



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

October 21, 2013

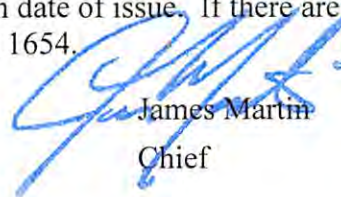
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703345, 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.

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: DRAKE 166
Farm Name: MORRIS, MARTIN
API Well Number: 47-8703345
Permit Type: Plugging
Date Issued: 10/21/2013

Promoting a healthy environment.

10/25/2013

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date _____, 20_____
2) Operator's
Well No. Drake 166
3) API Well No. 47-087 - 03345

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 1136' Watershed _____
District Geary 02 County Roane 87 Quadrangle 7.5 ~~635~~ Tariff

6) Well Operator Prime Operating Company 7) Designated Agent Halsey Whitney
Address 714 1/2 Lee Street East Address 714 1/2 Lee Street East
Charleston, WV 25301 Charleston WV 25301

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Ed Gainer Name _____
Address PO Box 821 Address _____
Spencer, WV 25276

10) Work Order: The work order for the manner of plugging this well is as follows:
Run 2 3/8" tubing to 1830' TD. Pump 6% gel to surface, set 150' cement plug to cover perfs. Pull tubing to 1630'
and set 150' cement plug to cover perfs. Pull 2 3/8 tubing to 1370' and set 150' cement plug to cover perfs.
Pull 2 3/8" out of well and cut 4 1/2" casing at 700' set 100' cement plug Pull 4 1/2" casing to
300' set 100' cement plug inside and at the bottom of surface pipe. Pull 4 1/2" casing out of
Well and fill with cement to surface. Set a plugging monument with API.

UTM East 488877.5 UTM West 4275381.9
100' to 0 cement plug

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

Work order approved by inspector 

Received
Date 7/19/13
SEP 23 2013

8703345P

VR-15
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 07/01/13
API #: 47-087-03345

Farm name: Drake Operator Well No.: 166

LOCATION: Elevation: 1036' Quadrangle: Otter S.W.

District: Geary County: Roane
Latitude: Feet South of Deg. Min. Sec.
Longitude: Feet West of Deg. Min. Sec.

Company: Prime Operating

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
714 1/2 Lee Street East Charleston, WV 25301	8 5/8"	253	253	100 sks
Agent: Halsey Whitney				
Inspector: Ed Gainer				
Date Permit Issued: 9/27/07				
Date Well Work Commenced: 2/27/08				
Date Well Work Completed: 7/15/08	4 1/2"		1832	100 sks
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				120 sks
Total Vertical Depth (ft):			TOC	730'
Total Measured Depth (ft):				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s)				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Maxton Pay zone depth (ft) 1624-30'
Gas: Initial open flow 0 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 1 Hours
Static rock Pressure 0 psig (surface pressure) after 1 Hours

Second producing formation Salt Sand Pay zone depth (ft) 1310-1362'
Gas: Initial open flow 74 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 74 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 14 Hours
Static rock Pressure 155 psig (surface pressure) after 48 Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.

Halsey M. Whitney
Signature

7/5/13
Date

Received

OFF 23 2013

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes _____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforated Intervals:

1624-30' (12 holes), 1352-62' (30 holes), 1334-40' (18 holes), 1310-16.6' (18 holes)

Plug Back Details Including Plug Type and Depth(s):

Wireline BPs set at 1346' and 1680'

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
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Received

SEP 23 2013

8703345A

WW-4A
Revised 6-07

1) Date: 9/13/13
2) Operator's Well Number
Drake 166

3) API Well No.: 47 - 087 - 03345

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>Marlin Morris</u>	Name <u>W</u>
Address <u>2262 Uler RD</u>	Address _____
<u>Newton WV 25266</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Ed Gainer</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 821</u>	Name _____
<u>Spencer WV 25276</u>	Address _____
Telephone <u>304-389-7582</u>	_____

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

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Prime Operating Company

By: Haley M. White

Its: Designated Agent/ District Manager

Address 714 1/2 Lee Street East

Charleston, WV 25301

Telephone 304-342-0121

Subscribed and sworn before me this 13th day of September 2013

Sara M. Lyon Notary Public

My Commission Expires March 28, 2023

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.

SEP 23 2013

8703345P

SURFACE OWNER WAIVER

Operator's Well
Number

Drake 166

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.

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,

Marlon W. Morris
Signature

Date 9-12-13 Name _____
By _____
Its _____

Received

Signature Date

Signature Date

Office of Oil and Gas
WV Dept. of Environmental Protection

10/25/2013

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 Big Sandy Quadrangle Otter NW 7 1/2

Elevation 1136' County Roane District Geary

Description of anticipated Pit Waste: Salt Water, Cementing Fluids and gel

Will a synthetic liner be used in the pit? Yes 20 MIL

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 2D0873432)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

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 M. Whitney
Company Official Title Designated Agent/ District Manager

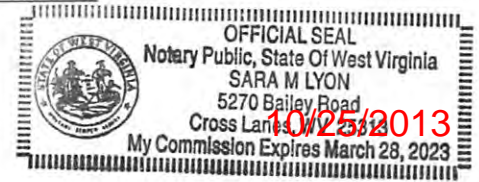
Subscribed and sworn before me this 13th day of September, 2013

Sara M. Lyon Notary Public

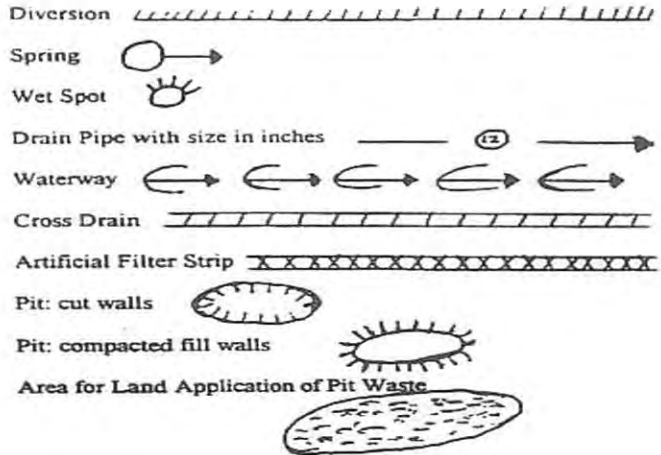
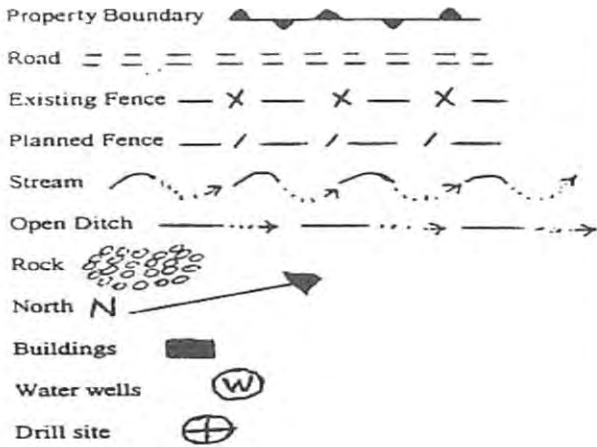
Received
SEP 23 2013

My commission expires March 28, 2023

Office of Oil and Gas
WV Dept. of Environmental Protection



LEGEND



Proposed Revegetation Treatment: Acres Disturbed .5 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

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

Mulch 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
KY 31 Fescue		50			

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: Inspector Date: 7/19/13

Field Reviewed? () Yes (X) No

Received

SEP 23 2013

Prime Operating Company
Drake 166: API #47-087-03345

addap.tk/userdata/phase x LON/LAT UTM converter x WVGES O&G Record Rep. x Lat Long to UTM Converte x

← → ↻ tagis.dep.wv.gov/convert/

Lon/Lat
Longitude: - 81 d 07 m 41.05 s
Latitude: - 38 d 37 m 29.60 s
DD: -81.126069 38.624889
Datum: NAD27 NAD83

UTM
Coordinates: 488851.92 E 4275159.22 N
Datum: NAD27 NAD83 Zone: 17

State Plane (feet)
Coordinates: 1503341.08 E 49704.13 N
Datum: NAD27 NAD83 Zone: North

The map displays a topographic view of a region with contour lines. Several features are labeled: 'PIPELINES' (dashed lines), 'CALHOUN CO' and 'ROANE CO' (county boundaries), 'Middle Fork' and 'Elana' (water bodies), and 'Uler' (a benchmark BM 767). A blue circle highlights a 'Gas Well' location in the center of the map. Other labels include 'Cem', 'Gas Well', 'Zion Hill Ch', and 'Cem'. The map interface includes a 'clear markers' button and options for 'street map', 'image', and 'topo' views.

Received
OCT 14 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

8703345 P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-087-03345 WELL NO.: 166
FARM NAME: Drake
RESPONSIBLE PARTY NAME: Prime Operating Company
COUNTY: Roane DISTRICT: Geary
QUADRANGLE: Tariff
SURFACE OWNER: Martin Morris
ROYALTY OWNER: L.H. Drake et al
UTM GPS NORTHING: 4275159.22
UTM GPS EASTING: 488851.92 GPS ELEVATION: 296m *1036 FT*

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- 2. Accuracy to Datum – 3.05 meters
- 3. Data Collection Method:

Survey grade GPS ___: Post Processed Differential ___
Real-Time Differential ___
Mapping Grade GPS X: Post Processed Differential ___
Real-Time Differential X

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Holly M. White
Signature

Dist. Manager
Title

10/14/2013
Date

Received
OCT 14 2013
Office of Oil and Gas
West Virginia Dept of Environmental Protection

8703345P

Prime Operating Company

a subsidiary of Prime Energy Corporation

Eastern Oil Well Service Company

714-1/2 Lee Street East • Charleston, WV 25301
(304) 342-0121 • FAX (304) 343-7019

September 20, 2013

Mr. Gene Smith
Assistant Chief
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

RE: Applications to Plug and Abandon

CK# 0630944
\$200.⁰⁰ (2)
87-3345
87-3435

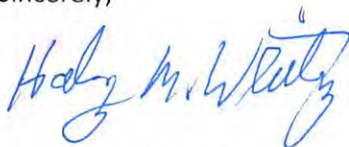
Dear Mr. Smith,

Enclosed please find two Applications to Plug and Abandon, as well as, a check for two hundred dollars to cover the Pit Permit for each well.

I would appreciate your earliest attention to these applications.

Please let me know if you have any question.

Sincerely,



Halsey M. Whitney
District Manager

Received

SEP 23 2013

Office of Oil and Gas
WV Dept. of Environmental Protection



Date 8-12 1980
 Well No. DRAKE #166
 API No. 47 - 087 -
State County Permit

STATE OF WEST VIRGINIA
 OFFICE OF OIL AND GAS

Company Name Sterling Drill. & Prod. Designated Agent Charlie E. Moore.
 Address 622 3rd Ave., NY, NY 10017 Address Rt. 1 Box 30 - Duck, WV 250
 Telephone 212-949-9100 Telephone 304-364-5780
 Landowner Denver Morris Soil Cons. District Little Kanawha SCD

Revegetation to be carried out by Moore's Well Service, Charlie E. Moore (Agent)

This plan has been approved by Little Kanawha SCD. All corrections and additions become a part of this plan. 8-29-80 Jarrett Newlon (SCD Agent)

Access Road	Location
Structure <u>Culverts</u> (A)	Structure <u>Diversion Ditch</u> (1)
Spacing <u>Min. Size 12"</u>	Material <u>Earthen</u>
Page Ref. Manual <u>I-8</u>	Page Ref. Manual <u>I-9</u>
Structure <u>Drainage Ditches</u> (B)	Structure <u>Rip-Rap</u> (2)
Spacing <u> </u>	Material <u>Rock</u>
Page Ref. Manual <u>I-11</u>	Page Ref. Manual <u>N/A</u>
Structure <u>Cross Ditches</u> (C)	Structure <u> </u> (3)
Spacing <u> </u>	Material <u> </u>
Page Ref. Manual <u>I-6</u>	Page Ref. Manual <u> </u>

All structures should be inspected regularly and repaired if necessary.

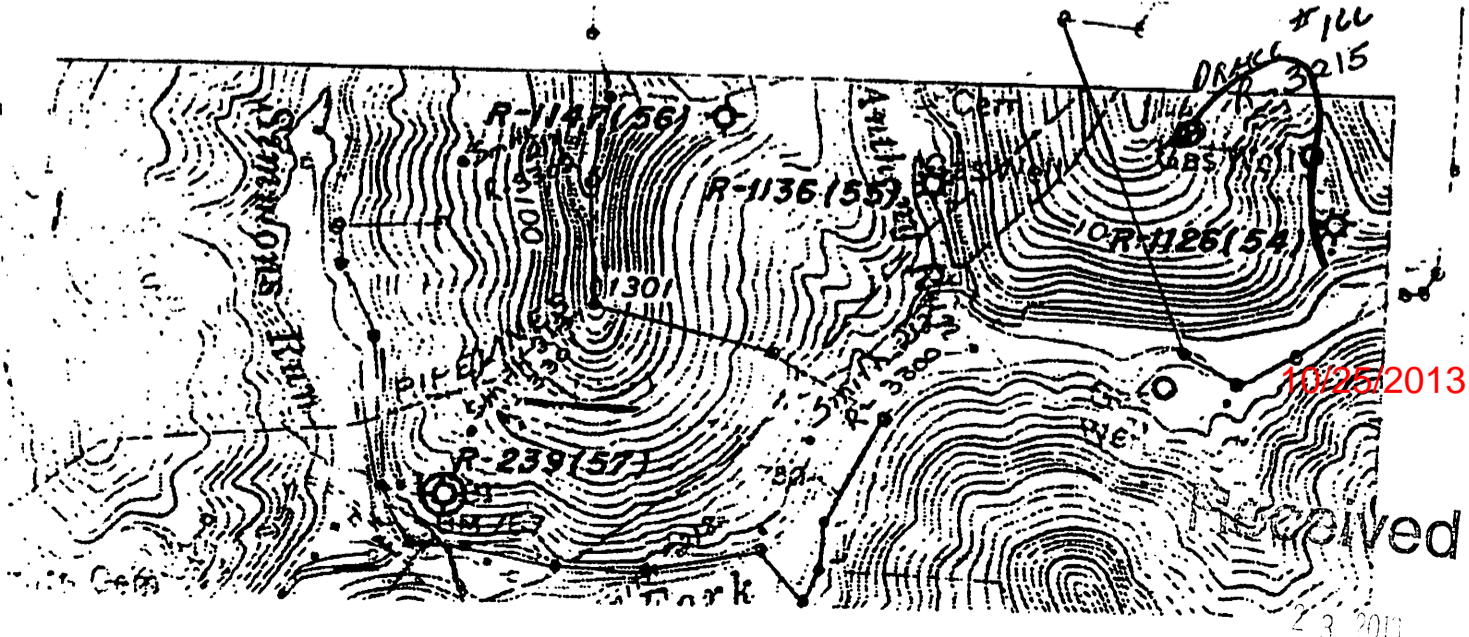
Revegetation

Treatment Area I			Treatment Area II		
Lime	<u> </u>	Tons/Acre	Lime	<u> </u>	Tons/Acre
or correct to pH	<u>6.5</u>		or correct to pH	<u>6.5</u>	
Fertilizer	<u>600</u>	lbs/acre	Fertilizer	<u>600</u>	lbs/acre
(10-20-20 or equivalent)			(10-20-20 or equivalent)		
Mulch	<u>Hay</u>	<u>2</u> Tons/Acre	Mulch	<u>Hay</u>	<u>2</u> Tons/Acre
Seeds	<u>Ky-31</u>	<u>35</u> lbs/acre	Seeds	<u>Ky-31</u>	<u>45</u> lbs/acre
	<u>Orchard</u>	<u>15</u> lbs/acre			lbs/acre
		lbs/acre			lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3% recommended amount.

Attach or photocopy section of involved Topographic map. Quadrangle Otter N.W.

Legend: Well Site Scale 1" = 1000'
 Access Road



[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. DRAKE #166
API Well No. 47-087-32
State County Roane

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow)
LOCATION: Elevation: 1036.02' Watershed: Big Sandy Creek
District: Geary County: Roane Quadrangle: Otter N. W.

WELL OPERATOR Sterling Drilling & Production Co. DESIGNATED AGENT Charlie E. Moore
Address 622 Third Avenue, Suite 3800 Address Rt. 1 Box 30
New York, NY 10017 Duck, WV 25063

OIL & GAS ROYALTY OWNER L. H. Drake
Address Newton
WV 25266

COAL OPERATOR None
Address _____

SURFACE OWNER Denver Morris
Address Uler
WV 25282
Acreage 98

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Unknown - Unoperated
Address _____
Name _____
Address _____

FIELD SALE (IF MADE) TO:
Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address OCT 16 1979

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Richard Morris
Address P. O. Box 372
Grantsville, WV 26147

OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated July 4, 1979, to the undersigned well operator from C. C. Dodd, Et Al
[If said deed, lease, or other contract has been recorded:]

Recorded on July 6, 1979, in the office of the Clerk of the County Commission of Roane County, West Virginia, in _____ Book 154 at page 64. A permit is requested for _____

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

---planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plot and explanation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOLOGICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
WASHINGTON STREET EAST
CHARLESTON, WV 25311

BLANKET BOND

Sterling Drilling & Production Co. 10/25/2013
Well Operator
By Charlie E. Moore Received
Its Agent

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY.
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM 10-2 WHEN COMPLETED.

CONTRACTOR (IF KNOWN) Clint Hurt & Associates, Inc.

Address P. O. Box 388
Elkview, WV 25071

GEOLOGICAL TARGET FORMATION, Injun Sand

Estimated depth of completed well, 1375 feet. Is this well a water well.

Approximate water column depth: None feet. None feet.

Approximate coal seam depths: 0 feet. Is coal being mined in the area: Yes / No

TAPING AND TUBING PROGRAM

TAPING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILLING OR GASKET (Cubic Feet)	REMARKS
	Size	Grade	Weight per ft.	Flow	Used For drilling	Left in well		
Conductor								Rings
Fresh water								
2 in.								None
Intermediate	8 5/8	H-40	20#	X	250	250	To Surface	
Production	4 1/2	H-40	10.5#	X		1375	100 sks.	Depth set
Tubing								
Minors								Bottom lines
								See notes

NOTE: Regulation 10.05 of the Department of Mines provides that the original and four copies of Form 10-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof, other security allowed by Code § 22-4-2, (iii) Form 10-3, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless prohibited by the same statute, the fee required by Code § 22-4-12a, and (v) the certificate of the survey required by Code § 22-4-8a from the owner of any water well or existing mine, 200 feet of the proposed well.

A separate Form 10-3 shall be required for fracturing or stimulating a well where this permit **MUST BE POSTED AT THE WELL SITE** in addition to the Form 10-2 filed in connection therewith.

All provisions being in accordance with Chapter 22 of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 6-17-80.

Robert T. Hill
Deputy Director - Oil & Gas Division

This permit is void unless completed by the well operator and is only valid if the well owner has recorded a declaration under Code § 22-4-20, if the permit is not issued within fifteen (15) days of receipt thereof.

W A I V E R

The undersigned well operator / owner / lessee / of the well under this permit hereby certifies this proposed well location. If a mine map exists which covers the area of the location, the well location has been added to the mine map. The undersigned hereby certifies that no work is being done at this location, provided, the well operator has complied with all applicable provisions of the West Virginia Code and the governing regulations.

10/25/2013
Received

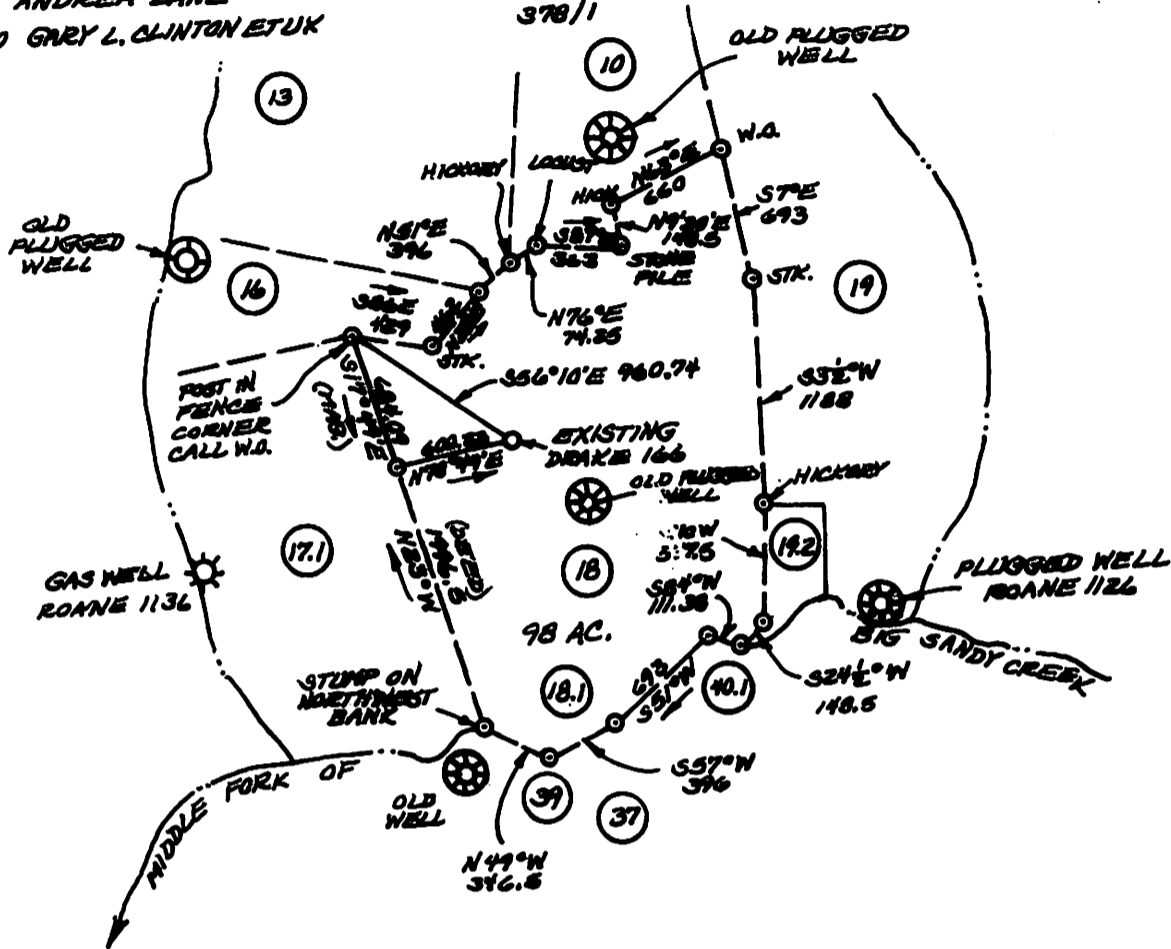
By _____
Its _____

TM/P OWNER(S) D.B/P

10/10	RICHARD LEE HUDNALL ETUX	292/299
10/13	FRANK D. THURMAN ETUX	258/546
10/16	GEORGE H. FERRELL ETUX	228/696
10/17.1	JAMES R. HAROLD	226/722
10/18, 18.1	MARLIN D. MORRIS	363/264, 284/523
10/19	ROBERT E. HAROLD ETAL	338/531
10/19.2	ANDREW E. HAROLD	421/476
10/19.3	ANDREA LANE	382/378
10/37-40	GARY L. CLINTON ETUX	378/1

LONGITUDE 81°07'30"

NORTH

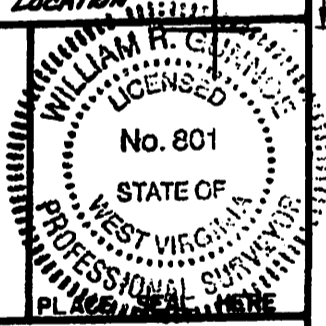


7 1/2 MIN. TOPO LOCATION

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION EXISTING WELL

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) William R. Guance
 R. P. E. _____ L. L. S. 001



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

FORM IV-6 (8-78)



Division of Environmental Protection
 Office of Oil & Gas

DATE AUGUST 16, 2007
 OPERATOR'S WELL NO. _____
 API WELL NO. _____
47 - 087 - 03345 PPF
 STATE COUNTY PERMIT

Received

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1036 WATER SHED MIDDLE FORK OF BIG SANDY CREEK
 DISTRICT GEARY COUNTY ROANE
 QUADRANGLE TARIFF

SURFACE OWNER MARLIN D. MORRIS ACREAGE 98
 OIL & GAS ROYALTY OWNER L.H. DRAKE ETAL LEASE ACREAGE 98

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 MAXIM SAND ESTIMATED DEPTH _____
 WELL OPERATOR PRIME OPERATING 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

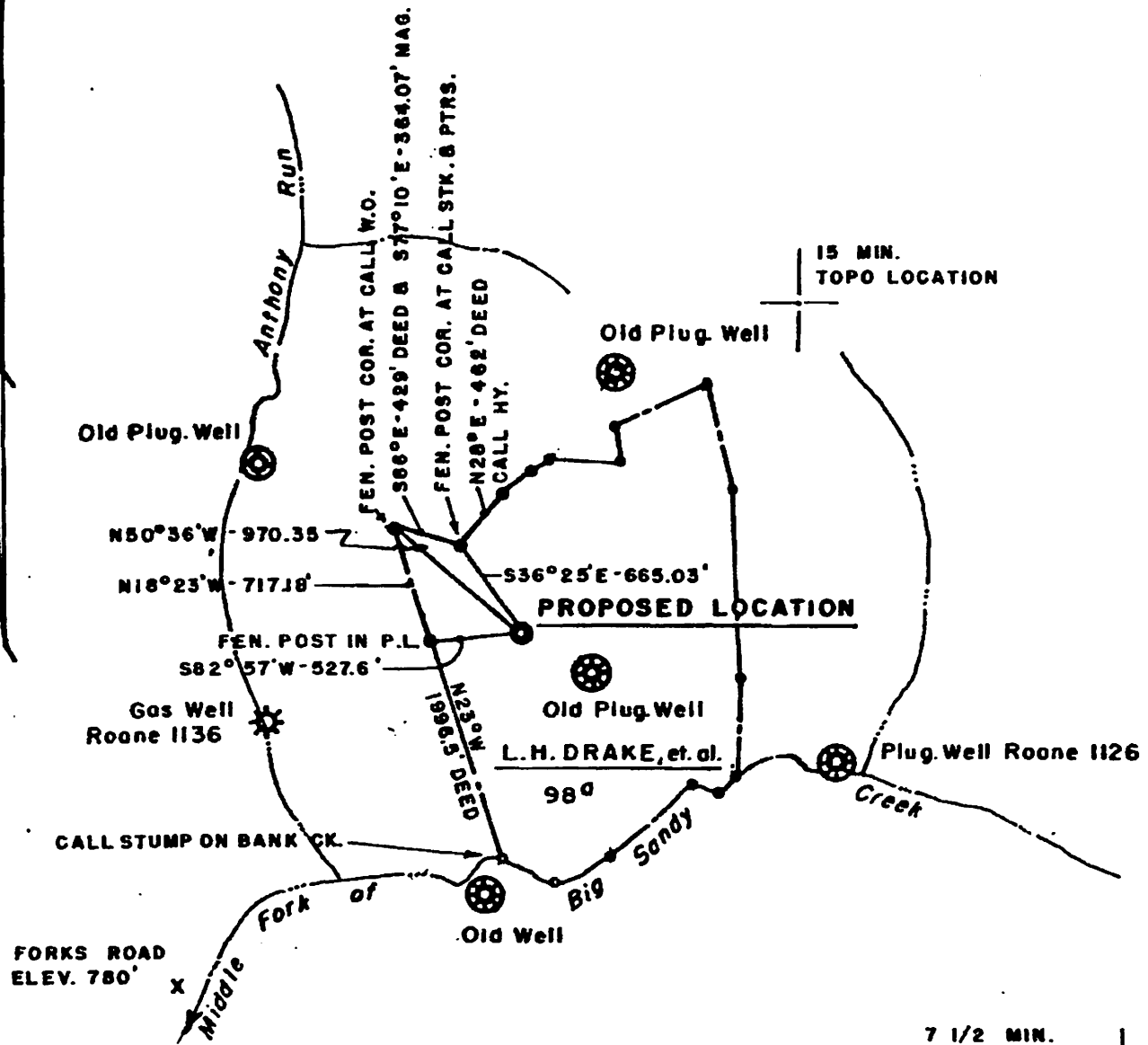
SEP 2 2008

Office of Oil and Gas
 WV Dept. of Environmental Protection

10/25/2013

7 1/2 MIN. LATITUDE 38°40'
15 MIN. LATITUDE 38°40'

15 MIN. LONGITUDE 81°05'
7 1/2 MIN. LONGITUDE 81°07'30"



950 W 81°07' 30"
15,100 S 38°40' Tariff - Paid

NOTE

ALL OLD WELLS SHOWN
ARE APPROXIMATE LOCATIONS
EXCEPT THE ONE ON THE
SUBJECT TRACT.

CERTIFICATE

I the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 4 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.
Minimum degree of accuracy is one part in 200

Signed Henry S. Berger, Jr., L.L.S. 248

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY	STERLING DRILLING & PRODUCTION CO., INC.
ADDRESS	622 3RD AVE. SUITE 3800, N.Y., N.Y. 10017
LAND	L. H. DRAKE, ET AL. MIN. & DENVER MORRIS SURF.
MAP	74-A ACRES 98 LEASE NO D-36
WELL (FARM) NO	2 SERIAL NO 188
ELEVATION (SPIRIT LEVEL)	1036.02'
QUADRANGLE	15 MIN. OTTER N.W. & 7 1/2 MIN. TARIFF
COUNTY	ROANE DISTRICT GEARY
POINT OF PROVED ELEVATION	U.S.G.S. DATA FORKS OF ROAD SHOWN ON PLAT ELEV. 780'
FILE NO	DRAWING NO
DATE	OCT. 7, 1979 SCALE 1" = 1000'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP
FILE NO <u>087-3345</u>
10/25/2013
Received
DEPUTES LOCATION OF WELL ON UNITED STATES GEOLOGICAL SURVEY MAPS SCALE 1" TO 42,000' LATITUDE AND LONGITUDE DATA BEING REPRESENTED BY DOTTED LINES AS SHOWN
DEPUTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL SPACING

Date: October 11, 19 79

Operator's Well No. DRAKE #166
API Well No. 47 087-3215
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

RECLAMATION PLAN

WELL OPERATOR Sterling Drilling & Prod. Co. DESIGNATED AGENT Charlie E. Moore
Address 622 Third Avenue, Suite 3800 Address Rt. 1 Box 30
New York, NY 10017 Duck, WV 25063

The well operator hereby agrees to carry out the reclamation requirements of Code § 22-4-12b in the manner set out below.

This plan has ___/ has not X/ been reviewed with the district oil and gas inspector.

SKETCH: (Locate and show the (1) well location, (2) existing access road, (3) access road to be constructed, (4) well site, (5) drilling pit(s), and (6) necessary drainage features, including drains (natural and manmade), silt traps, etc.)



STATEMENT OF RECLAMATION PLAN (Complets on reverse side if necessary)

Location to be restored to original contour as near as practical; re-seeded, fertilized, and mulched.

All marketable timber to be removed and owner notified.

The nearest water well or dwelling is more than three hundred (300) feet away.

Sterling Drilling & Production Co.
Well Operator

By Charlie E. Moore 10/25/2013
Its Agent Received

SEP 2 3 1979

STATE OF WEST VIRGINIA
DIVISION 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 _____

Watershed BIG SANDY CREEK Quadrangle _____ Tariff _____

Elevation 1036.02' County Roane District Geary

Description of anticipated Pit Waste: FRAC Fluid - SAITWATER

Will a synthetic liner be used in the pit? YES

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 _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, by the Office of Oil and Gas of the West Virginia Division 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 Robert L. Blackburn

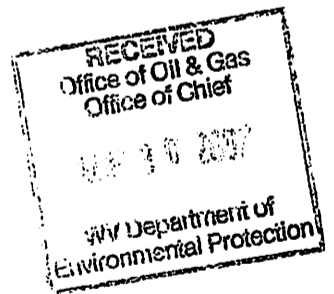
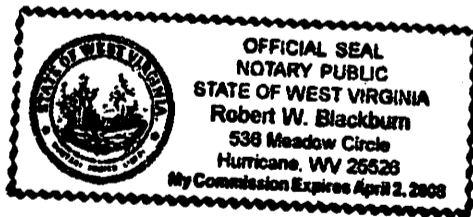
Company Official (Typed Name) Robert L. Blackburn

Company Official Title District Manager

Subscribed and sworn before me this 17th day of August, 2007

Robert W. Blackburn Notary Public

My commission expires 04-02-08



Received 10/25/2013

SEP 23 2013

87-03345 PP/P

LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH 6.0

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs minimum)

Mulch HAY 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
<u>KY-31</u>		<u>35</u>	<u>KY-31</u>		<u>35</u>
<u>LANDING CLOVER</u>		<u>5</u>	<u>LANDING CLOVER</u>		

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

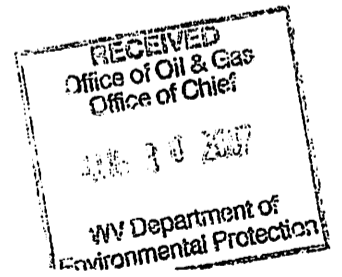
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

Comments: _____

Title: Inspector Date: 8/22/07

Field Reviewed? Yes No



Received 10/25/2013

SEP 23 2013

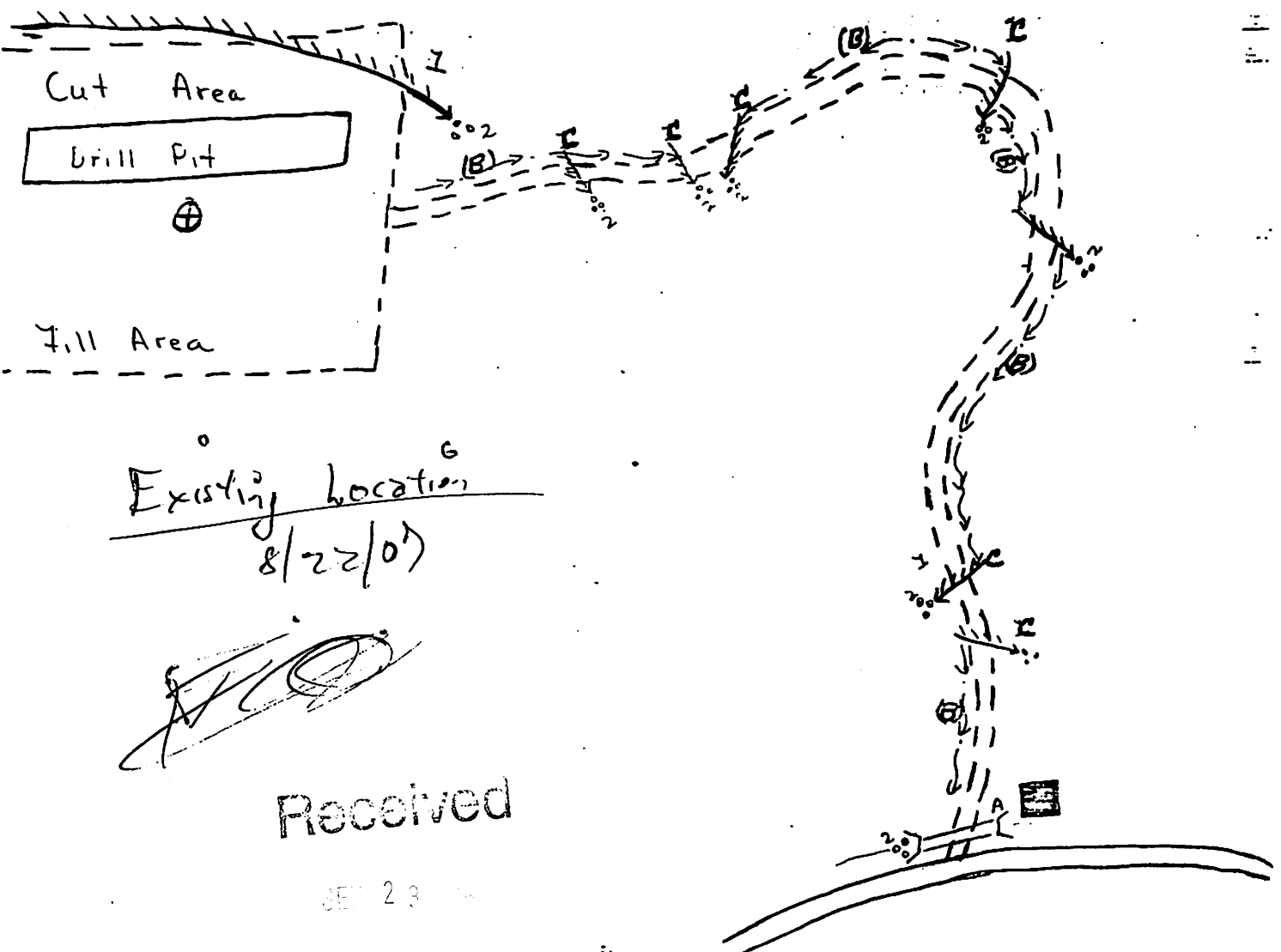
Well Site Plan

87-03345 BPP-F

- Legend:
- Property Boundry
 - Road
 - Existing Fence
 - Planned Fence
 - Stream
 - Open Ditch

- Diversion
- Spring
- Wet Spot
- Building
- Drain Pipe
- Waterway

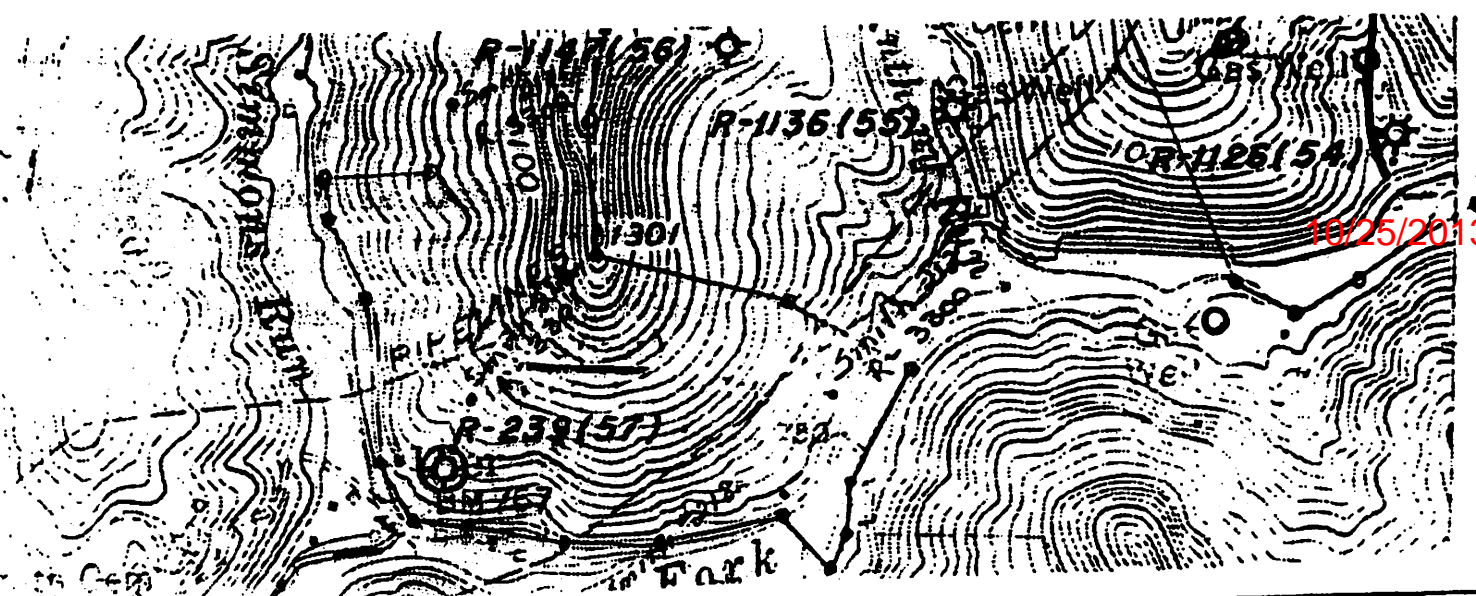
Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



Received

SEP 23

Office of Oil and Gas
WV Dept. of Environmental Protection



10/25/2013