ux
Address: 22 Nilan Drive
Hurricane, WV 25526
(b) Name: John S. Casto, et ux ✓
Address: P.O. Box 35
Red House, WV 25168
(c) Name:
Address:

6) Inspector: Jamie Stevens ✓
Address: HC 62 - Box 1 C
Kenna, WV 25248
Telephone: (304) 206-7775

5) (a) Coal Operator
Name: None
Address:

(b) Coal Owner(s) with Declaration
Name: Putnam Company (Frank A. Hardy, et al) ✓
Address: P.O. Box 5610
Princeton, WV 24740
Name:
Address:

(c) Coal Lessee with Declaration
Name: N/A
Address:

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: Five Penn Center, West, Ste. 401
Pittsburgh, PA 15276
Telephone:

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

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
WV Dept. of Environmental Protection
Office of Oil and Gas

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.

7901409P

WW-9
Rev. 5/10

Page 1 of
API Number 47 - 079 - 01409
Operator's Well No. McLean A-171

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:

STEEL TANK WILL BE USED FOR EFFLUENT.

- 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

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

Received
MAY 23 2013
Office of Oil and Gas
W.V. Dept. of Environmental Protection

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

Constance C. Carden Notary Public

My commission expires November 16, 2013

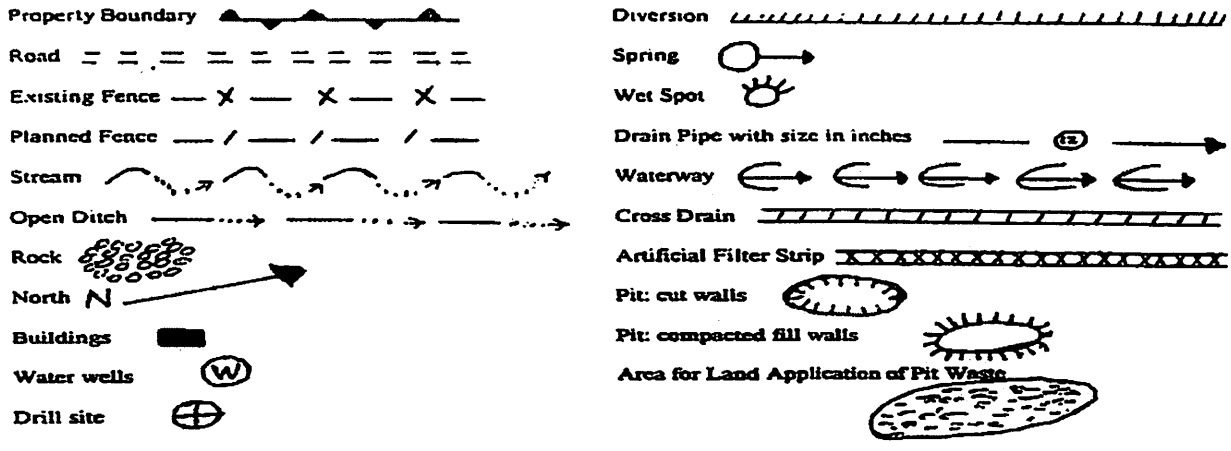
COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires Nov. 16, 2013
Member, Pennsylvania Association of Notaries

7901409P

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

Area I		Area II	
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 - 1 Alta Sweet Clover - 5	
Yellow Clover - 5 Birdsfoot Trefoil - 10		Yellow Clover - 5 Birdsfool Trefoil - 10	

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

Photocopied section of involved 7.5' topographic sheet.

Plugging
47-079-01409-P

Plan Approved by: Jamie Stevens

Comments: _____

Title: _____ Date: 6/4/2013

Field Reviewed? (✓) Yes ( ) No

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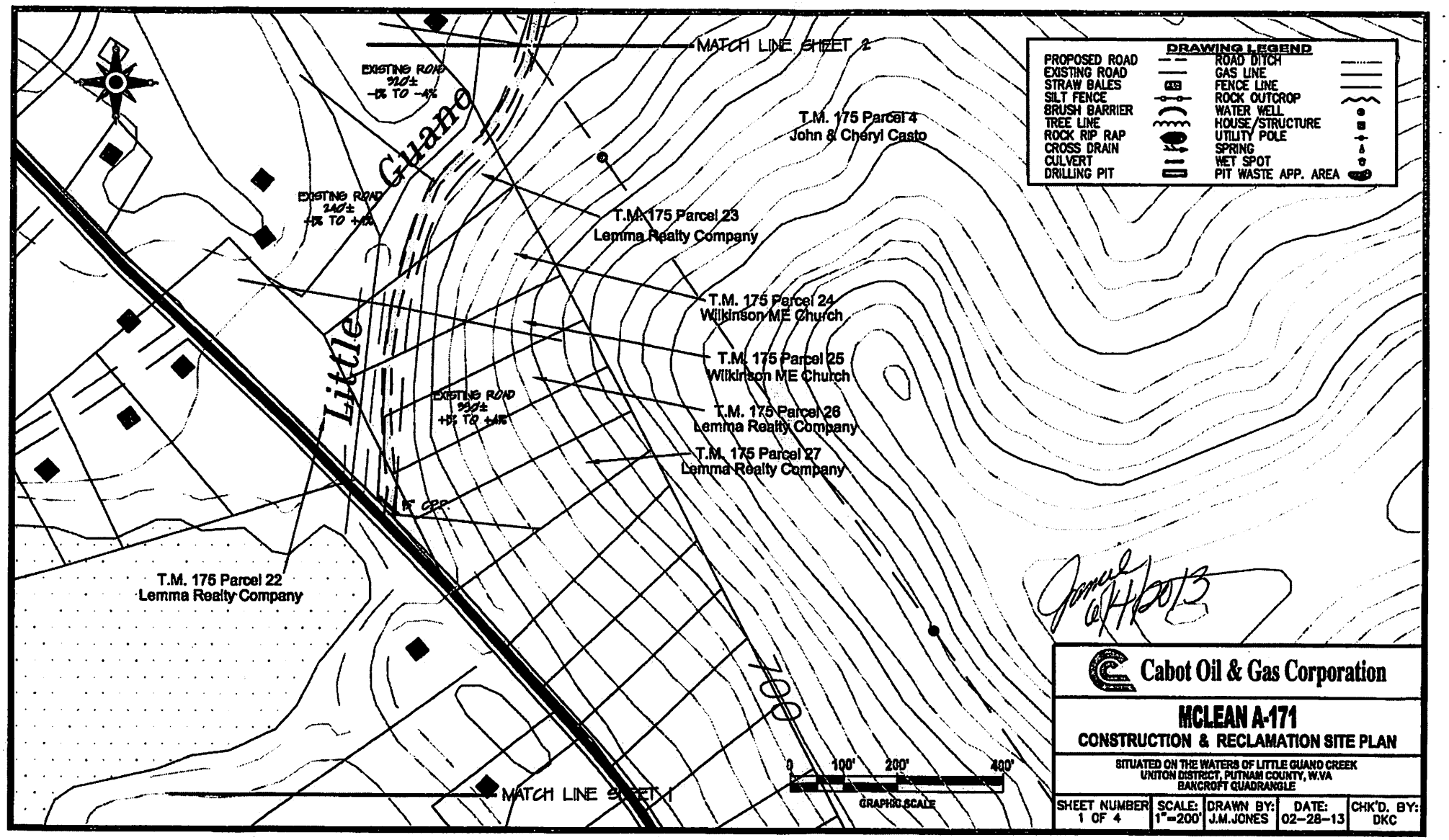
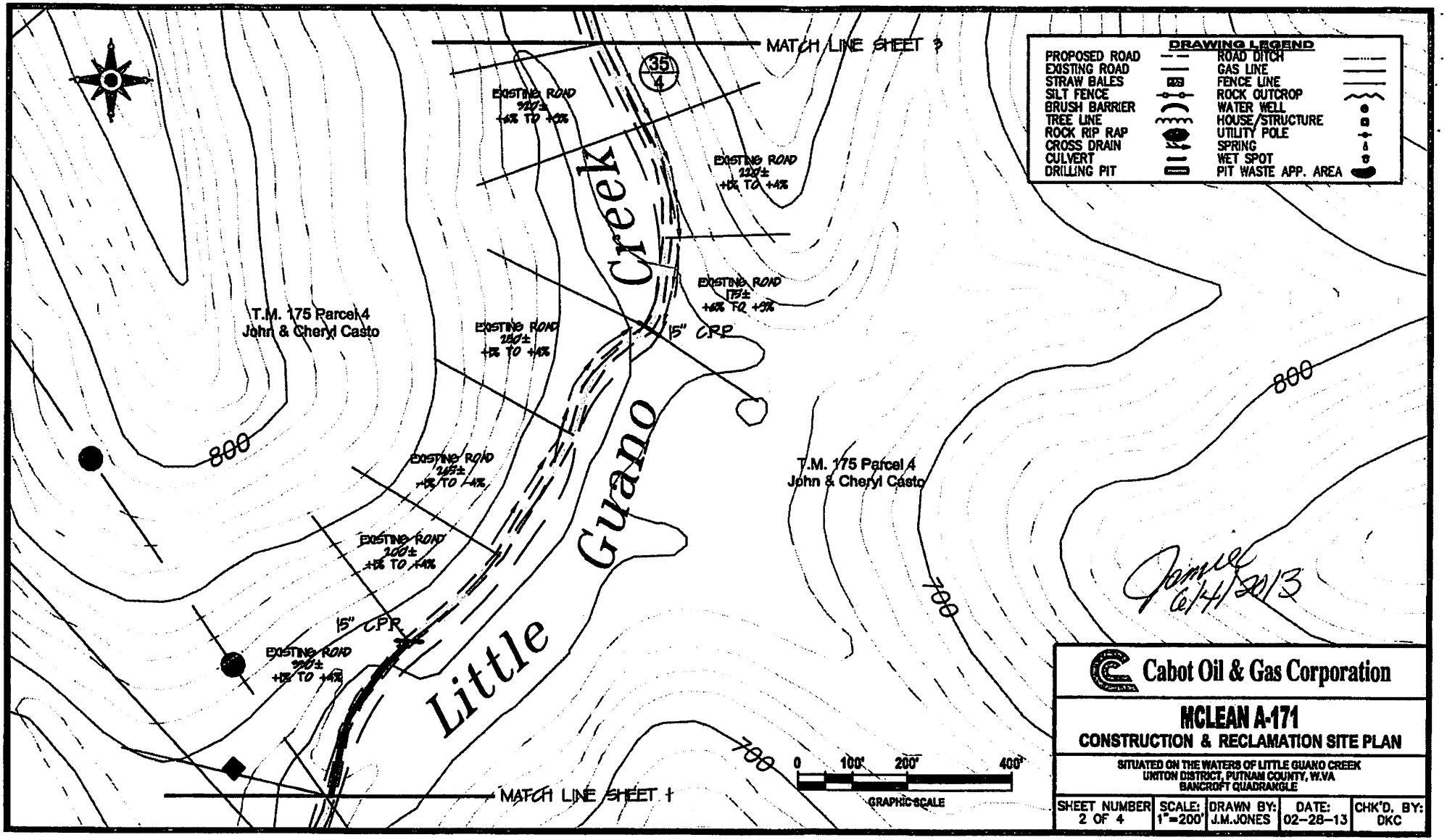


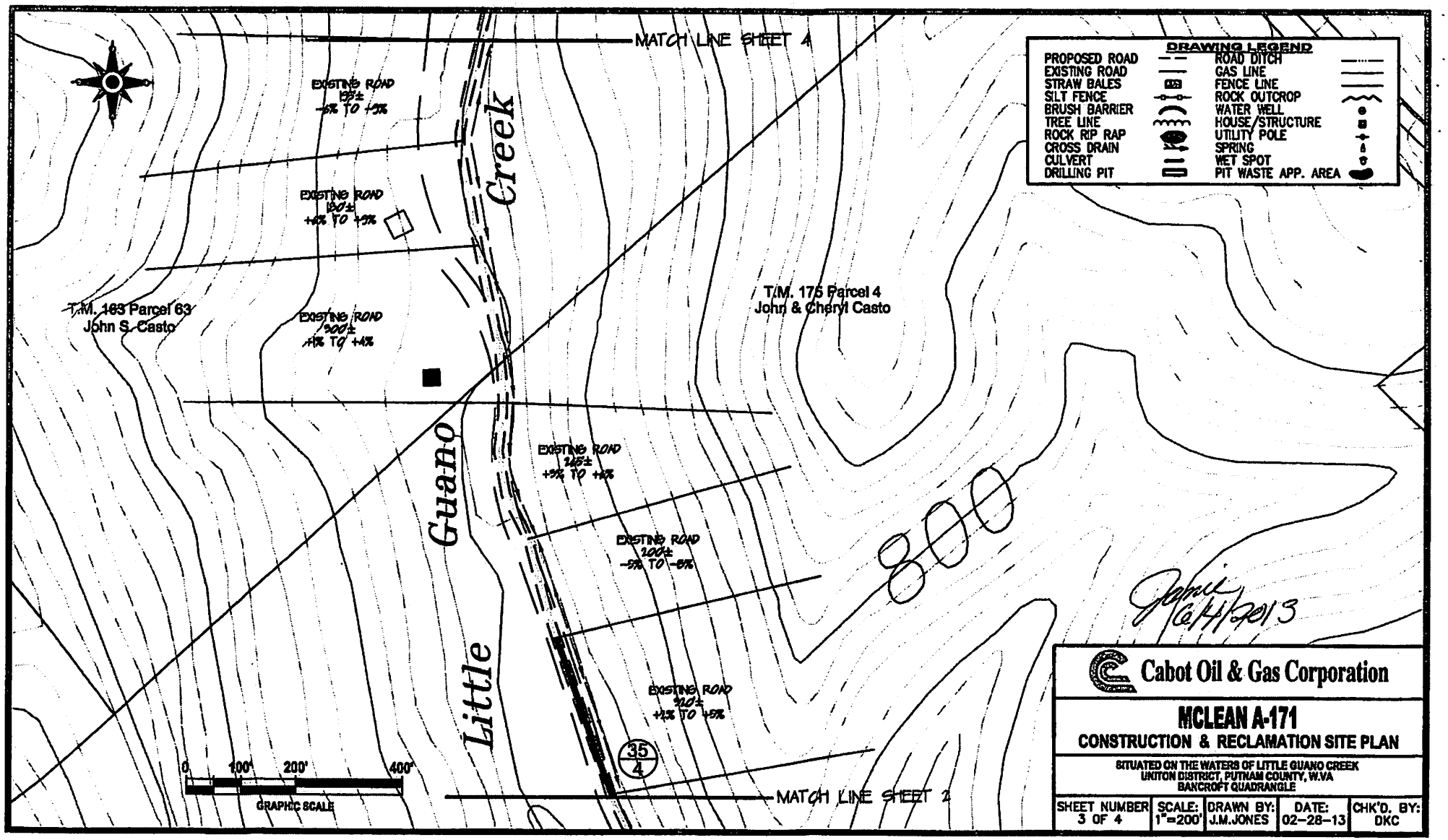
MATCH LINE SHEET 2
EXISTING ROAD 320± -1% TO -4%
EXISTING ROAD 240± +1% TO +4%
EXISTING ROAD 330± +1% TO +4%
Little Guano
T.M. 175 Parcel 4
John & Cheryl Casto
T.M. 175 Parcel 23
Lemma Realty Company
T.M. 175 Parcel 24
Wilkinson ME Church
T.M. 175 Parcel 25
Wilkinson ME Church
T.M. 175 Parcel 26
Lemma Realty Company
T.M. 175 Parcel 27
Lemma Realty Company
T.M. 175 Parcel 22
Lemma Realty Company
700
MATCH LINE SHEET 1
0 100' 200' 400'
GRAPHIC SCALE
DRAWING LEGEND
PROPOSED ROAD
EXISTING ROAD
STRAW BALES
SILT FENCE
BRUSH BARRIER
TREE LINE
ROCK RIP RAP
CROSS DRAIN
CULVERT
DRILLING PIT
ROAD DITCH
GAS LINE
FENCE LINE
ROCK OUTCROP
WATER WELL
HOUSE/STRUCTURE
UTILITY POLE
SPRING
WET SPOT
PIT WASTE APP. AREA
Cabot Oil & Gas Corporation
MCLEAN A-171
CONSTRUCTION & RECLAMATION SITE PLAN
SITUATED ON THE WATERS OF LITTLE GUANO CREEK
UNITON 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

7901409P

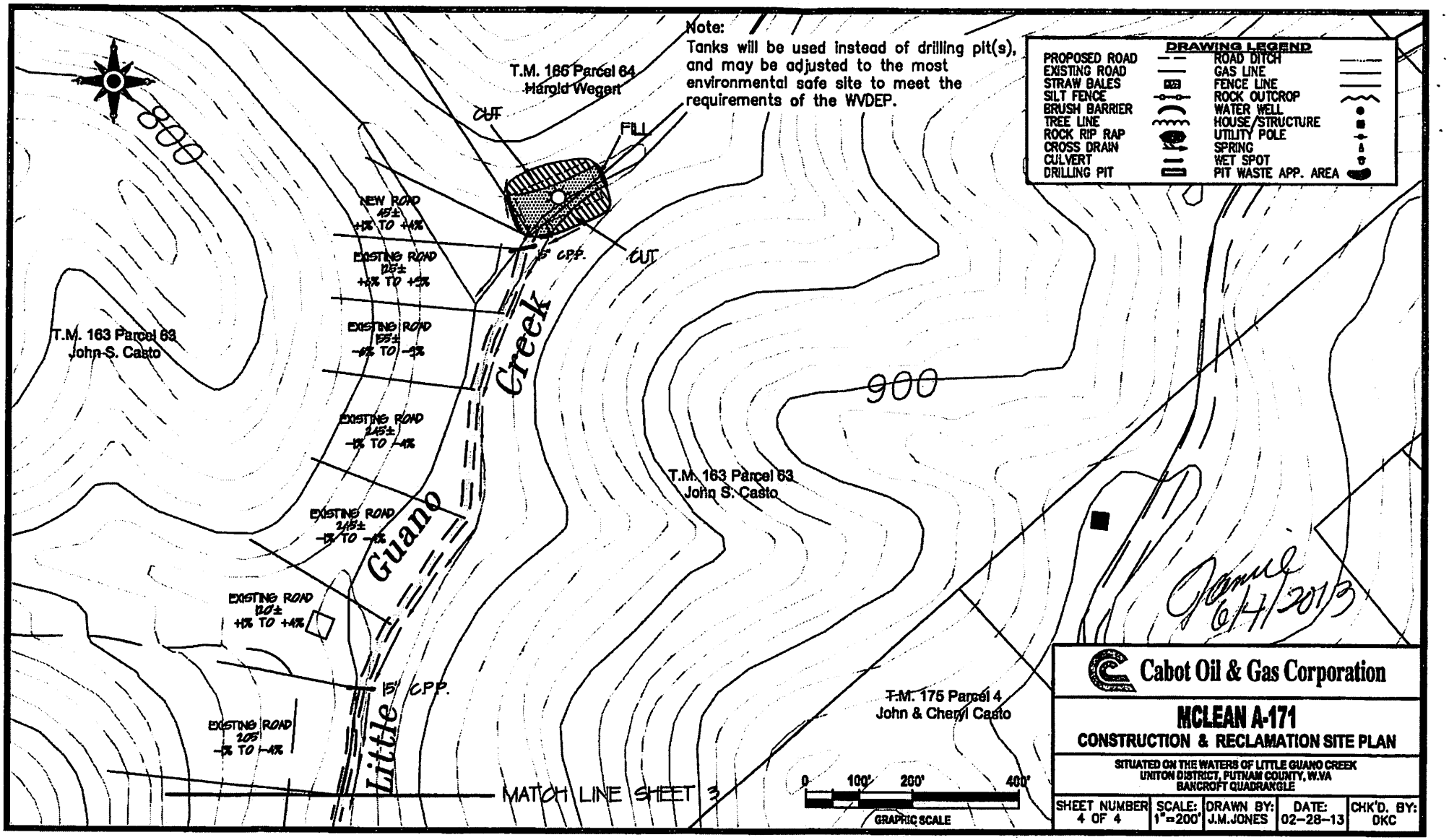


MATCH LINE SHEET 3
35
4
EXISTING ROAD 320± +6% TO +9%
EXISTING ROAD 220± +1% TO +4%
EXISTING ROAD 175± +6% TO +9%
EXISTING ROAD 250± +1% TO +4%
EXISTING ROAD 245± +1% TO +4%
EXISTING ROAD 200± +1% TO +4%
EXISTING ROAD 330± +1% TO +4%
15" CPP
15" CPP
T.M. 175 Parcel 4
John & Cheryl Casto
T.M. 175 Parcel 4
John & Cheryl Casto
Little Guano Creek
800
800
700
700
MATCH LINE SHEET 1
0 100' 200' 400'
GRAPHIC SCALE
DRAWING LEGEND
PROPOSED ROAD
EXISTING ROAD
STRAW BALES
SILT FENCE
BRUSH BARRIER
TREE LINE
ROCK RIP RAP
CROSS DRAIN
CULVERT
DRILLING PIT
ROAD DITCH
GAS LINE
FENCE LINE
ROCK OUTCROP
WATER WELL
HOUSE/STRUCTURE
UTILITY POLE
SPRING
WET SPOT
PIT WASTE APP. AREA
Jamie 6/4/2013
Cabot Oil & Gas Corporation
MCLEAN A-171
CONSTRUCTION & RECLAMATION SITE PLAN
SITUATED ON THE WATERS OF LITTLE GUANO CREEK
UNITON 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


MATCH LINE SHEET 4
MATCH LINE SHEET 2
Little Guano Creek
EXISTING ROAD 135± -5% TO +5%
EXISTING ROAD 130± +4% TO +5%
EXISTING ROAD 300± +1% TO +4%
EXISTING ROAD 245± +5% TO +8%
EXISTING ROAD 100± -5% TO -6%
EXISTING ROAD 220± +1% TO +5%
T.M. 163 Parcel 63
John S. Casto
T.M. 175 Parcel 4
John & Cheryl Casto
35
4
0 100' 200' 400'
GRAPHIC SCALE
DRAWING LEGEND
PROPOSED ROAD
EXISTING ROAD
STRAW BALES
SILT FENCE
BRUSH BARRIER
TREE LINE
ROCK RIP RAP
CROSS DRAIN
CULVERT
DRILLING PIT
ROAD DITCH
GAS LINE
FENCE LINE
ROCK OUTCROP
WATER WELL
HOUSE/STRUCTURE
UTILITY POLE
SPRING
WET SPOT
PIT WASTE APP. AREA
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

7901409P


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
EXISTING ROAD
STRAW BALES
SILT FENCE
BRUSH BARRIER
TREE LINE
ROCK RIP RAP
CROSS DRAIN
CULVERT
DRILLING PIT
ROAD DITCH
GAS LINE
FENCE LINE
ROCK OUTCROP
WATER WELL
HOUSE/STRUCTURE
UTILITY POLE
SPRING
WET SPOT
PIT WASTE APP. AREA
T.M. 166 Parcel 64
Harold Wegart
T.M. 163 Parcel 63
John S. Casto
T.M. 163 Parcel 63
John S. Casto
T.M. 175 Parcel 4
John & Cheryl Casto
CUT
FILL
CUT
15' C.P.P.
15' C.P.P.
NEW ROAD 45± +1% TO +4%
EXISTING ROAD 125± +3% TO +3%
EXISTING ROAD 155± -6% TO -3%
EXISTING ROAD 245± -1% TO -4%
EXISTING ROAD 245± -1% TO -4%
EXISTING ROAD 120± +1% TO +4%
EXISTING ROAD 205± -1% TO -4%
Little Guano Creek
800
900
MATCH LINE SHEET 3
0 100' 200' 400'
GRAPHIC SCALE
6/4/2013
Cabot Oil & Gas Corporation
MCLEAN A-171
CONSTRUCTION & RECLAMATION SITE PLAN
SITUATED ON THE WATERS OF LITTLE GUANO CREEK
UNITON 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

7901409P

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

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

RECEIVED
Office of Oil & Gas
MAR 12 2009
WV Department of
Environmental Protection

Received
MAY 2 5 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

Bancroft 4

7901409P

PUT-1409

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

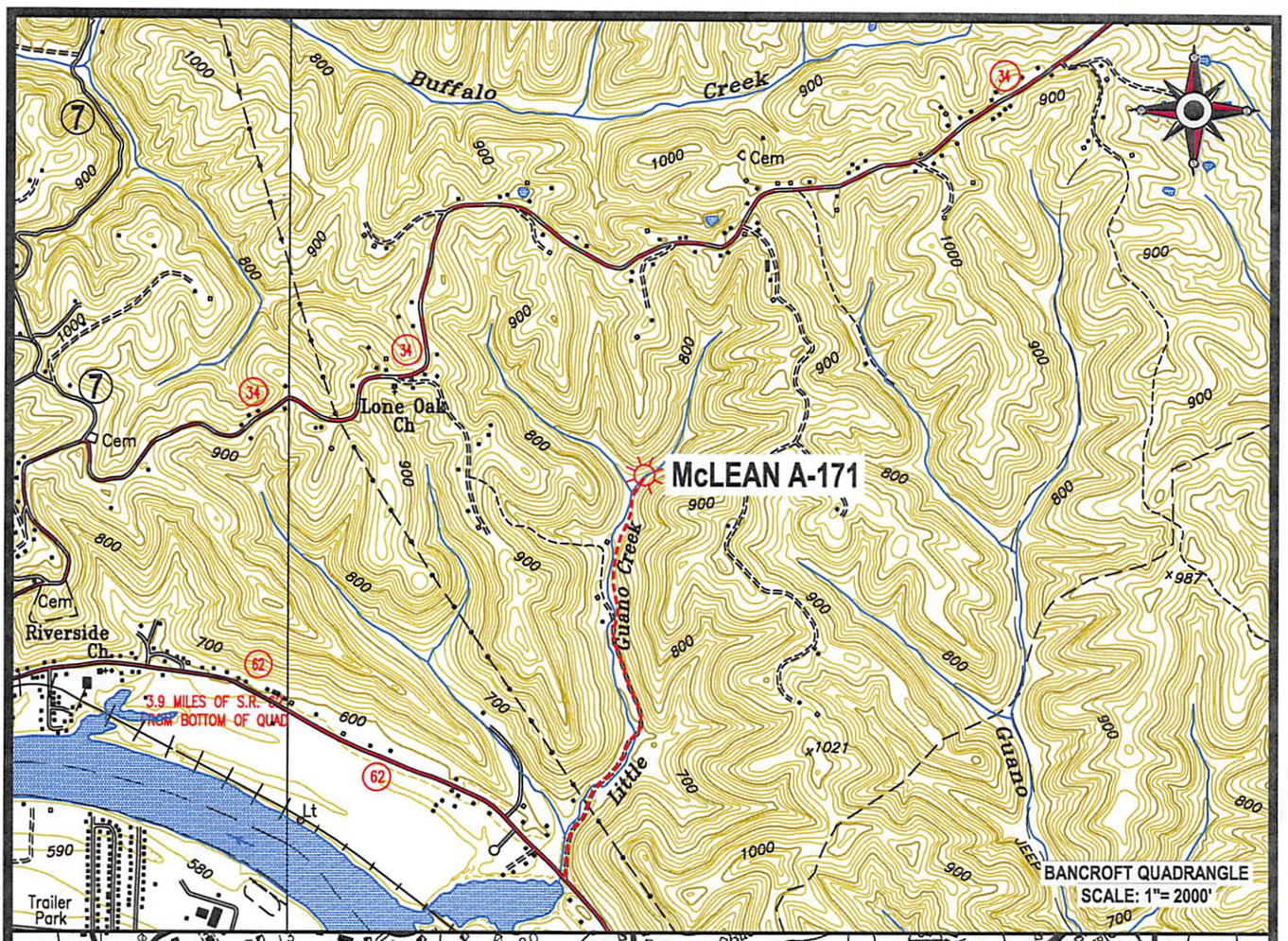
FORMATION	TOP	BOTTOM	REMARKS
SILT / SHALE	SURFACE	1386	
SALT SAND	1386	1602	
SHALE	1602	1625	
BIG LIME	1625	1821	
INJUN	1821	1866	
SHALE	1866	2301	
BEREA	2301	2322	
SHALE	2322	3507	
HURON	3507	3956	
SHALE	3956	4326	
RHINESTREET	4326	4505	
MARCELLUS	4505	4523	
SHALE	4523	4532	TD

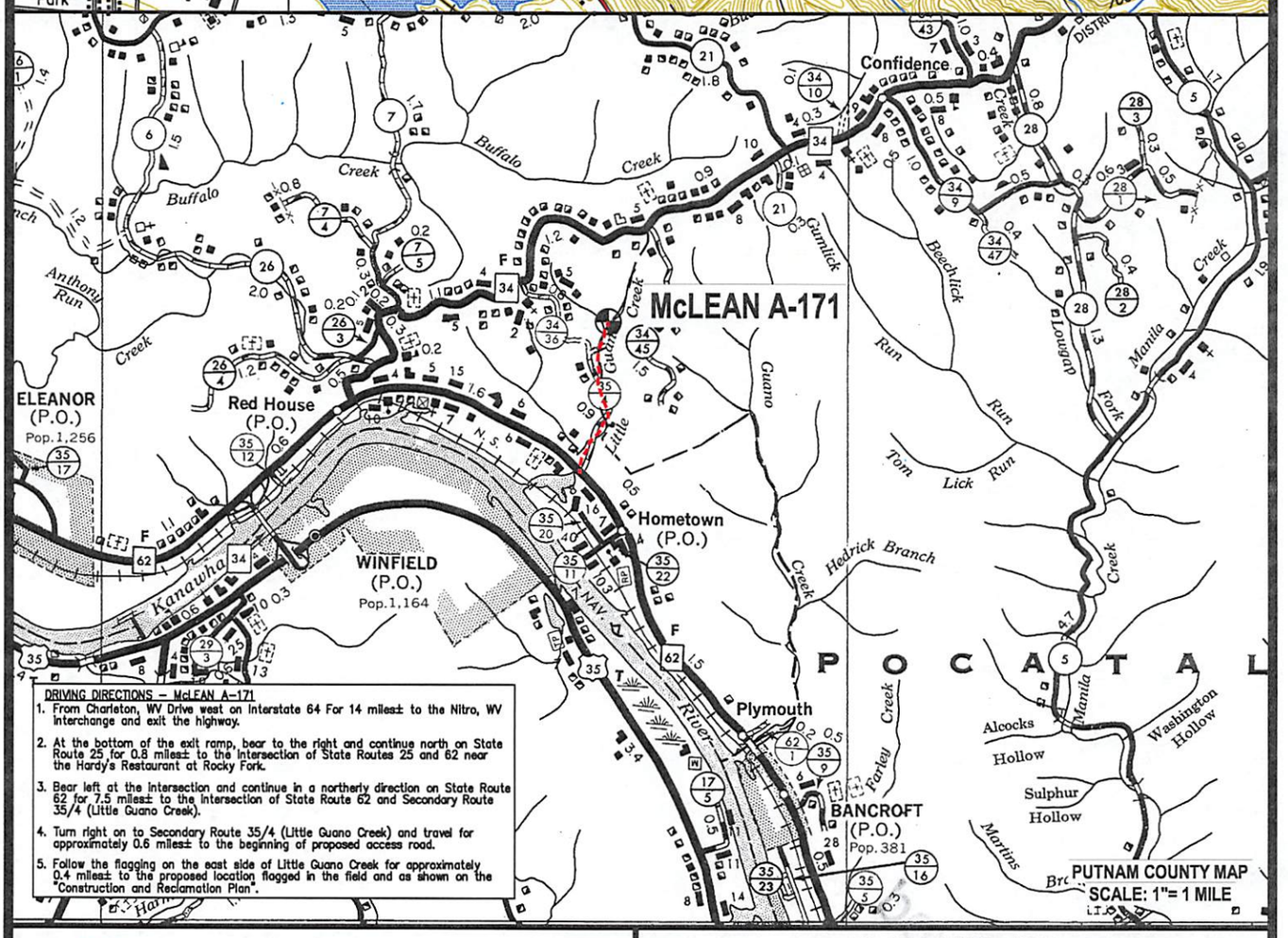
Received

MAY 23 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

7901409P





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".

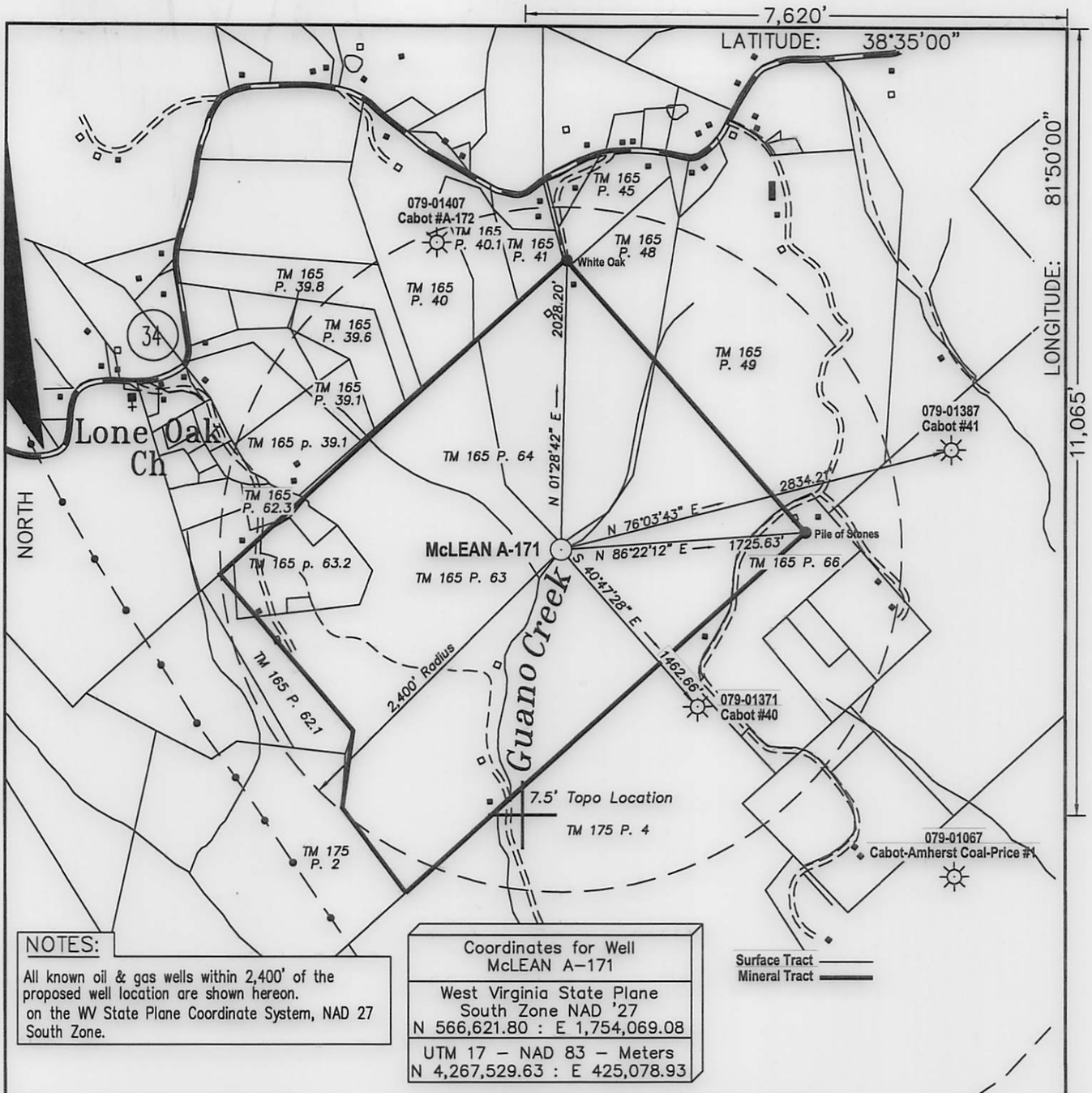
Cabot Oil & Gas Corporation

McLEAN A-171
LOCATION MAP

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

CUNNINGHAM
LAND SURVEYING & MAPPING SERVICES, LLC
• 5305 MORNING DOVE LANE •
• CROSS LANES, WEST VIRGINIA 25313 •
• VOICE (304) 561-4129 • FAX (304) 776-0703 •
• E-MAIL ADDRESS • DKCUNNINGHAM@CHARTER.NET •

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

(+) 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 ENVIROMENTAL PROTECTION.

Signed: Don K. Cunningham

R.P.E.: L.L.S.: 701

DON K. CUNNINGHAM LICENSED No. 701 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) 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 (STATE) 079 (COUNTY) 01409P (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 7/8

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

7901409 P

Cabot Oil & Gas Corporation

North Region

May 22, 2013

Chief
West Virginia Division of Environmental Protection
Office of Oil & Gas
601 57th 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,

Kenneth L. Marcum
Regulatory Supervisor

Received

MAY 23 2013

Office of Oil and Gas
WV Dept. of Environmental Protection