



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

June 25, 2014

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-501399, issued to PRIME OPERATING COMPANY, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 671
Farm Name: ALLEGHENY LAND CO.
API Well Number: 47-501399
Permit Type: Re-Work
Date Issued: 06/25/2014

Promoting a healthy environment.

1). Date: 6/24/2013
 2.) Operator's Well Number APCO 671
 State _____ County _____ Permit _____
 3.) API Well No.: 47- 005 - 01399

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
 (a) Name Robin Land Company LLC
 Address 500 Lee Street, Suite 900
Charleston, WV 25301
 (b) Name _____
 Address _____
 (c) Name _____
 Address _____
 6) Inspector Ross Eller
 Address _____
 Telephone 304-922-6844

5) (a) Coal Operator
 Name Coal River Energy, LLC
 Address P.O. Box 79
Alum Creek WV 25003
 (b) Coal Owner(s) with Declaration
 Name Appalachian Power Company
 Address c/o Robin Land Company, LLC
500 Lee Street, Suite 900
Charleston WV 25301
 (c) Coal Lessee with Declaration
 Name Coal River Energy, LLC
 Address P.O. Box 79
Alum Creek WV 25003

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.

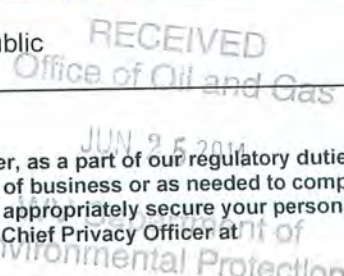


Well Operator Prime Operating Company
 By: Haley M. White
 Its: Designated Agent
 Address 714 1/2 Lee Street East
Charleston, WV 25301
 Telephone 304-342-0121

Subscribed and sworn before me this 19th day of June, 2014

Sara M. Lyon Notary Public

My Commission Expires March 28, 2023
 Oil and Gas Privacy Notice



WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Boone

Operator
Operator well number

Prime Operating Company
APCO 671

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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 **FIFTEEN (15) 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 a 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.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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

FOR EXECUTION BY A CORPORATION, ETC.

Signature

Print Name

Company Name
By
Its
Date

Robin Lownd Company, LLC
John M. Sagan
Vice President

John M. Sagan
Signature
6-23-14
Date

WV Department of Environmental Protection

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Boone
Operator Prime Operating Company Operator's Well Number APCO 671

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator X / owner _____ / lessee X / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. 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.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature

Date

Company
Name
By
Its

Coal River Energy, LLC

Donald F. Eppach
Designated Agent

[Signature]
Signature

Date
6/17/14
Date

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Office of Oil and Gas
JUN 25 2014
WV Department of
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**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
William H. Zerkle, etal	Pond Fork/Sterling	1/8	023/295
William H. Zerkle, etal	Pond Fork/Sterling (Renewal)	1/8	023/850
Appalachian Power	Sterling Drilling (Ratific)	1/8	023/158
Appalachian Power	Sterling Drilling (Ratific)	1/8	023/159
Pond Fork	Sterling Drilling (Assignment)	1/8	022/220
Appalachian Power	Allegheny Land Company	1/8	173/305
Allegheny Land Company	Robin Land Company	1/8	249/342

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:
By: Its:

Prime Operating Company
Halsey Whitney
Designated Agent

Office of Oil and Gas

JUN 25 2014

WV Department of
Environmental Protection

WW-2B1
(5-12)

Well No. Apco 671

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name _____
Sampling Contractor _____

Well Operator Prime Operating Company
Address 714 1/2 Lee Street East
Charleston, WV 25301
Telephone 304-342-0121

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Prime Operating Company

306837	Boone	Scott	Julian 7.5'
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Operator ID County District Quadrangle

2) Operator's Well Number: APCO 671 3) Elevation: 712'

4) Well Type: (a) Oil _____ or Gas X
 (b) If Gas: Production X / Underground Storage _____
 Deep _____ / Shallow X

5) Proposed Target Formation(s): Devonian Shale Proposed Target Depth: 4200'

6) Proposed Total Depth: 4200' Feet Formation at Proposed Total Depth: 4200'

7) Approximate fresh water strata depths: 250'

8) Approximate salt water depths: 1300'

9) Approximate coal seam depths: 0

10) Approximate void depths,(coal, Karst, other): 0

11) Does land contain coal seams tributary to active mine? Yes

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Coal River Energy is mining coal near our well site and they will be using the well site and the near by lands for their over burden.
See attach sheet for well work.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13-10"				38'	
Fresh Water	9 5/8"	LS	33#		300'	100 sx <i>to Surface</i>
Coal						
Intermediate	7"	J-55	20#		1601'	175 sks
Production	4 1/2"	N-80	11.60#		4047'	175 sks
Tubing	2 3/8"		4.7#		3869'	
Liners						

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JUN 25 2014

Packers: Kind: _____
 Sizes: _____
 Depths Set _____

*WV Department of
Environmental Protection*

Proposed well work for

Prime Operating API# 47-005-01399

1. Pull 2 3/8" tubing and remove all well equipment off location.
2. Set a gas release bridge plug inside 4 1/2" casing below the top of cement.
3. Release tension on the 4 1/2" and 7" casing.
4. Approximately 100 ft of 16" Conductor Pipe will be added above ground.
5. The 9 5/8" casing was cemented to surface. Additional 9 5/8", 7" and 4 1/2" casing will be installed to the final height. Collars may be used.
6. Pull tension on 7" casing and set in 7" X 9 5/8" bowl slips. Pull tension on the 4 1/2" casing and set in the 7' X 4 1/2" well head.
7. Drill out gas release bridge plug, run tubing and set well location with well equipment.
8. Lay new gathering pipeline and return well to production.

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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 Prime Operating Company OP Code 306837

Watershed Pond Fork Quadrangle Julian 7.5'

Elevation 1052.64' County Boone District Scott

Description of anticipated Pit Waste: No Pit will be needed

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

Will a synthetic liner be used in the pit? If so, what mil.?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number)
- Reuse (at API Number)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc.

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

Additives to be used?

Will closed loop system be used?

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 Halsey M. Whitney

Company Official (Typed Name) Halsey Whitney

Company Official Title Designated Agent

Subscribed and sworn before me this 19th day of June, 20 14

Sara M. Lyon

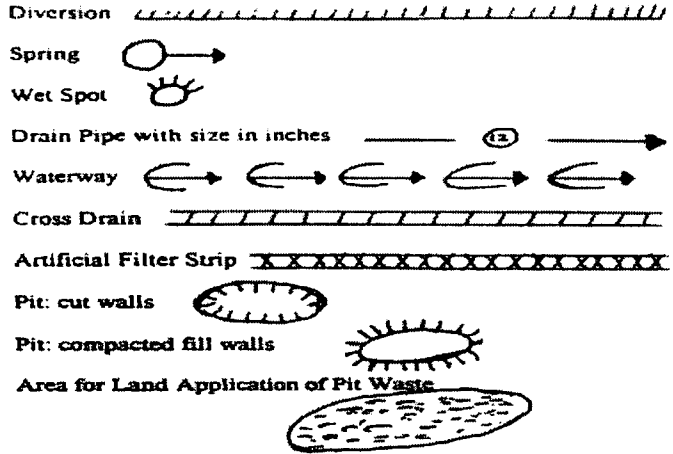
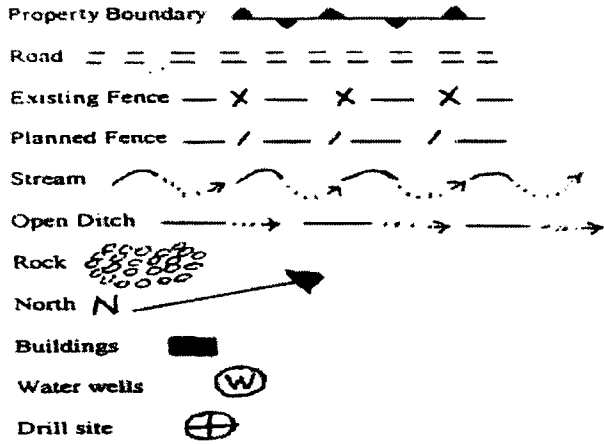
My commission expires March 28, 2023

Notary Public

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JUN 25 2014



LEGEND



Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH 6.0

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) .25 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
KY 31	40	KY 31	40
Ladino Clover	4	Ladino Clover	4

Attach:
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

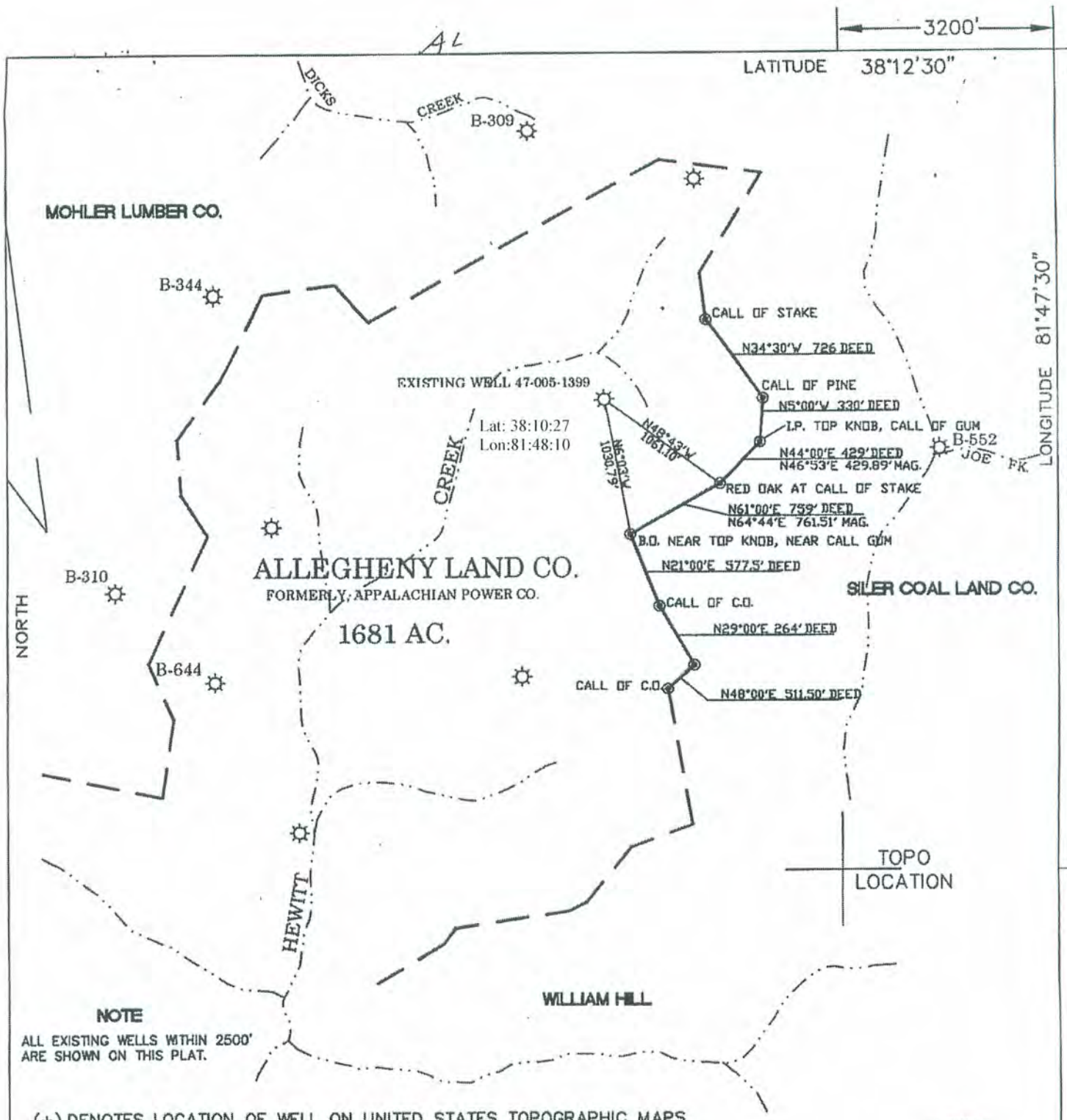
Plan Approved by:

Comments: _____

Title: WVDEP Pit & Gas Inset Date: 6/14/14

Field Reviewed? Yes No

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JUN 25 2014
WV Department of
Environmental Protection

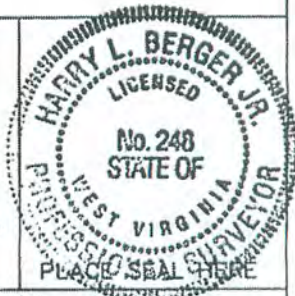


NOTE
ALL EXISTING WELLS WITHIN 2500'
ARE SHOWN ON THIS PLAT.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 193-001, NO. 6 REV.
DRAWING NO. 101-B
SCALE 1" = 1000'
MINIMUM DEGREE OF
ACCURACY 1 : 2500
PROVEN SOURCE OF
ELEVATION USGS DATA, SOUTH
APP. B.M 17, ELEV. 789.11

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF ENERGY.
(SIGNED) Harry L. Berger Jr.
R.P.E. _____ I.L.S. 248



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

DATE JULY 21, 2000
OPERATOR'S WELL NO. 671 REVISED
API WELL NO. 47-005-1399-R
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1052.64 WATERSHED HEWITT CREEK OF COAL RIVER
DISTRICT SCOTT COUNTY BOONE
QUADRANGLE JULIAN

SURFACE OWNER ALLEGHENY LAND COMPANY ACREAGE 1681
OIL & GAS ROYALTY OWNER ALLEGHENY LAND COMPANY LEASE ACREAGE 1703
LEASE NO. 193-001

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

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION RIG IN JUN ESTIMATED DEPTH 1802'

WELL OPERATOR PRIME OPERATING COMPANY DESIGNATED AGENT ROBERT L. BLACKBURN
ADDRESS 714 1/2 LEE STREET, EAST ADDRESS 714 1/2 LEE STREET, EAST
CHARLESTON, WV. 25301 CHARLESTON, WV. 25301

FORM WW-6

COUNTY NAME PERMIT

RECEIVED
Office of Oil and Gas
JUN 25 2001