



---

**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 16, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-6700155, 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: M. E. AMICK 1  
Farm Name: PARSONS, VIRGIL E. & JUNE  
**API Well Number: 47-6700155**  
**Permit Type: Plugging**  
Date Issued: 03/16/2015

## 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.

1) Date January 22, 2015  
2) Operator's  
Well No. M.E. Amick #1  
3) API Well No. 47-067 - 00155

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 715.14' Watershed Twentymile Creek of Gauley River  
District Jefferson County Nicholas Quadrangle Gauley Bridge

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  
Name Ed Gainer  
Address P.O. Box 821  
Spencer, WV 25276

9) Plugging Contractor  
Name Contractor Services, Inc.  
Address 929 Charleston Road  
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 and Gas  
FEB 03 2015

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 2/3/15

03/20/2015

**M. E. Amick #1**  
**API # 47 - 067 - 00155**  
**PLUGGING PROCEDURE**

**Current Configuration**

DTD @ 2231'  
 Elevation @ 715'  
 13 3/8" conductor @ 20'  
 10" 32.75# casing @ 204'  
 7" 26# casing @ 1523'  
 Berea @ 2115' - 2184'  
 Injun @ 1700' - 1720'  
 Keener @ 1664' - 1700'  
 Big Lime @ 1491' - 1664' with gas shows @ 1491' & 1639'  
 No coal reported  
 Water @ 38'

**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. **TIH with 2-3/8" work string to 2200'.**
7. MIRU Cement Company and pump 20 bbls 6% Gel followed by 20 sks of Class A cement for plug 1 from 2200' to 2090'.
8. Displace w/ 8 bbls of 6% Gel. *if 2 3/8" work string*
9. Pull work string up to 1660' and pump 20 sks of Class A cement for plug 2 from 1660' to 1550'.
10. Displace w/ 6 bbls of 6% Gel. *2 3/8" work string*
11. TOOH with work string.
12. Pull 7" casing.
13. TIH with work string to 1500' and pump 50 bbls 6% Gel followed by 60 sks of Class A cement for plug 3 from 1500' to 1300'.
14. Displace w/ 5 bbls of 6% Gel. *if 2 3/8" work string*
15. Pull work string up to 750' and pump 60 bbls 6% Gel followed by 50 sks of Class A cement for plug 4 from 750' to 650'.
16. Displace w/ 2 1/2 bbl of 6% Gel.
17. TOOH with work string.
18. Pull 10" casing and 13 3/8" conductor.
19. TIH with work string to 150' and pump 110 sks of Class A cement for plug 5 from 150' to surface.
20. TOOH with work string and lay down.
21. RDMO Cementing Company.
22. Place monument as required by law on top of well bore.
23. Reclaim well site.

*Get all changes approved by*  
Inspector

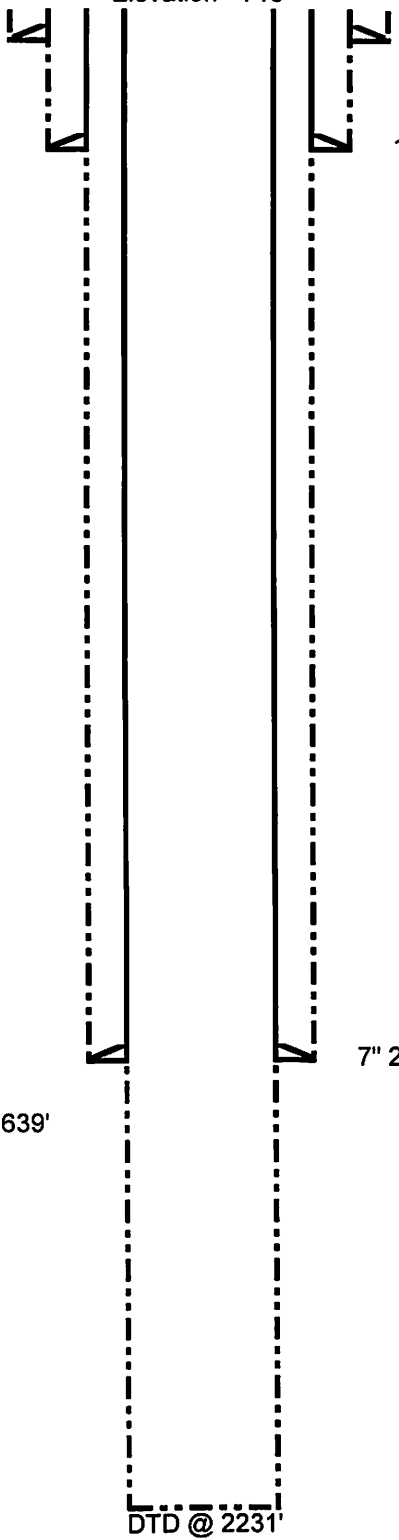
RECEIVED  
 Office of Oil and Gas

FEB 03 2015

WV Department of  
 Environmental Protection **03/20/2015**

M. E. Amick #1  
API 47-067-00155  
CURRENT CONFIGURATION  
Elevation - 715'

Water @ 38'  
No coal reported



13 3/8" Conductor @ 20'

10" 32.75# Casing @ 204'

7" 26# Casing @ 1523'

Big Lime @ 1491' - 1664'  
w/ gas show @ 1491' & 1639'  
Keener @ 1664' - 1700'  
Injun @ 1700' - 1720'

Berea @ 2115' - 2184'

DTD @ 2231'

Received  
Office of Oil & Gas  
JAN 27 2015

Schematic is not to scale

T. Ott 01/20/15

Jayetevilla  
Nic-155

GODFREY L. CABOT, INC.

6700155P

WELL RECORD 3

SERIAL NO. 1425

OPERATING DISTRICT Auk

Map Square 30-54  
Lot No.  
Warrant No.

FARM M. E. Amick

NO. 1

LEASE NO. W.V.74

COUNTY Nicholas

TAX DISTRICT Jefferson

STATE W. Va.

DRILLING COMMENCED 9-15-54

DRILLING COMPLETED 11-1-54

CONTRACTOR Company tools

ADDRESS

ROCK PRESSURE RECORD

PRODUCING SAND RECORD

Big Lime Sand 213 lbs., in 96 hrs.  
Sand lbs., in hrs.  
Sand lbs., in hrs.

Big Lime Sand, from 1610 to 1660 Init. Prod. 47 M. C. F. Ga  
Sand, from to Init. Prod. M. C. F. Ga  
Sand, from to Init. Prod. M. C. F. Ga

OPEN FLOW Time, Condition: After acidizing and pulling tubing: 10ths Mercury in inch opening  
Volume 76 M. C. F.

CASING RECORD

24 HOUR PRODUCTION TEST AFTER TUBING  
52 M. C. F. 80 Line Pressure  
Bbls. Oil in 24 Hours

SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	HOW CASING SET
13-3/8	48#	20	20	
10"	32.75	204	204	Shoe.
8"	24#	1129	None	Bottom hole packer.
7"	26#	1523	1523	Shoe.

STOPPED AND SHUT IN Date

SHOOTING RECORD

packer, Size Kind  
set, Depth Size Anchor  
perf. Top Bottom  
perf. Top Bottom

Acid shot with 2000 gals from 1610 to 1660 Date 11-18-54  
Gauge Before Acid shot 47 Mcf Gauge 24 Hrs. After acidize 76 Mcf

ELEVATION: 715

FORMATION	COLOR	TOP	BOTTOM	STEEL LINE MEASUREMENTS	HARD OR SOFT	OIL, GAS OR WATER	DEPTH FOUND	REMARKS
Gravel		0	10					
Sand		10	59			Water	38	Hole full.
Slate & Shell		59	105					
Lime		105	128					
Sand		128	150					
Slate & Shell		150	175					
Sand		175	230					
Slate & Shell		230	260					
Sand		260	280					
Slate & Shell		280	300					
Lime		300	369					
Sand		369	468					
Lime		468	500					
Slate & Shell		500	520					
Sand		520	830					
Slate & Shell		830	867					
Sand		867	908					
Slate & Shell		908	980					
Sand		980	1040					
Slate & Shell		1040	1100					
Sand		1100	1107					
Red Rock		1107	1130					
Shale		1130	1153					
Sand		1153	1170					
Red Rock		1170	1336					
Shale		1336	1345					
Sand		1345	1390					
Lime		1390	1473					
Shale & Lime		1473	1491	1491		Oil	1491	Show only.
Big Lime		1491	1664			Gas	1491	70 Mcf; decreased to 21 Mcf.
Keener		1664	1700			Gas	1623	Show.
Injun		1700	1720			Gas	1639	492 M decreased to 47 M.
Siltstone & Shale		1720	1840					
Shale		1840	1895					
Slate		1895	2102					
Shale	Brown	2012	2115					
Berea		2115	2184					Grey, very fine grained sand.

Received  
Office of Oil & Gas  
JAN 27 2015



03/20/2015

SERIAL NO. 1425 FARM M. E. AMICK NO. 1 OPERATING DIST. Auk MAP SQUARE 30-54 WARRANT NO.

TA 2231

6700155P

TRIAL NO. 1125

FARM

M. E. Amich

NO. 1

OPERATING DIST. Auk

TOWNSHIP

MAP SQUARE

30-51

LOT NO.

WARRANT NO.

FORMATION	COLOR	TOP	BOTTOM	STEEL LINE MEASUREMENTS	HARD OR SOFT	OIL, GAS OR WATER	DEPTH FOUND	REMARKS
Initial		2184	2231					
Total Depth			2231					

Received  
Office of Oil & Gas  
JAN 27 2015

03/20/2015

TOTAL DEPTH

DATE

APP

6700155P

WW-4A  
Revised 6-07

1) Date: January 22, 2015  
2) Operator's Well Number  
M.E. Amick #1

3) API Well No.: 47 - 067 - 00155

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

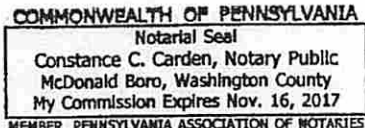
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Darrell Moore</u>	Name <u>Little Eagle Coal Company</u>
Address <u>P.O. Box 201</u>	Address <u>P.O. Box 134</u>
<u>Belva, WV 26656</u>	<u>Bickmore, WV 25019</u>
(b) Name <u>Ronnie Williams, Jr., &amp; Tina Williams</u>	(b) Coal Owner(s) with Declaration
Address <u>1442 Vaughan Road</u>	Name <u>Darrell Moore</u>
<u>Belva, WV 26656</u>	Address <u>P.O. Box 201</u>
	<u>Belva, WV 26656</u>
(c) Name <u>Joyce Moore c/o Vivian Moore</u>	Name _____
Address <u>1504 Vaughan Road</u>	Address _____
<u>Belva, WV 26656</u>	_____
6) Inspector <u>Ed Gainer</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 821</u>	Name <u>None of Record</u>
<u>Spencer, WV 25276</u>	Address _____
Telephone <u>(304) 389-7582</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 <u>Cabot Oil &amp; Gas Corporation</u>
	By: <u>Kenneth L. Marcum</u> <i>Kenneth L. Marcum</i>
	Its: <u>Regulatory Supervisor</u>
	Address <u>Five Penn Center West, Suite 401</u>
	<u>Pittsburgh, PA 15276</u>
Telephone <u>(412) 249-3850</u>	

Subscribed and sworn before me this 22nd day of January 2015  
Constance C. Carden Notary Public  
My Commission Expires November 16, 2017

**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).

MAR 16 2015  
03/20/2015  
WV Department of  
Environmental Protection



6200155P

7014 2120 0003 6926 5969

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total P		

Postmark Here

Sent To Little Eagle Coal Company  
 Street & or PO Box P.O. Box 134  
 City, State City, State Bickmore, WV 25019

M.E. Amick #1 P&A

PS Form 3800, July 2014 See Reverse for Instructions

7014 2120 0003 6926 5958

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total P		

Postmark Here

Sent To Darrell Moore  
 Street & or PO Box P.O. Box 201  
 City, State City, State Belva, WV 26656

M.E. Amick #1 P&A

PS Form 3800, July 2014 Instructions

7014 2120 0003 6926 5965

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total P		

Postmark Here

Sent To Ronnie Williams, Jr., & Tina Williams  
 Street & or PO Box 1441 Vaughan Road  
 City, State City, State Belva, WV 26656

M.E. Amick #1 P&A

PS Form 3800, July 2014 See Reverse for Instructions

7014 2120 0003 6926 5972

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Post		

Postmark Here

Sent To Joyce Moore c/o Vivian Moore  
 Street & or PO Box 1504 Vaughan Road  
 City, State City, State Belva, WV 26656

M.E. Amick #1 P&A

PS Form 3800, July 2014 Instructions

7014 2120 0003 6926 5996

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

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

Postmark Here

Sent To Ed Gainer  
 Street & or PO Box P.O. Box 821  
 City, State City, State Spencer, WV 25276

M.E. Amick #1 P&A

PS Form 3800, July 2014 Instructions

Received  
Office of Oil & Gas  
JAN 27 2015

03/20/2015

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ronnie Williams, Jr., & Tina Williams  
1441 Vaughan Road  
Belva, WV 26656

M.E. Amick #1 P&A

2. Article Number

(Transfer from service label)

7014 2120 0003 6926 5965

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

*[Handwritten Signature]*

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

Certified Mail®

Priority Mail Express™

Registered

Return Receipt for Merchandise

Insured Mail

Collect on Delivery

4. Restricted Delivery? (Extra Fee)

Yes

Received

FEB - 2 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

03/20/2015

6700155A

WW-9  
Rev. 5/10

Page 1 of  
API Number 47 - 067 - 00155  
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 Twentymile Creek of the Gauley River Quadrangle Gauley Bridge

Elevation 715' County Nicholas District Jefferson

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 \_\_\_\_\_)

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

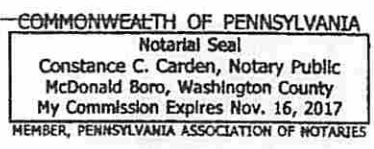
Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 22nd day of January, 2015

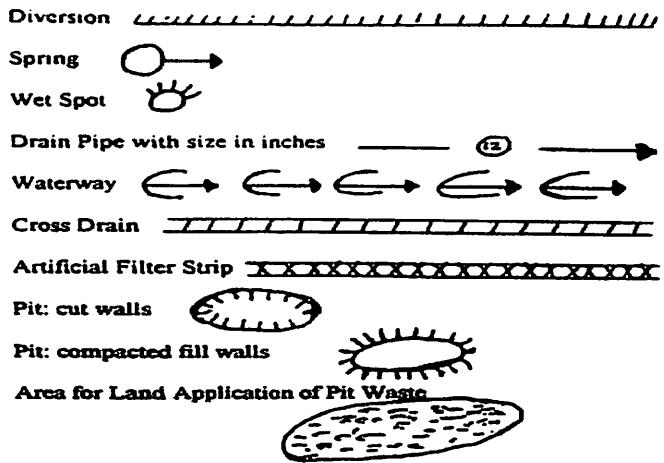
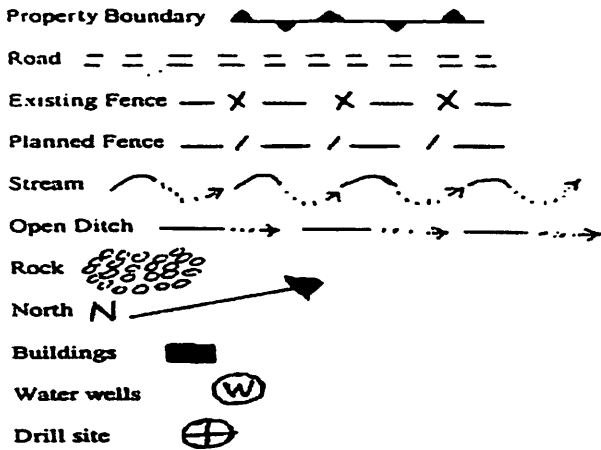
Constance C. Carden Notary Public

My commission expires November 16, 2017

MAR 16 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

Area I		
Seed Type	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	

Area II		
Seed Type	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

Received  
Office of Oil & Gas  
JAN 27 2015

03/20/2015

**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 M.E. AMICK 1**

- 1.) FROM CHARLESTON, WV DRIVE EAST ON INTERSTATE 77 FOR 5 MILES± TO THE BELLE, WV INTERCHANGE AND EXIT THE HIGHWAY ONTO U.S. ROUTE 60.
- 2.) AT THE BOTTOM OF THE EXIT RAMP, BEAR TO THE LEFT AND CONTINUE EAST ON U.S. ROUTE 60 FOR 32.7 MILES± TO THE INTERSECTION OF STATE ROUTE 16.
- 3.) TURN LEFT AT THE INTERSECTION AND CONTINUE IN A NORTHERLY DIRECTION ON STATE ROUTE 16 FOR 6.3 MILES± TO THE INTERSECTION OF SECONDARY ROUTE 16/3.
- 4.) TURN RIGHT ONTO SECONDARY ROUTE 16/3, WHICH TURNS INTO SECONDARY ROUTE 20/21 AND CONTINUE IN A NORTHERLY DIRECTION ON SECONDARY ROUTE 20/21 FOR 1.5 MILES± TO THE BEGINNING OF AN EXISTING ACCESS ROAD ON THE RIGHT-HAND SIDE OF THE ROAD.
- 5.) TURN RIGHT ONTO THE EXISTING ACCESS ROAD FOR 35 FEET± TO THE EXISTING WELL SITE AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

08/20/2015

Received  
Office of Oil & Gas

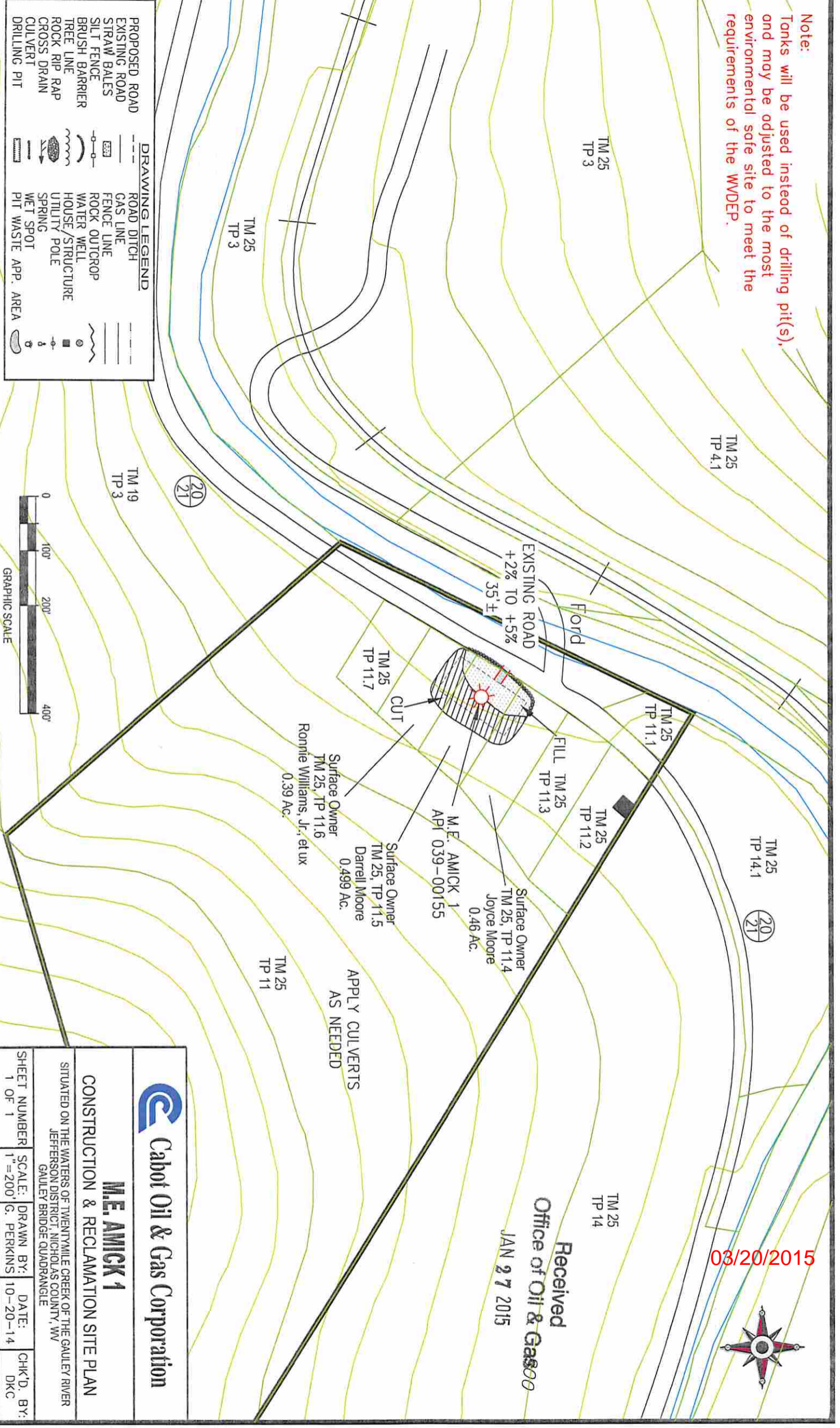
JAN 27 2015



**M.E. AMICK 1**  
JEFFERSON DISTRICT, NICHOLAS COUNTY, WV  
GAULEY BRIDGE 7.5' QUADRANGLE

**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	--- ROAD DITCH
EXISTING ROAD	— GAS LINE
SIRAW 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




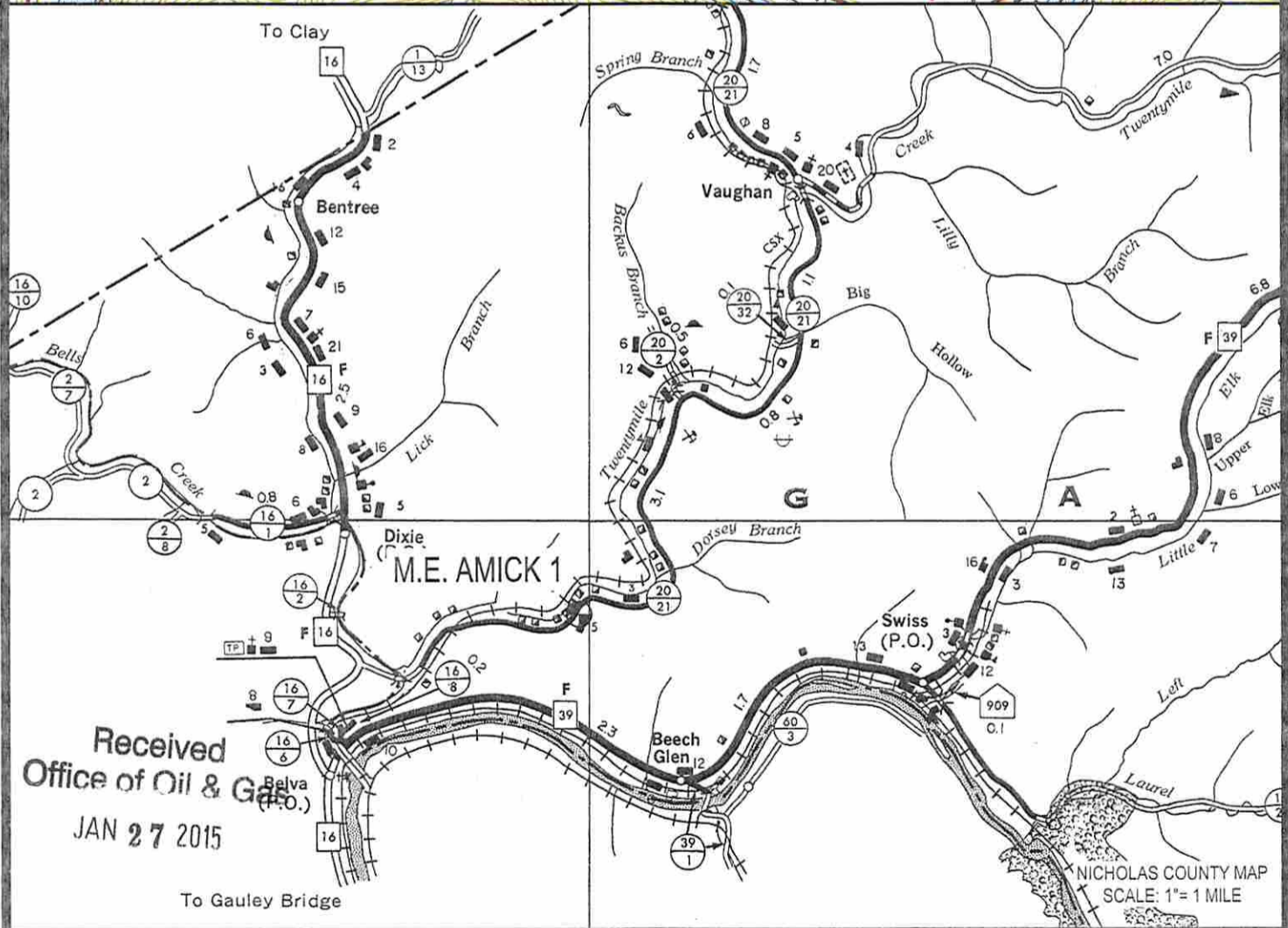
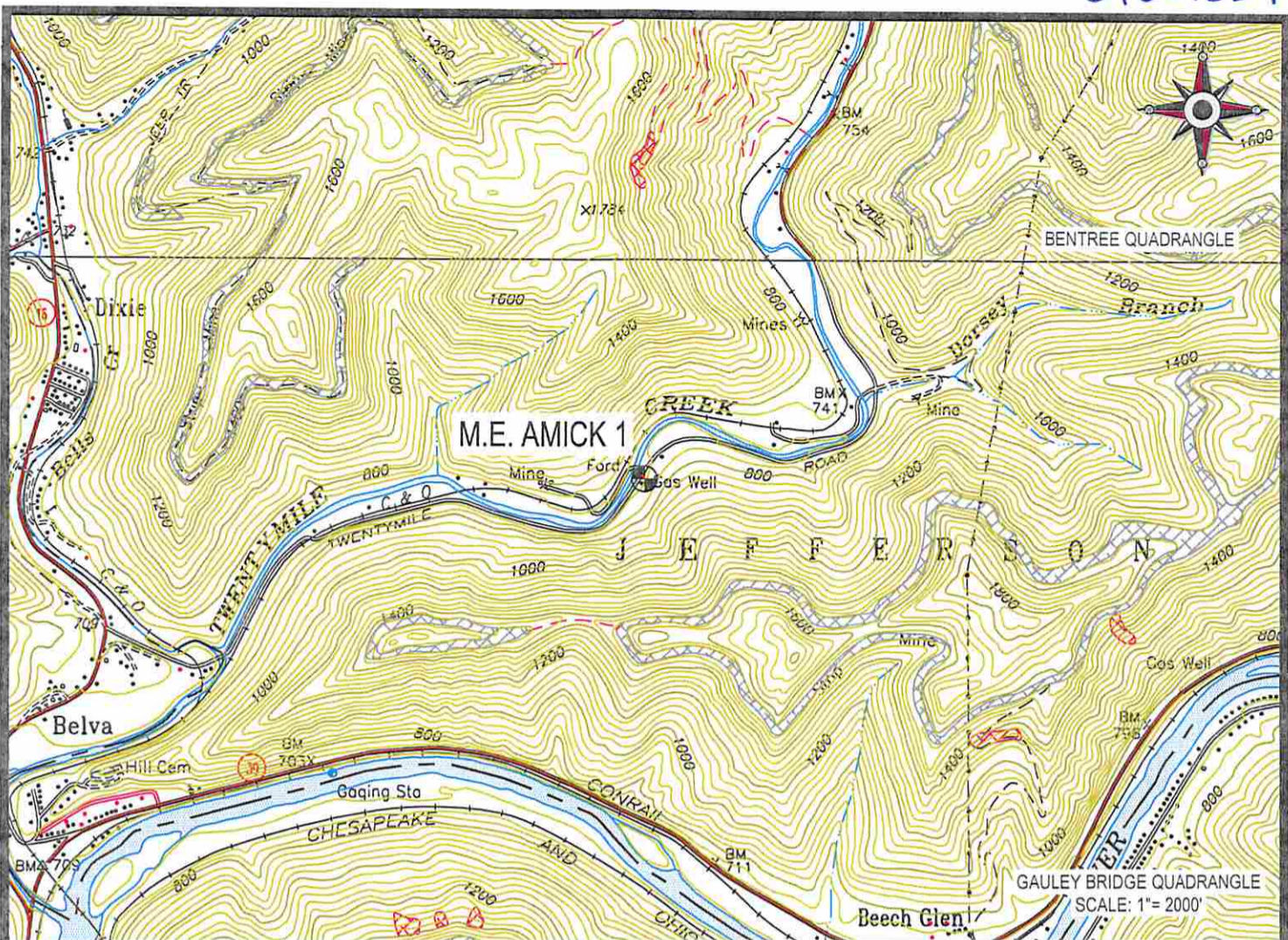
03/20/2015



Received  
Office of Oil & Gas  
JAN 27 2015


APPLY CULVERTS  
AS NEEDED

 <b>Cabot Oil &amp; Gas Corporation</b>				
<b>M.E. AMICK 1</b> <b>CONSTRUCTION &amp; RECLAMATION SITE PLAN</b>				
SITUATED ON THE WATERS OF TWENTYMILE CREEK OF THE GAULEY RIVER JEFFERSON DISTRICT, NICHOLAS COUNTY, WV GAULEY BRIDGE QUADRANGLE				
SHEET NUMBER	SCALE:	DRAWN BY:	DATE:	CHK'D. BY:
1 OF 1	1"=200'	G. PERKINS	10-20-14	DKC



Received  
Office of Oil & Gas  
JAN 27 2015

 Cabot Oil & Gas Corporation

 **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 •

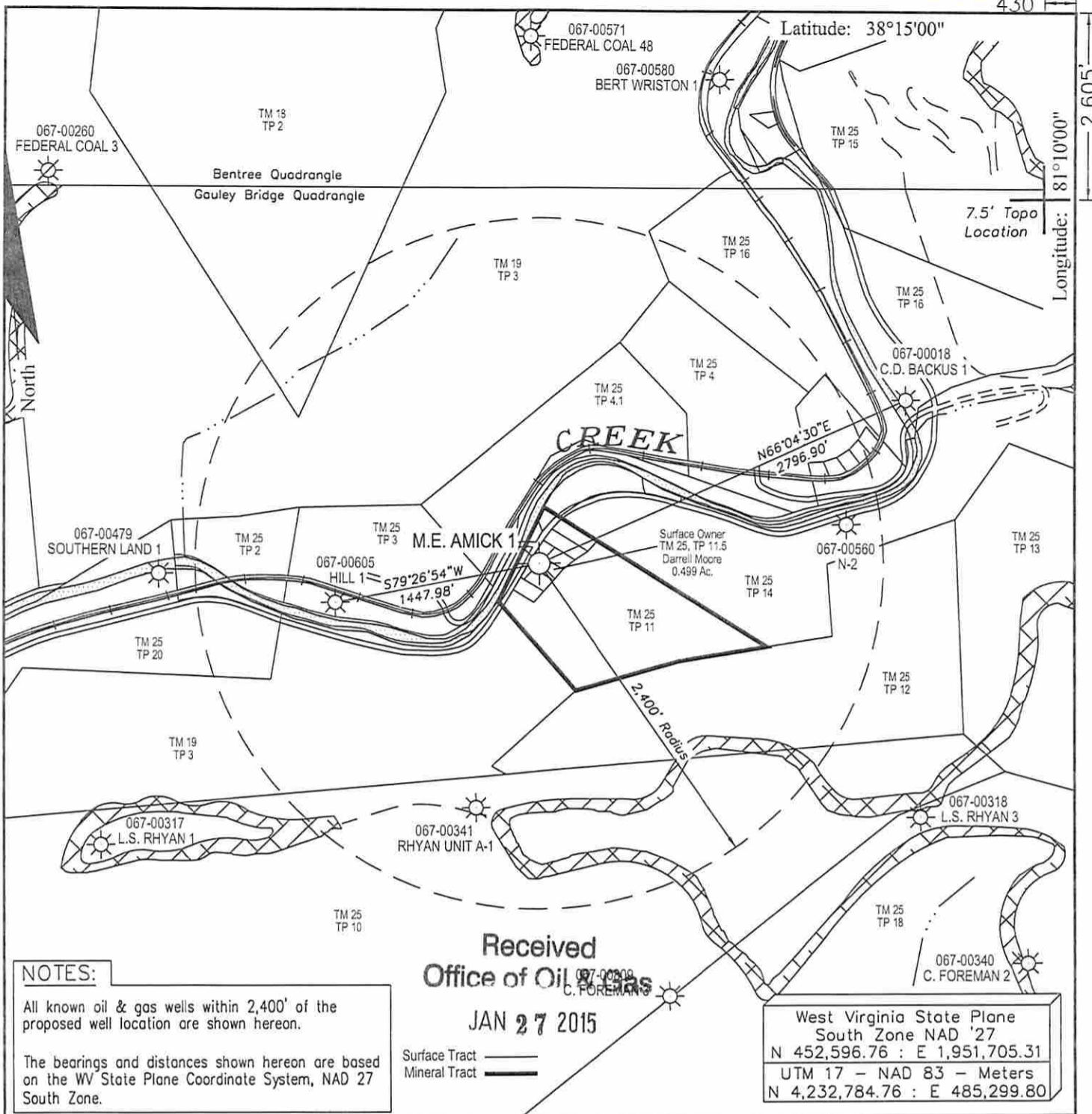
**M.E. AMICK 1**  
LOCATION MAP

03/20/2015

LOCATED ON THE WATERS OF TWENTYMILE CREEK  
OF THE GAULEY RIVER  
JEFFERSON DISTRICT, FAYETTE COUNTY, WV  
SISSONVILLE QUADRANGLE

PROJECT NO. CABOT	DWG. NO. AMICK 1 LOC.DWG
DATE: 10-20-14	SCALE: AS NOTED
DRAWN BY: G. PERKINS	CHK'D BY: D.K.C.
FILE: C:\PROJECT FOLDER\CABOT	

6700157P  
430'



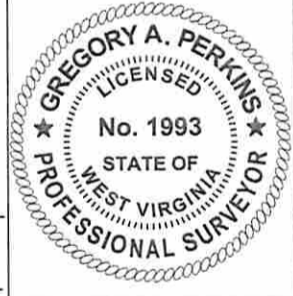
**NOTES:**  
 All known oil & gas wells within 2,400' of the proposed well location are shown hereon.  
 The bearings and distances shown hereon are based on the WV State Plane Coordinate System, NAD 27 South Zone.

Received  
 Office of Oil & Gas  
 JAN 27 2015

West Virginia State Plane  
 South Zone NAD '27  
 N 452,596.76 : E 1,951,705.31  
 UTM 17 - NAD 83 - Meters  
 N 4,232,784.76 : E 485,299.80

FILE #:  
 DRAWING #: Amick 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 ENVIORNMENTAL PROTECTION.  
 Signed: [Signature]  
 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: October 20, 2014  
 OPERATOR'S WELL #: M.E. Amick 1  
 API WELL #: 47 067 00155 P  
 STATE COUNTY PERMIT

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

WATERSHED: Twentymile Creek of Gauley River ELEVATION: 715.14'

COUNTY/DISTRICT: Nicholas / Jefferson QUADRANGLE: Gauley Bridge

SURFACE OWNER: Darrell Moore ACREAGE: 0.499

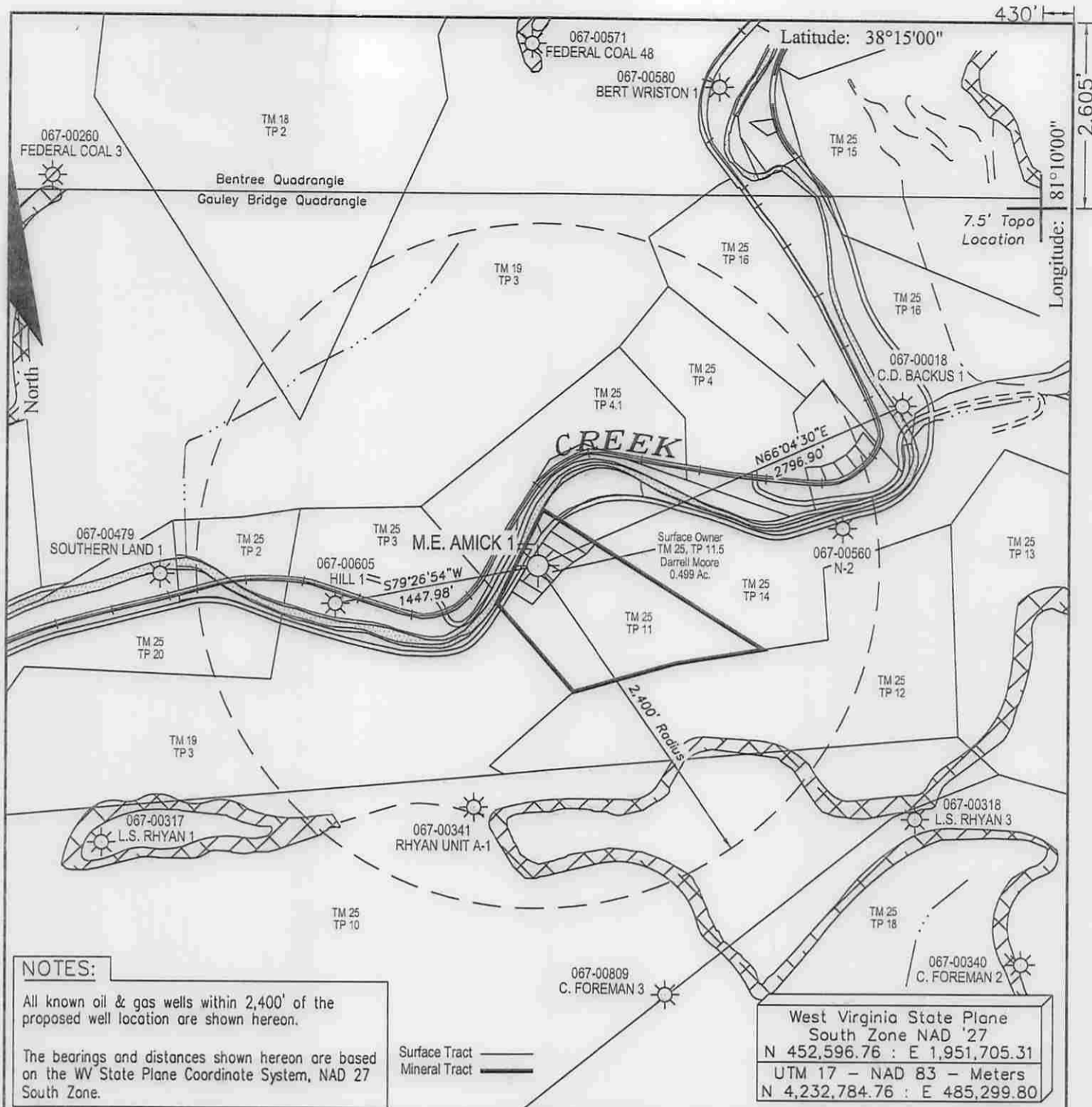
OIL & GAS ROYALTY OWNER: Prospect Land and Development Co., Inc. ACREAGE: 29 03/20/2015

LEASE #: 47-0653 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





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

DRAWING #: Amick 1 ww6

SCALE: 1" = 1000'

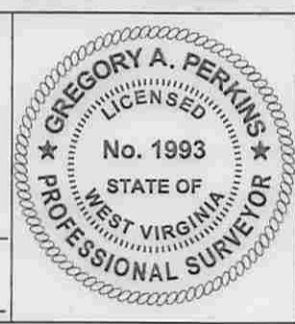
MINIMUM DEGREE OF ACCURACY: 1 : 12,729

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: [Signature]

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: October 20, 2014

OPERATOR'S WELL #: M.E. Amick 1

API WELL #: 47 067 00155 P  
STATE COUNTY PERMIT

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

WATERSHED: Twentymile Creek of Gauley River ELEVATION: 715.14'

COUNTY/DISTRICT: Nicholas / Jefferson QUADRANGLE: Gauley Bridge

SURFACE OWNER: Darrell Moore ACREAGE: 0.499

OIL & GAS ROYALTY OWNER: Prospect Land and Development Co., Inc. ACREAGE: 29

LEASE #: 47-0653 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

03/20/2015



January 22, 2015

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

RE: M.E. Amick #1  
Jefferson District, Nicholas County, WV  
API # 47-067-00155  
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  
Office of Oil & Gas

JAN 27 2015