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

July 12, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4702062, 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: POCA LAND M-124
Farm Name: POCAHONTAS LAND CORP.
API Well Number: 47-4702062
Permit Type: Plugging
Date Issued: 07/12/2013

Promoting a healthy environment.

WW-4B
Rev. 2/01

1) Date May 22, 2013
2) Operator's
Well No. Pocahontas Land M-124
3) API Well No. 47-047-02062

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 2,136.09' Watershed Tug Fork River
District Adkin 01 County McDowell 47 Quadrangle Welch 665

6) Well Operator Cabot Oil & Gas Corporation
Address Five Penn Center, West, Ste. 401
Pittsburgh, PA 15276

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

8) Oil and Gas Inspector to be notified
Name Gary Kennedy
Address 120 North Ridge Street
Bluefield, WV 24701

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.

PLUG 4 & 5 NEED TO BE EXPANDING CEMENT PLUGS.

Received
MAY 23 2013
Office of Oil and Gas
WV Department of Environmental Protection

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

Work order approved by inspector _____ Date _____

POCAHONTAS LAND M-124
API # 47 - 047 - 02062
PLUGGING PROCEDURE

Current Configuration
DTD @ 4940'
20" conductor @ 44' KB, not cemented
13 3/8" — 37# LS casing @ 469' KB, cemented to surface
9 5/8" — 26# LS casing @ 1229' KB, cemented to surface
7" – 20" LS casing @ 1625' KB, cemented to surface
4 1/2" – 10.5# - M-60 casing @ 4875' KB w/ TOC @ 4020'
2 3/8" – EUE tubing @ 4703' KB
Baker 2 3/8" x 4 1/2" packer set @ 3961'
Gordon perforations: 4733' – 4736', 4764' – 4768', & 4764' – 4768'
Berea perforations: 4628' – 4631' & 4649' – 4655'
Big Lime formation: 3458' – 4004' (not perforated)
Ravencliff formation: 2000' – 2032' (not perforated)
Coal @ 327' – 331 (open mine) & 1134' – 1137'
Fresh water @ 331', 480', 570', & 1134'

PROCEDURE

1. Contact Pineville District Office a minimum of 48 hours prior to starting work
2. Contact state inspector a minimum of 24 hours prior to starting work.
3. MIRU service rig and blow down well.
4. Lay 2" line from wellhead to pit/tank and stake down securely. Vent 4-1/2" x 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. Unseat packer by setting down and turning right. (packer set @ 25,000#, shear @ 30,000#)
8. POOH with tubing.
9. RIH with tubing to approximately 4800' with three additional joints of tubing.
10. MIRU Cementing Company.
11. Pump 5 barrels of 6% Gel.
12. Pump 23 sacks of Class A cement for Cement Plug 1 from 4800' to 4500'.
13. Displace with 17 bbls of 6% Gel.
14. POOH with tubing and let cement plug set for a minimum of eight hours.
15. Run freepoint and cut 4 ½" casing where free. Estimate ±4010'. POOH with casing.
16. TIH with tubing to 4050' and pump 50 barrels of 6% Gel.
17. Pump 127 sacks Class A cement for Cement Plug 2 from 4050' to 3350'.
18. Displace with 13 bbls of 6% Gel.
19. Pull tubing up to 2100' and pump 38 sacks of Class A cement for Cement Plug 3 from 2100' 1900'.
20. Displace with 7 bbls of 6% Gel.
21. Pull tubing up to 1650' and pump 106 sacks of Class A cement for Cement Plug 4 from 1650' 1100'.
22. Displace with 4 bbls of 6% Gel.
23. Pull tubing up to 600' and pump 115 sacks of Class A cement for Cement Plug 5 from 600' to surface.
24. TOOH with tubing and lay down.
25. RDMO Cement company
26. Erect Monument according to Law.
27. RDMO.

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MAY 23 2013

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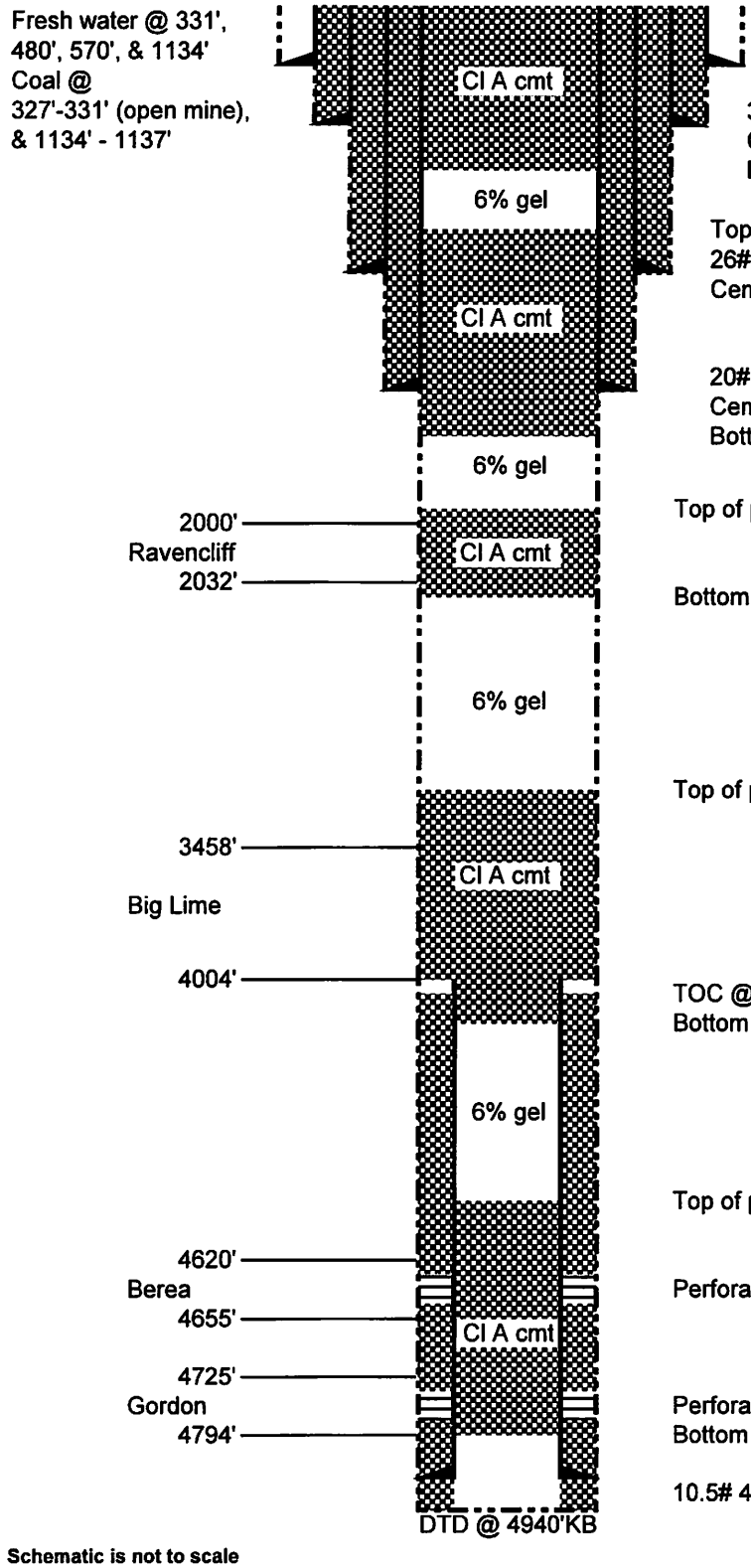
WV Dept. of Environmental Protection

Pocahontas Land M-124
API 47-047-02062
PROPOSED CONFIGURATION



65# 20" LS Conductor @ 44', not cemented

37# 13 3/8" LS Casing @ 469' KB
Cemented to surface
Bottom of plug 5 @ 600'

Top of plug 4 @ 1100'
26# 9 5/8" LS Casing @ 1229' KB
Cemented to surface

20# 7" LS Casing @ 1625' KB
Cemented to surface
Bottom of plug 4 @ 1650'

Top of plug 3 @ 1900'

Bottom of plug 3 @ 2100'

Top of plug 2 @ 3350'

TOC @ 4020' KB. 4 1/2" csg to be cut @ ±4010'.
Bottom of plug 2 @ 4050'

Top of plug 1 @ 4500'

Perforations @ 4628' - 4631' & 4649' - 4655'

Perforations @ 4733' - 4736', 4764' - 4768', & 4764' - 4768'
Bottom of plug 1 @ 4800'

10.5# 4-1/2" M-60 Casing @ 4875' KB

Schematic is not to scale

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MAY 23 2013
T. Out 02/05/13
Office of Oil and Gas
WV Dept. of Environmental Protection

4702062P

WR-35

Date July 14, 2005
API # 47- 047 - 02062

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

Farm Name: Pocahontas Land Corp. Operator Well No.: Pocahontas Land M-124

LOCATION: Elevation: 2144.24' Quadrangle: Welch
District: Adkin County: McDowell
Latitude: 14,390' feet South of 37° DEG. 27' MIN. 30" SEC.
Longitude: 10,978' feet West of 81° DEG. 32' MIN. 30" SEC.

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

Agent: Thomas S. Liberatore
Inspector: Barry Stollings
Permit Issued: 4/29/2005
Well Work Commenced: June 6, 2005
Well Work Completed: June 28, 2005
Verbal Plugging:
Permission granted on:
Rotary X Cable
Total Depth (feet) 4937'
Fresh Water Depths (ft) 331', 480', 570', 1134'
Salt Water Depths (ft) None reported
Is coal being mined in area (Y / N) ? Y
Coal Depths (ft) 327'-331' (Open), 1134'-1137'

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
20"	44'	44'	N/A
13 3/8"	461'	461'	534
9 5/8"	1228'	1228'	483
7"	1624'	1624'	359
4 1/2"		4876'	118
2 3/8"		4703'	

OPEN FLOW DATA

Producing Formation Gordon Pay Zone Depth (ft) 4733'-4736', 4764'-4768', 4772'-4784'
Gas: Initial Open Flow N/A MCF/d Oil: Initial Open Flow 0 Bbl/d
Final Open Flow 750 (COMMINGLED) MCF/d Final Open Flow 0 Bbl/d
Time of open flow between initial and final tests 264 Hours
Static rock pressure 540 psig surface pressure after 16 Hours

Second Producing Formation Berea Pay Zone Depth (ft) 4649'-4655', 4628'-4631'
Gas: Initial Open Flow N/A MCF/d Oil: Initial Open Flow 0 Bbl/d
Final Open Flow 750 (COMMINGLED) MCF/d Final Open Flow 0 Bbl/d
Time of open flow between initial and final tests 264 Hours
Static rock pressure 540 psig surface pressure after 16 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: W. A. [signature] Drilling Superintendent
Date: 7/18/05

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

Welch 5

4702062P

MCD-2062

STAGE	PERFS	ACID 15% HCl	FOAM	SAND (lbs)	NITROGEN (scf)	BDP	ATP	MTP	ISIP
1-Gordon	4733-4736 (40)	250 gal	75Q	55,350	584,000	1556	1633	1792	1450
	4764-4768								
	4772-4784								
2-Berea	4649-4655 (24)	1000 gal	75Q	60,000	533,000	1392	1449	1648	1370
	4628-4631 (12)								

FORMATION	TOP	BOTTOM	REMARKS
Sand & Shale	0	327	
Coal (Open)	327	331	
Sand & Shale	331	1134	
Coal	1134	1137	
Sand & Shale	1137	1758	
Pride	1758	1930	
Silty Shale	1930	2000	
Ravencliff	2000	2032	
Silty/Sandy Shale	2032	2112	
Avis	2112	2158	
Silty/Sandy Shale	2158	3112	
Shale	3112	3192	
Little Lime	3192	3272	
Pencil Cave	3272	3458	
Big Lime	3458	4004	
Silty Shale (Pocono)	4004	4295	
Shale	4295	4620	
Berea	4620	4655	
Silty Shale	4655	4725	
Gordon	4725	4794	
Silty Shale	4794	4937	TD

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MAY 23 2013

Office of Oil and Gas
WV Department of Environmental Protection

4702062P

WW-4A
Revised 6-07

1) Date: May 22, 2013
2) Operator's Well Number
Pocahontas Land M-124

3) API Well No.: 47 - 047 - 02062

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: Pocahontas Land Corporation ✓
Address: P.O. Box 1517
Bluefield, WV 24701
(b) Name:
Address:
(c) Name:
Address:

5) (a) Coal Operator
Name: See Attached Sheet
Address:
(b) Coal Owner(s) with Declaration
Name: Pocahontas Land Corporation ✓
Address: P.O. Box 1517
Bluefield, WV 24701
Name:
Address:
(c) Coal Lessee with Declaration
Name: See Attached Sheet
Address:

6) Inspector: Gary Kennedy ✓
Address: 120 North Ridge Street BOX 268
Bluefield, WV 24701 NIMITZ, WV 25978
Telephone: (304) 382-8402

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, Suite 401
Pittsburgh, PA 15276
Telephone: (412) 249-3850

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

Received
MAY 23 2013
Office of Oil and Gas
WV Department 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

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.

4702062P

COAL LESSEE WITH DECLARATION

COAL OPERATORS

Shannon-Pocahontas Coal Corporation
P.O. Box 16429
Bristol, Virginia 24209

Southern Minerals, Inc.
P.O. Box 770
Bluefield, West Virginia 24701

Westwood Mining Co., Inc.
P.O. Box 1030
Bluefield, Virginia 24605

Marianna Coal Company
P.O. Box 1084
Bluefield, Virginia 24605

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

Glow Worm Coal Company
278 Dover St., P.O. Box 822
North Tazewell, Virginia 24630

Triple G Coal Company, Inc.
P.O. Box 770
Bluefield, West Virginia 24701

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MAY 23 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

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WW-9
Rev. 5/10

Page 1 of
API Number 47 - 047 - 02062
Operator's Well No. Pocahontas Land M-124

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 Tug Fork River Quadrangle Welch

Elevation 2,136.09 County McDowell District Adkin

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

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

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

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

My commission expires November 16, 2013

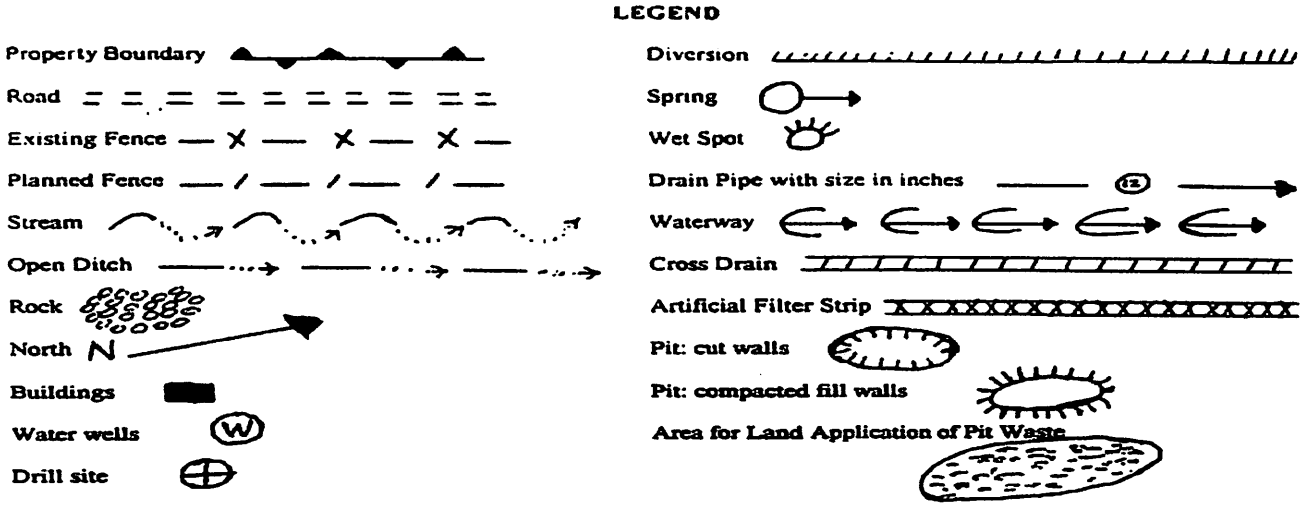
COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires Nov. 16, 2013
Member, Pennsylvania Association of Notaries

4702062P

Form WW-9

Operator's Well No. Pocahontas Land M-124

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 Trefooil - 10	

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

Photocopied section of involved 7.5' topographic sheet.

Received

Plan Approved by: _____

NOV 23 2013

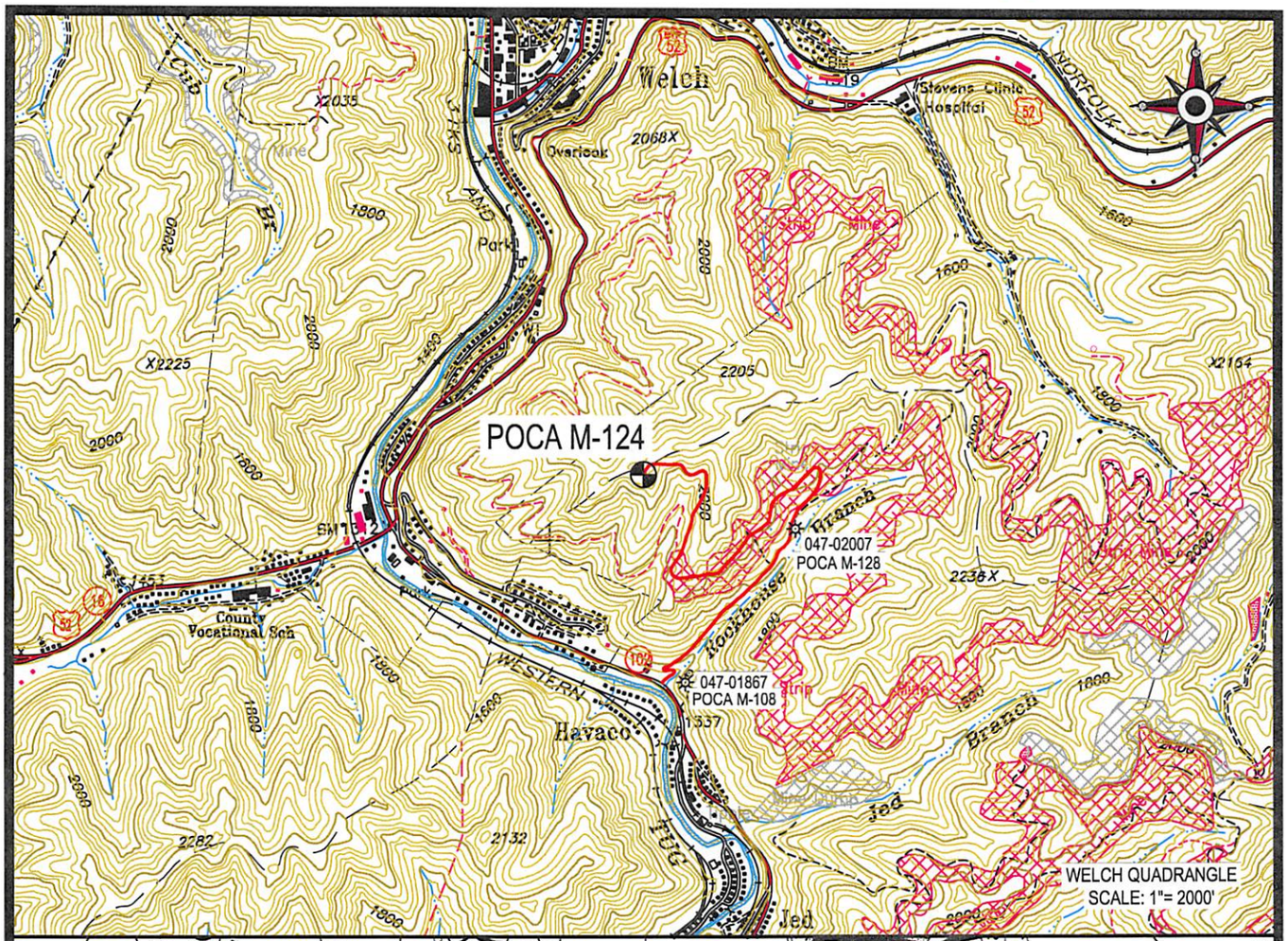
Comments: _____

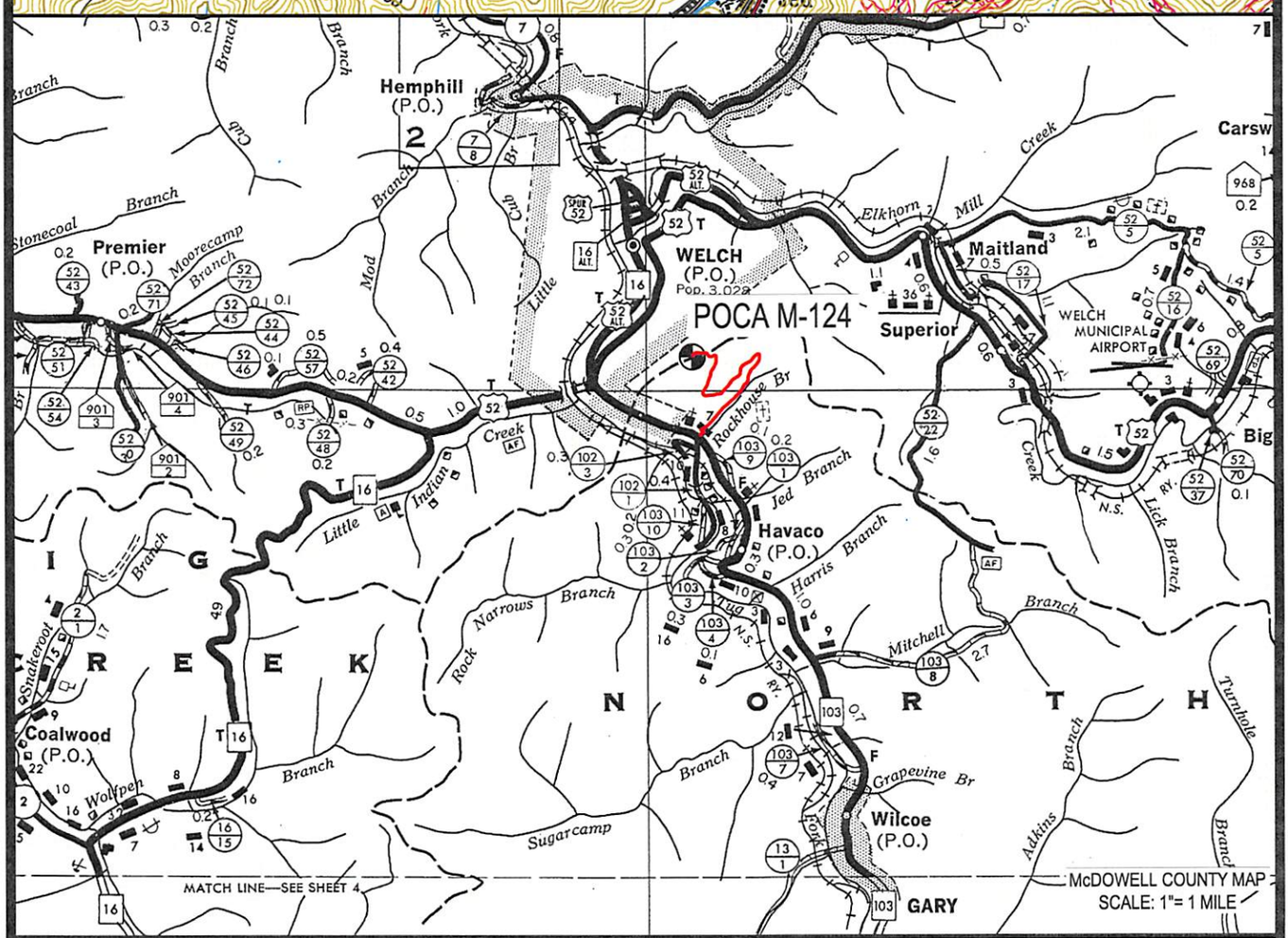
Office of Oil and Gas
WV Dept. of Environmental Protection

Title: _____ Date: _____

Field Reviewed? (_____) Yes (_____) No

4702062P





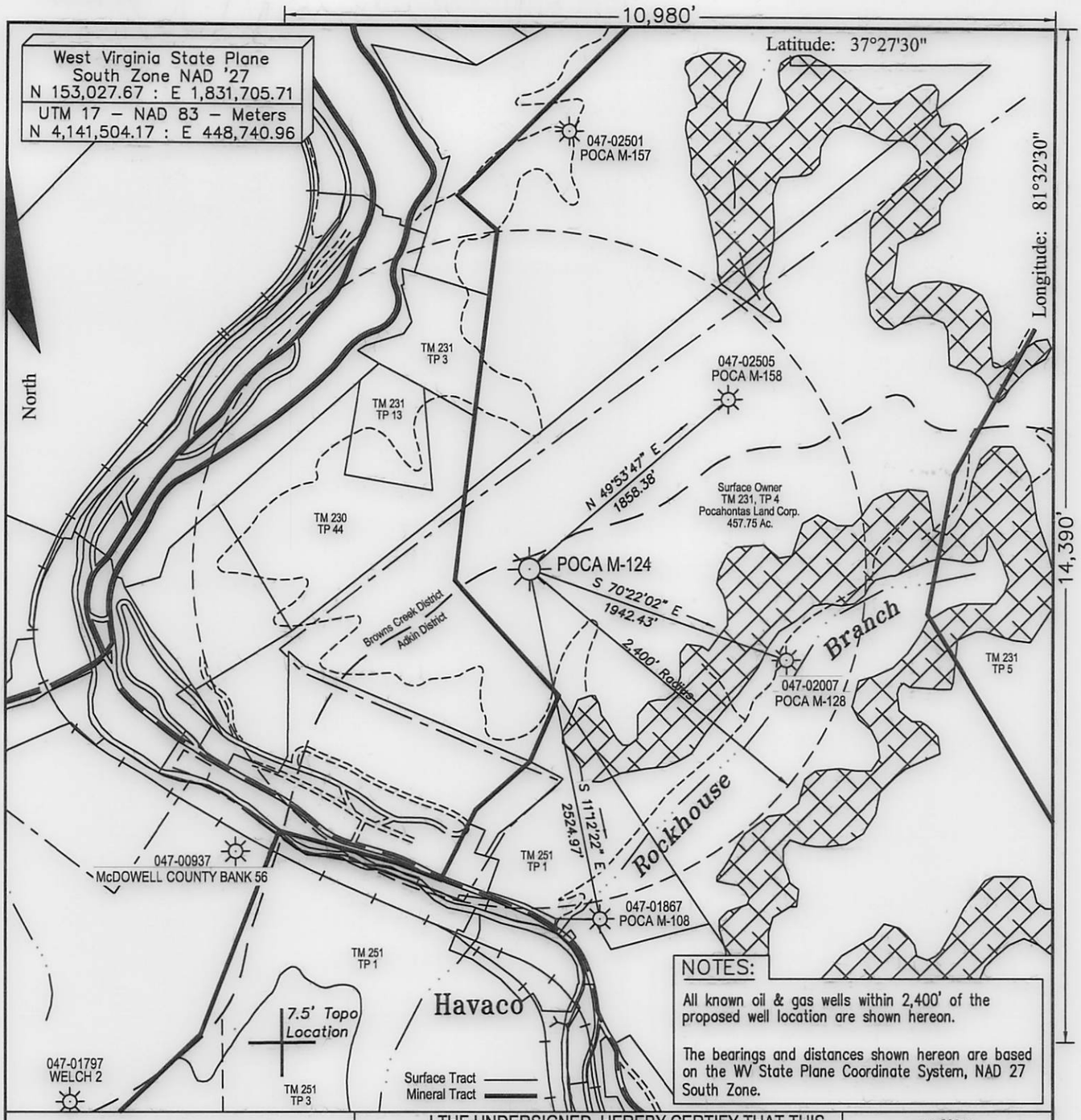
Cabot Oil & Gas Corporation

POCA M-124
LOCATION MAP

LOCATED ON THE WATERS
OF TUG FORK RIVER
ADKIN DISTRICT, McDOWELL COUNTY, W.VA
WELCH QUADRANGLE

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

PROJECT NO. CABOT	DWG. NO. POCA M-124 LOC.DWG	
DATE: 04-03-13	SCALE: AS NOTED	CHK'D BY: D.K.C.
DRAWN BY: G. PERKINS	FILE: C:\PROJECT FOLDER\CABOT	



NOTES:

All known oil & gas wells within 2,400' of the proposed well location are shown hereon.

The bearings and distances shown hereon are based on the WV State Plane Coordinate System, NAD 27 South Zone.

FILE #:

DRAWING #: Poca M–124 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: April 4, 2013

OPERATOR'S WELL #: Poca M–124

API WELL #: 47 (STATE) 047 (COUNTY) 02062P (PERMIT)

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

WATERSHED: Tug Fork River ELEVATION: 2,136.09'

COUNTY/DISTRICT: McDowell / Adkin QUADRANGLE: Welch

SURFACE OWNER: Pocahontas Land Corp. ACREAGE: 457.75

OIL & GAS ROYALTY OWNER: Penn Virginia Oil & Gas Corp. ACREAGE: 47,520

LEASE #: 47–0507 DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐

PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☒

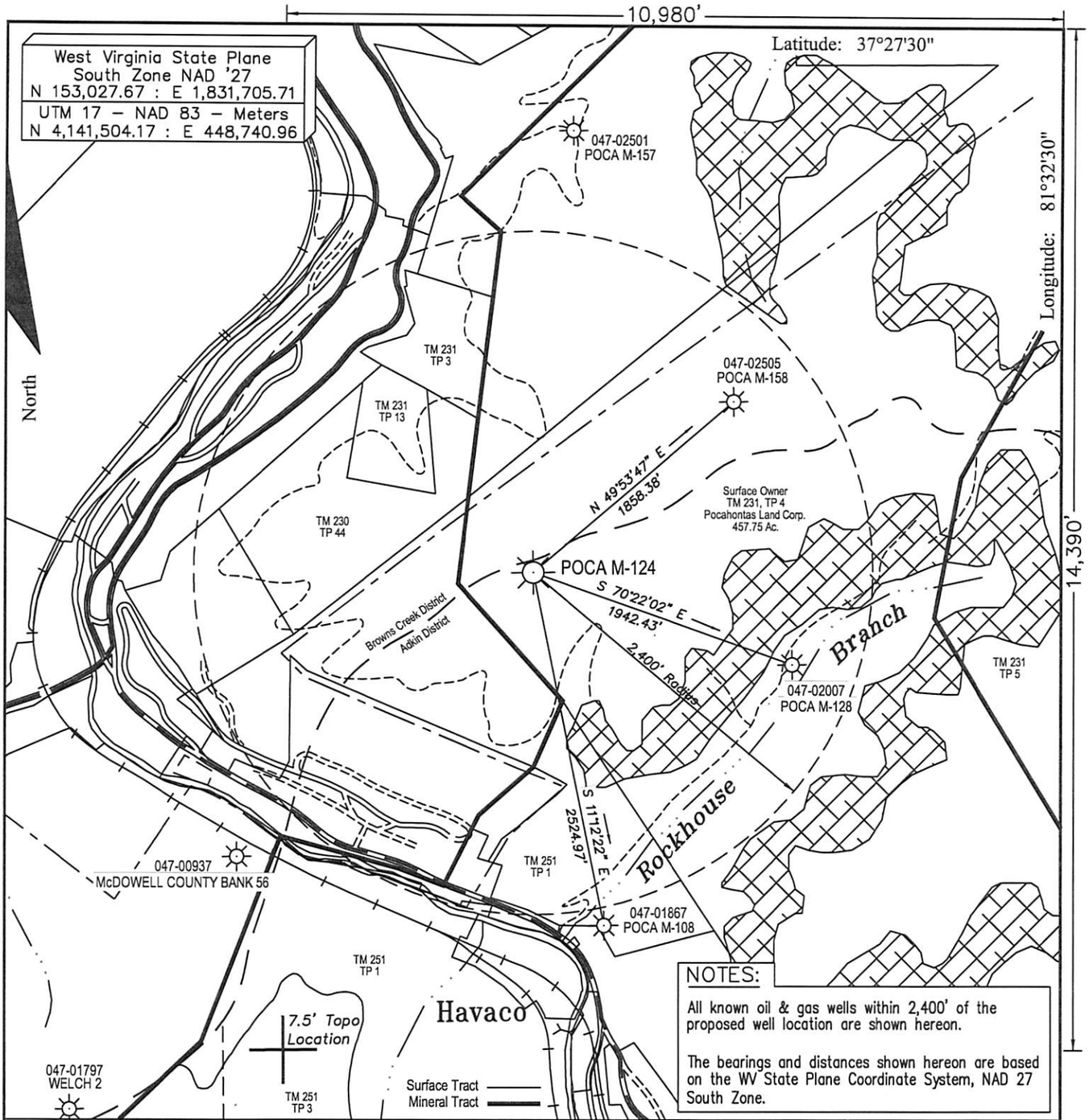
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY): _____

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



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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: April 4, 2013

OPERATOR'S WELL #: Poca M-124

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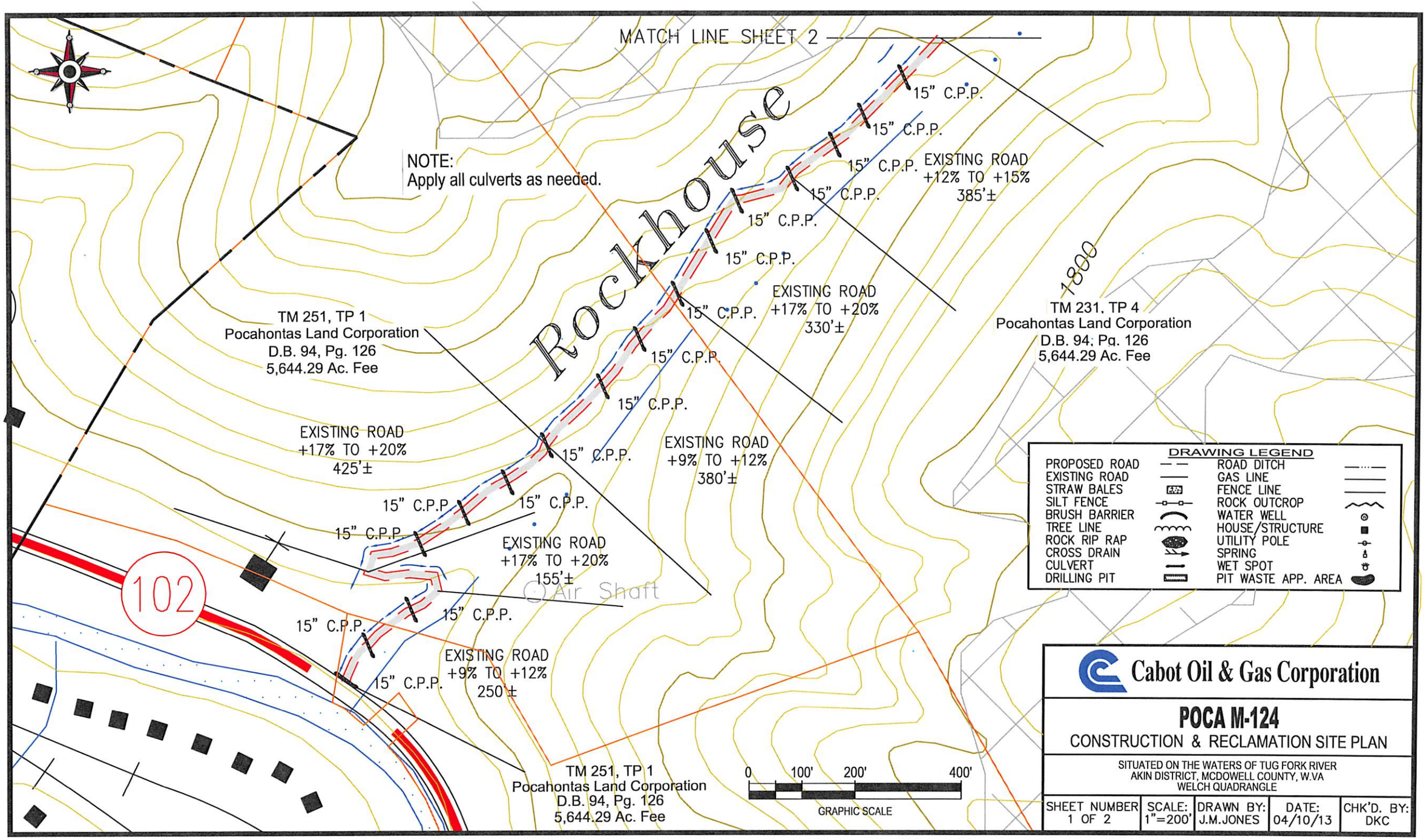
PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☒

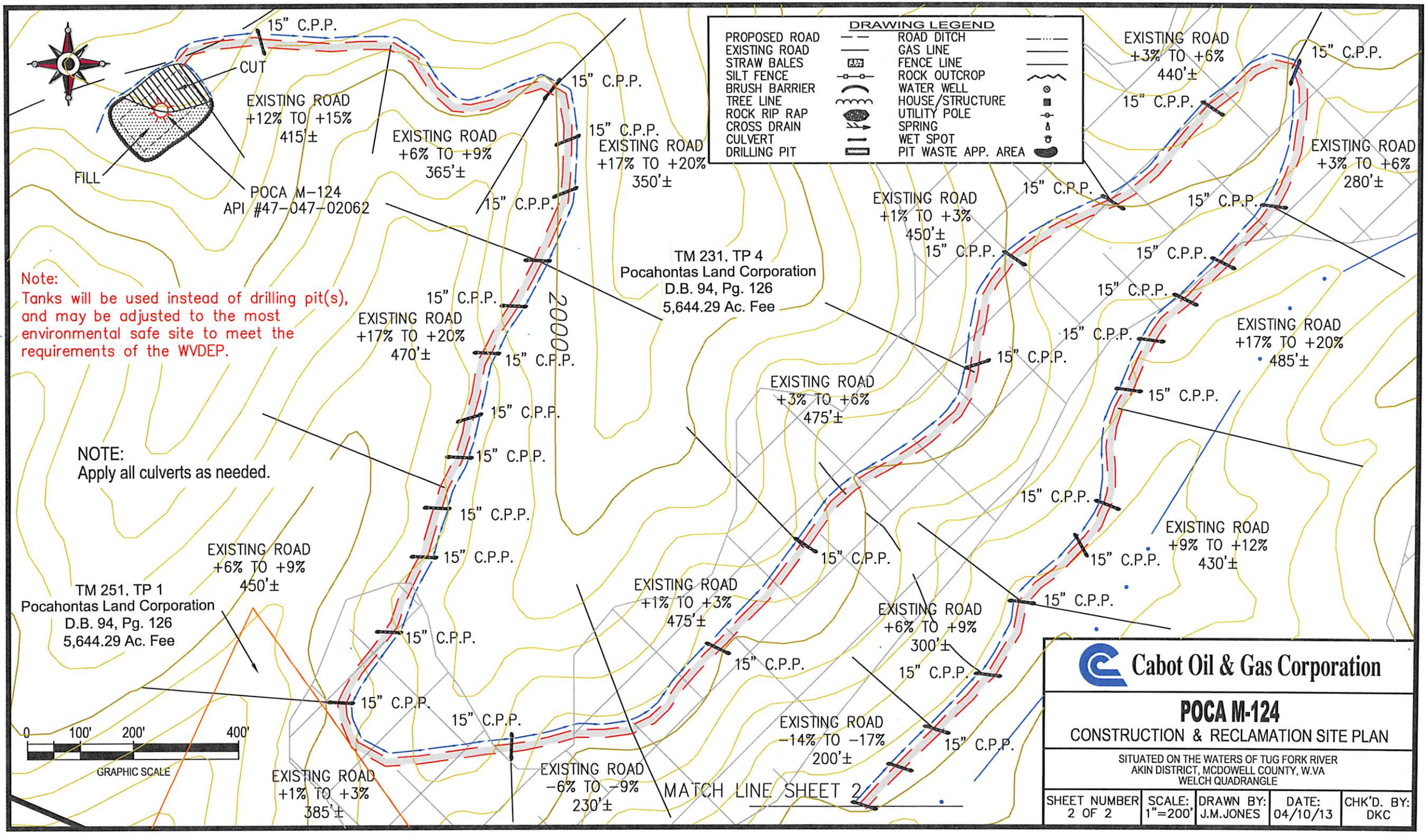
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY): _____

TARGET FORMATION: _____ ESTIMATED DEPTH: _____

WELL OPERATOR Cabot Oil & Gas Corp.
Address Five Penn Center West, Suite 401
City Pittsburgh State PA Zip Code 15276

DESIGNATED AGENT Brian Hall
Address P.O. Box 260
City Danville State WV Zip Code 25053


MATCH LINE SHEET 2
NOTE:
Apply all culverts as needed.
Rockhouse
1800
TM 251, TP 1
Pocahontas Land Corporation
D.B. 94, Pg. 126
5,644.29 Ac. Fee
TM 231, TP 4
Pocahontas Land Corporation
D.B. 94; Pg. 126
5,644.29 Ac. Fee
TM 251, TP 1
Pocahontas Land Corporation
D.B. 94, Pg. 126
5,644.29 Ac. Fee
15" C.P.P.
EXISTING ROAD
+12% TO +15%
385'±
EXISTING ROAD
+17% TO +20%
330'±
EXISTING ROAD
+9% TO +12%
380'±
EXISTING ROAD
+17% TO +20%
425'±
EXISTING ROAD
+17% TO +20%
155'±
EXISTING ROAD
+9% TO +12%
250'±
Air Shaft
102
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
POCA M-124
CONSTRUCTION & RECLAMATION SITE PLAN
SITUATED ON THE WATERS OF TUG FORK RIVER
AKIN DISTRICT, MCDOWELL COUNTY, W.VA
WELCH QUADRANGLE
SHEET NUMBER 1 OF 2
SCALE: 1"=200'
DRAWN BY: J.M.JONES
DATE: 04/10/13
CHK'D. BY: DKC


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
CUT
FILL
POCA M-124
API #47-047-02062
EXISTING ROAD +12% TO +15% 415'±
EXISTING ROAD +6% TO +9% 365'±
EXISTING ROAD +17% TO +20% 350'±
EXISTING ROAD +17% TO +20% 470'±
EXISTING ROAD +6% TO +9% 450'±
EXISTING ROAD +1% TO +3% 385'±
EXISTING ROAD -6% TO -9% 230'±
EXISTING ROAD +1% TO +3% 475'±
EXISTING ROAD +3% TO +6% 475'±
EXISTING ROAD +1% TO +3% 450'±
EXISTING ROAD +3% TO +6% 440'±
EXISTING ROAD +3% TO +6% 280'±
EXISTING ROAD +17% TO +20% 485'±
EXISTING ROAD +9% TO +12% 430'±
EXISTING ROAD +6% TO +9% 300'±
EXISTING ROAD -14% TO -17% 200'±
15" C.P.P.
2000'
TM 231, TP 4
Pocahontas Land Corporation
D.B. 94, Pg. 126
5,644.29 Ac. Fee
TM 251, TP 1
Pocahontas Land Corporation
D.B. 94, Pg. 126
5,644.29 Ac. Fee
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.
NOTE:
Apply all culverts as needed.
0 100' 200' 400'
GRAPHIC SCALE
MATCH LINE SHEET 2
Cabot Oil & Gas Corporation
POCA M-124
CONSTRUCTION & RECLAMATION SITE PLAN
SITUATED ON THE WATERS OF TUG FORK RIVER
AKIN DISTRICT, MCDOWELL COUNTY, W.VA
WELCH QUADRANGLE
SHEET NUMBER 2 OF 2
SCALE: 1"=200'
DRAWN BY: J.M.JONES
DATE: 04/10/13
CHK'D. BY: DKC

GENERAL NOTES:

THIS DRAWING REPRESENTS A SCHEMATIC REPRESENTATION OF THE PROPOSED WELL SITE AND ACCESS ROAD. PROPOSED STRUCTURES SUCH AS THE DRILLING PIT, ROADWAY, CULVERTS, SEDIMENT BARRIERS, ETC. ARE SHOWN IN THEIR APPROXIMATE PREPLANNING CONFIGURATION. GIVEN UNFORESEEN CIRCUMSTANCES, THE AS-BUILT LOCATION OF THESE STRUCTURES MAY VARY SLIGHTLY FROM THE LOCATION SHOWN ON THE ATTACHED DRAWINGS.

ALL ROADS SHOWN THEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH GUIDELINES AND REQUIREMENTS OF WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL.

ALL CULVERTS SHOWN ON THIS DRAWING ARE PROPOSED AND WILL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE NOTED.

DITCH LINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL. HOWEVER PORTIONS OF THE EXISTING/ PROPOSED ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.

SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL STRUCTURES MEASURES IN ADDITION TO THOSE SHOWN ON THE ATTACHED DRAWINGS WILL BE INSTALLED WHEN AND WHERE DEEMED NECESSARY. SUCH ADDITIONAL MEASURES MAY CONSIST OF EITHER STRAW BALES, SILT FENCES OR OTHER MEASURES OUTLINED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

SEDIMENT BASINS (TRAPS) WILL BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAINS INLETS AS REQUIRED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL. FIELD CONDITIONS SUCH AS ROCK OUTCROPS AND BEDROCK MAY PROHIBIT INLET TRAPS BEING INSTALLED WHEN THESE CONDITIONS EXIST. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

A SEDIMENT BARRIERS OF EITHER BRUSH, STRAW BALES, FILTER FENCE, ETC. WILL BE INSTALLED AND MAINTAINED BELOW THE OUT FALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DRAINAGE POINTS FROM EITHER THE ROADWAY OR THE LOCATION.

ALL NECESSARY TIMBER OR BRUSH WILL BE REMOVED FROM ROUTE OF THE ROADWAY AND LOCATION BY CLEANING AND GRUBBING ACTIVITIES. ANY SALVAGEABLE TIMBER WILL BE CUT AND STACKED TO THE SIDE OF THE ROADWAY OR REMOVED TO A STOCKPILE AREA. THE REMAINING TIMBER OR BRUSH WILL BE CUTUP AND WIND ROWED BELOW THE OUTSLOPE OF THE CONSTRUCTION AREAS TO BE UTILIZED AS A SEDIMENT BARRIER.

SEPARATE PERMITS WILL BE OBTAINED FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION FOR ALL POINTS OF INGRESS AND EGRESS FROM COUNTY AND STATE ROADS. THESE INGRESS AND EGRESS POINTS WILL BE MAINTAINED IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS. A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" OF CRUSHED STONE WILL BE CONSTRUCTED FOR A MINIMUM DISTANCE OF 50' FROM THE INGRESS AND EGRESS POINTS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS.

ALL CULVERTS SHOWN ON THE ATTACHED DRAWINGS ARE TO BE CONSIDERED PERMANENT AND WILL REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE. A STABILIZED OUTLET CONTROL DEVICE SUCH AS RIP RAP, NATURAL STONE, BRUSH, ETC. WILL BE INSTALLED BELOW THE OUT FALL OF ANY ROADWAY CULVERT(S) WHICH ARE NOT LOCATED IN A STREAM OR CREEK.

PERMANENT CROSS DRAINS OR WATER BARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH AS-BUILT ROADWAY SLOPES AND TABLE 11-4 OF THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

TEMPORARY SEEDING AND MULCHING WILL BE UTILIZED TO PROVIDE A VEGETATIVE COVER ON ALL DISTURBED AREAS I.E. ROADWAYS, LOCATION, ROAD/LOCATION SLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES.

THE LOCATION OF DRILLING PIT(S) MAY BE ADJUSTED TO THE MOST ENVIRONMENTAL SAFE SITE TO MEET THE REQUIREMENTS OF THE WVDEP.

CONTRACTORS NOTE:

IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY/OR CONSTRUCTION ACTIVITIES. DIG WITH C.A.R.E. CALL MISS UTILITY 1-800-245-4848.

TABLE 11-4 SPACING OF CROSS DRAINS	
ROAD GRADE (%)	DISTANCE (FT)
1	400
2	250
5	135
10	80
15	60
20	45

TABLE 11-7 SPACING OF CULVERTS	
ROAD GRADE (%)	DISTANCE (FT)
2-5	500-300
6-10	300-200
11-15	200-100
16-20	100

1-800-245-4848

DRAWING LEGEND

PROPOSED ROAD
EXISTING ROAD
STRAW BALES
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

DRIVING DIRECTIONS FOR POCA #,-124

1.) FROM WELCH, W.VA DRIVE SOUTH ON STATE ROUTE 16 FOR 1.1 MILES± TO INTERSECTIOM OF STATE ROUTE 52 AND SECONDARY ROUTE 102.
2.) TAKE SECODARY ROUTE 102 SOUTH 0.7 MILES± TO THE BEGINNING OF QN EXISTING ACCESS ROAD FOR POCA M-124, LOCATED ON THE LEFT-HAND SIDE OF THE ROAD.
3.) TURN LEFT ONTO THE EXISTING ACCESS ROAD AND GO FOR 1.5 MILES± TO THE EXISTING WELL SITE OF POCA M-124 AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

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

Cabot Oil & Gas Corporation

POCA M-124

ADKIN DISTRICT, MCDOWELL COUNTY, W.VA
WELCH 7.5' QUADRANGLE

4702062P

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: Pocahontas Land M-124
Adkin District, McDowell County, WV
API # 47-047-02062
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