



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 27, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8505247, issued to PATCHWORK OIL & GAS, LLC, 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: 64763 (12724)
Farm Name: THE FORESTLAND GROUP, LLC
API Well Number: 47-8505247
Permit Type: Plugging
Date Issued: 06/27/2014

Promoting a healthy environment.

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 May 12th, 2014
2) Operator's
Well No. O.C Beckner
3) API Well No. 47-085 - 5427

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 x / Gas / Liquid injection / Waste disposal /
(If "Gas, Production or Underground storage) Deep / Shallow

5) Location: Elevation 694 Watershed Buffalo Run
District Grant County Ritchie 2 Quadrangle Petroleum 544

6) Well Operator Patchwork Oil & Gas, LLC 7) Designated Agent Roger L. Whited
Address 8165 Elizabeth Pike Address 8089 Elizabeth Pike
Elizabeth, WV 26143 Elizabeth, WV 26143

8) Oil and Gas Inspector to be notified Name David Cowan
Address 1597 Devil Hole Rd.
Harrisville, WV 26362
9) Plugging Contractor Name Patchwork Oil & Gas, LLC
Address 8165 Elizabeth Pike
Elizabeth, WV 26143

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

Plugging procedure and schematic on next page.

FREEPOINT 4 1/2" CASING
IF CASING IS NOT CEMENTED
TO SURFACE, CUT AT FREEPOINT
AND REMOVE. SET A MINIMUM
OF 100' PLUG (CLASS A) ACROSS THE
4 1/2" CASING CUT.

700' 700'-705'
FRESH WATER & COAL MUST
BE COVERED WITH CEMENT,
MINIMUM PLUG IS 100' OF CLASS
A CEMENT WITH NO MORE THAN
3% CaCl₂ AND NO OTHER ADDITIVES.

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

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MAY 27 2014

Work order approved by inspector David Beckner

Date May 27, 2014
WV Department of
Environmental Protection

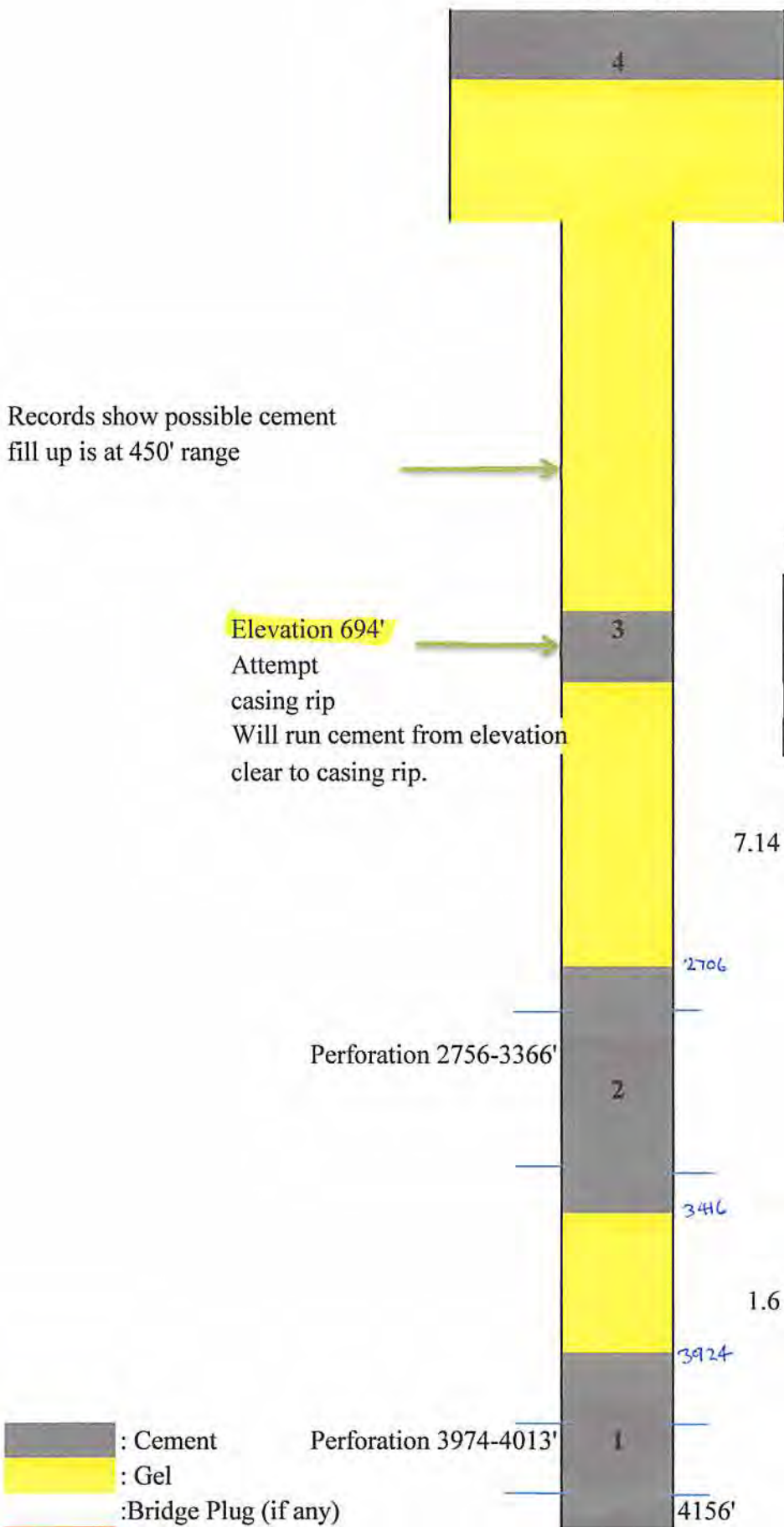
Beckner #1
47-085-05247

Records show possible cement fill up is at 450' range

() 50lb sacks of 6% gel used
(84) 100lb sacks of cement

Elevation 694'
Attempt casing rip
Will run cement from elevation clear to casing rip.

Plugs	
Plug #4	100-surface
Plug #3	650-755 elevation, FRESH WATER AND GEL
Plug #2	2969-3416 2706
Plug #1	3924-4156



7.14

Cement plugs are at a minimum of 100' Class A Cement with no more than 3% CaCl2 and no other additives.

Gel spacers between all cement plugs must be fresh water with at least 6% Bentonite by weight

1.6

: Cement
 : Gel
 : Bridge Plug (if any)

Perforation 3974-4013'

Perforation 2756-3366'

4156'

3924

3416

2706

4

3

2

1

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IV-35
(Rev 8-81)

JAN 7 - 1982

State of West Virginia
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES
Department of Mines
Oil and Gas Division

Date January 5, 1982
Operator's
Well No. 12724
Farm O. C. Beckner
API No. 47 - 085 - 5247

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil x / Gas / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 694' Watershed Buffalo
District: Grant County Ritchie Quadrangle Petroleum

COMPANY Consolidated Gas Supply Corp.
ADDRESS 145 W. Main St., Clarksburg, WV
DESIGNATED AGENT Thomas A. Kuhn
ADDRESS 145 W. Main St., Clarksburg, WV
SURFACE OWNER Westvaco Corp.
ADDRESS 1900 Blizzard Drive, Parkersburg, WV
MINERAL RIGHTS OWNER O. C. Beckner
ADDRESS 522 Reed St., Parkersburg, WV
OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace
ADDRESS Rt. 1, Box 5 Sandridge, WV 25274
PERMIT ISSUED August 7, 1981
DRILLING COMMENCED September 1, 1981
DRILLING COMPLETED September 12, 1981
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11 3/4 13-10	80	80	To surface
9 5/8			
8 5/8	1383	1383	To surface
7			
5 1/2			
4 1/2	4092	4092	545 Sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Ohio Shale (devonian shale) Depth 1721-4256 feet
Depth of completed well 4156 feet Rotary x / Cable Tools
Water strata depth: Fresh 700 feet; Salt 1100 feet
Coal seam depths: 700-705 - see Drillers LOGs coal being mined in the area? x

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth See perforations feet
Gas: Initial open flow N. T. Mcf/d Oil: Initial open flow show Bbl/d
Final open flow 73 Mcf/d Final open flow Est. 5 Bbl/d
Time of open flow between initial and final tests N.A. hours
Static rock pressure N.A. psig (surface measurement) after N.A. hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

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FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforations: 2756-2766 and 2812-2819 with 17 holes.
Well fractured with 140,000# sand, 1000 bbls. 15# gel water & 1500 gals. 15% Hcl.

Perforations: 3019-3023, 3126-3129, 3154-3156, 3160-3164, 3190-3193, 3199-3202, 3216-3226, 3231-3234, 3240-3244, 3250-3254, 3260-3262, 3360-3366 with 48 holes.
Well fractured with 225,000# sand, 1500 bbls. 15# gel water & 2000 gals. 15% Hcl.

Perforations: 3974-3989 and 4010-4013 with 18 holes.
Well fractured with 80,000# sand, 700 bbls. 15# gel water & 500 gals. 15% Hcl.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay-Dirt	Redish Brown		0	10	
Shale & Rock	Brown		10	40	
Shale & Rock	Gray & Brown		40	60	
Shale & Sand	Gray		60	700	Gas 530 smell
Coal	Black		700	705	Water Lots
Sand & Shale	Gray		705	754	
Coal & Shale	Black & Gray		754	780	
Sand & Shale	Gray		780	1050	Hit Oil
Sand, Lime & Coal	White & Black		1050	1290	
Sand & Shale	Gray & White		1290	1310	
Sand & Shale	Gray		1310	1398	
Shale	Gray		1398	4156	
Gamma Ray Tops.					
Coal			827	829	
First Salt			872	891	Fair fluorescence
Second Salt			902	938	Faint fluorescence
Third Salt			1021	1051	Good fluorescence
Big Lime			1056	1145	Water at 1100'
Big Injun			1145	1281	Gas smell at 1200'
Shale			1281	1562	
Weir			1565	1620	Poorly developed-Dry
Sunbruy Shale			1685	1703	
Berea			1703	1721	Poorly Developed-Dry
Devonian Shale			1721	4156	2158' fluorescence show of oil 2200' fluorescence show of oil 2230' fluorescence show of oil 2256' fluorescence show of oil 2766' fluorescence show of oil w/gas 3222' fluorescence show of oil w/gas

(Attach separate sheets as necessary)

Consolidated Gas Supply Corp.
Well Operator
By: *J. E. Dwyne* Manager of Production
Date: January 6, 1982

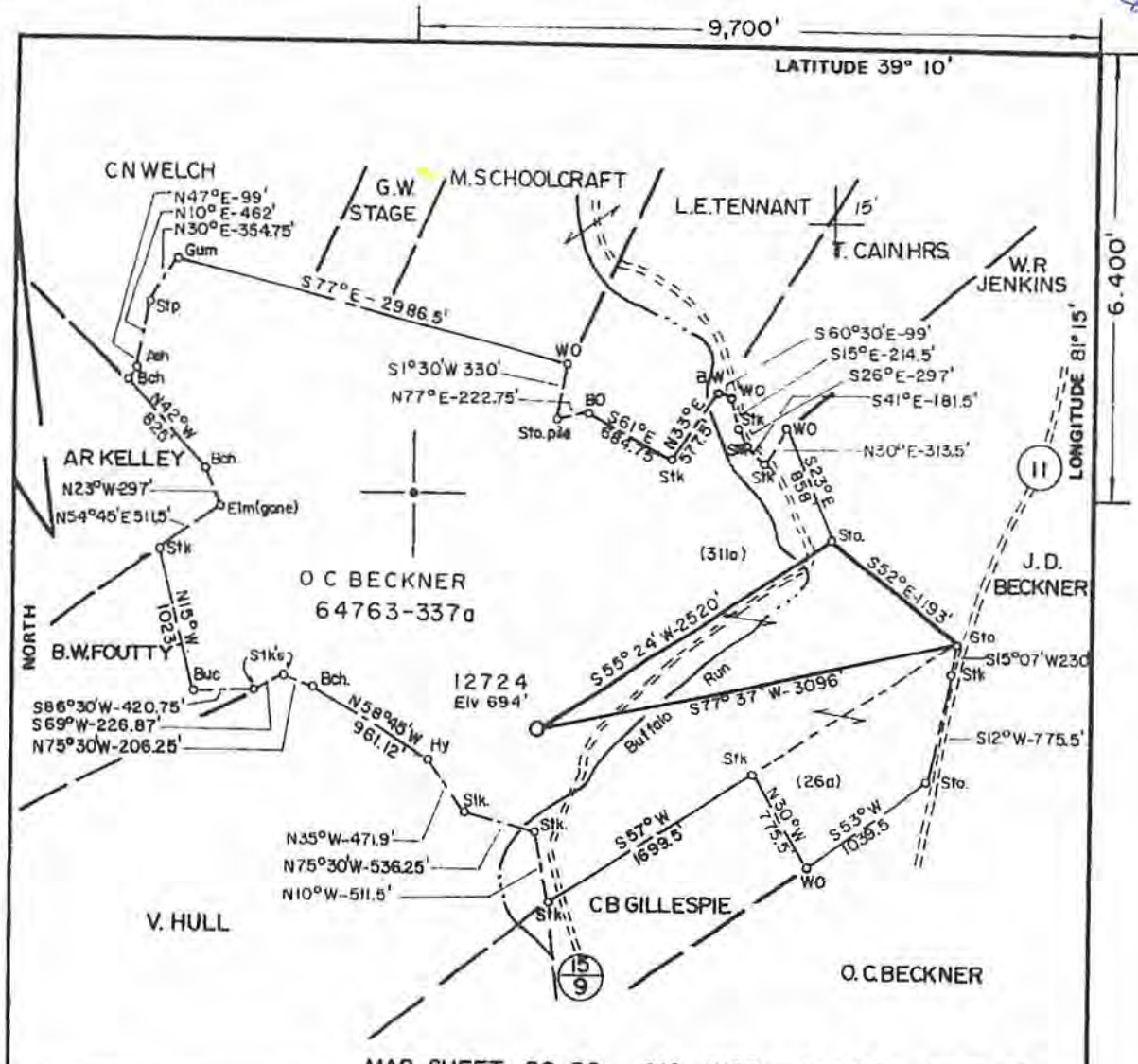
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Environmental Protection

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

8505247A



MAP SHEET 89-90 S19 W38 FB2069 PG 31-34

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1" IN 200
 PROVEN SOURCE OF ELEVATION North of Cisco on Buffalo Run Rd. Fks. Elev. 669'
15 Topo Elizabeth

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) Garrett M. Radcliffe
 R.P.E. _____ L.L.S. 74

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 07-28, 1981
 OPERATOR'S WELL NO. 12724
 API WELL NO. _____
47-085-5247
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION ELEVATION 694' WATER SHED BUFFALO RUN
 DISTRICT GRANT COUNTY RITCHIE
 QUADRANGLE PETROLEUM
 SURFACE OWNER WESTVACO CO. ACREAGE 337
 OIL & GAS ROYALTY OWNER O.C. BECKNER LEASE ACREAGE 337
 LEASE NO. 64763

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MAY 27 014

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

WV Department of Environmental Protection

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION OHIO SHALE ESTIMATED DEPTH 4000'
 WELL OPERATOR CON. GAS SUP CORP. DESIGNATED AGENT THOMAS A. KUHN
 ADDRESS 445 W. MAIN ADDRESS 445 W. MAIN
CLARKSBURG, W.V. 26301 CLARKSBURG, W.V. 26301

WW-4A
Revised 6-07

1) Date: May 12, 2014
2) Operator's Well Number
Beckner

3) API Well No.: 47 - 085 - 5247

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

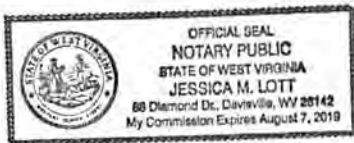
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>The Forestland Group, LLC</u>	Name _____
Address <u>P.O Box 9162</u>	Address _____
<u>Chapel Hill, NC 27515</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>David Cowen</u>	(c) Coal Lessee with Declaration
Address <u>1597 Devil Hole Rd.</u>	Name _____
<u>Harrisville, WV 26362-7543</u>	Address _____
Telephone <u>304-389-3509</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>Patchwork Oil & Gas, LLC</u>
By:	<u>Roger L. Whited</u> <i>Roger L. Whited</i>
Its:	<u>Authorized Member</u> <i>Member</i>
Address	<u>8165 Elizabeth Pike</u>
	<u>Elizabeth, WV 26143</u>
Telephone	<u>304-275-4446</u>

Subscribed and sworn before me this 12 day of May, 2014
J. M. Lott Notary Public **Office of Oil and Gas**
 My Commission Expires August 7, 2019

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 MAY 27 2014

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. This 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.

WV Department of
 Environmental Protection

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

The Forestland Group
 PO Box 9162
 Chapel Hill, NC
 27515

COMPLETE THIS SECTION ON DELIVERY

A. Signature *[Handwritten Signature]* Agent
 Addressee

B. Received by (Printed Name) *JPH Santos* C. Date of Delivery *5/16/14*

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) 7011 1570 0003 5498 8128

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 Patchwork Oil & Gas, LLC OP Code 494466991

Watershed Buffalo Run Quadrangle Petroleum

Elevation 694 County Ritchie District Grant

Description of anticipated Pit Waste: Fluids used and associated with well plugging permit.

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

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 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 *Roger L. White*

Company Official (Typed Name) Roger L. White

Company Official Title Authorized Member

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Office of Oil and Gas
MAY 27 2014

Subscribed and sworn before me this 12 day of May, 20 14

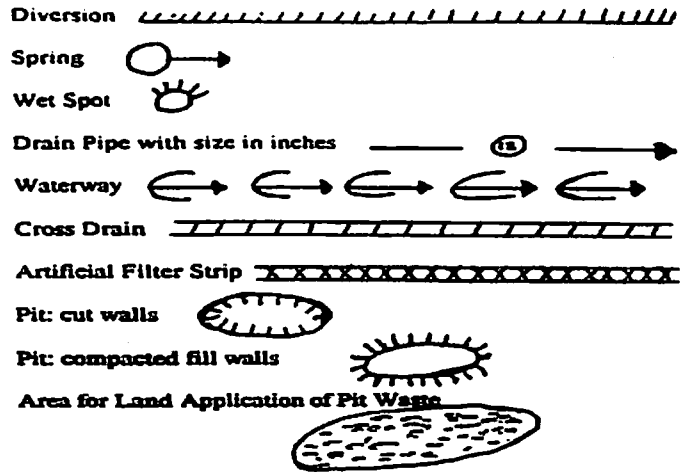
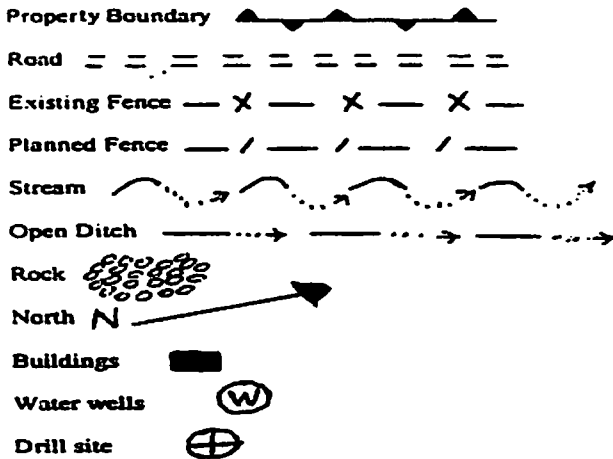
J. M. Lott

WV Department of Environmental Protection
Notary Public

My commission expires August 7, 2019



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) 500 lbs/acre (500 lbs minimum)

Mulch Straw Tons/acre

Seed Mixtures

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

Seed Type	Area II	lbs/acre
Tall Fescue		40
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: *Daniel A. Lawrence*

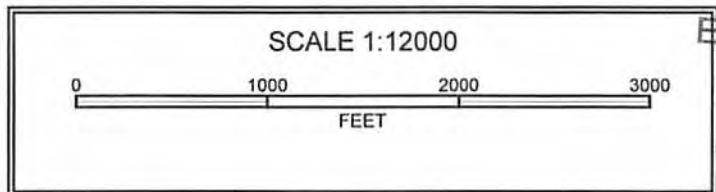
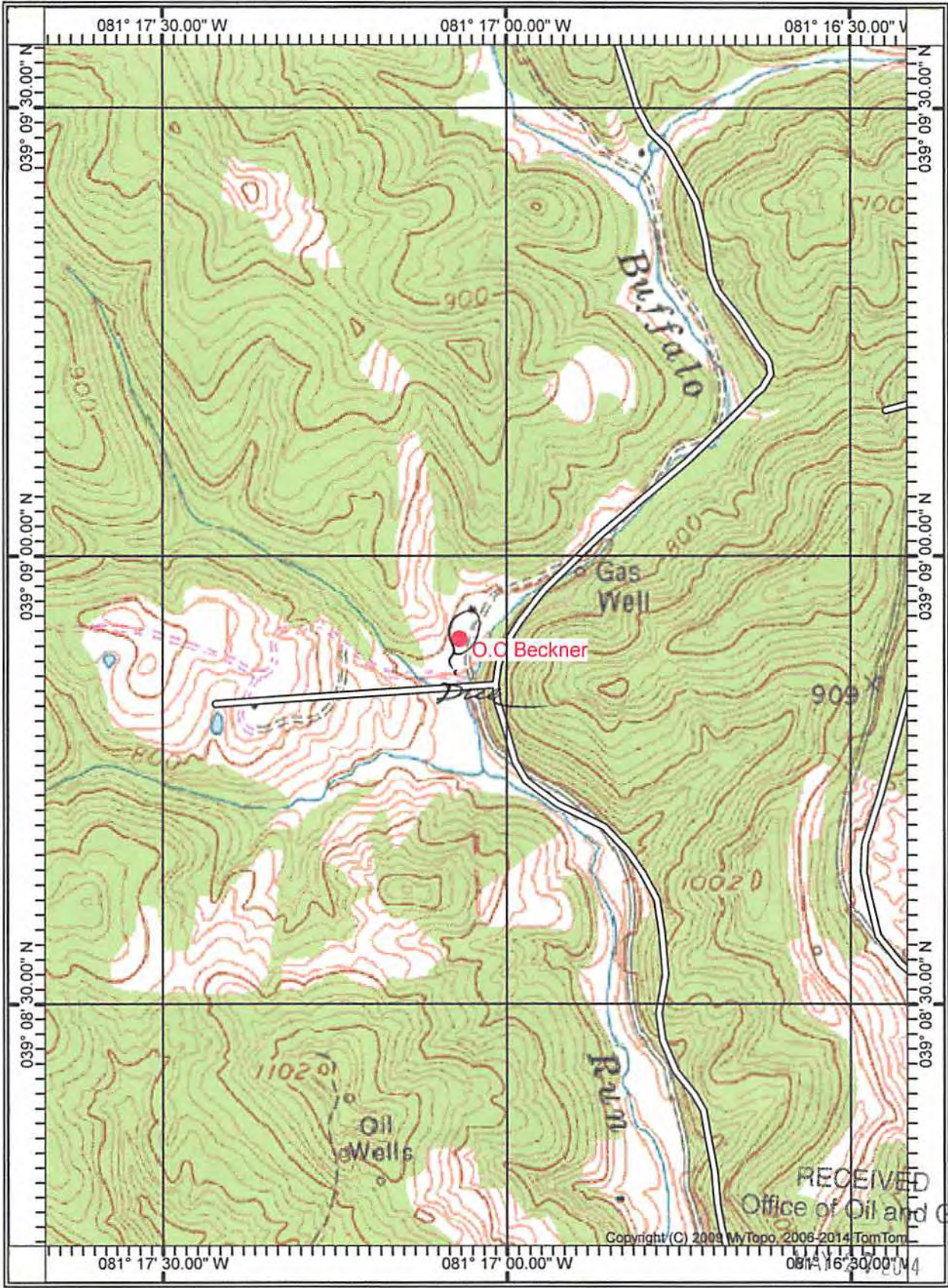
Comments: *return seed & mulch*

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Office of Oil and Gas

Title: *oil & gas inspector* Date: *5-21-14* MAY 27 2014

Field Reviewed? Yes No

WV Department of
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WV Department of Environmental Protection



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

API: 47-085-05247 WELL NO.: 64763
 FARM NAME: O.C. Beckner
 RESPONSIBLE PARTY NAME: Patchwork Oil & Gas, LLC
 COUNTY: Ritchie DISTRICT: Grant ✓
 QUADRANGLE: Petroleum 544
 SURFACE OWNER: The Forestland Group, LLC
 ROYALTY OWNER: James Beckner
 UTM GPS NORTHING: 4333355.8
 UTM GPS EASTING: 475402.1 GPS ELEVATION: 694'

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS XX ; Post Processed Differential XX

Real-Time Differential _____

Mapping Grade GPS _____ ; Post Processed Differential _____

Real-Time Differential _____

- 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.

J. M. Platt
Signature

Office Manager
Title

05/12/2014
Date

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