



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

July 31, 2014

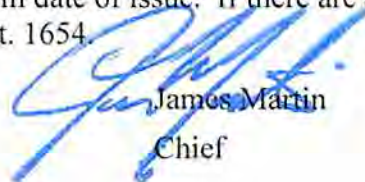
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10902016, 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: A-54
Farm Name: HEARTWOOD FORESTLAND FU
API Well Number: 47-10902016
Permit Type: Plugging
Date Issued: 07/31/2014

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. Must follow attached Variance From Well Plugging Regulations for installation of monument.

WW-4B
Rev. 2/01

- 1) Date May 22; 20
- 2) Operator's
Well No. Gilbert & Plumley A-54
- 3) API Well No. 47-109 - 02016

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 2,102.60 Watershed Righthand Fork of Pad Fork of Little Huff Creek off Guyandotte River
District Huff Creek County Wyoming Quadrangle Baileysville
- 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 Ross Eller Name Shreve's Well Service
Address 121 Brierhill Drive Address 3473 Triplett Road
Beckley, WV 25801 Spencer, WV 25276

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

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JUL 30 2014

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 7/30/14

GILBERT & PLUMLEY A-54

API # 47 - 109 - 02016

PLUGGING PROCEDURE

Current Configuration

DTD @ 4627'

16 conductor @ 26' KB, NOT cemented

9 ⁵/₈" - 32.3# LS casing @ 846' KB, cemented & grouted to surface

7" - 20# LS casing @ 1991' KB, cemented to surface

4 ¹/₂" - 10.5# - J-55 casing @ 4613' KB w/ TOC @ 2550'

Berea perforations: 4471' - 4474', 4502' - 4512', & 4520' - 4532'

CIBP @ 4450'

Big Lime formation: 3460' - 3826' (not perforated)

Maxton perforations: 2937' - 2947' & 2950' - 2960'

Princeton formation: 2324' - 2360' (not perforated)

Coal @ 162' - 163', 275' - 279', 415' - 417', 545' - 546', 605' - 607', 682' - 686', 738' - 740',

769' - 772', 930' - 932', 993' - 994', 1200' - 1202', 1255' - 1256', 1299' - 1301',

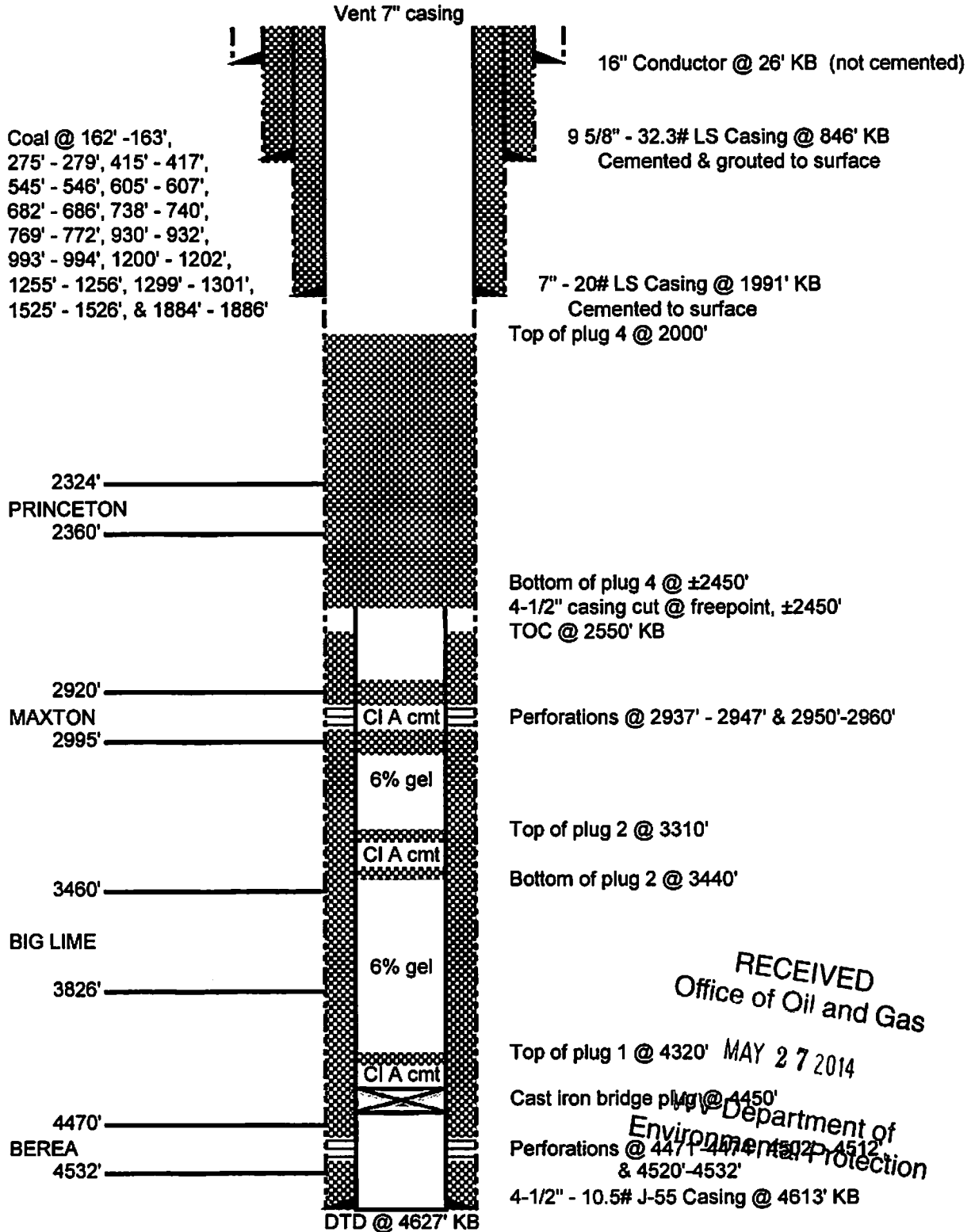
1525' - 1526', & 1884' - 1886'

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. 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 2³/₈" work string to CIBP @ 4450'.
7. MIRU Cementing Company.
8. Pump 5 barrels of 6% Gel.
9. Pump 10 sacks of Class A cement for Cement Plug 1 from 4450' to 4320'.
10. Displace with 16 ¹/₂ bbls of 6% Gel.
11. Pull work string up to 3440' and pump 10 sks of Class A cement for plug 2 from 3440' to 3310'.
12. Displace with 12 ¹/₂ bbls of 6% Gel.
13. Pull work string up to 2970' and pump 20 sks of Class A cement for plug 3 from 2970' to 2710'.
14. Displace with 10 ¹/₂ bbls of water.
15. POOH with work string and let cement plug set for a minimum of eight hours.
16. Run freepoint and cut 4 ¹/₂" casing where free. Estimate ±2450'. Pick up casing 1 jt and pump 105 cubic feet of expanding cement (88 sacks Class A cement with 10% salt added) for cement plug 4 from 2450' to 2000'.
17. Displace with 32 bbls of water.
18. TOOH with casing and lay down.
19. RDMO cement company.
20. Swab 7" casing to 1990' and leave as a vent string.
21. Install a vent on top of 7" casing to prevent liquids and solids from entering wellbore.
22. Erect Monument according to Law.
23. RDMO.

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Environmental Protection

Gilbert & Plumley A-54
 API 47-109-02016
 PROPOSED CONFIGURATION



Coal @ 162' -163',
 275' - 279', 415' - 417',
 545' - 546', 605' - 607',
 682' - 686', 738' - 740',
 769' - 772', 930' - 932',
 993' - 994', 1200' - 1202',
 1255' - 1256', 1299' - 1301',
 1525' - 1526', & 1884' - 1886'

16" Conductor @ 26' KB (not cemented)

9 5/8" - 32.3# LS Casing @ 846' KB
 Cemented & grouted to surface

7" - 20# LS Casing @ 1991' KB
 Cemented to surface
 Top of plug 4 @ 2000'

2324'
 PRINCETON
 2360'

Bottom of plug 4 @ ±2450'
 4-1/2" casing cut @ freepoint, ±2450'
 TOC @ 2550' KB

2920'
 MAXTON
 2995'

Perforations @ 2937' - 2947' & 2950'-2960'

Top of plug 2 @ 3310'

3460'
 BIG LIME

Bottom of plug 2 @ 3440'

3826'

Top of plug 1 @ 4320'

4470'
 BEREA
 4532'

Cast iron bridge plug @ 4450'
 Perforations @ 4471'-4474'-4512'
 & 4520'-4532'

4-1/2" - 10.5# J-55 Casing @ 4613' KB

DTD @ 4627' KB

Schematic is not to scale

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MAY 27 2014

Department of
 Environmental Protection

T. Ott 02/26/14

WR-35

Date: August 2, 2001
 API # 47-109-020 # 6

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

KPB

Farm name: North American Timber Co. Operator Well No.: Gilbert & Plumley A-54

LOCATION: Elevation: 2100' Quadrangle: Baileysville
 District: Huff Creek County: Wyoming
 Latitude: 8,100' Feet South of 37° DEG. 32' MIN. 30" SEC.
 Longitude: 7,600 Feet West of 81° DEG. 42' MIN. 30" SEC.

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

Agent: John Abshire
 Inspector: Ofie Helmick
 Permit Issued: 3/19/01
 Well Work Commenced: 4/28/01
 Well Work Completed: 5/31/01
 Verbal Plugging _____
 Permission granted on: _____
 Rotary X Cable _____
 Total Depth (feet) 4633'
 Fresh Water Depths (ft) _____
 Salt Water Depths (ft) _____
 Is coal being mined in area (Y/N)? _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
16"		20'	
9 5/8"		840'	300 sks
7"		1985'	300 sks
4 1/2"		4607'	160 sks
SET CIBP @ 4450' OVER BEREA			
2 3/8"		2954'	

Coal Depths (ft) 162'-163', 275'-279', 415'-417', 545'-546', 605'-607', 682'-686', 738'-740', 769'-772', 930'-932', 993'-994', 1200'-1202', 1255'-1256', 1299'-1301', 1525'-1526', 1884'-1886'

OPEN FLOW DATA

Producing formation BEREA Pay zone depth (ft) 4471' - 4474'
4502' - 4212'
4520' - 4532'
 Gas: Initial open flow TSTM MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 0 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock pressure N/A psig (surface pressure after N/A Hours

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 AUG 22 2001
 WV Department of Environmental Protection

Second producing formation MAXTON Pay zone depth (ft) 2937' - 2947'
2950' - 2960'
 Gas: Initial open flow TSTM MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 21 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure 75 psig (surface pressure after _____ Hours

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08/01/2014

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] Operations Manager

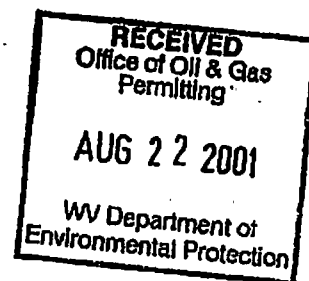
WYO-2016

Perforated Berea at 4520'-4532', 25H; 4502'-4512', 21H; 4471'-4474', 7H. Perform 75 Q Foam Frac using 480,500SCF N2 at 9240scf/min. 81,400# of 20/40 sand, BD 980# ISIP after BD 50# ATP 1641# at 20BM/foam MTP 1904# ISIP 1625# 5-Min 1511# 10-Min 1474# Total fluid 252 bbls clean. Ramped sand concentrations to 16ppa. Set CIBP @ 4450' plugging off the Berea.

Perforate Maxton formation. 2950'-2960', 2937'-2947' using 3 1/8" HSC 2SPF 40 shots. Perform 75 Q Foam Frac using 250 gal of 15% HCL acid, 60,700# 20/40 sand, 553,600SCF of N2 at 11,200scf/min. BD 1936# ISIP after BD 1543# ATP 1770# at 20BM/foam MTP 2289# ISIP 1705# 5-Min 1598# 10 min 1561# Total fluid 238 bbls clean. Ramp sand concentration to 12 ppa.

Set solid cast iron bridge plug at 4450'.

FORMATION	TOP	BOTTOM	REMARKS
SILT/SHALE	0	1055	
SANDSTONE	1055	1120	
SHALE	1120	1168	
SANDSTONE	1168	1295	
SHALE	1295	1400	
SILT/SHALE	1400	1622	
SANDSTONE	1622	2080	
SILT/SHALE	2080	2324	
PRINCETON	2324	2360	
SHALE	2360	2380	
RV	2380	2466	
SHALE	2466	2480	
AVIS	2480	2525	
SILT/SHALE	2525	2920	
MAXTON	2920	2995	
SILT/SHALE	2995	3280	
LITTLE LIME	3280	3460	
BIG LIME	3460	3826	
POCONO	3826	4120	
SHALE	4120	4470	
BEREA	4470	4532	
SHALE	4532	4633	



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WV Department of Environmental Protection
08/07/2014

WW-4A
Revised 6-07

1) Date: May 22, 2014
2) Operator's Well Number
Gilbert & Plumley A-54
3) API Well No.: 47 - 109 - 02016

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>Heartwood Forestland Fund IV LP</u>	Name <u>See Attached Sheet</u>
Address <u>19045 Stone Mountain Rd.</u> ✓	Address _____
<u>Abingdon, VA 24210</u>	_____
(b) Name <u>Augustine Wimmer</u> ✓	(b) Coal Owner(s) with Declaration
Address <u>HC 68 Box 261</u>	Name <u>Lasher LLC c/o Carl Geupel</u> ✓
<u>laeger, WV 24844</u>	Address <u>Four Crescent Street</u> ✓
	<u>Northampton, MA 01060</u>
(c) Name <u>Teddy E. & Rachel Katherine Morgan</u>	Name _____
Address <u>HC 68 Box 262</u> ✓	Address _____
<u>laeger, WV 24844</u>	_____
6) Inspector <u>Ross Eller</u>	(c) Coal Lessee with Declaration
Address <u>121 Brierhill Drive</u> ✓	Name <u>Riverside Energy Company, LLC</u> ✓
<u>Beckley, WV 25801</u>	Address <u>208 Business Street</u>
Telephone <u>(304) 9316844</u>	<u>Beckley, WV 25801</u>

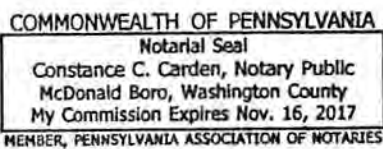
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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.

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Office of Oil and Gas



Well Operator Cabot Oil & Gas Corporation
 By: Kenneth L. Marcum *[Signature]*
 Its: Regulatory Supervisor
 Address Five Penn Center West, Suite 401 WV Department of
Pittsburgh, PA 15276 Environmental Protection
 Telephone (4412) 249-3850

Subscribed and sworn before me this 22nd day of May, 2014
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.

Coal Operator
Gilbert & Plumley A-54
47-109-02016

Cobalt Coal Corp Mining, Inc.
P.O. Box 191 ✓
Premier, WV 24878

Rock "N" Roll Coal Co., Inc. ✓
4641 Greenbrier Mt. Rd.
Panther, WV 24874

Pinnacle Mining Co., LLC ✓
P.O. Box 338
Pineville, WV 24874

Selwyn Coal Corporation
P.O. Box 293 ✓
Ikes Fork, WV 24845

Blue Ridge Mining, LLC ✓
P.O. Box 214
laeger, WV 24844

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WV Department of
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10202016P

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Lasher LLC c/o Carl Geupel
 Four Crescent Street
 Northampton, MA 01060

PS Form 3800

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 P.O. Box 191
 Premier, WV 24878

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Pinnacle Mining Co., LLC
 P.O. Box 338
 Pineville, WV 24874

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Riverside Energy Company, LLC
 208 Business Street
 Beckley, WV 25801

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Ross Eller
 121 Brierhill Drive
 Beckley, WV 25801

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Heartwood Forestland Fund IV LP
 19045 Stone Mountain Rd.
 Abingdon, VA 24210

PS Form 3800

Office of Oil and Gas
 WV Department of Environmental Protection
 08/01/2014

10902016P

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 Panther, WV 24874

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Sent To: **Augustine Wimmer**
 HC 68 Box 261
 laeger, WV 24844

PS Form 3800

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 P.O. Box 214
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 Ikes Fork, WV 24845

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Sent To: **Teddy E. & Rachel Katherine Morgan**
 Environmental Protection
 HC 68 Box 262
 laeger, WV 24844

PS Form 3800

08/01/2014

SURFACE OWNER WAIVER

Operator's Well
Number

Gilbert & Plumley A-54

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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Office of Oil and Gas
MAY 27 2014

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.
FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

WV Department of
Environmental Protection

_____	Date _____	Name _____	_____
Signature		By	_____
		Its	_____
			Date _____
		Signature	Date _____

08/01/2014

10902016P

WW-4B

API No.	<u>47-109-02016</u>
Farm Name	<u>Gilbert & Plumley</u>
Well No.	<u>A-54</u>

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____/ owner ____/ lessee ____/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

By: _____

Its _____

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WV Department of
Environmental Protection

08/01/2014

10902016P

WW-9
Rev. 5/10

Page 1 of _____
API Number 47 - 109 - 02016
Operator's Well No. Gilbert & Plumley A-54

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 08145

Watershed 050701010501 - UT of Right Fork of Pad Fork Quadrangle Baileysville WV USCG 7-1/2' Series

Elevation 2102.30 County Wyoming District Huff 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 X

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 no treated pit wastes will be produced)

ANY WELL EFFLUENT MUST
BE CONTAINED IN TANKS
AND DISPOSED OF PROPERLY. g/w/m

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. no drilling proposed

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

Additives to be used? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. No cuttings produced during plugging operation

-If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust _____

-Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Kenneth L. Marcum

Company Official (Typed Name) Kenneth L. Marcum

Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 22nd day of May, 2014

Constance C. Carden
Notary Public

My commission expires November 16, 2014

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Office of Oil and Gas

MAY 27 2014
WV Department of
Environmental Protection

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires Nov. 16, 2014
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Form WW-9

Operator's Well No. Gilbert & Plumley A-54

Cabot Oil & Gas Corporation

Proposed Revegetation Treatment: Acres Disturbed 8.89 Prevegetation pH 6.9

Lime 2 Tons/acre or to correct to pH 7.0

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)


Mulch pulp fiber at 1/2 to 3/4 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

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:

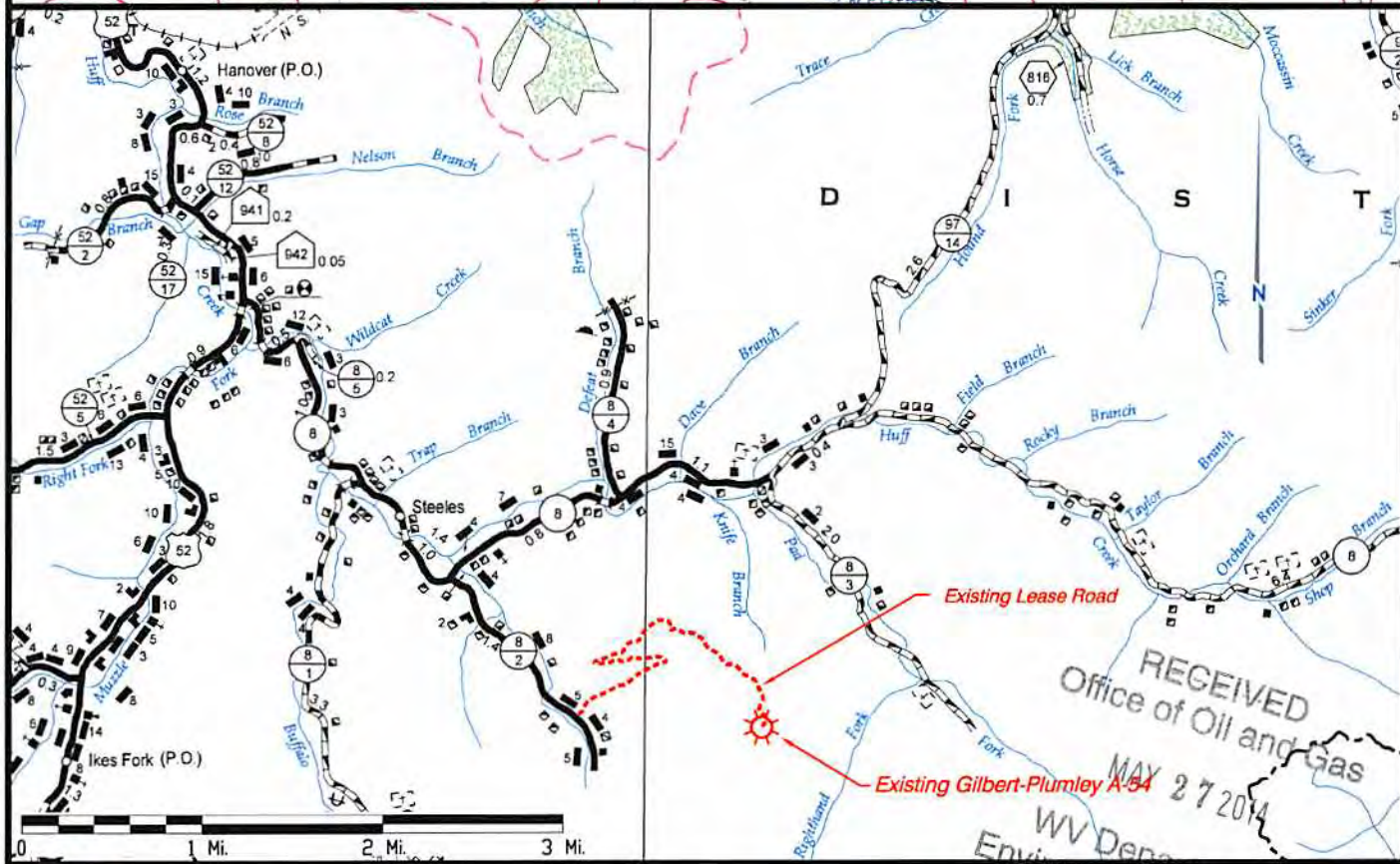
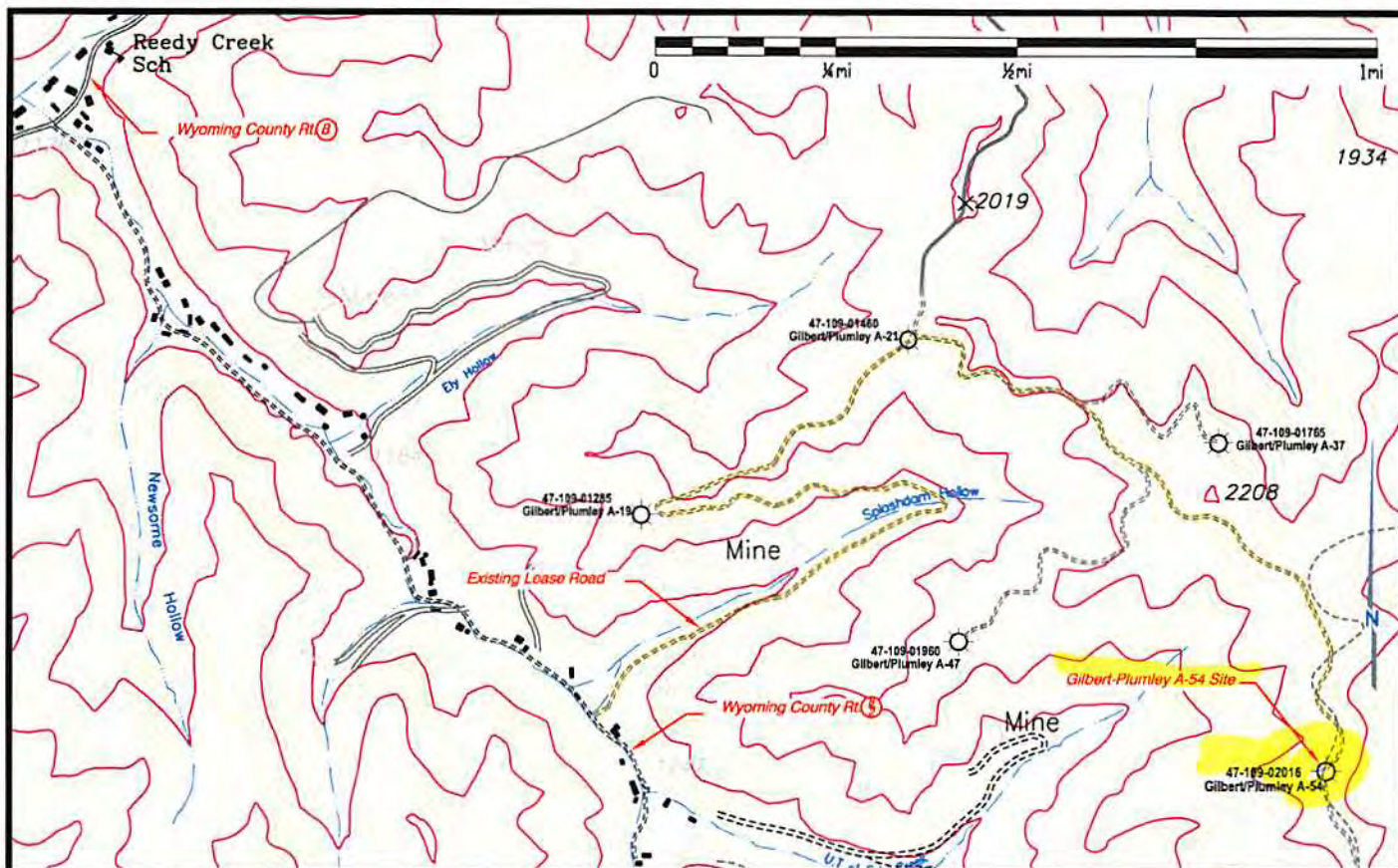
RECEIVED
Office of Oil and Gas


JUL 30 2014

WV Department of
Environmental Protection

Title: WIDEOR Oil Gas Tract - Date: 7/30/14

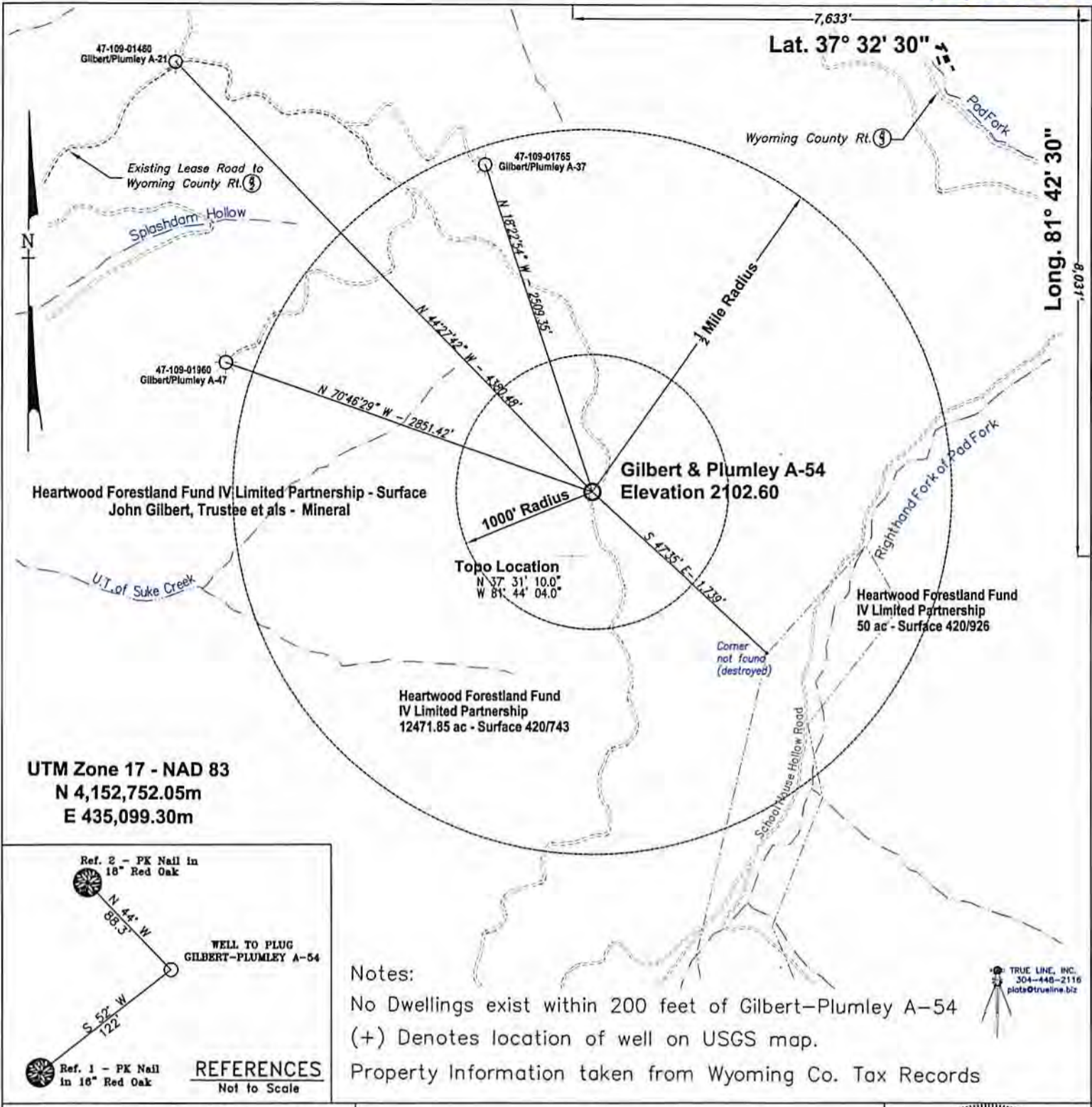
Field Reviewed? Yes No



 Cabot Oil & Gas Corporation

Gilbert-Plumley A-54 Location Map, May 20, 2013
 Located near Hanover in Huff Creek District of Wyoming County, WV

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 Office of Oil and Gas
 MAY 27 2014
 WV Department of
 Environmental Protection



FILE No. CABOT OIL AND GAS 2014
 DIRECTORY C:\CABOT2014\Gilbert&Plumley_A-54
 DRAWING NAME Plot_A54.dwg
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 2500
 PROVEN SOURCE OF ELEVATION GPS GLOBAL POSITIONING SYSTEM (Sub meter accuracy)

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 MINES.

(SIGNED) _____ R.P.E. _____ R.P.S. 1065



STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
CHARLESTON, WV

DATE MAY 20, 2013
 OPERATOR'S WELL No. A-54

API WELL No. 47 - STATE 109 - COUNTY 02016P PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 2102.60 WATER SHED RIGHTHAND FORK OF PAD FORK of LITTLE HUFF CREEK off GUYANDOTTE RIVER
 DISTRICT HUFF CREEK COUNTY WYOMING
 QUADRANGLE BAILEYSVILLE, WV 7-1/2' SERIES

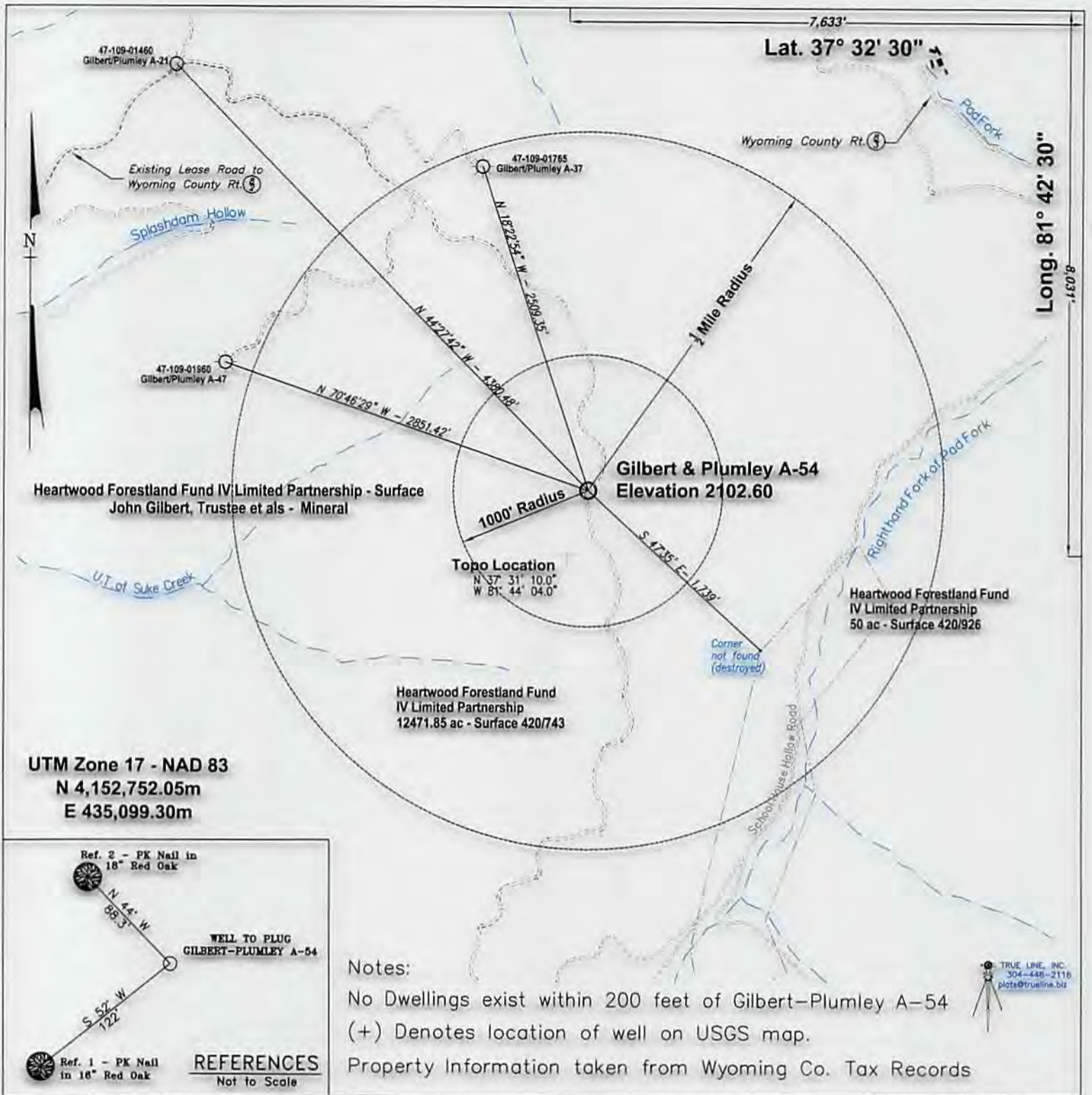
SURFACE OWNER HEARTWOOD FORESTLAND FUND IV LTD. PARTNERSHIP ACREAGE 12,741.85 (Tax Parcel 55-5-119-1)
 ROYALTY OWNER JOHN GILBERT, TRUSTEE et al LEASE ACREAGE 20,624± 08/01/2014

LEASE No. 47-0470

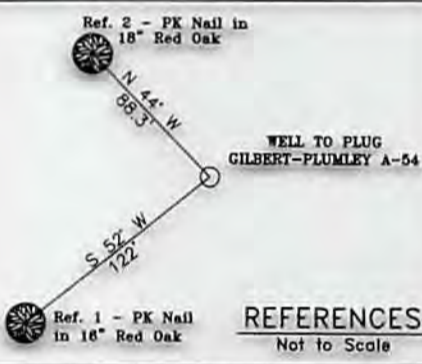
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON X CLEAN OUT AND REPLUG

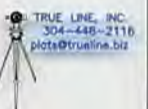
TARGET FORMATION MAXTON/BEREA SS ESTIMATED DEPTH 4633
 WELL OPERATOR CABOT OIL & GAS CORP. DESIGNATED AGENT BRYAN HALL
 ADDRESS FIVE PENN CENTER WEST, SUITE 401 ADDRESS PO BOX 260
PITTSBURGH, PA 15276 DANVILLE, WV 25053



UTM Zone 17 - NAD 83
 N 4,152,752.05m
 E 435,099.30m



Notes:
 No Dwellings exist within 200 feet of Gilbert-Plumley A-54
 (+) Denotes location of well on USGS map.
 Property Information taken from Wyoming Co. Tax Records



FILE No. CABOT OIL AND GAS 2014
 DIRECTORY C:\CABOT2014\Gilbert&Plumley A-54
 DRAWING NAME Plot_A54.dwg
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 2500
 PROVEN SOURCE OF ELEVATION GPS GLOBAL POSITIONING SYSTEM (Sub meter accuracy)

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 MINES.
 (SIGNED) [Signature]
 R.P.E. _____ R.P.S. 1065

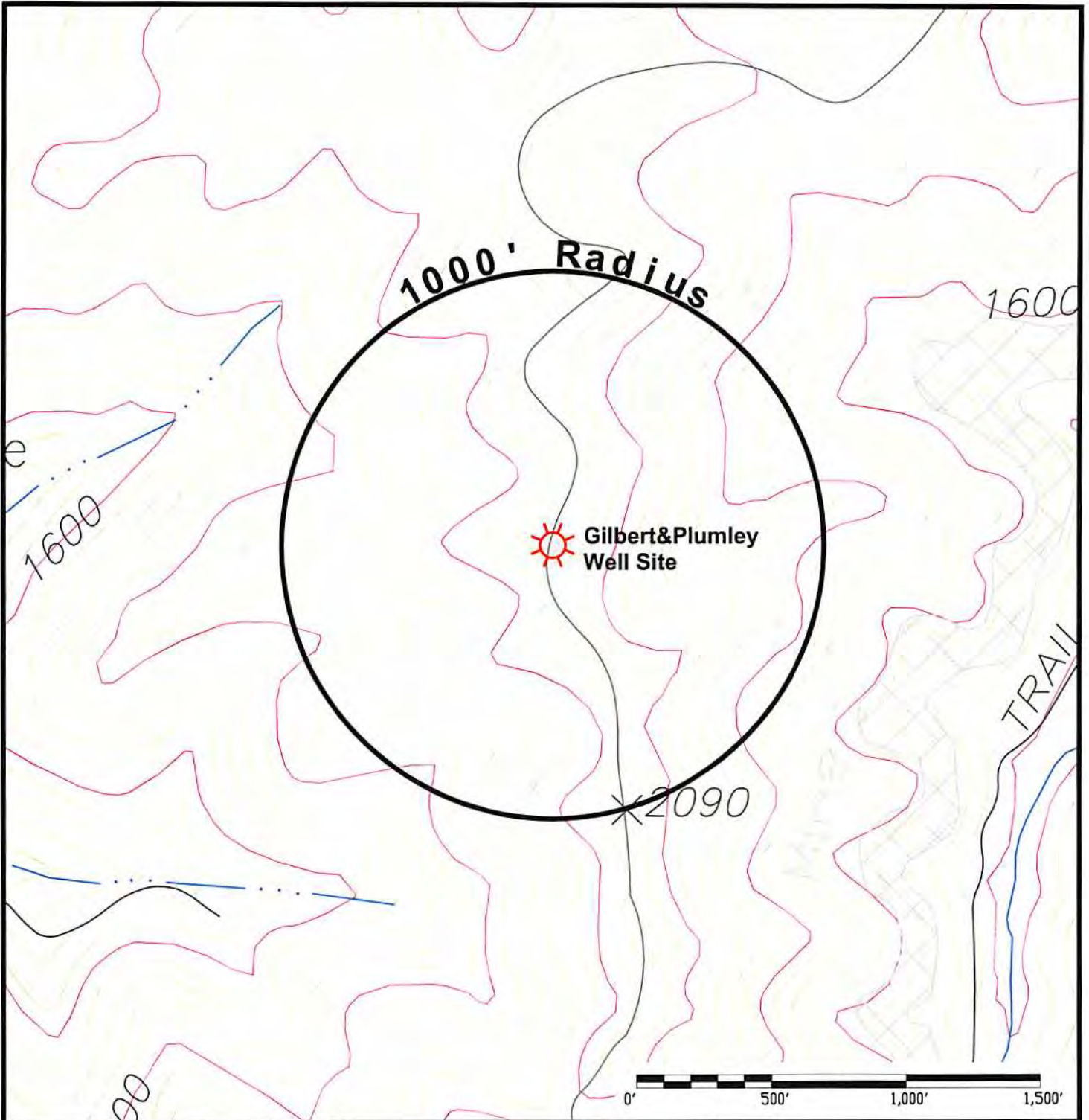


STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 CHARLESTON, WV



DATE MAY 20, 2013
 OPERATOR'S WELL No. A-54
47 - 109 - 02016
 API WELL No. STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2102.60 WATER SHED RIGHTHAND FORK OF PAD FORK of LITTLE HUFF CREEK off GUYANDOTTE RIVER
 DISTRICT HUFF CREEK COUNTY WYOMING
 QUADRANGLE BAILEYSVILLE, WV 7-1/2' SERIES
 SURFACE OWNER HEARTWOOD FORESTLAND FUND IV LTD. PARTNERSHIP ACREAGE 12,741.85 (Tax Parcel 55-5-119-1)
 ROYALTY OWNER JOHN GILBERT, TRUSTEE et al LEASE ACREAGE 20,624± 08/01/2014
 LEASE No. 47-0470
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG _____
 TARGET FORMATION MAXTON/BEREA SS ESTIMATED DEPTH 4633
 WELL OPERATOR CABOT OIL & GAS CORP. DESIGNATED AGENT BRYAN HALL
 ADDRESS FIVE PENN CENTER WEST, SUITE 401 ADDRESS PO BOX 260
PITTSBURGH, PA 15276 DANVILLE, WV 25053







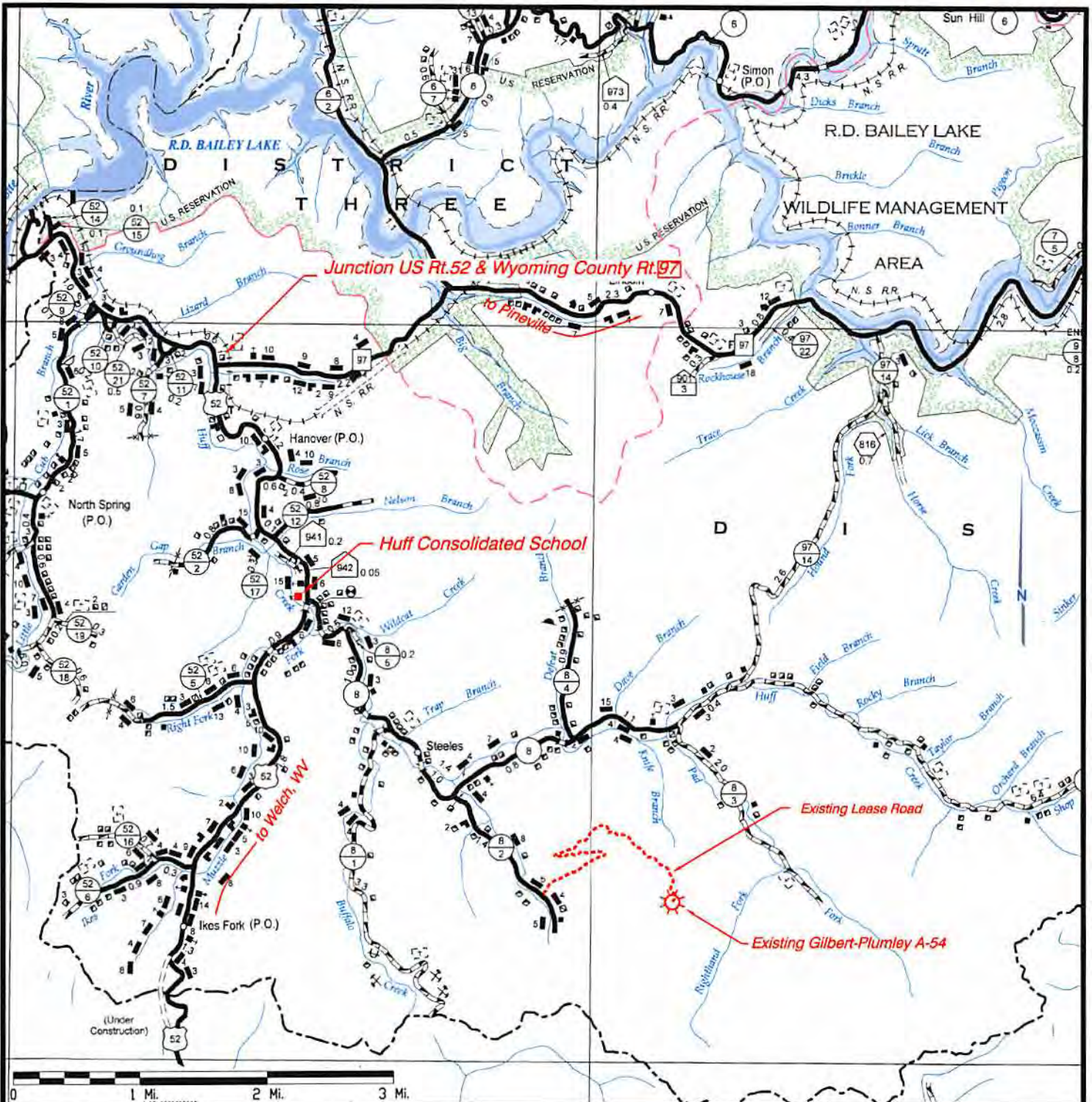
Baileysville, WV 7 1/2' Quadrangle

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:

- Water Well 
- Spring 
- Wet Spot 
- House/Structure 



Driving Directions:

1. Beginning at the Huff Consolidated School near Hanover on US 52 South, take Wyoming County Rt. 8 (Steeles) opposite the school.
2. Proceed up Little Huff Creek on Wyoming Rt. 8 a distance of 2.3± miles to the intersection with Wyoming Rt. 97 on the right. Turn right up Suke Creek (Wyoming Rt. 97) for 1.2± mile to Splashdam Hollow Road on the left. Leave the county road and turn up Splashdam Hollow.
3. Take the existing lease road up Splashdam Hollow for about 1½ miles to a gas well (G&P A-21) on the left at a fork. Bear right at the fork. Continue on the lease road 0.3± miles to a fork, bear right. Proceed another 0.1± miles and bear right at the fork. Keep to the ridge on the existing lease road.
4. The Gilbert & Plumley well A-54 will be 0.6± miles further on the left side of the lease road.



Gilbert & Plumley A-54
 Located near Nanover in Huff Creek District of Wyoming County, West Virginia.

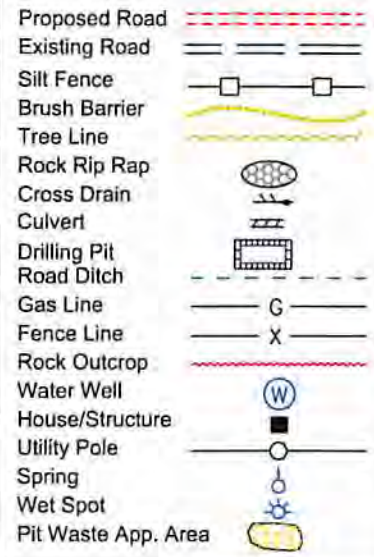
WV Department of Environmental Protection
 May 20, 2013
 Driving Directions
 West Virginia

08/01/2014

GENERAL NOTES:

- 1.) THESE DRAWINGS ARE 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 UNFORSEEN CIRCUMSTANCES, THE AS-BUILT LOCATION OF THESE STRUCTURES MAY VARY SLIGHTLY FROM THE LOCATION SHOWN ON THE ATTACHED DRAWINGS.
- 2.) ALL ROADS SHOWN THEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES AND REQUIREMENTS OF THE WV DEP OIL & GAS EROSION AND SEDIMENT CONTROL MANUAL.
- 3.) ALL CULVERTS SHOWN ON THESE DRAWINGS ARE PROPOSED AND WILL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE NOTED.
- 4.) DITCHLINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL; HOWEVER, PORTIONS OF THE EXISTING ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.
- 5.) SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL STRUCTURES/MEASURES IN ADDITION TO THOSE SHOWN ON THE ATTACHED DRAWINGS WILL BE INSTALLED WHERE AND WHEN DEEMED NECESSARY. SUCH ADDITIONAL MEASURES MAY CONSIST OF SILT FENCES OR OTHER MEASURES AS OUTLINED IN THE EROSION AND SEDIMENT CONTROL MANUAL.
- 6.) SEDIMENT BASINS (TRAPS) WILL BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAIN INLETS AS REQUIRED IN THE WV-DEP OIL & 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.
- 7.) SEDIMENT BARRIERS OF EITHER WINDROWED BRUSH, FILTER FENCE ET CETERA WILL BE INSTALLED AND MAINTAINED BELOW THE OUTFALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DISCHARGE POINTS FROM EITHER THE ROADWAY OR SITE LOCATIONS.
- 8.) ALL NECESSARY TIMBER AND BRUSH WILL BE REMOVED FROM THE PROPOSED ROADWAY AND SITE LOCATIONS BY CLEARING AND GRUBBING ACTIVITIES. ANY MARKETABLE TIMBER WILL BE CUT AND STACKED TO THE SIDE OF THE ROADWAY OR REMOVED TO A STOCKPILE AREA. THE REMAINING TIMBER AND BRUSH WILL BE CUT AND WINDROWED BELOW THE OUTSLOPE OF THE CONSTRUCTION AREAS, TO BE UTILIZED AS A SEDIMENT BARRIER.
- 9.) SEPARATE PERMITS WILL BE OBTAINED FROM THE WV-DOT FOR ALL POINTS OF INGRESS-EGRESS FROM COUNTY/STATE ROADS. THESE INGRESS-EGRESS POINTS WILL BE MAINTAINED IN ACCORDANCE WITH CURRENT WV-DOT REGULATIONS. A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" OF CRUSHED STONE WILL BE CONSTRUCTED FOR A MINIMUM DISTANCE OF 50' FROM THE INGRESS-EGRESS POINTS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH CURRENT WV-DOT REGULATIONS.
- 10.) ALL CULVERTS SHOWN ON THESE DRAWINGS ARE TO BE CONSIDERED PERMANENT AND WILL REMAIN IN PLACE AFTER THE COMPLETION OF CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE. A STABILIZED OUTLET CONTROL DEVICE SUCH AS RIPRAP, NATURAL STONE, BRUSH, ETC. WILL BE INSTALLED BELOW THE OUTFALL OF ANY ROADWAY CULVERT(S) WHICH ARE NOT LOCATED IN A STREAM CHANNEL OR CREEK.
- 11.) PERMANENT CROSS DRAINS OR WATERBARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH THE AS-BUILT ROADWAY GRADES AND TABLE II-4 OF THE SEDIMENT AND EROSION CONTROL FIELD MANUAL.
- 12.) TEMPORARY SEEDING AND MULCHING WILL BE UTILIZED TO PROVIDE A VEGETATIVE COVER ON ALL DISTURBED AREAS I.E. ROADWAYS, STIE LOCATIONS, ROAD OR SITE OUTSLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES RESULTING FROM THE PROPOSED WELL.
- 13.) THE LOCATION OF DRILLING PIT(S) MAY BE ADJUSTED TO MINIMIZE ENVIRONMENTAL IMPACTS AND MEET THE REQUIREMENTS OF THE WV-DEP.

DRAWING LEGEND



SPACING OF CULVERTS BY GRADE

ROAD GRADE (%)	DISTANCE
2-5	500-300
6-10	300-200
11-15	200-100
16-20	100

SPACING OF CROSS DRAINS BY GRADE

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

CONTRACTOR NOTE:

IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE SIZE/CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR EXCAVATION ACTIVITIES

WEST VIRGINIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS NOTICE IN DESIGN STAGE.
 RECEIVED
 Office of Oil and Gas
 CALL 1-800-245-4838

MAY 27 2014

Cabot Oil & Gas Corporation Well No. Gilbert-Plumley A-54

TOPO SECTION OF:
United States Department of the Interior
Geological Survey - Gilbert & Baileysville - 7 1/2' Quadrangles

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.

PROJECTED EARTHEN DISTURBANCE

Well Location Site	0.95 Acres
Access Road	8.94 Acres
Approximate Total Disturbance	9.89 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.

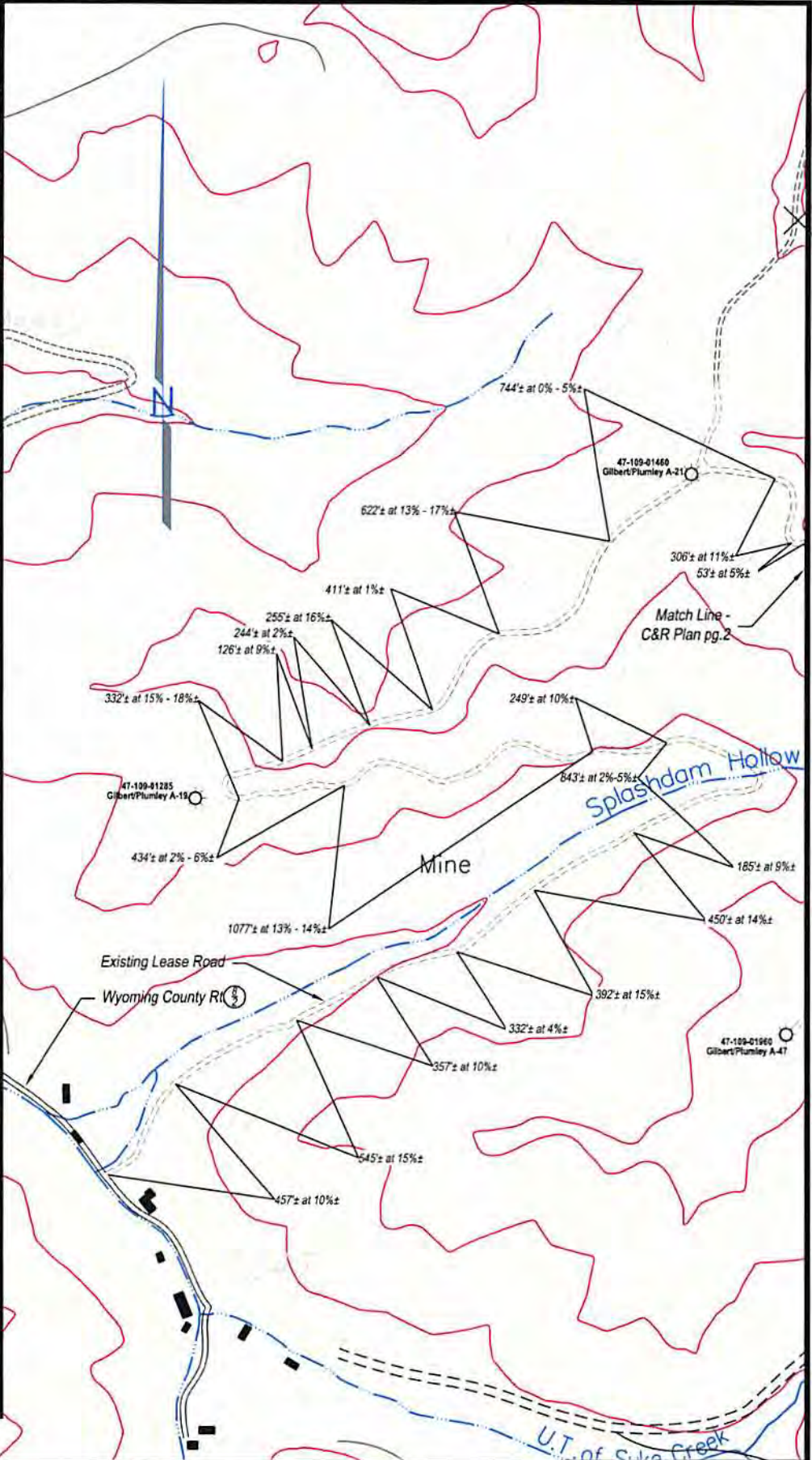
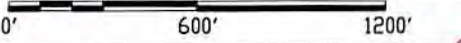
Marketable timber shall be cut and stacked at an accessible location.

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 



Cabot Oil & Gas Corporation Well No. Gilbert-Plumley A-54

TOPO SECTION OF:
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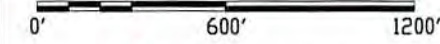
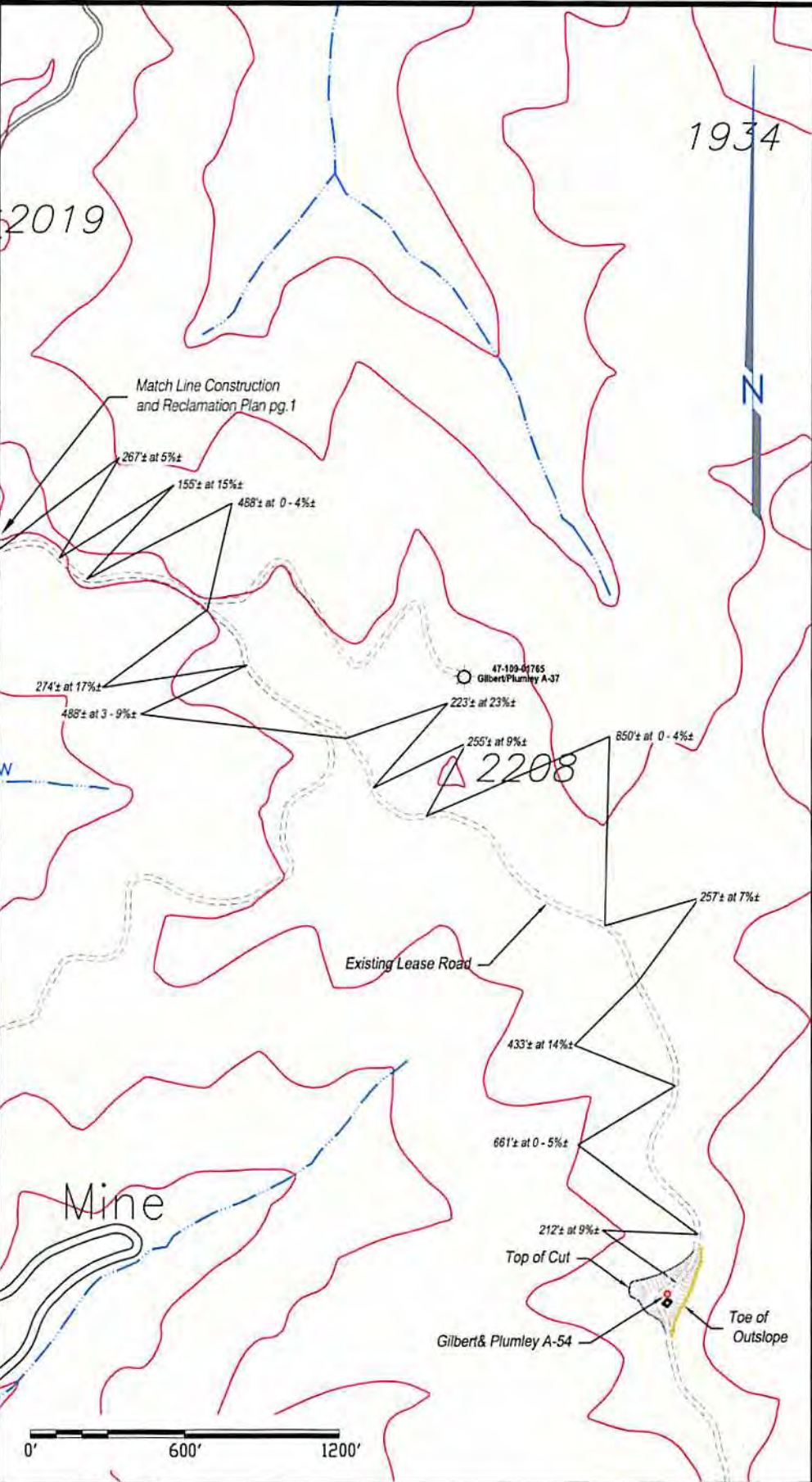
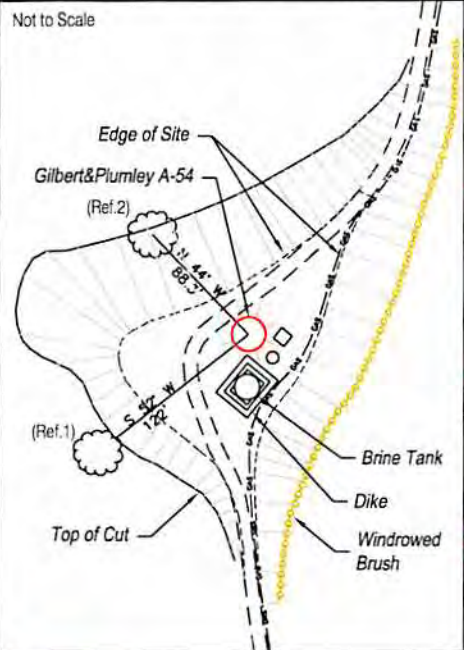
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Detail Sketch for well Gilbert-Plumley A-54



08/01/2014