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**west virginia** department of environmental protection

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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: 47-10900208, 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: 1251  
Farm Name: BROWN, J. K.  
**API Well Number: 47-10900208**  
**Permit Type: Plugging**  
Date Issued: 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

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date January 21, 2015  
2) Operator's  
Well No. J.K. Brown #1  
3) API Well No. 47-109 - 00208 P

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 1,293.13' Watershed Clear Fork of the Guyandotte River  
District Oceana County Wyoming Quadrangle Matheny

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 Danny Mullins Name Contractor Services, Inc.  
Address 124 Big Trace Fork Rd. Address 929 Charleston Road  
Harts, WV 25524 Spencer, WV 25276

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

Received  
Office of Oil & Gas  
JAN 27 2015

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

*OK gwm*

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

03/06/2015



**J. K. Brown #1  
API # 47 - 109 - 00208  
PLUGGING PROCEDURE**

**Current Configuration**

Elevation – 1290'  
 TD @ 3276'  
 16" conductor @ 16'  
 13-3/8" casing @ 114'  
 10-3/4" – 32.75# casing @ 260' on shoe  
 8-5/8" – 24# casing @ 1260' on packer  
 7" – 23# casing @ 2347' – shot off @ 2112' & pulled  
 No coal reported  
 Water @ 40', 135', & 352'  
 Gas shows @ 450' & 907'  
 Berea Grit @ 3200' – 3226' with no show  
 Big Lime @ 2300' – 2622' with gas show @ 2337' & 2549'  
 Maxton @ 2050' – 2100' w/ gas show @ 2076'  
 Ravencliff @ 1736' – 1786' w/ no show

**PROCEDURE**

1. Contact Pineville Office a minimum of 48 hours prior to starting work.
2. Contact State Inspector a minimum of 24 hours prior to starting work.
3. MIRU service rig and blow down well.
4. Lay 2" line from wellhead to pit/tank and stake down securely.
5. MIRU service rig and blow down well. Have vacuum truck available to catch any fluids circulated from well.
6. Unpack wellhead.
7. Unseat packer and pull 2-3/8" tubing.
8. TIH with 2-3/8" work string to 2090'.
9. MIRU Cementing Company.
10. Pump 50 bbls 6% gel followed by 60 sks of Class A cement for plug 1 from 2090' to 1900'.
11. Displace w/ 7 1/4 bbls of 6% Gel.
12. TOOH with work string. Let cement plug set for a minimum of eight hours.
13. *ATTEMPT TO PULL 8 5/8" CASING THAT IS ON PACKER*
14. *IF UNABLE TO PULL 8 5/8" FREEPOINT, CUT ABOVE FREEPOINT AND POOH.*
15. *TIH W/ 2 3/8" WORK STRING TO 1300' (CUT)*
16. Pump 50 bbls 6% gel followed by 50 sks of Class A cement for cement plug 2 from 1300' to 1200'. *CEMENT MUST COVER 8 5/8" CASING CUT.*
17. Displace w/ 4 1/2 bbls of 6% Gel.
18. Pull work string up to 950'.
19. Pump 50 sks of Class A cement for cement plug 3 from 950' to 850'.
20. Displace w/ 3 1/4 bbls of 6% Gel.
21. Pull work string up to 500'.
22. Pump 20 bbls 6% gel followed by 95 sks of Class A cement for cement plug 4 from 500' to 300'.
23. Displace w/ 1 bbl of 6% Gel.
24. TOOH with work string.
25. Pull 10-3/4", 13-3/8" & 16" casing strings. If unable to pull, run freepoint on casing strings, cut casing above freepoint, and POOH with casing.
26. TIH w/ work string to *250'* and pump *250* sks of Class A cement for plug 5 from *250'* to surface.
27. TOOH with work string and lay down.

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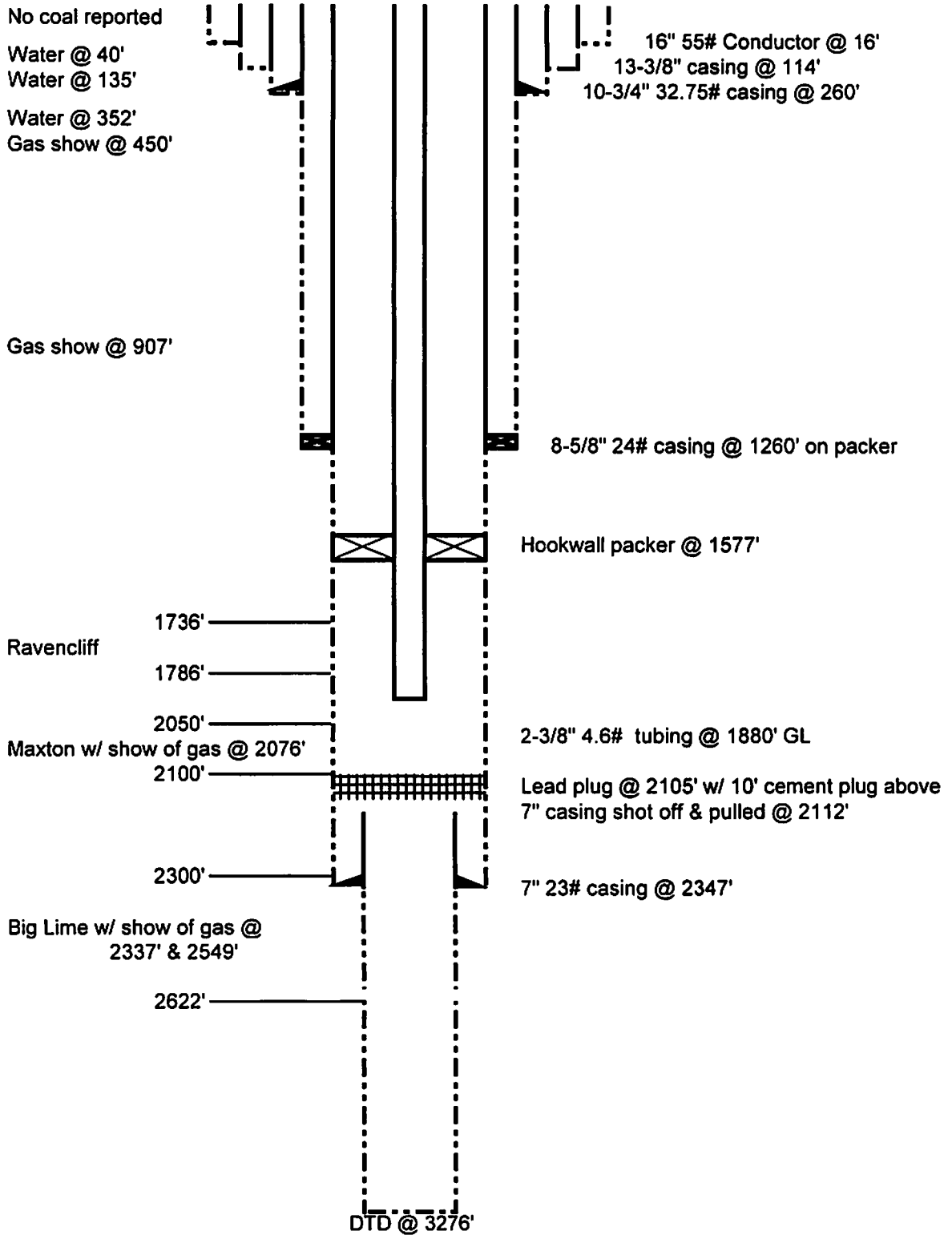
JAN 27 2015

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- 28. RDMO Cementing Company.
- 29. Place monument as required by law on top of well bore.
- 30. Reclaim well site.

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**J. K. Brown #1**  
API 47-109-00208  
CURRENT CONFIGURATION



Schematic is not to scale

T. Oll 12/08/14

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1) Date: January 21, 2015  
2) Operator's Well Number  
J.K. Brown #1

3) API Well No.: 47 - 109 - 00208

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

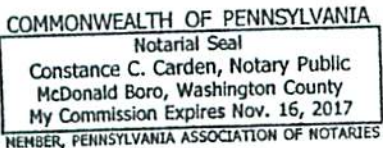
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Thomas H. Evans, Jr.</u>	Name <u>None</u>
Address <u>P.O. Box 32</u>	Address _____
<u>Oceana, WV 24870</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Thomas H. Evans, Jr.</u>
_____	Address <u>P.O. Box 32</u>
_____	<u>Oceana, WV 24870</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>124 Big Trace Fork Road</u>	Name <u>None of Record</u>
<u>Harts, WV 25524</u>	Address _____
Telephone <u>(304) 932-6844</u>	_____

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

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Cabot Oil & Gas Corporation  
 By: Kenneth L. Marcum  
 Its: Regulatory Supervisor  
 Address 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

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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](mailto:depprivacyofficer@wv.gov).

03/06/2015

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Total Postage & Fees	\$

Postmark Here  
 JAN 23 2015  
 CARNEGIE PA 15103

Sent To: Thomas H. Evans, Jr.  
 Street & Ap. or PO Box: P.O. Box 32  
 City, State: Oceana, WV 24870

PS Form 3849, Jan 1 2012  
 J.K. Brown #1 P&A

7014 2120 0003 6926 5866

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Total	\$

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 JAN 27 2015  
 CARNEGIE PA 15103

Sent To: Danny Mullins  
 Street or PO Box: 124 Big Trace Fork Road  
 City, State: Harts, WV 25524

PS Form 3849, Jan 1 2012  
 J.K. Brown #1 P&A

4285 9269 6926 5873

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 Office of Oil & Gas  
 JAN 27 2015



WW-9  
Rev. 5/10

Page 1 of \_\_\_\_\_  
API Number 47 - 109 - 00208  
Operator's Well No. \_\_\_\_\_

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 Clear Fork of the Guyandotte River Quadrangle Matheny

Elevation 1,293' County Wyoming District Oceana

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*

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

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Office of Oil & Gas

JAN 27 2015

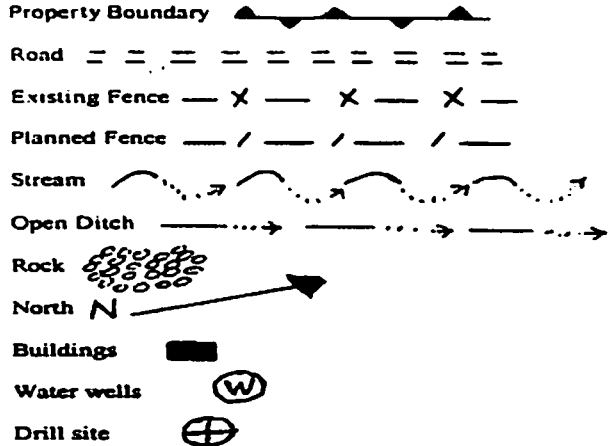
Subscribed and sworn before me this 21st day of January, 2015

*Constance C. Carden* Notary Public

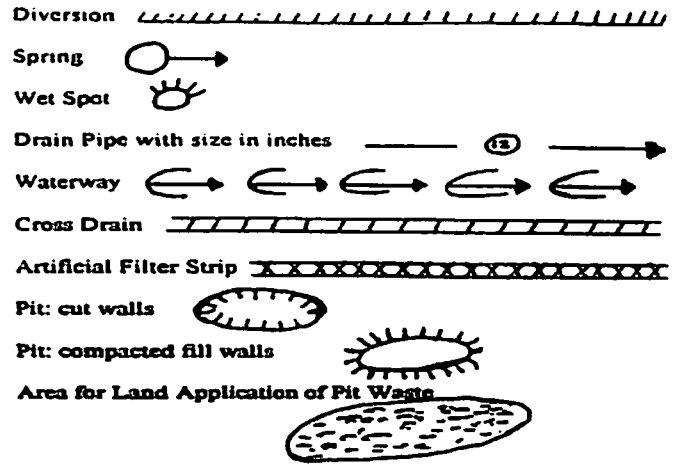
My commission expires November 16, 2017

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 1.0 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	Birdsfoot 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: \_\_\_\_\_

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

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

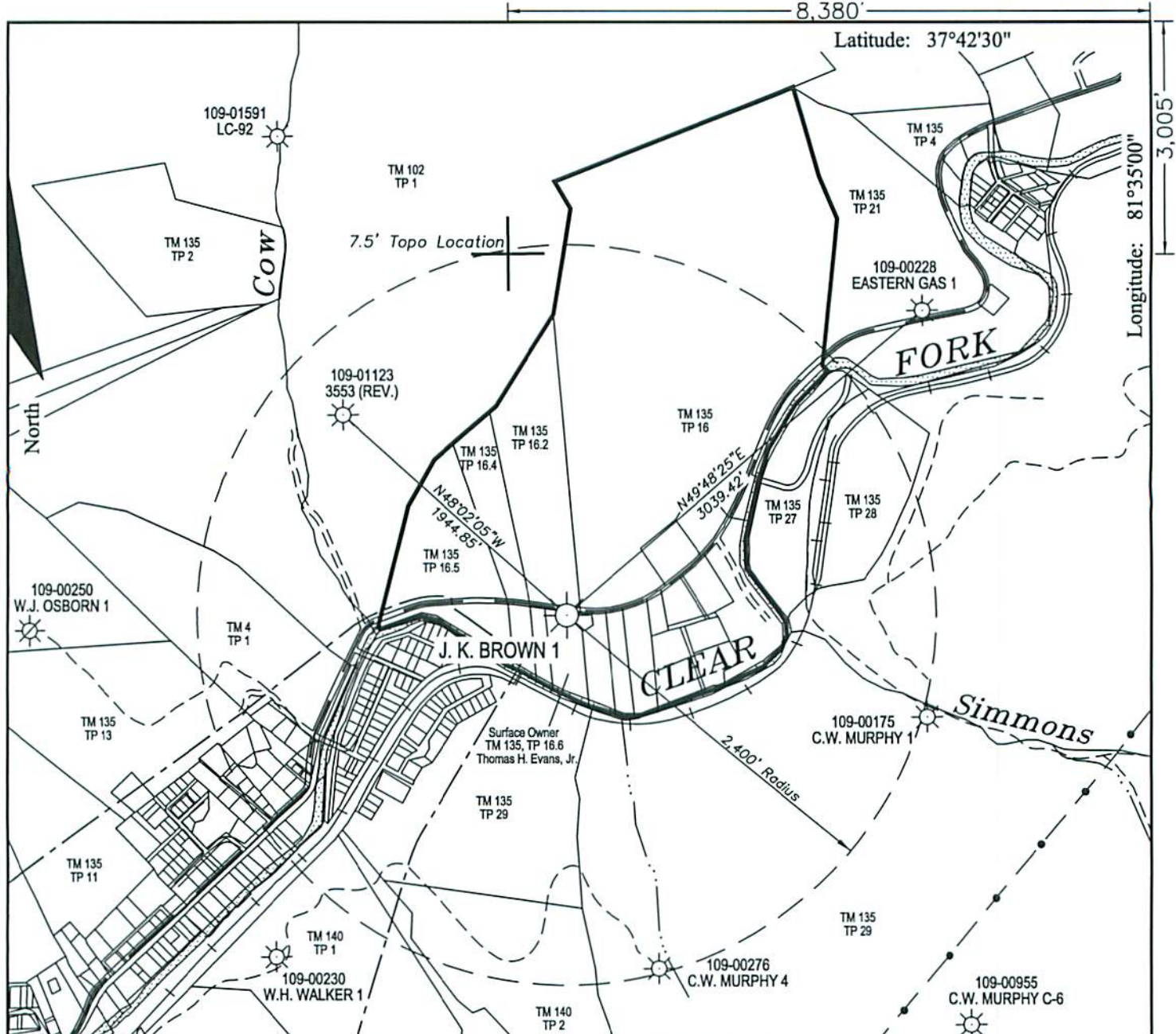
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Office of Oil & Gas

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109 00208P



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.

Surface Tract  
Lease Tract

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Office of Oil & Gas

JAN 27 2015

West Virginia State Plane  
South Zone NAD '27  
N 255,505.09 : E 1,822,845.48  
UTM 17 - NAD 83 - Meters  
N 4,172,728.52 : E 446,038.32

FILE #:  
DRAWING #: Brown 1 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 ENVIRONMENTAL PROTECTION.

Signed: \_\_\_\_\_  
R.P.E.: \_\_\_\_\_ L.L.S.: 1993



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



DATE: December 11, 2014  
OPERATOR'S WELL #: J. K. Brown 1  
API WELL #: 47 109 00208P  
STATE COUNTY PERMIT

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

WATERSHED: Clear Fork of the Guyandotte River ELEVATION: 1,293.13'

COUNTY/DISTRICT: Wyoming / Oceana QUADRANGLE: Matheny

SURFACE OWNER: Thomas H. Evans, Jr. ACREAGE: 2.25

OIL & GAS ROYALTY OWNER: Thomas H. Evans, Jr. ACREAGE: 2.25

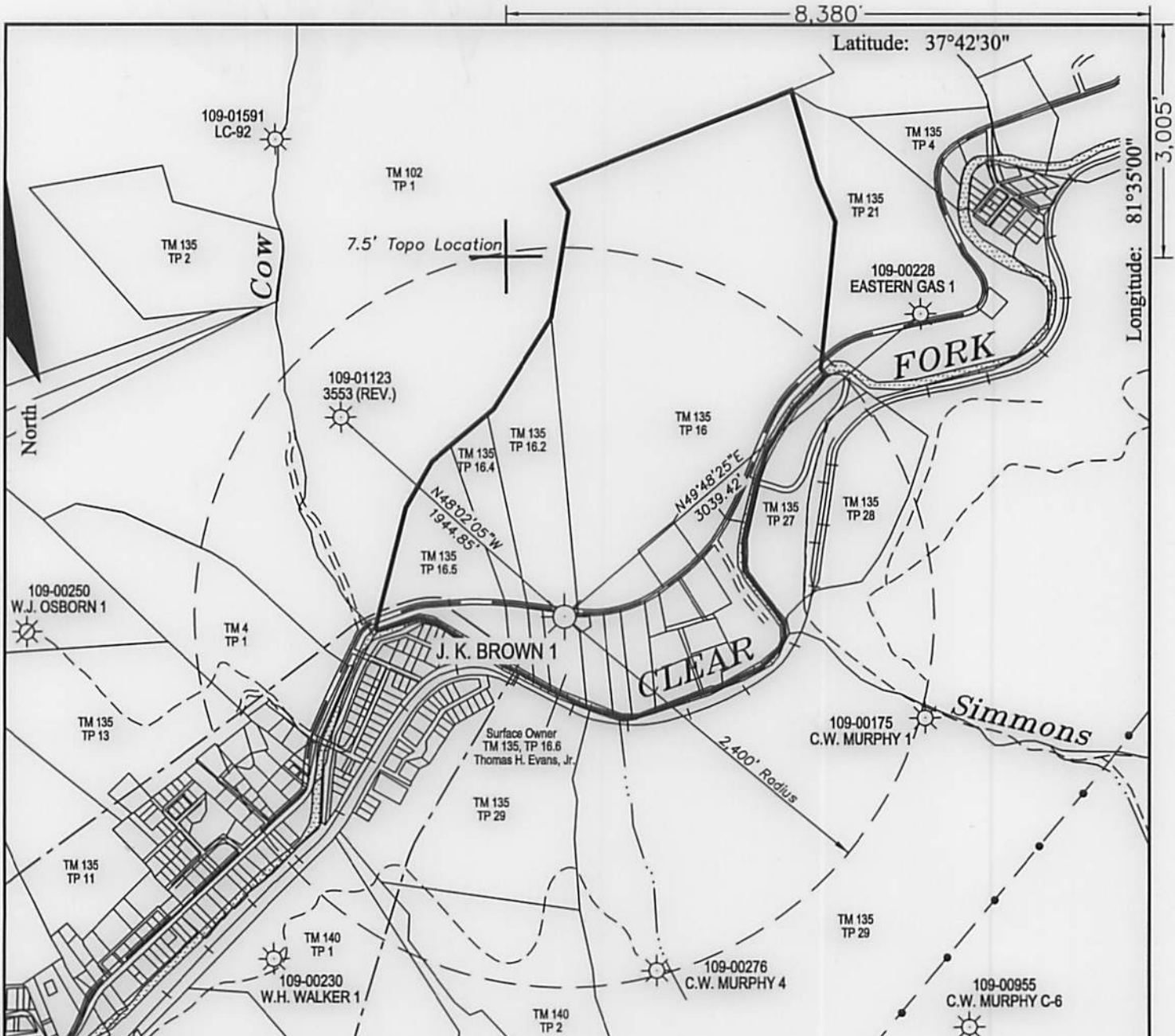
LEASE #: 47-0464 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

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.

Surface Tract Lease Tract

West Virginia State Plane  
South Zone NAD '27  
N 255,505.09 : E 1,822,845.48  
UTM 17 - NAD 83 - Meters  
N 4,172,728.52 : E 446,038.32

FILE #: \_\_\_\_\_  
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Signed:

R.P.E.: \_\_\_\_\_ L.L.S.: 1993



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



DATE: December 11, 2014  
OPERATOR'S WELL #: J. K. Brown 1  
API WELL #: 47 109 00208 P  
STATE COUNTY PERMIT

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 Gas  Liquid Injection  Storage  Shallow

WATERSHED: Clear Fork of the Guyandotte River ELEVATION: 1,293.13'

COUNTY/DISTRICT: Wyoming / Oceana QUADRANGLE: Matheny

SURFACE OWNER: Thomas H. Evans, Jr. ACREAGE: 2.25

OIL & GAS ROYALTY OWNER: Thomas H. Evans, Jr. ACREAGE: 2.25

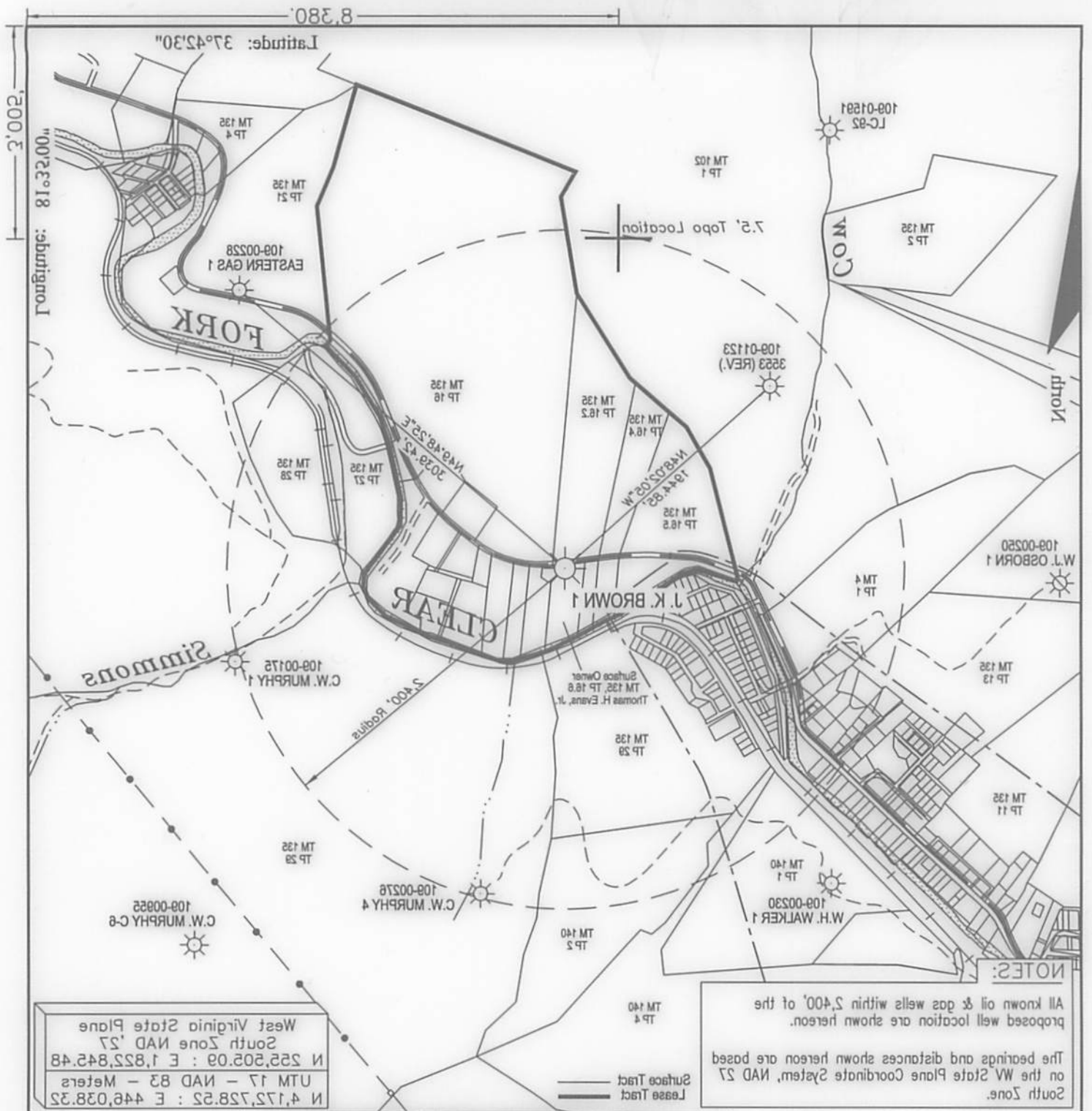
LEASE #: 47-0464 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

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:  
 The bearings and distances shown hereon are based on the West Virginia State Plane Coordinate System, NAD 27 South Zone.  
 Surface Tract  
 Lease Tract  
 All known oil & gas wells within 2,400' of the proposed well location are shown hereon.

West Virginia State Plane  
 South Zone NAD '27  
 N 252,502.09 : E 1,822,842.48  
 UTM 17 - NAD 83 - Meters  
 N 4,127,282.52 : E 448,038.32



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS  
 PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND  
 BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY  
 LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY  
 THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.  
 Signed: \_\_\_\_\_  
 R.P.E.: \_\_\_\_\_  
 L.T.S.: 1993

FILE #:  
 DRAWING #: Brown 1 w6  
 SCALE: 1" = 1000'  
 MINIMUM DEGREE  
 OF ACCURACY: 1 : 12,729  
 PROVEN SOURCE Global Positioning  
 OF ELEVATION: System (GPS)

DATE: December 11, 2014  
 OPERATOR'S WELL #: J. K. Brown 1  
 API WELL #: 47 109 005089  
 STATE COUNTY PERMIT

WELL TYPE:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: Clear Fork of the Guyandotte River  
 ELEVATION: 1,293.13'

COUNTY/DISTRICT: Wyoming / Oceana  
 SURFACE OWNER: Thomas H. Evans, Jr.  
 OIL & GAS ROYALTY OWNER: Thomas H. Evans, Jr.  
 ACREAGE: 2.25

LEASE #: 47-0464  
 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.  
 Address Five Penn Center West, Suite 401  
 City Glasgow State PA Zip Code 15276

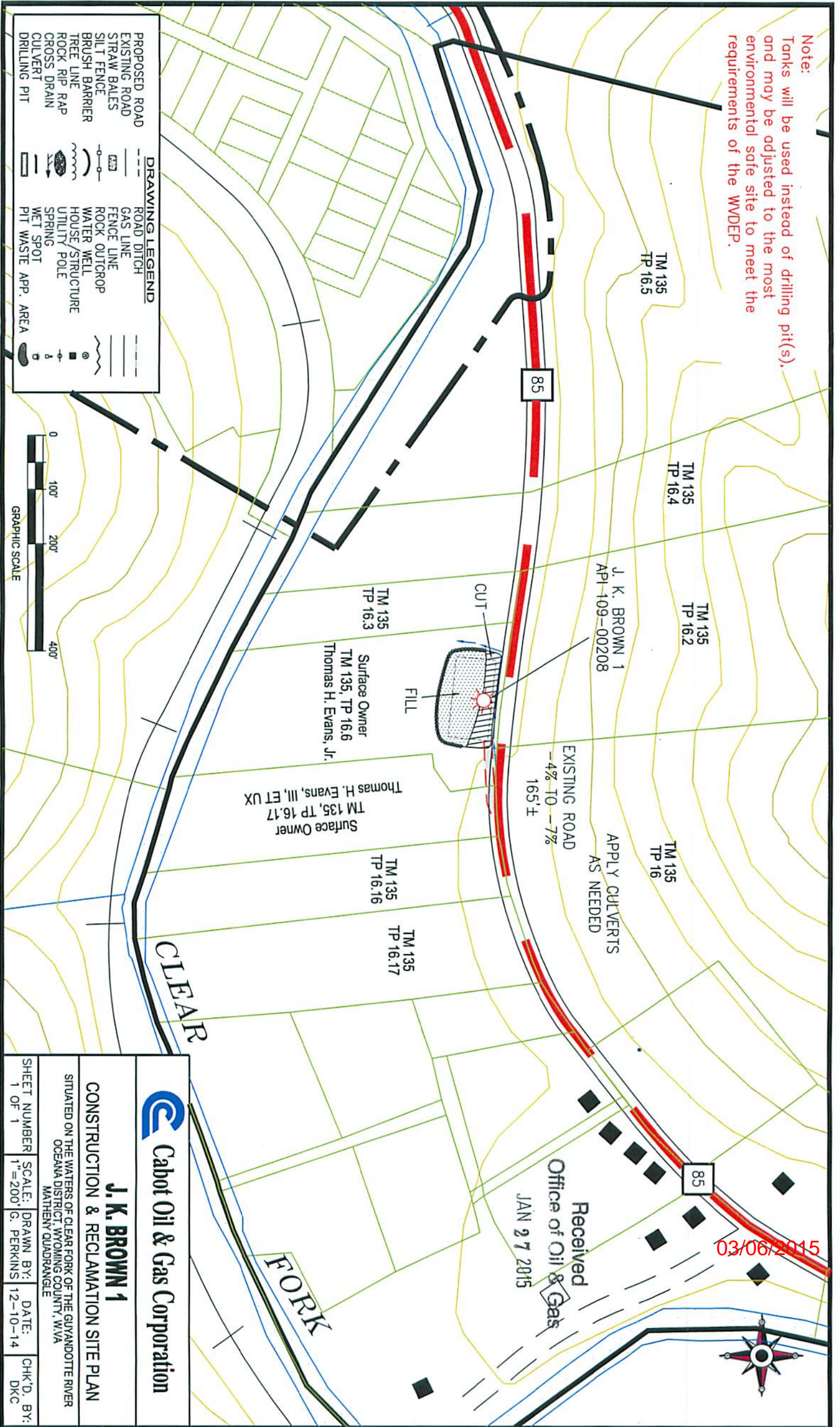
DESIGNATED AGENT Whitney Johnson  
 Address P.O. Box 450  
 City Glasgow State WV Zip Code 25086

CHARLESTON, WV 25304  
 601 27TH STREET  
 OFFICE OF OIL & GAS  
 UNITED STATES TOPOGRAPHIC MAPS  
 (+) DENOTES LOCATION OF WELL ON

03/06/2015



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 WDEP.



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



03/06/2015

Received  
Office of Oil & Gas  
JAN 27 2015



**Cabot Oil & Gas Corporation**

**J. K. BROWN 1**

**CONSTRUCTION & RECLAMATION SITE PLAN**

SITUATED ON THE WATERS OF CLEAR FORK OF THE GUYANDOTTE RIVER  
OCEANA DISTRICT, WYOMING COUNTY, W.VA  
MATHENY QUADRANGLE

SHEET NUMBER 1 OF 1	SCALE: 1"=200'	DRAWN BY: G. PERKINS	DATE: 12-10-14	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.

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 J. K. BROWN 1**

- 1.) FROM PINEVILLE, WV, DRIVE NORTH ON STATE ROUTE 10 FOR 12.3 MILES± TO INTERSECTION OF STATE ROUTES 10 AND 85 IN OCEANA, WV.
- 2.) TURN RIGHT AND CONTINUE NORTH ON STATE ROUTE 85 FOR 1.0 MILE± TO THE BEGINNING OF THE EXISTING ACCESS ROAD LOCATED ON THE RIGHT-HAND SIDE OF THE ROAD.
- 3.) FROM THE AFOREMENTIONED SITE, FOLLOW THE EXISTING ROAD FOR APPROXIMATELY 185 FEET± TO THE EXISTING WELL AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

03/06/2015

Received  
Office of Oil & Gas

JAN 27 2015





North Region  
January 21, 2015

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

RE: J.K. Brown #1  
Oceana District, Wyoming County, WV  
API # 47-109-00208  
Written Application to plug and abandon wellbore

Dear Chief:

In accordance with Article 22-6-23 of the Code of State Regulations regarding oil and gas operations, please find attached a formal application for the plug and abandonment of the subject well.

Notices of our intention to plug this wellbore have been sent to surface owner, coal owner, and coal operators associated with this well. Copies of the certified mail receipts are attached for your records.

If you have any questions or need additional information, I can be reached at 412-249-3850.

Sincerely,

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

Kenneth L. Marcum  
Regulatory Supervisor

Received  
Office of Oil & Gas

JAN 27 2015