



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 28, 2014

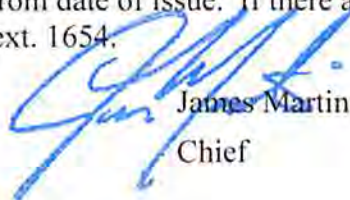
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10901765, 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: G & PLUMLEY A-37
Farm Name: GEORGIA PACIFIC CORP.
API Well Number: 47-10901765
Permit Type: Plugging
Date Issued: 08/28/2014

Promoting a healthy environment.

08/29/2014

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.

WW-4B
Rev. 2/01

1) Date July 15, 2014
2) Operator's
Well No. Gilbert & Plumley A-37
3) API Well No. 47-109 -01765

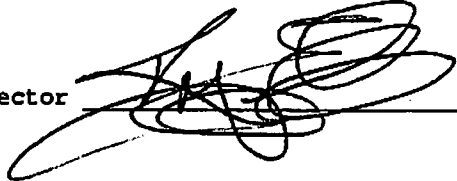
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

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 2,106.17' Watershed Knife Br. of Little Huff Ck of the Guyandotte River
District Huff Creek County Wyoming Quadrangle Balleysville
- 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 Brierrhill Drive Address 3473 Triplett Road
Beckley, WV 25801 Spencer, WV 25275

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  Date 7/25/14

GILBERT & PLUMLEY A-37
API # 47 - 109 - 01765
PLUGGING PROCEDURE

Current Configuration

DTD @ 3834'

16 conductor @ 25' KB, NOT cemented

9 ⁵/₈" - 32.3# LS casing @ 706' KB, cemented & grouted to surface

7" - 17# LS casing @ 1516' KB, cemented to surface

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

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

Maxton perforations: 2885' - 2904', & 2923' - 2942'

Ravencliff formation: 2374' - 2465' (not perforated)

Minable coal based on coal log @ 482.5' - 484', 773.5' - 775.5', 919' - 921', 1185.5' - 1187.5',
& 1405' - 1407'

Fresh water @ 485' & 1368'

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 2950'.
7. MIRU Cementing Company.
8. Pump 15 barrels of 6% Gel.
9. Pump 20 sacks of Class A cement for Cement Plug 1 from 2950' to 2690'.
10. Displace with 10 bbls of 6% Gel.
11. POOH with work string and let cement plug set for a minimum of eight hours.
12. Run freepoint and cut 4 ¹/₂" casing where free. Estimate ±2470'.
13. Pick up casing 1 jt and pump 60 sacks of Class A cement for Cement Plug 2 from ±2470' to 2190'.
14. Displace with 35 bbls of 6% Gel.
15. Pull 4 ¹/₂" casing up to 1620' and pump 36 cubic feet of expanding cement (30 sacks Class A cement with 10 % salt added) for cement plug 3 from 1620' to 1520'.
16. Displace with 24 bbls of water.
17. TOOH with casing and lay down.
18. RDMO cement company.
19. Swab 7" casing to 1510' and leave as a vent string.
20. Install a vent on top of 7" casing to prevent liquids and solids from entering wellbore.
21. Erect Monument according to Law.
22. RDMO.

MAKE SURE
TO SURFACE.

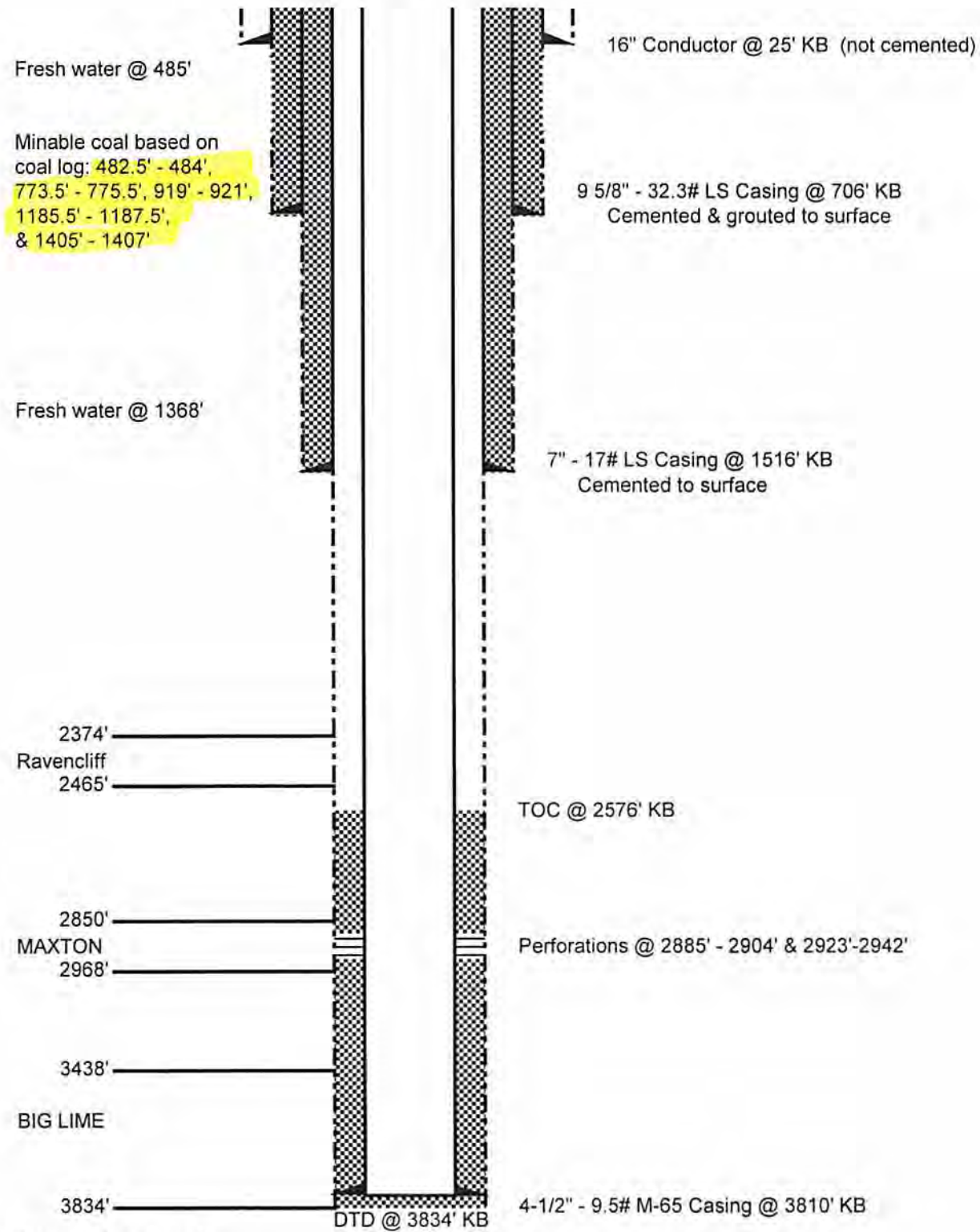
9⁵/₈" WAS CEMENT

RECEIVED
Office of Oil and Gas
JUL 22 2014
WV Department of
Environmental Protection

08/29/2014

Gilbert & Plumley A-37

API 47-109-01765
CURRENT CONFIGURATION



Schematic is not to scale

T. OH 02/26/14

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

Farm name: Georgia Pacific Corp. Operator Well No.: Gilbert & Plumley A-37

LOCATION: Elevation: 2,024' Quadrangle: Baileysville
 District: Huff Creek County: Wyoming
 Latitude: 5,700 feet South of 37 DEG. 32 MIN. 30 SEC.
 Longitude: 8,200 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: 10/6/98
 Well Work Commenced: 10/31/98
 Well Work Completed: 11/20/98
 Verbal Plugging
 Permission granted on:
 Rotary X Cable _____ Rig _____
 Total Depth (feet) 3834'
 Fresh Water Depths (ft) 485', 1368'
 Salt Water Depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
16"	25'	25'	
9-5/8"	706.15'	706.15'	123 sks Class "A"
7"	1516'	1516'	225 sks Class "A"
4-1/2"	3810'	3810'	100 sks RFC

Is coal being mined in area (Y / N)?
 Coal Depths (ft) 194'-196', 290'-292', 743'-747', 752'-756', 896'-903', 915'-918'

OPEN FLOW DATA

Producing formation Middle Maxton Pay zone depth (ft) 2885' - 2942'
 Gas: Initial open flow 40 MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 298 MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock pressure 75 psig (surface pressure after 72 Hours

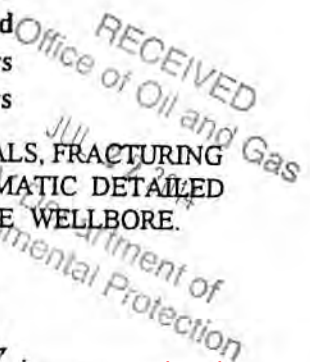
Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure 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: Ray Rudnick, Jr.
 Date: 1-18-99

08/29/2014



OPEN FLOW DATA

Perf'd Maxton from 2885'-2942'. Broke down with 500 gals 15% HCl acid. Frac'd with 75Q foam using 478,600 scf N₂ and 81,000# sand. ATP: 1140 psi. MTP: 1200 psi. ATR: 16 bpm. ISIP: 1048 psi.

FORMATION	TOP	BOTTOM	REMARKS
Silt/Shale	0	1042	
Sand	1042	1152	
Silt/Shale	1152	1590	
Sand	1590	2218	
Shale	2218	2313	
Princeton	2313	2350	
Shale	2350	2374	
RV	2374	2465	
Avis	2465	2495	
Shale	2495	2555	
Maxton	2555	2620	
Shale	2620	2850	
Maxton	2850	2968	
Shale	2968	3032	
Maxton	3032	3040	
Shale	3040	3185	
Maxton	3185	3197	
Shale	3197	3256	
Little Lime	3256	3415	
Shale	3415	3438	
Big Lime	3438	3834 - TD	

10901765P

WW-4A
Revised 6-07

1) Date: July 15, 2014
2) Operator's Well Number
Gilbert & Plumley A-37
3) API Well No.: 47 - 109 - 01765

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

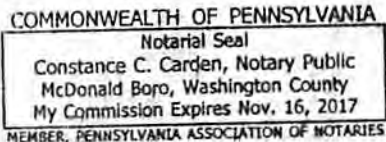
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Heartwood Forestland Fund IV LP</u>	Name <u>See Attached Sheet</u>
Address <u>19045 Stone Mountain Rd.</u>	Address _____
<u>Abingdon, VA 24210</u>	_____
(b) Name <u>Augustine Wimmer</u>	(b) Coal Owner(s) with Declaration
Address <u>HC 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) 932-6844</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.

	Well Operator <u>Cabot Oil & Gas Corporation</u>
	By: <u>Kenneth L. Marcum</u>
	Its: <u>Regulatory Supervisor</u>
	Address <u>Five Penn Center West, Suite 401</u>
	Telephone <u>Pittsburgh, PA 15276</u>
	<u>412-249-3850</u>

Subscribed and sworn before me this 15th day of July, 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.

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WV Department of Environmental Protection

08/29/2014

1090765F

Coal Operator(s)
Gilbert & Plumley A-37
47-109-01765

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 218
laeger, WV 24844

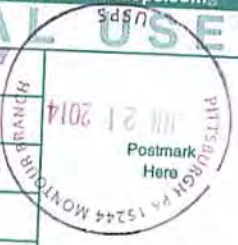
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121 Briehill Drive
Beckley, WV 25801
PS Form 3800, August 2006
Gilbert & Plumley A-37

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Abingdon, V A 24210
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Gilbert & Plumley A-37

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P.O. Box 293
Ikes Fork, WV 24845
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Gilbert & Plumley A-37

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P.O. Box 218
laeger, WV 24844
PS Form 3800, August 2006
Gilbert & Plumley A-37

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Sent To **Rock "N" Roll Coal Co., Inc.**
4641 Greenbrier Mt. Rd.
Panther, WV 24874
PS Form 3800, August 2006
Gilbert & Plumley A-37

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P.O. Box 338
Pineville, WV 24874
PS Form 3800, August 2006
Gilbert & Plumley A-37

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08/29/2014

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 208 Business Street
 Beckley, WV 25801 ✓
 City, State, ZIP+4®
 Gilbert & Plumley A-37

PS Form 3800, August 2009

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 Premier, WV 24874 ✓
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 Gilbert & Plumley A-37

PS Form 3800

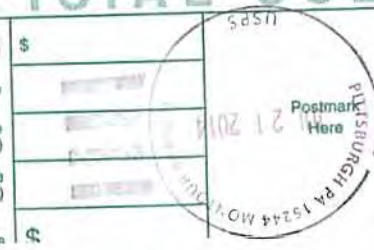
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 HC 68 Box 262
 Iaeger, WV 24844 ✓
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 Gilbert & Plumley A-37

PS Form 3800

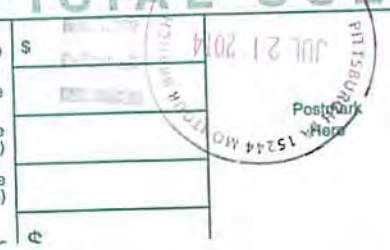
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 Four Crescent Street
 Northampton, MA 01060 ✓
 City, State, ZIP+4®
 Gilbert & Plumley A-37

PS Form 3800

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 Iaeger, WV 24844 ✓
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 Gilbert & Plumley A-37

PS Form 3800

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 Environmental Protection

08/29/2014

10901765P

WW-9
(5/13)

Page 1 of 7
API Number 47-109 - 02016
Operator's Well No. Gilbert&Plumley A-37

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) 050701010501 - Knife Br of Little Huff Creek Quadrangle Baileysville WV USGS 7 1/2' Series

Elevation 2106.17 County Wyoming District Huff Creek

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

Will a pit be used for drill cuttings? Yes No XX

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 _____)

ANY EFFLUENT MUST BE CONTAINED IN STEEL TANKS & DISPOSED OF PROPERLY. *JWH*

Will closed loop system be used? yes

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

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

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

-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 PS

Company Official Title North Region Regulatory Supervisor

Subscribed and sworn before me this 15th day of July 2014

Constance C. Carden Notary Public

My commission expires November 16, 2017

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Office of Oil and Gas
JUL 22 2014
COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires 11/16/2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

08/29/2014

Cabot Oil & Gas Corporation

Proposed Revegetation Treatment: Acres Disturbed 7.68 Prevegetation pH 6.3

Lime 2 Tons/acre or to correct to pH 7.0

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

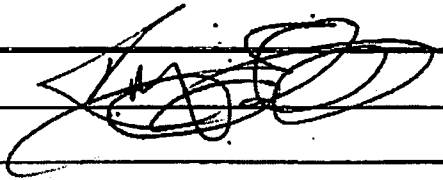
Mulch pulp fiber at 1/2 to 3/4 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II 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.

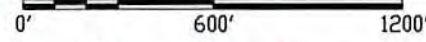
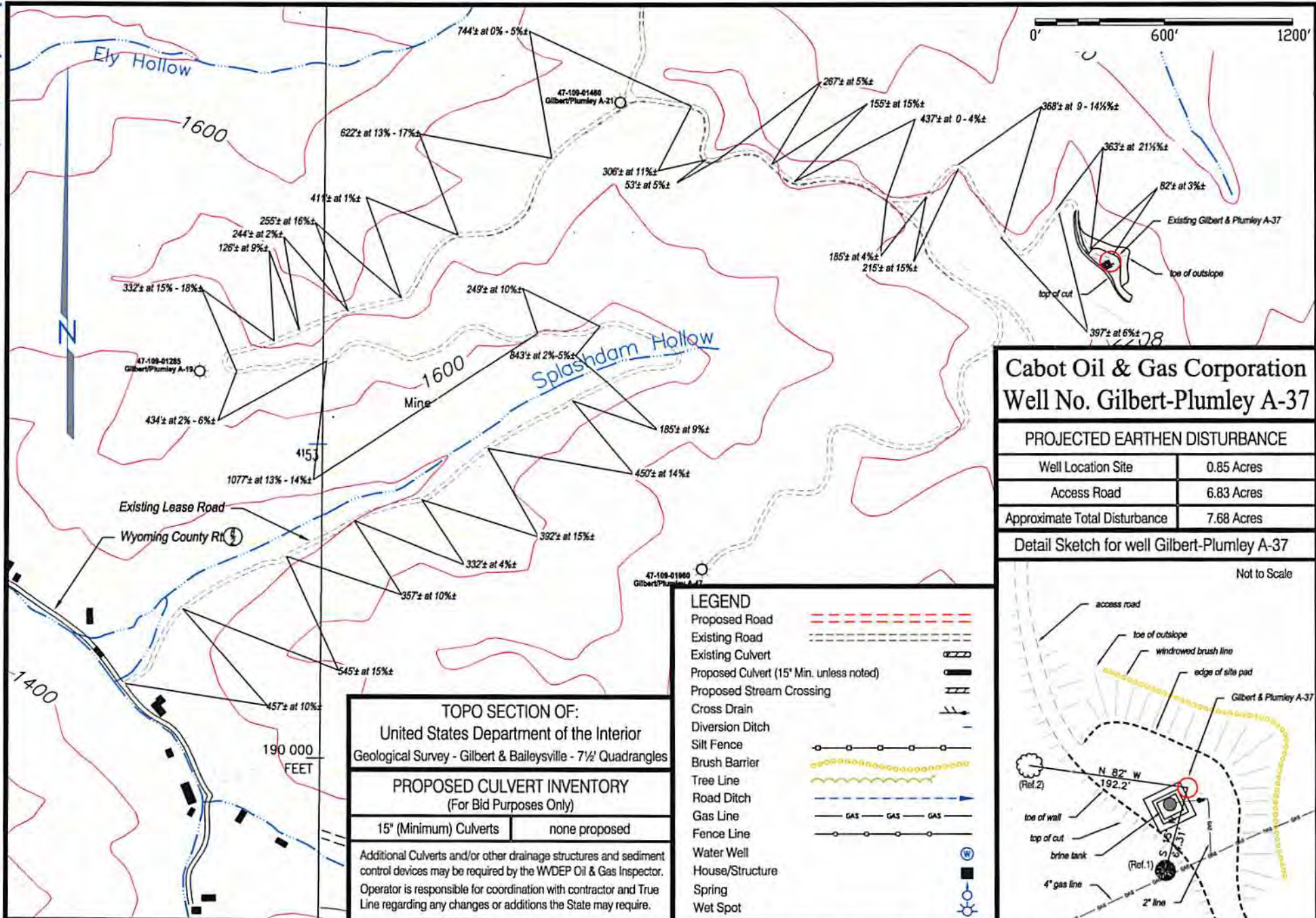
Plan Approved by: 

Comments: _____

Title: WDEP D.L. Gas Inset, Date: 9/25/17

Field Reviewed? Yes No

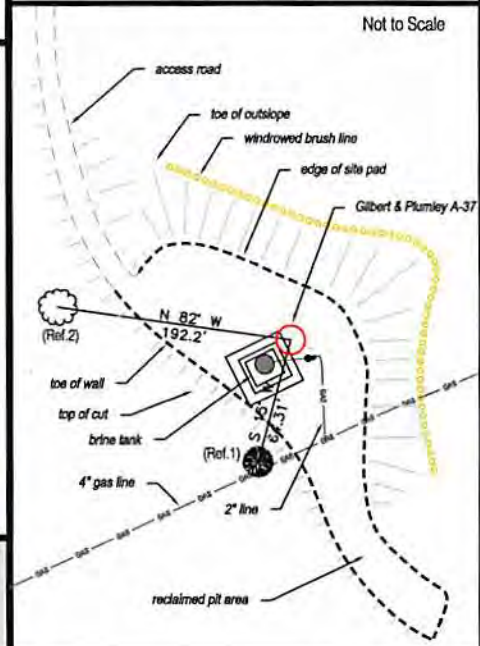
10910765A



Cabot Oil & Gas Corporation Well No. Gilbert-Plumley A-37

PROJECTED EARTHEN DISTURBANCE	
Well Location Site	0.85 Acres
Access Road	6.83 Acres
Approximate Total Disturbance	7.68 Acres

Detail Sketch for well Gilbert-Plumley A-37



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

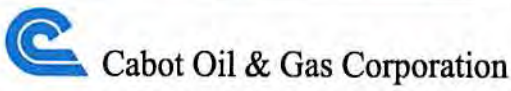
PROPOSED CULVERT INVENTORY
(For Bid Purposes Only)

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

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

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



WW-9: Gilbert-Plumley A-37 Construction and Reclamation Plan

10901765P

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, SITE 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

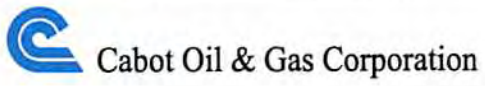
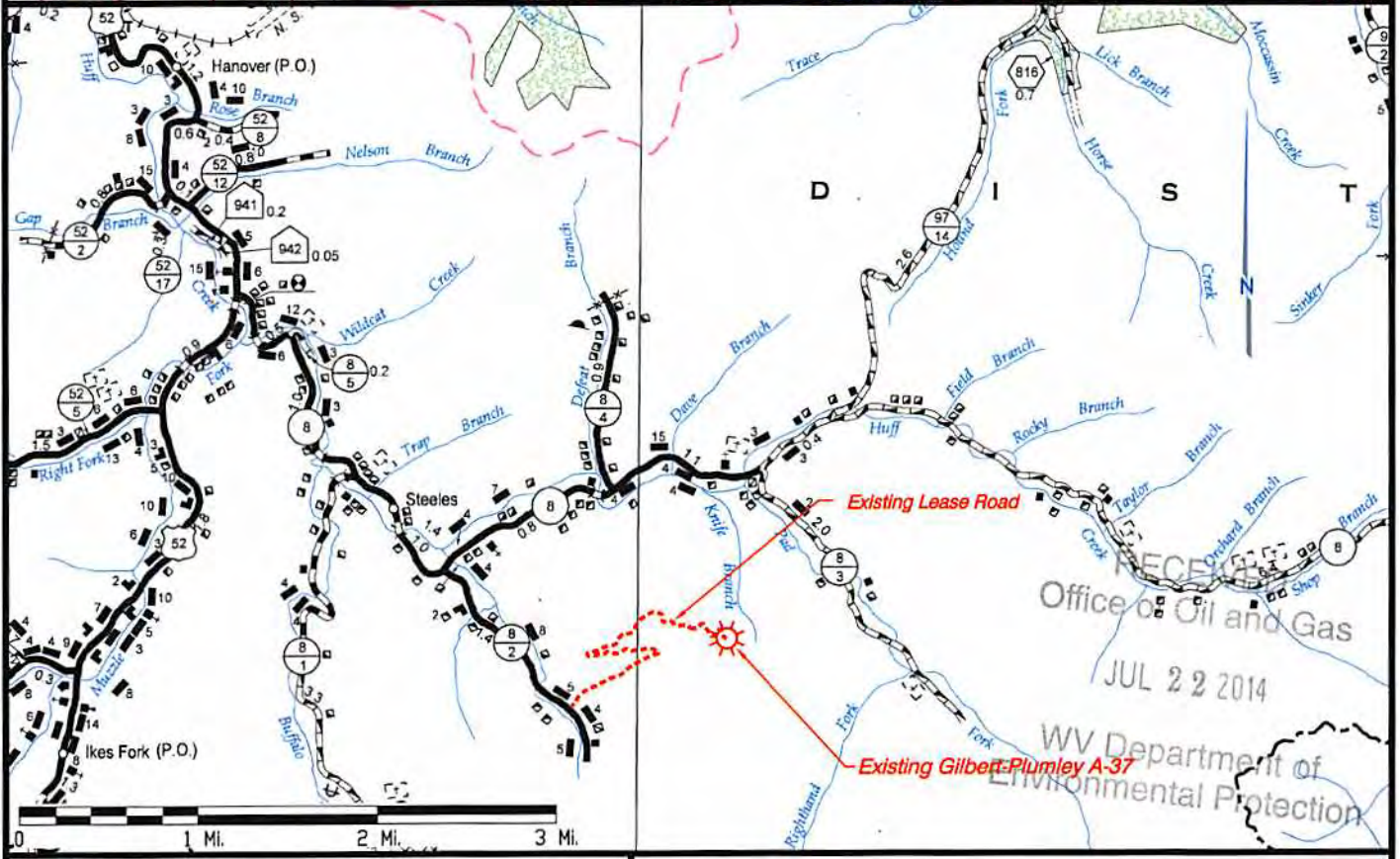
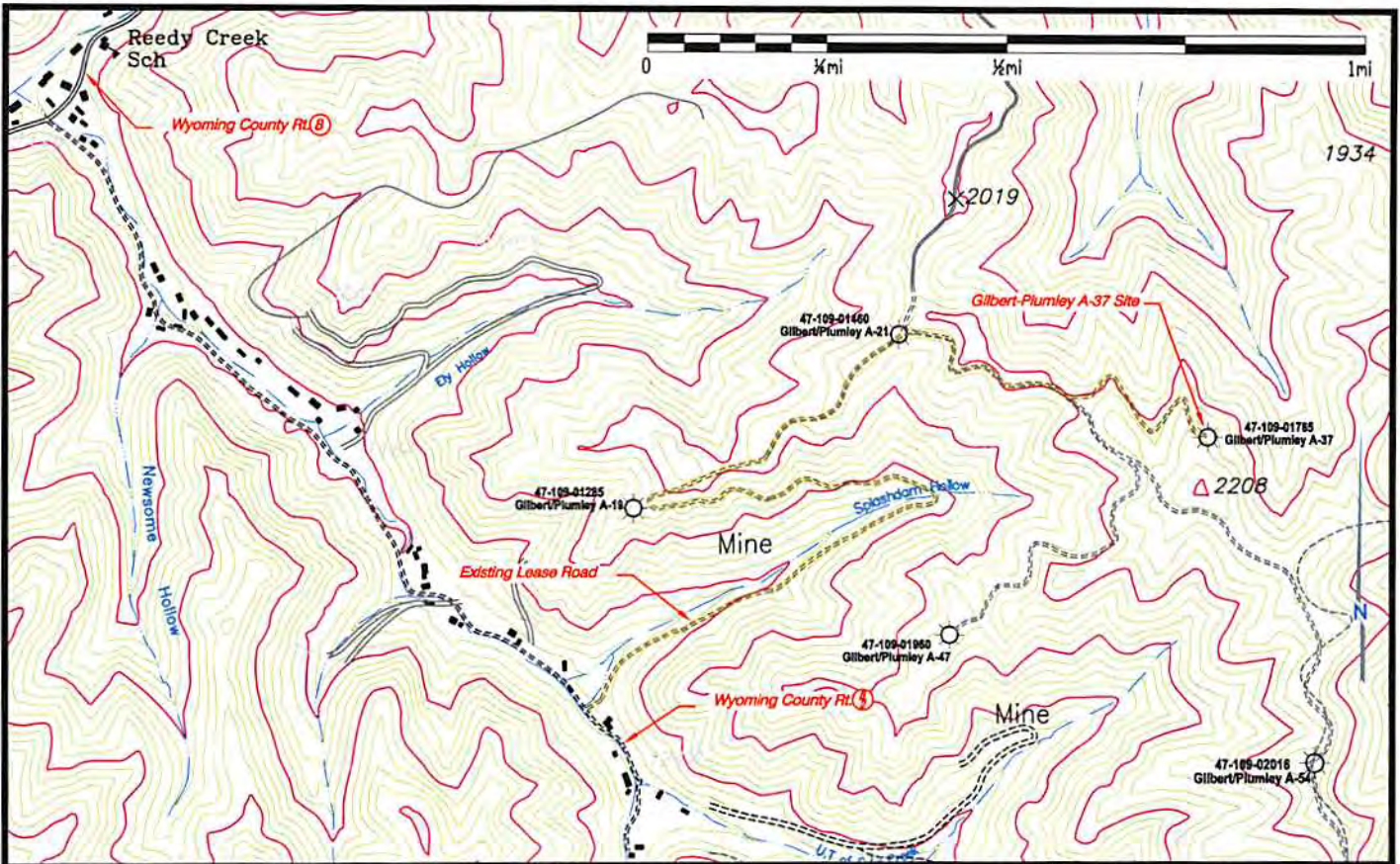
ROAD GRADE (%)	DISTANCE
1	400
2	250
5	135
10	80
15	60
20	45

CONTRACTOR NOTE:

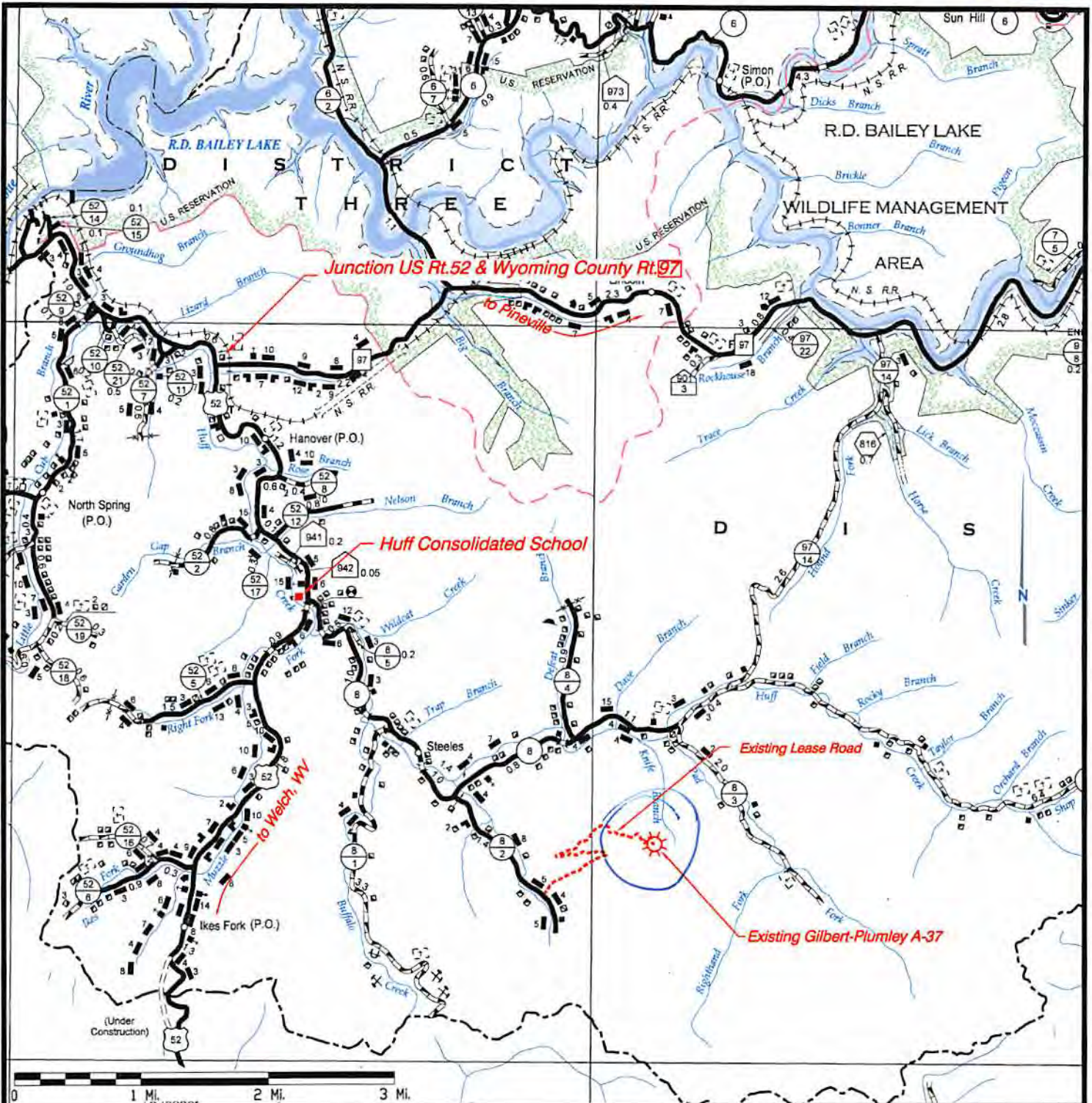
IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE SIZE/CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR EXCAVATION ACTIVITIES

WEST VIRGINIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS NOTICE IN DESIGN STAGE.

CALL 1-800-245-4848



Gilbert-Plumley A-37 Location Map - September 13, 2013
 Located near Hanover in Huff Creek District of Wyoming County, WV



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. 8 on the right. Turn right up Suke Creek (Wyoming Rt. 8) 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 left. Proceed another 0.3± miles to the end of the existing lease road and the Gilbert & Plumley A-37 site.
4. The Gilbert & Plumley well A-37 will be on the right side of the lease road.

JUL 22 2014

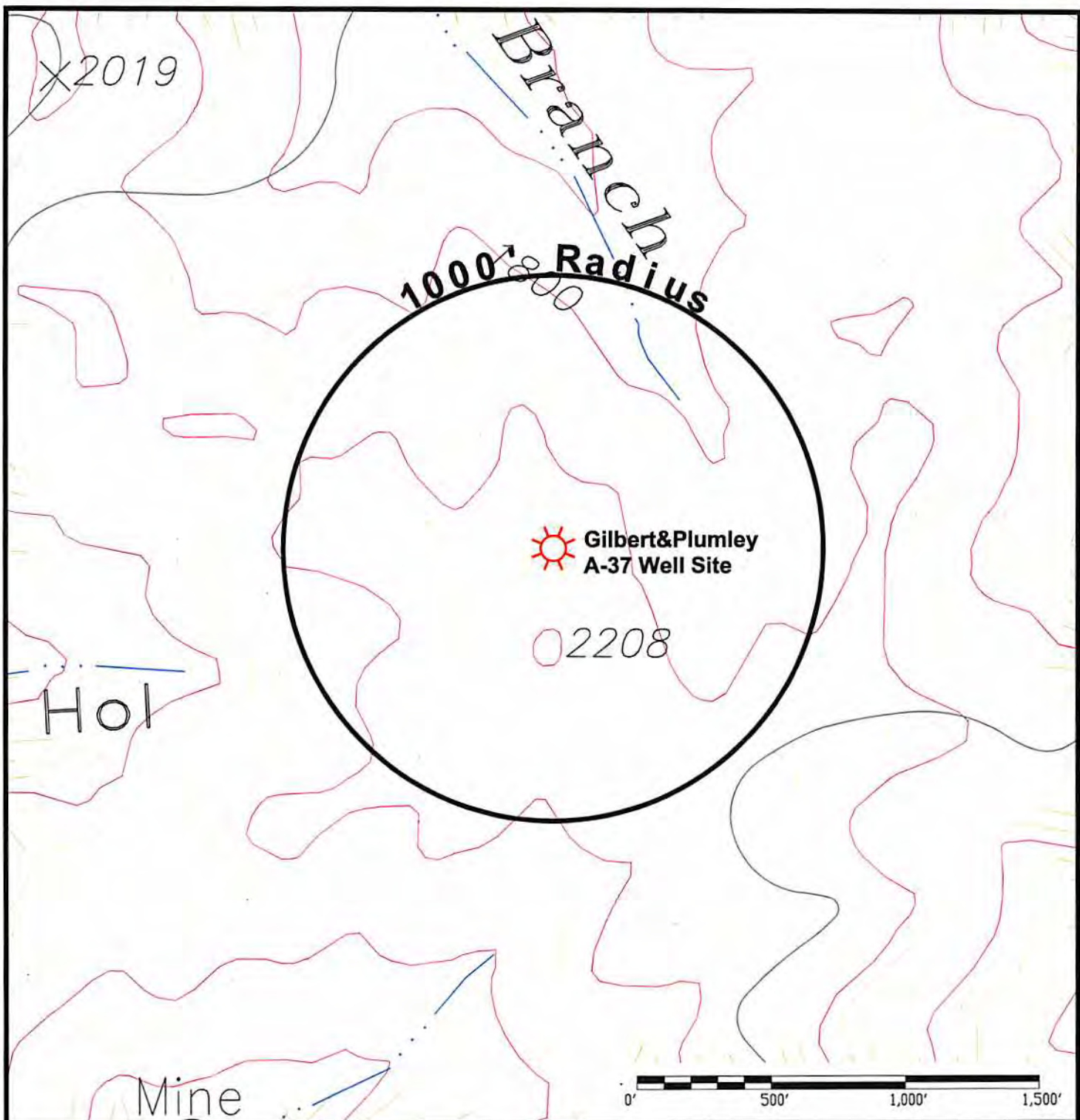


Gilbert & Plumley A-37

Located near Nanover in Huff Creek District of Wyoming County, West Virginia.

September 13, 2013
Driving Directions





08/29/2014



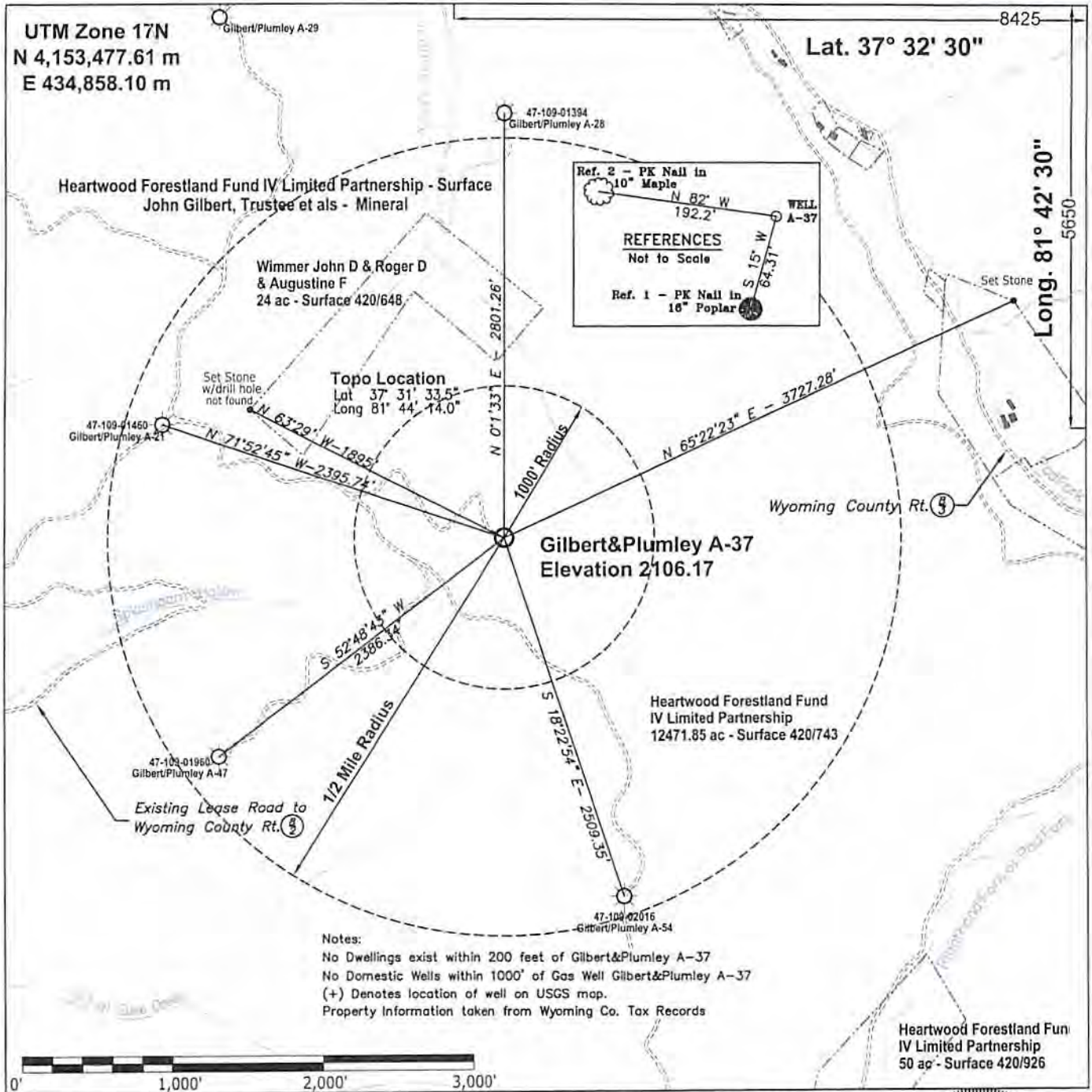
Baileysville, WV 7½' Quadrangle

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 

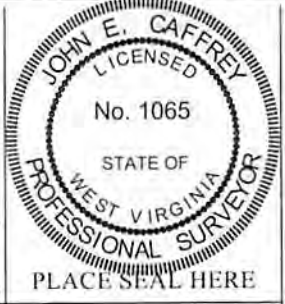
109 01765P



FILE #: \\filestation1\station4d\work\
 DRAWING #: Cabot2014\WW-6-A-37.p
 SCALE: see bar scale above
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: survey grade 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: *John E. Caffrey*
 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: September 13, 2013
 OPERATOR'S WELL #: Gilbert & Plumley A-37
 API WELL #: 47 109 01765 P
 STATE COUNTY PERMIT

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

WATERSHED: Knife Br. of Little Huff Ck of the Guyandotte River ELEVATION: 2106.17
 COUNTY/DISTRICT: 109-Wyoming / 5-Huff Creek QUADRANGLE: 228 - BAILEYSVILLE
 SURFACE OWNER: Heartwood Forestland Fund IV Limited Partnership ACREAGE: 12,471.85
 OIL & GAS ROYALTY OWNER: John Gilbert, Trustees et. al ACREAGE: 20,624±
 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: Big Lime ESTIMATED DEPTH: 3834

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

08/29/2014
 WV Department of Environmental Protection



North Region
July 17, 2014

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

RE: Gilbert & Plumley A-37
Huff Creek District, Wyoming County, WV
API # 47-109-01765
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 and Gas
JUL 22 2014
WV Department of
Environmental Protection