



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

August 10, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4701386, 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: BERWIND LAND 27
Farm Name: BERWIND LAND CO

API Well Number: 47-4701386

Permit Type: Plugging

Date Issued: 08/10/2015

Promoting a healthy environment.

08//14/2015

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1) Date July 17, 2015
2) Operator's
Well No. Berwind Land #27
3) API Well No. 47-047 -01386

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 2,666.25' Watershed Kewee Creek of Dry Fork of Tug Fork of the Big Sandy River
District Big Creek County McDowell Quadrangle Amonate

6) Well Operator Cabot Oil & Gas Corporation 7) Designated Agent Phillip Hill
Address Five Penn Center West, Ste. 401 Address 900 Lee St., E. Suite 1500, Huntington Sq.
Pittsburgh, PA 15276 Charleston, WV 25301

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gary Kennedy Name Contractor Servies, Inc.
Address P.O. Box 268 Address 929 Charleston Road
Nimitz, WV 25978 Spencer, WV 25276

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

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

Work order approved by inspector *Gary Kennedy* Date 7/28/15

08/14/2015

BERWIND LAND #27

API # 47 - 047 - 01386

PLUGGING PROCEDURE

Current Configuration

DTD @ 5530' KB

12 3/4" conductor @ 25' KB, not cemented

7" - 17# LS casing @ 2088' KB, cemented & squeezed to surface

4 1/2" - 10.5# - J-55 casing @ 5475' KB w/ TOC @ 4830'

2-3/8" - 4.7# EUE tubing @ 5470' KB

Berea formation: 5468' - 5530' - frac'd open hole

Big Lime formation: 4202' - 4865'

Ravenclyff formation: 2410' - 2560'

Workable Coal @ 555' - 557', 670' - 672', 1258' - 1260', 1272' - 1274', 1314' - 1316',
1418' - 1420', & 1508' - 1511'

No water reported

PROCEDURE

1. Contact Pineville District Office a minimum of 48 hours prior to starting work
2. Contact state inspector a minimum of 24 hours prior to starting work.
3. MIRU service rig and blow down well.
4. Lay 2" line from wellhead to pit/tank and stake down securely. Vent 4-1/2" x ^{7"}8-5/8" annulus.
5. Unpack wellhead and ensure tubing is free and can be pulled.
6. Run rig tools to determine well TD and note any fluid level.
7. Lower tubing to TD with two joints of tubing.
8. MIRU Cementing Company.
9. Pump 20 sacks of Class A cement for cement plug 1 from ±5520' to 5320'.
10. Displace with 20 bbls of 6% Gel.
11. POOH with tubing and let cement plug set for a minimum of eight hours.
12. Run freepoint and cut 4 1/2" casing where free. Estimate ±4800'.
13. Pick up casing 1 jt and pump 36 sacks of Class A cement for cement plug 2 from ±4800' to 4600'.
14. Displace with 73 bbls of 6% Gel.
15. Pull casing up to 2500' and pump 40 sacks of Class A cement for Cement Plug 3 from 2500' 2300'.
16. Displace with 36 bbls of 6% Gel.
17. Pull casing up to 2200' and pump ENOUGH expanding cement for Cement Plug 4 from 2200' to ~~2100'~~ 2033'.
18. Displace with 33 bbls of 6% Gel.
19. PULL CASING UP TO 1550', AND SET 100' CLASS A CEMENT PLUG FROM 1550' - 1450'.
20. PLACE 6% GEL FROM 1450' - 200'.
21. PULL CASING TO 200'.
22. SET 200' CLASS A CEMENT PLUG FROM 200' TO SURFACE.
23. Erect Monument according to Law.
24. RDMO.

9/1/14

6% GEL BETWEEN ALL CEMENT PLUGS.
PULL 12 3/4" CONDUCTOR.

[Handwritten signature]

08/14/2015

Berwind Land #27
API 47-047-01386
CURRENT CONFIGURATION

Workable Coal @ 555' - 557',
& 670' - 672'

Workable Coal @ 1258' - 1260',
1272' - 1274', 1314' - 1316',
1418' - 1420', & 1508' - 1511'

12-3/4" Conductor @ 25' KB (not cemented)

7" 17# LS casing @ 2088' KB
Cemented w/ 140 sx Class A
Sqz perfs @ 530' & cemented to surface
w/ 100 sx Class A

2410'
Ravenc Cliff
2560'

4202'
Big Lime

4865'
5468'
Berea
5530'

TOC @ 4830' KB

2-3/8" 4.7# EUE tubing @ 5470' KB
4-1/2" 10.5# J-55 Casing @ 5475' KB

DTD @ 5530' KB

Schematic is not to scale

T. Ott 09/18/14

4701386P

R-35



Ne

Date: 16-May-00
API # 47-047-01386

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

Reviewed: [Signature]

Operator name: Berwind Land Co.

Operator Well No.: Berwind Land #27

LOCATION: Elevation: 2,670.36' Quadrangle: Amonate
District: Big Creek County: McDowell
Latitude: 4,865 feet South of 37 DEG. 15 MIN. 0 SEC.
Longitude: 320 feet West of 81 DEG. 42 MIN. 30 SEC.

Company: Cabot Oil & Gas Corporation
400 Fairway Drive: Suite 400
Coraopolis, PA 15108-4308

Agent: John Abshire
Inspector: Ofie Helmick
Permit Issued: 3/29/99
Well Work Commenced: 3/10/00
Well Work Completed: 5/12/00
Verbal Plugging
Permission granted on:
Rotary Cable _____
Total Depth (feet) 5530'
Fresh Water Depths (ft) _____
Salt Water Depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
12-3/4"	21'	21'	
7"	2083'	2083'	480 sks Class "A"
4-1/2"	5470'	5470'	50 sks RFC

Coal being mined in area (Y/N)? _____
Coal Depths (ft) 110'-111', 320'-321', 407'-408', 490'-491', 555'-557', 670'-672', 742'-743', 903'-904', 974'-975', 1006'-1007', 1125'-1126', 1258'-1260', 1272'-1274', 1314'-1316', 1382'-1383', 1418'-1420', 1508'-1511', 1645'-1646'

OPEN FLOW DATA

Producing formation Berea Pay zone depth (ft) 5470' - 5515'
Gas: Initial open flow 47 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 289 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock pressure 230 psig (surface pressure after 48 Hours)

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure after _____ Hours)

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: CABOT OIL & GAS CORPORATION

By: [Signature]
Date: 5-31-00

08/14/2015

Amonate 1

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MCD-1386

OPEN FLOW DATA

Perf'd Berea from 5470'-5515'. Broke down with 500 gals 28% HCl acid @ 1600 psi. ISIP: 650 psi. Treated with 75Q foam using 324 bbl of fluid, 450,000 scf N₂ and 35,500# 20/40 mesh sand. ATP: 3000 psi. MTP: 3950 psi. AIR: 16 bpm. ISIP: 3930 psi.

FORMATION	TOP	BOTTOM	REMARKS
Silt/Shale	0	2100	
Shale	2100	2410	
RV	2410	2560	
Shale	2560	2660	
Avis	2660	2715	
Silt/Shale	2715	3250	
Maxton	3250	3582	
Silt/Shale	3582	3715	
Maxton	3715	3802	
Shale	3802	3895	
Little Lime	3895	3990	
Shale	3990	4202	
Big Lime	4202	4865	
Pocono	4865	5100	
Weir	5100	5108	
Shale	5108	5468	
Berea	5468	5530 - TD	

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08/14/2015

WW-4A
Revised 6-07

1) Date: July 13, 2015
2) Operator's Well Number
Berwind Land #27
3) API Well No.: 47 - 047 - 01386

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

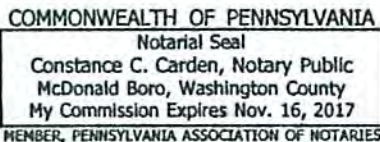
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Berwind Land Company</u>	Name <u>See Attached Sheet</u>
Address <u>300 Summers Street, Suite 1050</u>	Address _____
<u>Charleston, WV 25301</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Berwind Land Company</u>
_____	Address <u>300 Summers Street, Suite 1050</u>
_____	<u>Charleston, WV 25301</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 268</u>	Name <u>Consolidation Coal Company</u>
<u>Nimitz, WV 25978</u>	Address <u>1000 Consol Energy Drive</u>
Telephone <u>(304) 382-8402</u>	<u>Canonsburg, PA 15317</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: John Smelko
 Its: John J. Smelko
 North Region Manager, Environmental and Regulatory Compliance
 Address Five Penn Center West, Suite 401
Pittsburgh, PA 15276
 Telephone (412) 249-3850

RECEIVED
Office of Oil and Gas

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

JUL 22 2015

WV Department of
Environmental Protection

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.

08/14/2015

COAL OPERATORS
Berwind Land #27
47-047-01386

Ambush Mining, Inc. ✓
HC 32 Box 588
Caretta, WV 24892

Consolidation Coal Company ✓
1000 Consol Energy Drive
Cannonsburgh, PA 15317

Gemco Energy, Inc. ✓
P.O. Box 336
Mullens, WV 25882

Brooks Run Mining Company, LLC ✓
208 Business Street
Beckley, WV 25801

Double Take Mining Co., Inc. ✓
Box 1084
Bluefield, VA 24605

Raw Coal Mining Co., Inc. ✓
P.O. Box 1030
Bluefield, VA 24605

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Office of Oil and Gas

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WV Department of
Environmental Protection

08/14/2015

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WW-9
(2/15)

API Number 47 - 047 - 01386

Operator's Well No. Berwind land #27

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Cabot Oil & Gas Corporation OP Code 08145

Watershed (HUC 10) Kewee Creek of Dry Fork Quadrangle Amonate

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No *Task* *File*

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

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 No treated pit wastes will be produced)

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. no drilling proposed

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? N/A

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? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 John Smelko

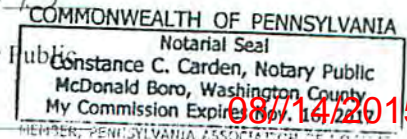
Company Official (Typed Name) John Smelko

Company Official Title North Region Manager, Environmental and Regulatory Compliance

Subscribed and sworn before me this 16th day of July, 2015

Constance C. Carden Notary Public

My commission expires 11/16/2017



MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARY PUBLICS

Cabot Oil & Gas Corporation

Proposed Revegetation Treatment: Acres Disturbed 12.83 Prevegetation pH 6.38

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20/20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch Pulp Fiber at 1000 to 1500 ¹⁶⁵ Tons/acre

Seed Mixtures

Temporary

Permanent

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)	

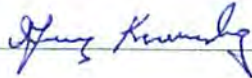
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(Annual Rye - 20) (White Clover - 5)	
(Perennial Rye - 10) (Alta Sweet Clover - 5)	
(Yellow Clover - 5) (Birdsfoot Trefoil - 10)	

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

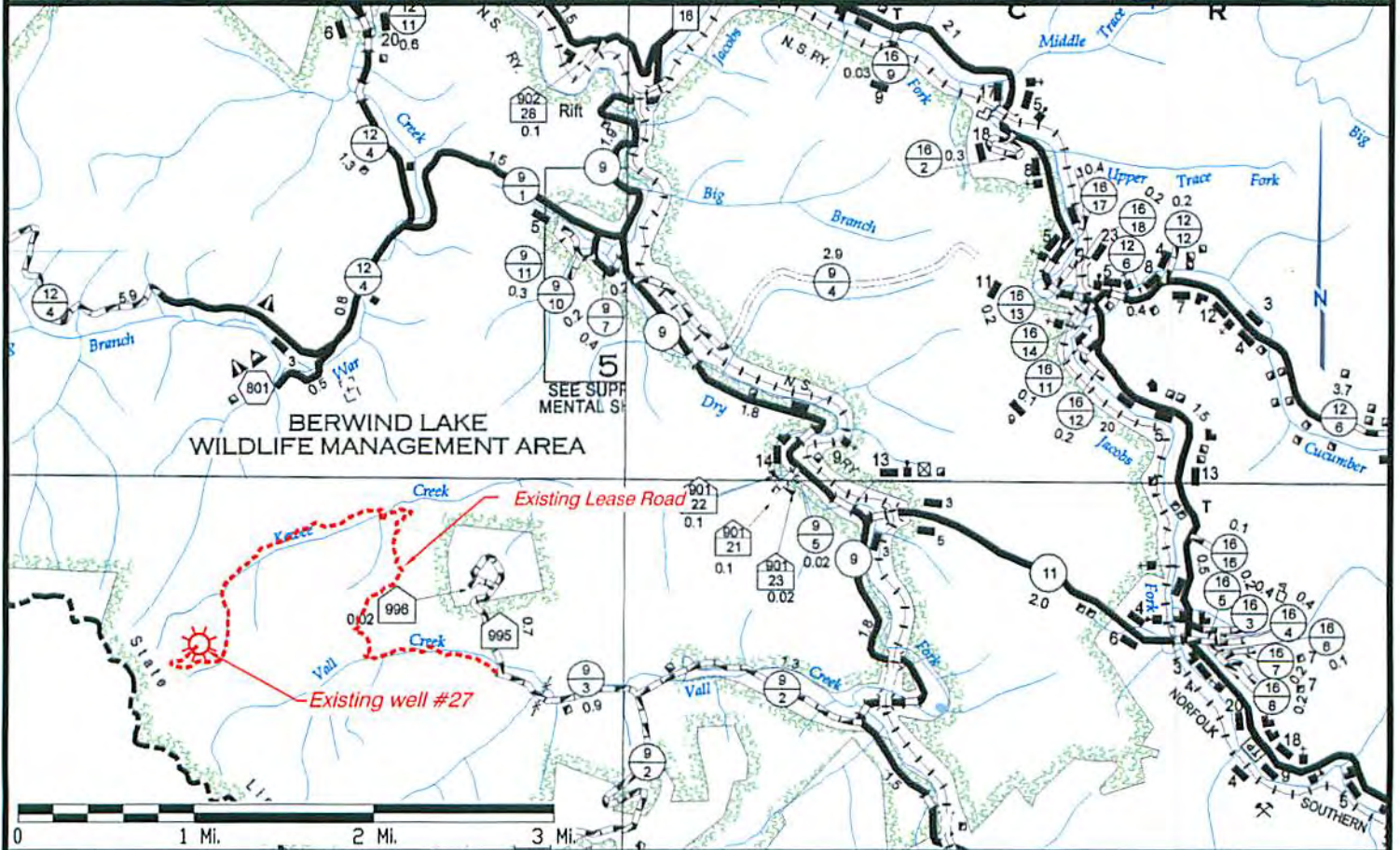
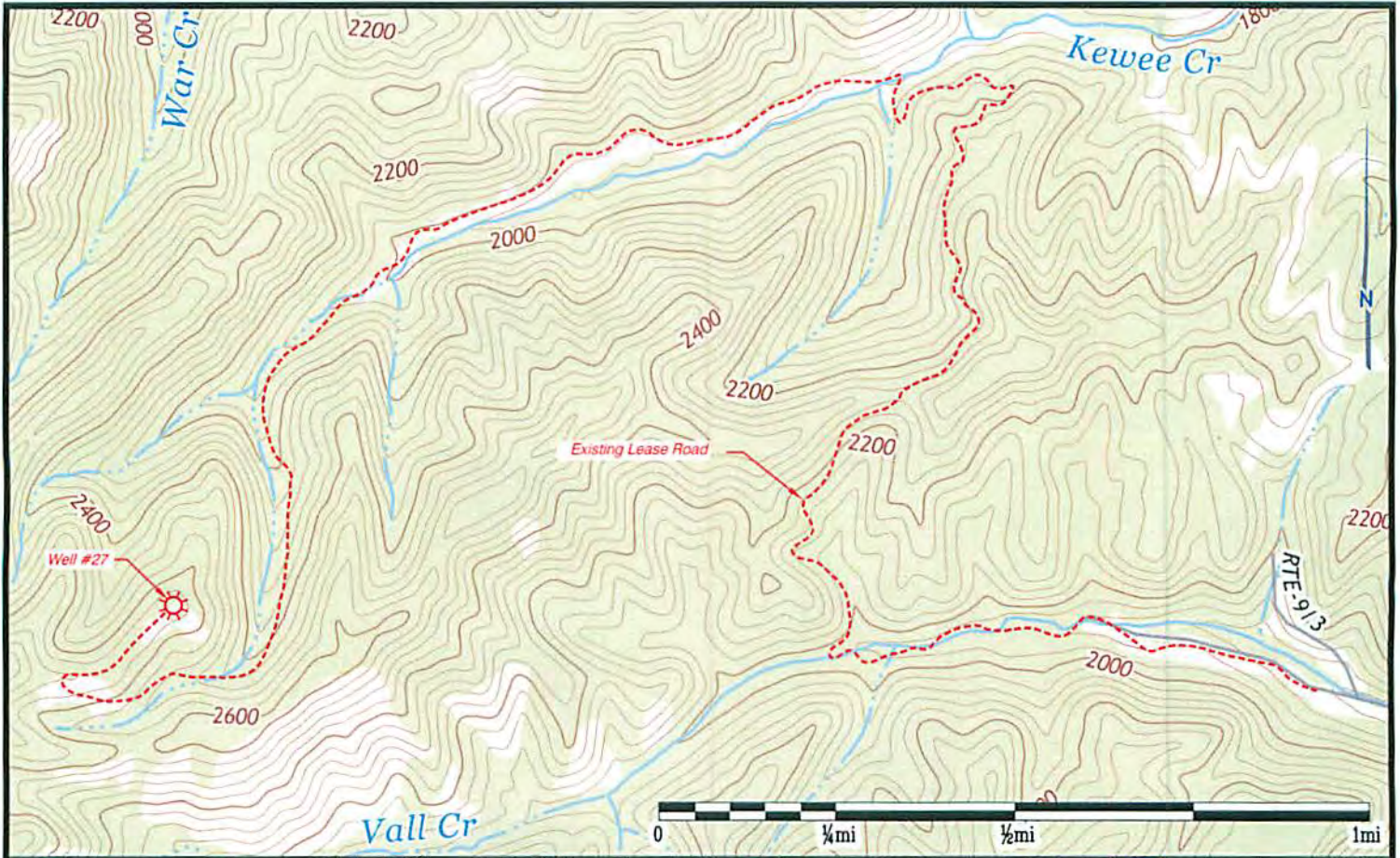


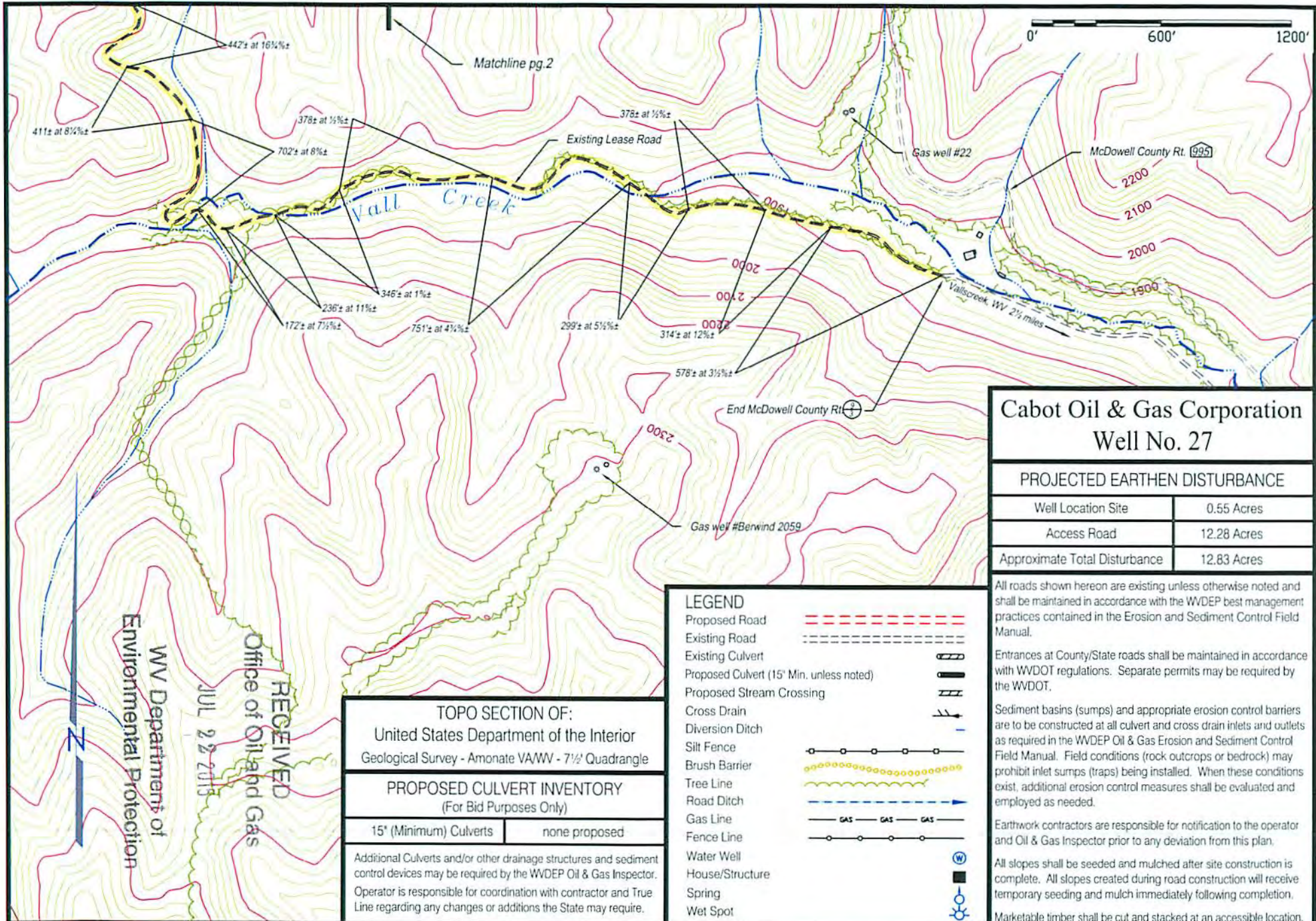
Comments: _____

Title: Inspector

Date: 7/28/15

Field Reviewed? () Yes () No





Cabot Oil & Gas Corporation Well No. 27

PROJECTED EARTHEN DISTURBANCE	
Well Location Site	0.55 Acres
Access Road	12.28 Acres
Approximate Total Disturbance	12.83 Acres

All roads shown hereon are existing unless otherwise noted and shall be maintained in accordance with the WVDEP best management practices contained in the Erosion and Sediment Control Field Manual.

Entrances at County/State roads shall be maintained in accordance with WVDOT regulations. Separate permits may be required by the WVDOT.

Sediment basins (sumps) and appropriate erosion control barriers are to be constructed at all culvert and cross drain inlets and outlets as required in the WVDEP Oil & Gas Erosion and Sediment Control Field Manual. Field conditions (rock outcrops or bedrock) may prohibit inlet sumps (traps) being installed. When these conditions exist, additional erosion control measures shall be evaluated and employed as needed.

Earthwork contractors are responsible for notification to the operator and Oil & Gas Inspector prior to any deviation from this plan.

All slopes shall be seeded and mulched after site construction is complete. All slopes created during road construction will receive temporary seeding and mulch immediately following completion.

Marketable timber shall be cut and stacked at an accessible location. Stacked or windrowed brush may be used for sediment control.

Applications for separate Public Lands Corporation permits on the access road stream crossings (if any) have been provided where applicable.

LEGEND

- Proposed Road
- Existing Road
- Existing Culvert
- Proposed Culvert (15' Min. unless noted)
- Proposed Stream Crossing
- Cross Drain
- Diversion Ditch
- Silt Fence
- Brush Barrier
- Tree Line
- Road Ditch
- Gas Line
- Fence Line
- Water Well
- House/Structure
- Spring
- Wet Spot

Matchline pg.2

TOPO SECTION OF:
United States Department of the Interior
Geological Survey - Amonate VAWW - 7½ Quadrangle

PROPOSED CULVERT INVENTORY
(For Bid Purposes Only)


















15" (Minimum) Culverts	none proposed
------------------------	---------------

Additional Culverts and/or other drainage structures and sediment control devices may be required by the WVDEP Oil & Gas Inspector. Operator is responsible for coordination with contractor and True Line regarding any changes or additions the State may require.

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LEGEND

- Proposed Road 
- Existing Road 
- Existing Culvert 
- Proposed Culvert (15' Min. unless noted) 
- Proposed Stream Crossing 
- Cross Drain 
- Diversion Ditch 
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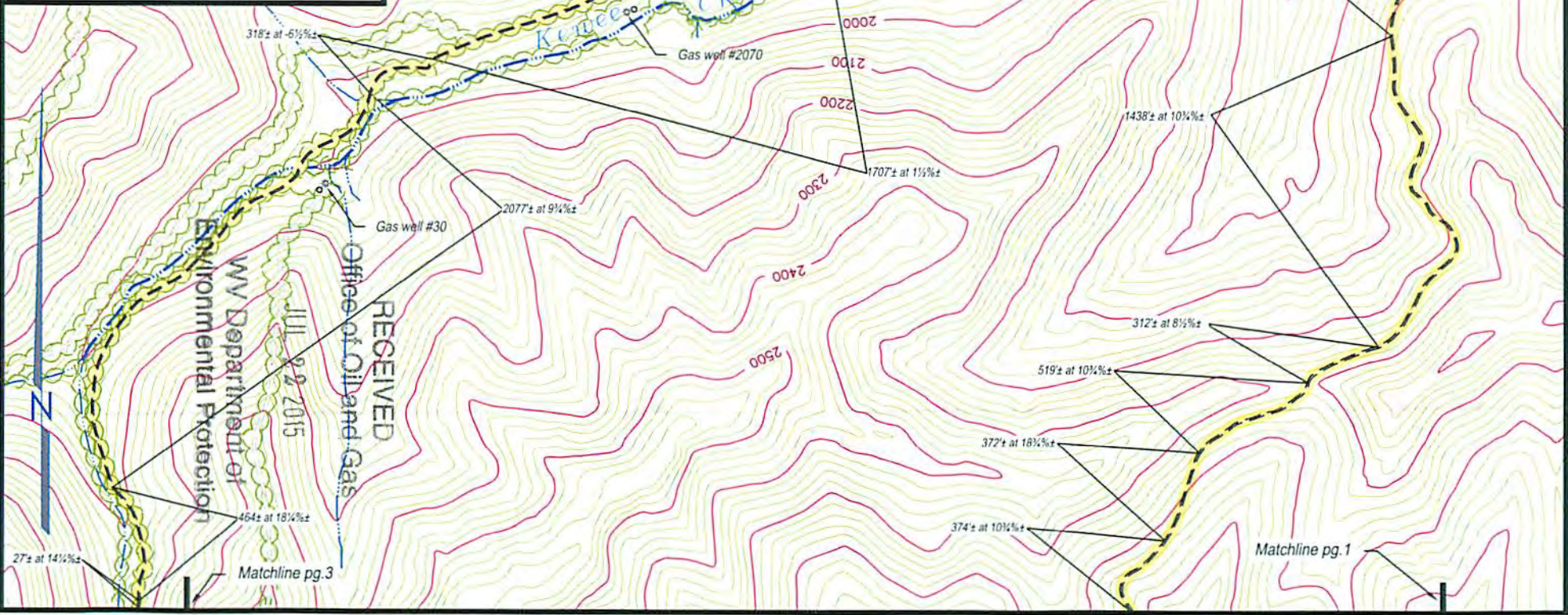
PROPOSED CULVERT INVENTORY
 (For Bid Purposes Only)

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------------------------	---------------

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Cabot Oil & Gas Corporation
Well No. 27



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 Office of Oil and Gas
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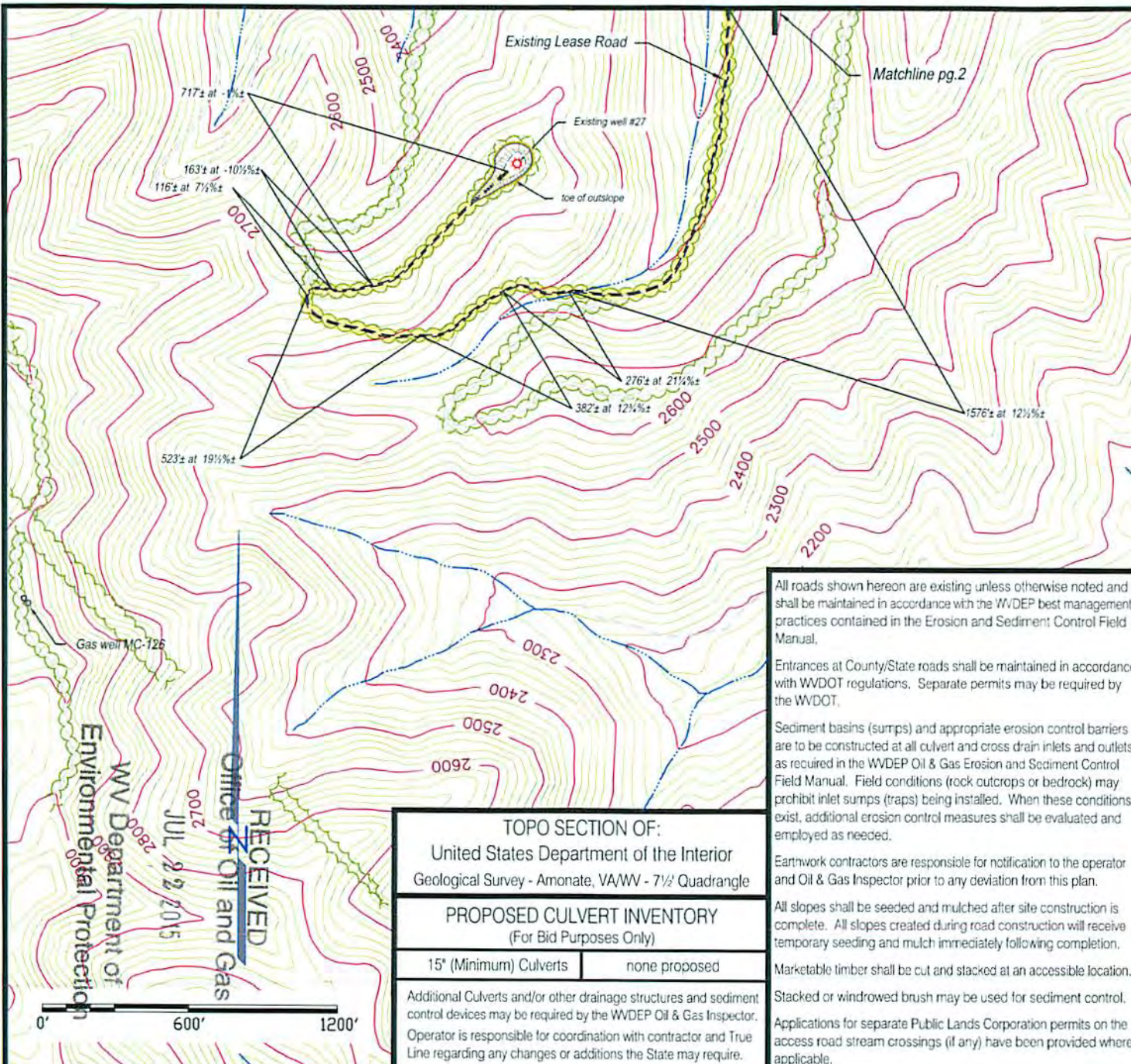
Cabot Oil & Gas Corporation Well No. 27

PROJECTED EARTHEN DISTURBANCE

Well Location Site	0.55 Acres
Access Road	12.28 Acres
Approximate Total Disturbance	12.83 Acres

LEGEND

Proposed Road	
Existing Road	
Existing Culvert	
Proposed Culvert (15' Min. unless noted)	
Proposed Stream Crossing	
Cross Drain	
Diversion Ditch	
Silt Fence	
Brush Barrier	
Tree Line	
Road Ditch	
Gas Line	
Fence Line	
Water Well	
House/Structure	
Spring	
Wet Spot	



All roads shown hereon are existing unless otherwise noted and shall be maintained in accordance with the WVDEP best management practices contained in the Erosion and Sediment Control Field Manual.

Entrances at County/State roads shall be maintained in accordance with WVDOT regulations. Separate permits may be required by the WVDOT.

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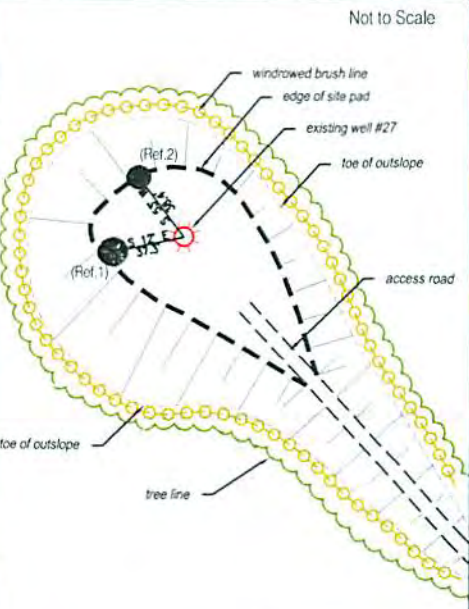
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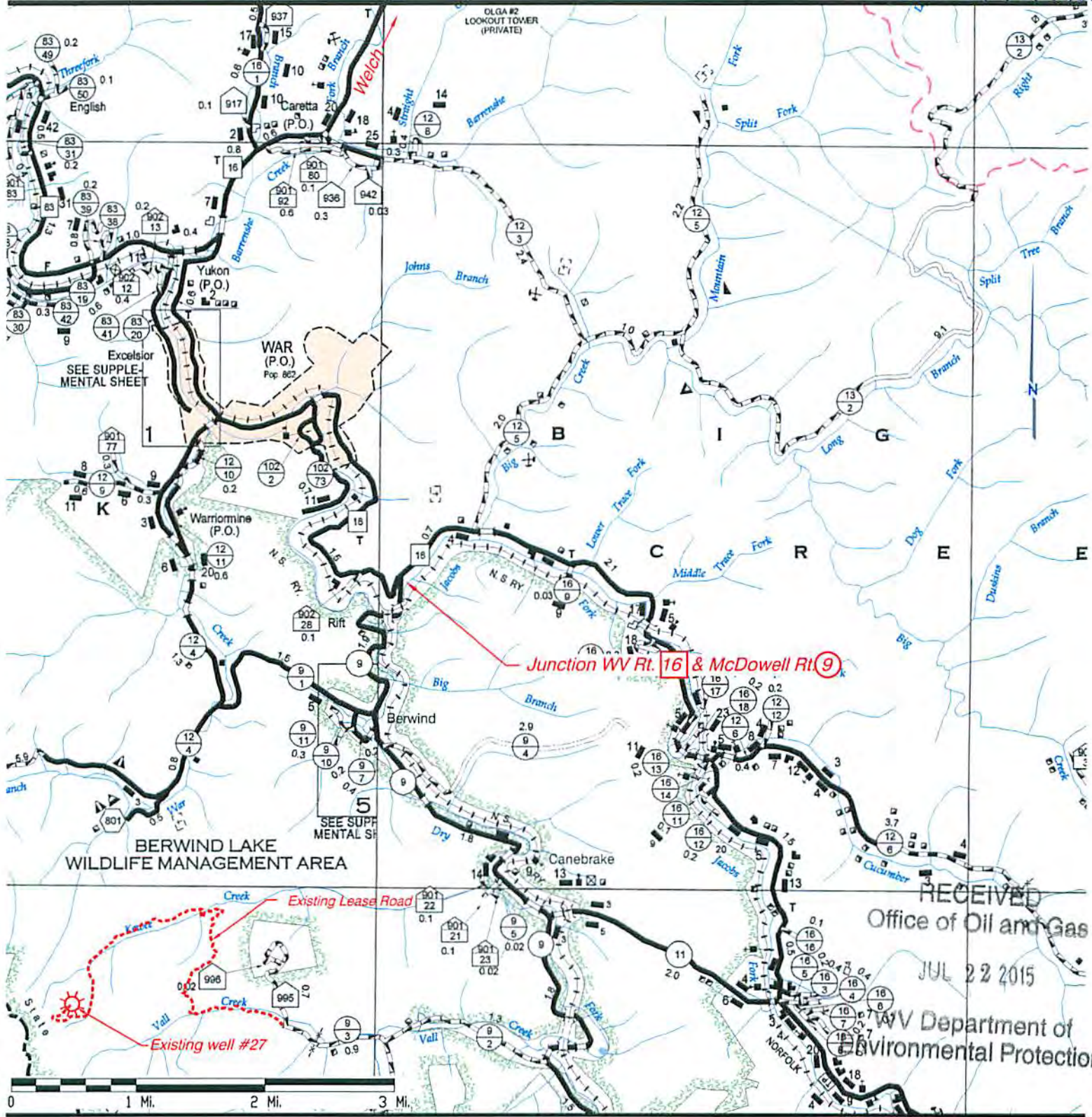
TOPO SECTION OF: United States Department of the Interior Geological Survey - Amonate, VA/WV - 7 1/2 Quadrangle	
PROPOSED CULVERT INVENTORY (For Bid Purposes Only)	
15' (Minimum) Culverts	none proposed
Additional Culverts and/or other drainage structures and sediment control devices may be required by the WVDEP Oil & Gas Inspector. Operator is responsible for coordination with contractor and True Line regarding any changes or additions the State may require.	

Detail Sketch for well #27



4701386P

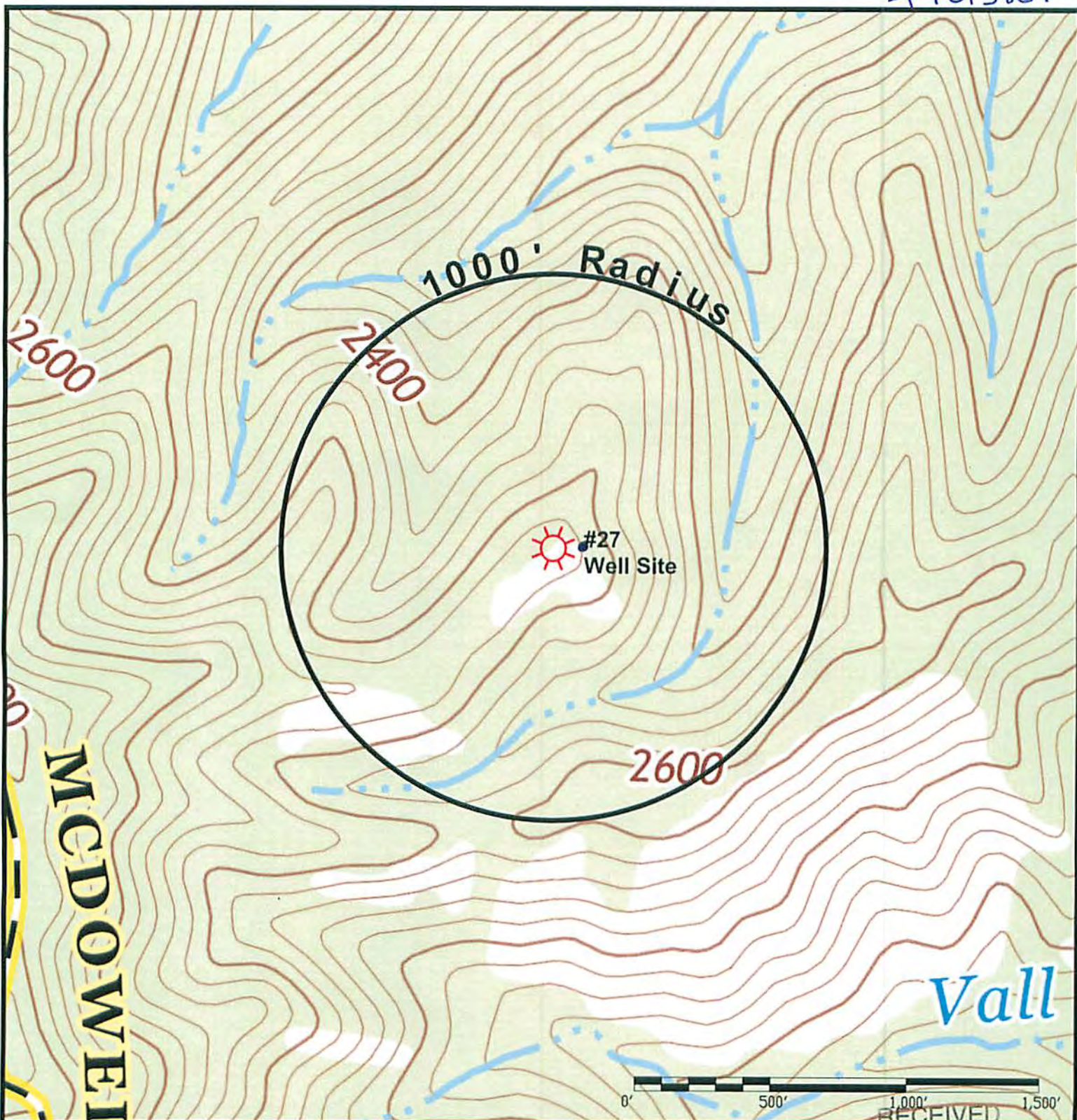
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 Office of Oil and Gas
 WV Department of
 Environmental Protection
 JUL 22 2015
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JUL 22 2015
WV Department of Environmental Protection

Driving Directions:

1. Beginning in Welch at the intersection of US Rt. 52 and WV Route 16, follow Rt. 52 North for 0.9 miles to WV Route 16 South toward War on the left. Make the left turn onto WV Route 16, South and continue 4.7 miles to a 'T' intersection with the Coalwood Road.
2. Turn left at the 'T' intersection (WV Route 16 South) and continue 4.7 miles to a fork at Caretta. Bear right (WV Route 16 South) at the fork toward War. Continue 1.3 miles to the next fork at Yukon.
3. At the next fork, Yukon, bear left (WV Route 16 South) 1.8 miles to War; keep left at the bridge, continue 4.1 miles to the Rift-Berwind Road (McDowell County Rt. 9), a sharp switchback on the right. From the switchback, continue 6 1/4 miles to Valls Creek, WV and McDowell County Rt. 9 (Valls Creek Road) on the right. Proceed 2 1/3 miles up Valls Creek to the end of the county road and start of the lease road.
4. Continue up Valls Creek on the lease road 2/3 miles to a junction; bear right across Keewee Ridge for 1 1/2 miles to Keewee Creek. Turn left up Keewee Creek on the existing lease road for 2 miles to the Berwind Land #27 well site.



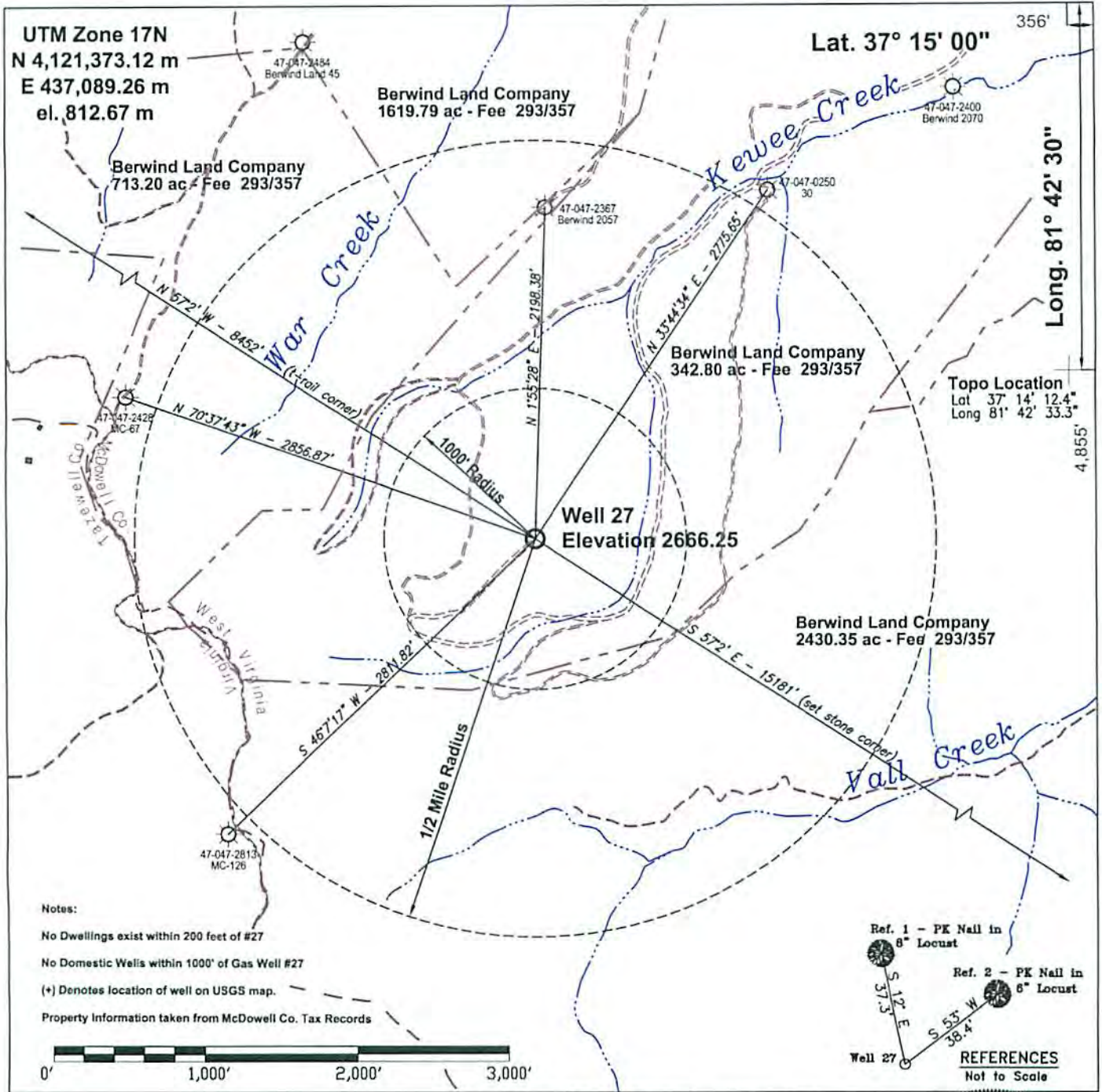
Amonate VA/WV 7½' USGS Quadrangle

Notes:

No water wells or other sources of groundwater currently being used for human consumption, domestic animals or other general uses were identified within 1000' of the proposed well site.

Legend: Office of Oil and Gas

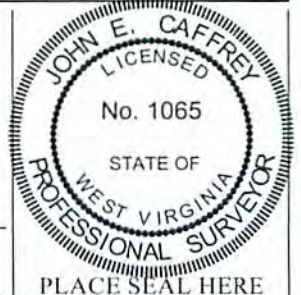
- Water Well JUL 22 2015
- Spring WV Department of
- Wet Spot Environmental Protection
- House/Structure ■



FILE #: \\filestation1\station4d\work\
 DRAWING #: Cabot2014\WW-6_Berwind27.pdf
 SCALE: see bar scale above
 MINIMUM DEGREE OF ACCURACY: 1 part in 2500
 PROVEN SOURCE OF ELEVATION: sub meter GPS location

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.: 1065



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



DATE: July 10, 2014
 OPERATOR'S WELL #: 27
 API WELL #: 47 047 01386 P
 STATE COUNTY PERMIT

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

WATERSHED: Kewee Creek of Dry Fork of Tug Fork of the Big Sandy River ELEVATION: 2666.25

COUNTY/DISTRICT: 047-McDowell / 2-Big Creek QUADRANGLE: 210 - AMONATE

SURFACE OWNER: Berwind Land Company ACREAGE: 342.80
 OIL & GAS ROYALTY OWNER: Berwind Land Company ACREAGE: 24625.33

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: Berea Sandstone ESTIMATED DEPTH: 5530

WELL OPERATOR Cabot Oil & Gas Corporation 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

Office of Oil and Gas
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08/14/2015



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