



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

March 06, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3902909, 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: 24-647

Farm Name: BOWERS, WILLIAM

API Well Number: 47-3902909

Permit Type: Plugging

Date Issued: 03/06/2015

Promoting a healthy environment.

03/06/2015

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.

39 02909F

WW-4B
Rev. 2/01

1) Date January 21, 2015
2) Operator's
Well No. William Bowers #24
3) API Well No. 47-039 - 02909

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production X or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1,388' Watershed Haney Fork of Witcher Creek
District Cabin Creek County Kanawha Quadrangle Cedar Grove

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

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Terry Urban Name Contractor Services, Inc.
Address P.O. Box 1207 Address 929 Charleston Road
Clendenin, WV 25045 Spencer, WV 25276

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

SEE ALL changes on prog & Drawings

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

Work order approved by inspector  Date 2-3-15

03/06/2015

Bowers #24 API # 47 - 039 - 02909 PLUGGING PROCEDURE

Current Configuration

DTD @ 2489'
 Elevation @ 1360'
 10" casing @ 375'
 8-1/4" casing @ 1660'
 6-5/8" casing @ 2015'
 4-1/2" casing @ 2026' set on packer
 Weir @ 2260' - 2484'
 Injun @ 2210' - 2260'
 Big Lime @ 2013' - 2210' with gas show @ 2113'
 Maxton @ 1680' - 1910' with water @ 1875'
 2nd Salt Sand @ 1360' - 1455' with water @ 1425'
 1st Salt Sand @ 1205' - 1330'
 Coal @ 700'
 No water reported

1360ft Elev.

PROCEDURE

1. Contact Glasgow Office a minimum of 48 hours prior to starting work.
2. Contact State Inspector a minimum of 24 hours prior to starting work.
3. Lay 2" line from wellhead to pit/tank and stake down securely.
4. MIRU service rig and blow down well. Have vacuum truck available to catch any fluids circulated from well.
5. Unpack wellhead.
6. Unseat packer on 4-1/2" casing and pull casing.
7. TIH with 2-3/8" work string to 2450'.
8. MIRU Cement Company and pump 20 bbls 6% Gel followed by 50 sks of Class A cement for plug 1 from 2450' to 2190'.
9. Displace w/ 8 1/2 bbls of 6% Gel.
10. TOOH with work string.
11. Pull 6-5/8" casing.
12. TIH with work string to 2100' and pump 35 sks of Class A cement for plug 2 from 2100' to 1950'.
13. Displace w/ 7 1/2 bbls of 6% Gel.
14. TOOH with work string.
15. Pull 8-1/4" casing.
16. TIH with work string to 1700' and pump 20 bbls 6% Gel followed by 40 sks of Class A cement for plug 3 from 1700' to 1600'.
17. Displace w/ 6 bbls of 6% Gel.
18. Pull work string up to 1400' and pump 40 bbls 6% Gel followed by 135 cubic feet of Class A cement for plug 4 from 1400' to 1100'.
19. Displace w/ 4 bbl of 6% Gel.
20. Pull work string up to 750' and pump 60 bbls 6% Gel followed by 45 cubic feet of Class A cement for plug 5 from 750' to 650'.
21. Displace w/ 2 1/2 bbl of 6% Gel.
22. TOOH with work string.
23. Pull 10" casing.
24. TIH with work string to 100' and pump 70 sks of Class A cement for plug 6 from 100' to surface.
25. TOOH with work string and lay down.

OWE
 Cement
 Plug
 Displace w
 Gel

Operator
 to
 call
 Coals
 & Salt Sand

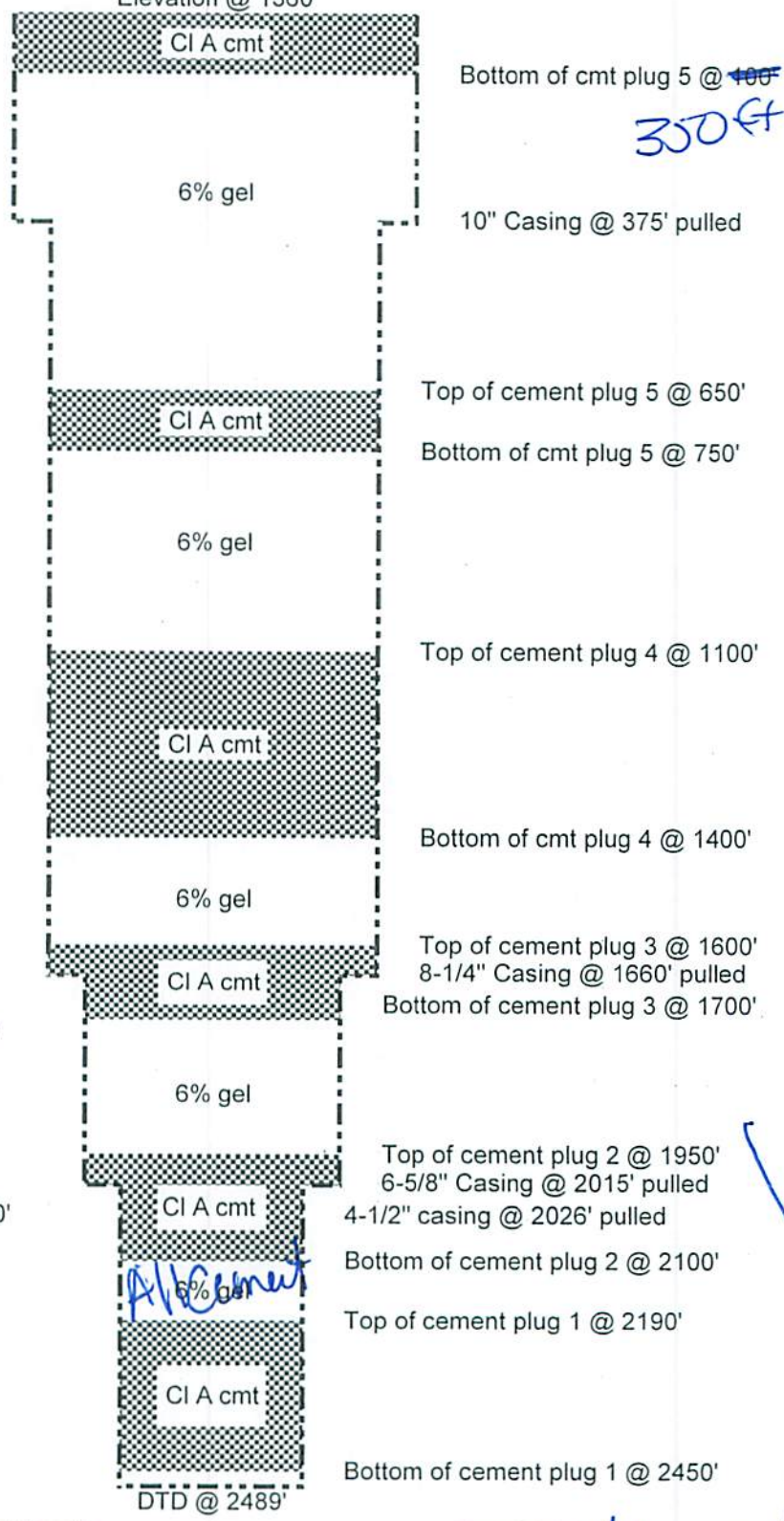
350'

[Signature]
 2-3-15
 03/06/2015

26. RDMO Cementing Company.
27. Place monument as required by law on top of well bore.
28. Reclaim well site.

BOWERS #24
API 47-039-02909
PROPOSED CONFIGURATION
Elevation @ 1360'

*Operate
Cover All
COWS*



Coal @ 700'

1st Salt Sand @ 1205' - 1330'

2nd Salt Sand @ 1360' - 1455' with water @ 1425'

Maxton @ 1680' - 1910' with water @ 1875'

Big Lime @ 2013' - 2210' with gas @ 2113'

Injun @ 2210' - 2260'

Weir @ 2260' - 2484'

DTD @ 2489'

Bottom of cmt plug 5 @ ~~400'~~
350'

10" Casing @ 375' pulled

Top of cement plug 5 @ 650'

Bottom of cmt plug 5 @ 750'

Top of cement plug 4 @ 1100'

Bottom of cmt plug 4 @ 1400'

Top of cement plug 3 @ 1600'
8-1/4" Casing @ 1660' pulled
Bottom of cement plug 3 @ 1700'

Top of cement plug 2 @ 1950'
6-5/8" Casing @ 2015' pulled

4-1/2" casing @ 2026' pulled

Bottom of cement plug 2 @ 2100'

Top of cement plug 1 @ 2190'

Bottom of cement plug 1 @ 2450'

*Need to
Cover
water
CWS*

one plug

Schematic is not to scale

T. On 01/19/15

Handwritten signature
2-3-15

03/06/2015

3902909P

WW-4A
Revised 6-07

1) Date: January 21, 2015

2) Operator's Well Number
William Bowers #24

3) API Well No.: 47 - 039 - 02909

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>Robin Land Company</u>	Name <u>See Attached Sheet</u>
Address <u>500 Lee St. E., Suite 900</u> <u>Charleston, WV 25301</u>	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Robin Land Company</u>
(c) Name _____	Address <u>500 Lee St. E., Suite 900</u> <u>Charleston, WV 25301</u>
Address _____	Name _____
Address _____	Address _____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 1207</u>	Name <u>None of Record</u>
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>(304) 549-5915</u>	Address _____

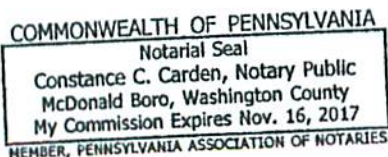
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

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



Subscribed and sworn before me this 21st day of January, 2015
Constance C. Carden Notary Public
 My Commission Expires November 16, 2017

Received
Office of Oil & Gas

JAN 27 2015

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.

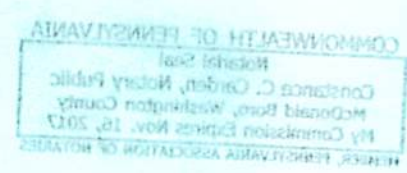
03/06/2015

DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF VIOLATION

Violator Name: Robert J. ...
Address: 500 ...
City: ...
State: ...
Zip: ...
Violation Code: ...
Violation Description: ...

TO THE PERSONS NAMED ABOVE

This notice is given to you because you are in violation of the provisions of the Act. You are hereby notified that you are required to take any action necessary to comply with the provisions of the Act. Failure to do so may result in the issuance of a citation and the imposition of a civil penalty.



Constance C. ...
Notary Public
November 15, 2015

COAL OPERATORS
WILLIAM BOWERS #24 (S-646)
47-039-02909

Coyote Coal Company, LLC
P.O. Box 43 ✓
Dawes, WV 25054

Midland Trail Energy, LLC
P.O. Box 336 ✓
Tad, WV 25201

Spartan Mining Company
Dba/Mammoth Coal Company ✓
P.O. Box 150
Cannelton, WV 25036

Catenary Coal Company, LLC
63 Corporate Centre Drive ✓
Scott Depot, WV 25560

Upper Kanawha Valley Development Corp
400 Patterson Ln. #200 ✓
Charleston, WV 25311

Received
Office of Oil & Gas
JAN 27 2015

03/06/2015

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Sent To
Street & Apt. or PO Box
City, State
Robin Land Company
500 Lee St. E., Suite 900
Charleston, WV 25301
W. Bowers #24 P&A

PS Form 3800, July 2011 Instructions

3902909A

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



Sent To
Street & Apt. or PO Box
City, State
Spartan Mining Company
Db/Mammoth Coal Company
P.O. Box 150
Cannelton, WV 25036
W. Bowers #24 P&A

PS Form 3800, July 2011 Instructions

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



Sent To
Street & Apt. or PO Box
City, State
Catenary Coal Company, LLC
63 Corporate Centre Drive
Scott Depot, WV 25560
W. Bowers #24 P&A

PS Form 3800, July 2011 Instructions

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



Sent To
Street & Apt. or PO Box
City, State
Midland Trail Energy, LLC
P.O. Box 336
Tad, WV 25201
W. Bowers #24 P&A

PS Form 3800, July 2011 Instructions

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



Sent To
Street & Apt. or PO Box
City, State
Upper Kanawha Valley Development Corp.
400 Patterson Ln. #200
Charleston, WV 25311
W. Bowers #24 P&A

PS Form 3800, July 2011 Instructions

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



Sent To
Street & Apt. or PO Box
City, State
Coyote Coal Company, LLC
P.O. Box 43
Dawes, WV 25054
W. Bowers #24 P&A

PS Form 3800, July 2011 Instructions

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Office of Oil & Gas

JAN 27 2015

03/06/2015

3902909A

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	



Sent Terry Urban
 Street or PO P.O. Box 1207
 City Clendenin, WV 25045
 W. Bowers #24 P&A

PS Form 3800, July 2014

Received
Office of Oil & Gas
JAN 27 2015

03/06/2015

3902909P

WW-9
Rev. 5/10

Page 1 of _____
API Number 47 - 039 - 02909
Operator's Well No. William Bowers 24

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 Haney Fork of Witcher Creek Quadrangle Cedar Grove

Elevation 1,388' County Kanawha District Cabin Creek

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)
- _____ Other (Explain _____)

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS & DISPOSED OF PROPERLY. JWM

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____

-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
Office of Oil & Gas
JAN 27 2015

Subscribed and sworn before me this 31st day of January, 20 ~~14~~ 15

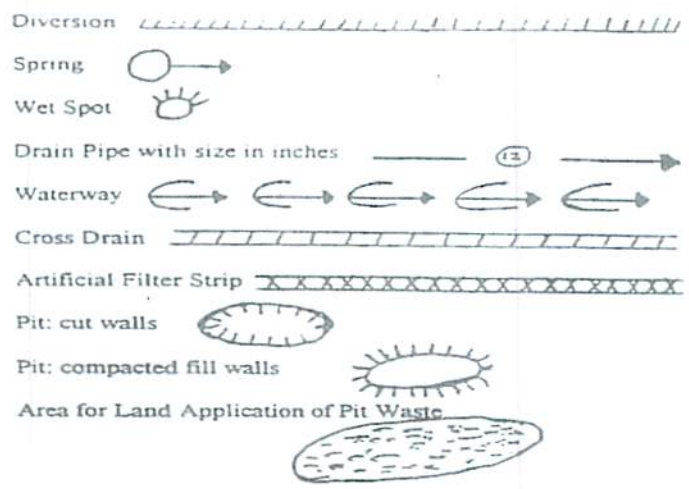
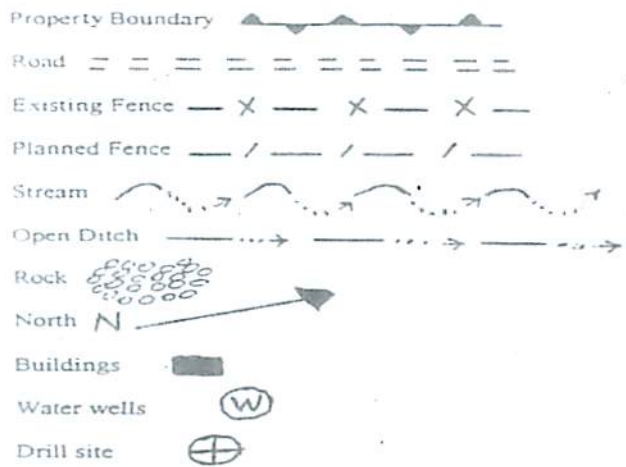
Constance C. Carden Notary Public

My commission expires November 16, 2017

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires Nov. 16, 2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

03/06/2015

LEGEND



Proposed Revegetation Treatment: Acres Disturbed 2.5 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 Trefoil - 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	Birdsfool Trefoil - 10

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

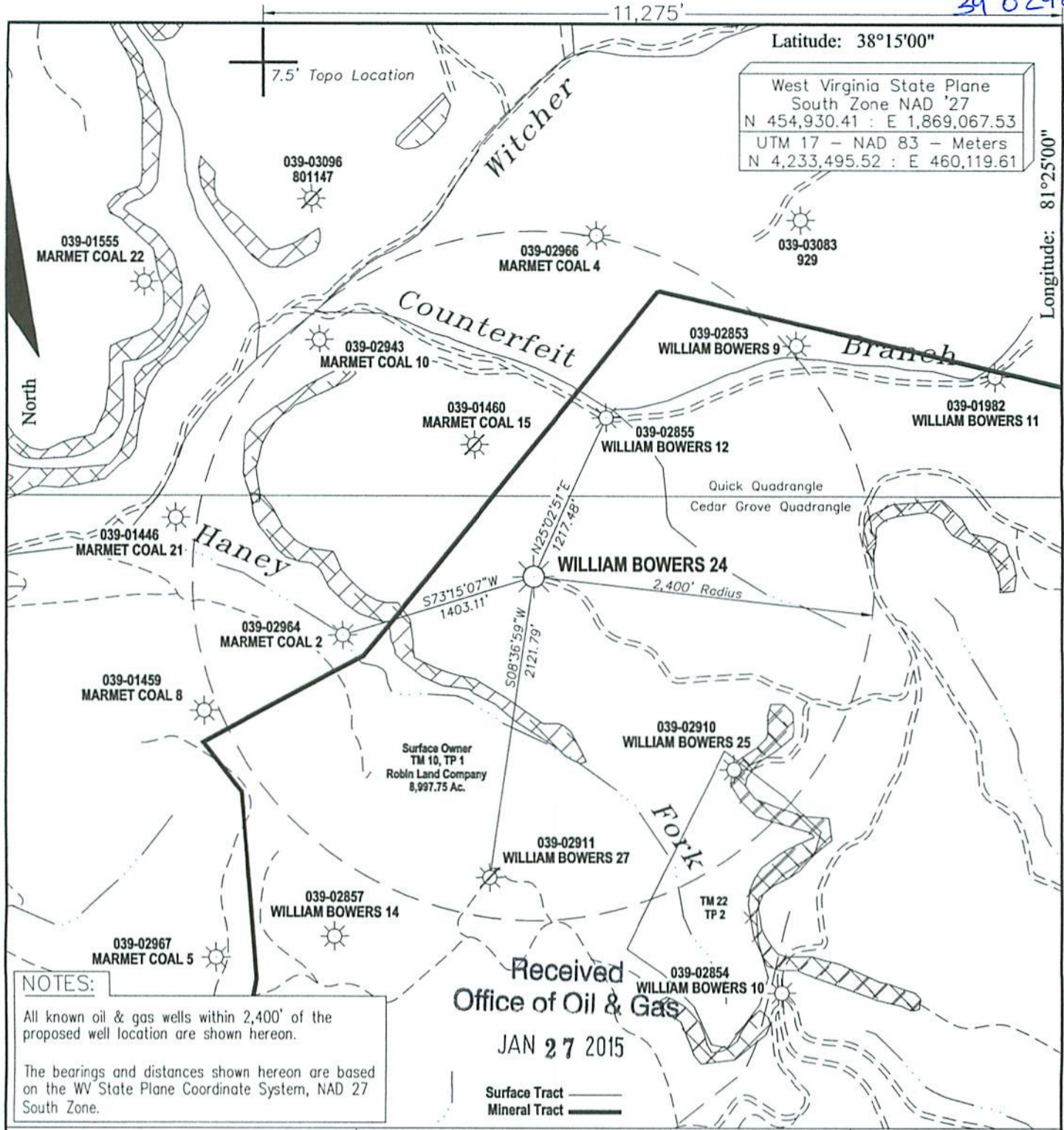
Comments: SEE Changes on Piggery Procedures

Title: Inspector Del's Case

Date: _____

Field Reviewed? () Yes () No

39 02909P



Received
Office of Oil & Gas
JAN 27 2015

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 #: Bowers 24. dwg
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



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



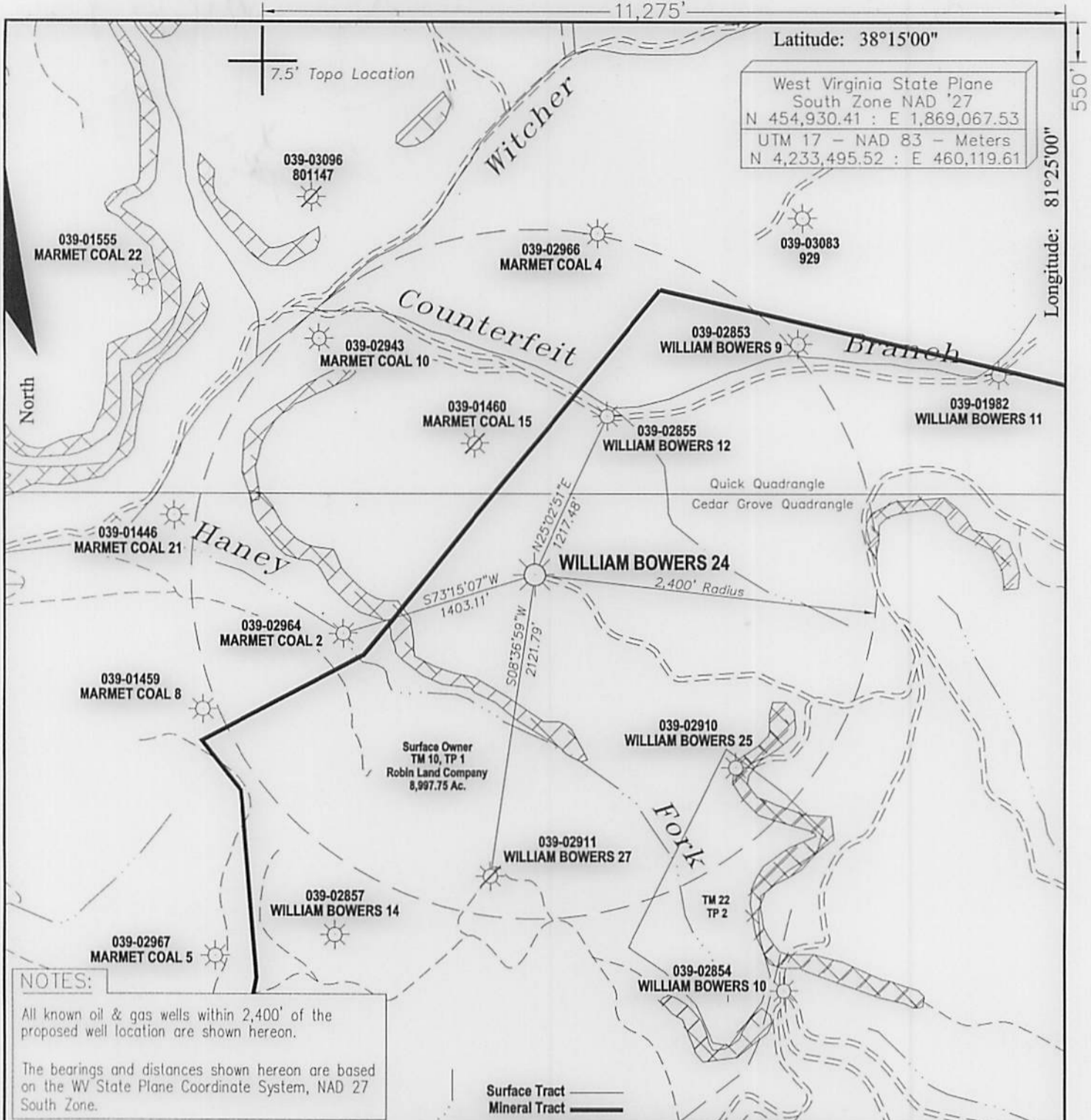
DATE: March 31, 2014
OPERATOR'S WELL #: William Bowers 24
API WELL #: 47 039 02909 P
STATE COUNTY PERMIT

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

WATERSHED: Haney Fork of Witcher Creek ELEVATION: 1,388.00'
COUNTY/DISTRICT: Kanawha / Cabin Creek QUADRANGLE: Cedar Grove
SURFACE OWNER: Robin Land Company ACREAGE: 8,997.75
OIL & GAS ROYALTY OWNER: William Bowers Estate ACREAGE: 1,532
LEASE #: 47-0618 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 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

03/06/2015



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 #: Bowers 24. dwg
 SCALE: 1" = 1000'
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 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: March 31, 2014
 OPERATOR'S WELL #: William Bowers 24
 API WELL #: 47 039 02909 P
 STATE COUNTY PERMIT

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

WATERSHED: Haney Fork of Witcher Creek ELEVATION: 1,388.00'
 COUNTY/DISTRICT: Kanawha / Cabin Creek QUADRANGLE: Cedar Grove

SURFACE OWNER: Robin Land Company ACREAGE: 8,997.75
 OIL & GAS ROYALTY OWNER: William Bowers Estate ACREAGE: 1,532

03/06/2015

LEASE #: 47-0618 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 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

City Bitterroot State MT Zip Code 12528 City Classton State WA Zip Code 32082
 Address Fire Alarm Center, West, Suite 401 Address P.O. Box 420
 WELL OPERATOR Carol Ott & Gas Corp. DESIGNATED AGENT William Johnson

WELL INFORMATION: ESTIMATED DEPTH: _____
 CREAN OIL & BERGUS OTHER CHANCE (SPECIFY): _____
 BERGUS OR OLD FORMATION BERGUS/NEW FORMATION BERGUS & AVOIDANCE
 FEASIBLE #: 72-0018 DRILL COMPLET DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 OIL & GAS POTENTIAL OWNER: William Bowers Estate VESSELS: 1'232
 SURFACE OWNER: Robin Land Company VESSELS: 8'822'22
 COMPLETION DISTRICT: Kanawha / Carter Creek QUADRANGLE: Cedar Grove
 WATERSHED: Hazel Fork of Metcher Creek ELEVATION: 1'388'00
 Gas Fluid Injection Storage Shallow
 Well Type: Oil Waste Disposal Production Deep

CHARACTERIZATION: WA 22304
 801 21TH STREET
 OFFICE OF OIL & GAS
 MADEP
 UNITED STATES GEOLOGICAL SURVEY
 (+) DENOTES LOCATION OF WELL ON



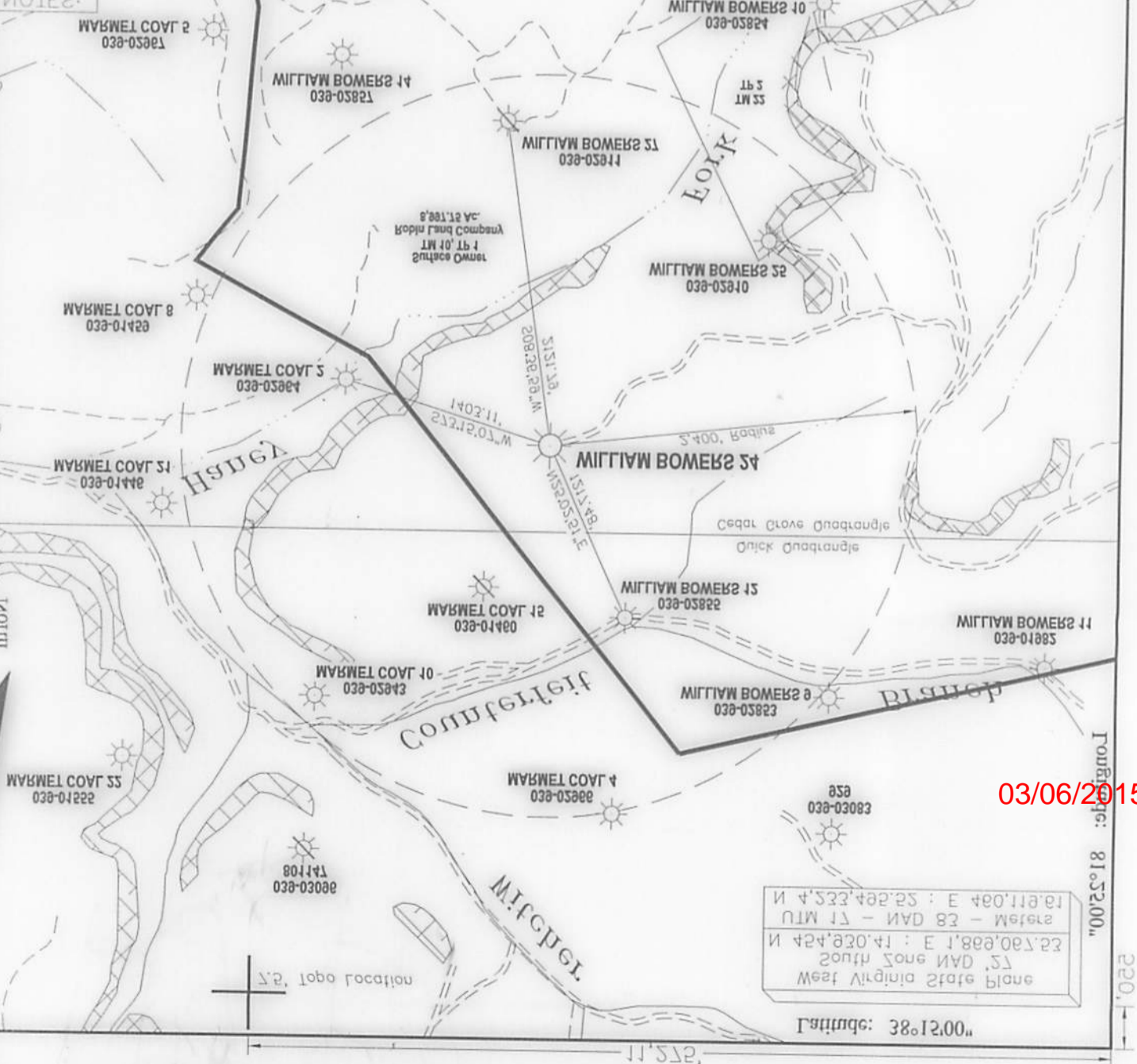
STATE COUNTY PERMIT
 BY WELL #: 72 030 050099
 OPERATOR'S WELL #: William Bowers 24
 DATE: March 31, 2014

OF ELEVATION: System (CBS)
 PROVEN SOURCE Global Positioning
 OF ACCURACY: 1 : 15,120
 MINIMUM DEPTH
 SCALE: 1" = 1000'
 DRAWING #: Bowers 24.dwd
 FIG. #:

W'BE: _____ GTS: 101
 Signed: William Johnson
 THE DEPARTMENT OF ENVIRONMENTAL PROTECTION
 HAS REVIEWED THIS DRAWING AND THE REGULATIONS ISSUED AND PRESCRIBED BY
 REGULATION AND SHOWS ALL THE INFORMATION REQUIRED BY
 REGULATION IS CORRECT TO THE BEST OF MY KNOWLEDGE AND
 I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS



South Zone
 on the WA State Plane Coordinate System, NAD 83
 The bearings and distances shown hereon are based
 on the WA State Plane Coordinate System, NAD 83
 proposed well location are shown hereon.
 All known oil & gas wells within 1000' of the



03/06/2015

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.

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

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 [Symbol]
- SILT FENCE [Symbol]
- BRUSH BARRIER [Symbol]
- TREE LINE [Symbol]
- ROCK RIP RAP [Symbol]
- CROSS DRAIN [Symbol]
- CULVERT [Symbol]
- DRILLING PIT [Symbol]
- ROAD DITCH [Symbol]
- GAS LINE [Symbol]
- FENCE LINE [Symbol]
- ROCK OUTCROP [Symbol]
- WATER WELL [Symbol]
- HOUSE/STRUCTURE [Symbol]
- UTILITY POLE [Symbol]
- SPRING [Symbol]
- WET SPOT [Symbol]
- PIT WASTE APP. AREA [Symbol]

DRIVING DIRECTIONS FOR WILLIAM BOWERS 24

- 1.) FROM CHARLESTON, WV, GO EAST ON U.S. RT. 60 FOR APPROXIMATELY 13.5± MILES TO SECONDARY ROUTE 81, IN CEDAR GROVE.
- 2.) TURN SLIGHT RIGHT ONTO SECONDARY ROUTE 81 AND GO APPROXIMATELY 0.5± MILE TO SECONDARY ROUTE 81/1.
- 3.) TURN LEFT ONTO SECONDARY ROUTE 81/1 AND GO APPROXIMATELY 1.8± MILES TO THE BEGINNING OF THE ACCESS ROAD LOCATED ON THE LEFT-HAND SIDE OF THE ROAD.
- 4.) FROM THE AFOREMENTIONED SITE, FOLLOW THE EXISTING ROAD FOR APPROXIMATELY 0.7± MILE TO THE EXISTING WELL SITE AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

03/06/2015

Received
Office of Oil & Gas

JAN 27 2015

3902999



Received
Office of Oil & Gas
JAN 27 2015

Surface Owner
TM 10, TP 1
Robin Land Company
8,997.75 Ac.

MATCH SHEET 2

EXISTING ROAD
0% TO -2%
275'±

EXISTING ROAD
+3% TO +6%
570'±

EXISTING ROAD
0% TO -2%
205'±

EXISTING ROAD
+2% TO +5%
290'±

EXISTING ROAD
+7% TO +10%
385'±

EXISTING ROAD
+3% TO +6%
350'±

EXISTING ROAD
+8% TO +11%
410'±

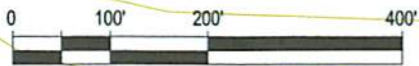
15" C.P.P.

15" C.P.P.

15" C.P.P.

15" C.P.P.

APPLY CULVERTS
AS NEEDED



GRAPHIC SCALE

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	

TM 22
TP 2

 Cabot Oil & Gas Corporation

WILLIAM BOWERS 24
CONSTRUCTION & RECLAMATION SITE PLAN

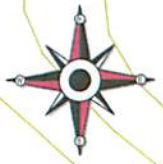
SITUATED ON THE WATERS OF HANEY FORK OF WITCHER CREEK
CABIN CREEK DISTRICT, KANAWHA COUNTY, WV
CEDAR GROVE QUADRANGLE

SHEET NUMBER 1 OF 2	SCALE: 1"=200'	DRAWN BY: G. PERKINS	DATE: 07-28-14	CHK'D. BY: DKC
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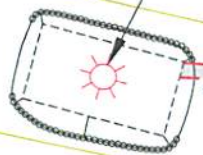
3902909P

1200

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.



WILLIAM BOWERS 24
API 039-02909



EXISTING ROAD
+1% TO +4%
295'±

15" C.P.P.

EXISTING ROAD
-2% TO -5%
300'±

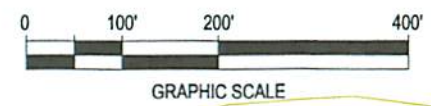
EXISTING ROAD
0% TO +2%
360'±

APPLY CULVERTS
AS NEEDED

Surface Owner
TM 10, TP 1
Robin Land Company
8,997.75 Ac.

Received
Office of Oil & Gas
JAN 27 2015

MATCH SHEET



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

WILLIAM BOWERS 24
CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF HANEY FORK OF WITCHER CREEK
CABIN CREEK DISTRICT, KANAWHA COUNTY, WV
CEDAR GROVE QUADRANGLE

SHEET NUMBER 2 OF 2	SCALE: 1"=200'	DRAWN BY: G. PERKINS	DATE: 07-28-14	CHK'D. BY: DKC
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Cabot Oil & Gas Corporation

North Region

January 21, 2015

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

RE: William Bowers #24
Cabin Creek District, Kanawha County, WV
API # 47-039-02909
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
Office of Oil & Gas
JAN 27 2015