



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 11, 2013

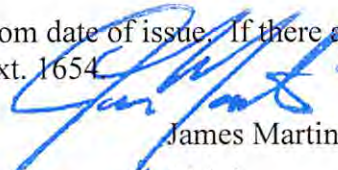
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-500683, issued to ENERGY CORPORATION OF AMERICA, 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: 6
Farm Name: WETHERELL, J. A.
API Well Number: 47-500683
Permit Type: Plugging
Date Issued: 10/11/2013

500683A

WW-4B
Rev. 2/01

1) Date July 31, 2013
2) Operator's
Well No. J.A. Wetherall #6
3) API Well No. 47-005 - 0683

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 ___

5) Location: Elevation 867.53' Watershed Waters of Ellis Fork of North Fork of South Creek
District Washington County Boone Quadrangle Madison

6) Well Operator Energy Corporation of America 7) Designated Agent Rodney A Winters
Address 501 56th St SE Address Same
Charleston, WV 25304

8) Oil and Gas Inspector to be notified Name Ross Eller
Address 121 Brierhill Drive
Beckley, WV 25801
9) Plugging Contractor Name Steve Duckworth Well Service
Address P.O. Box 6871
Charleston, WV 25362

10) Work Order: The work order for the manner of plugging this well is as follows:
Please see next page for details.

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SEP 17 2013

WV Department of
Environmental Protection

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

Work order approved by inspector



Date

9/16/13

10/11/2013

WW-4B
Rev. 2/01

1) Date July 31, 2013
2) Operator's
Well No. J.A. Wetherall #6
3) API Well No. 47-005 - 0683

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

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District Washington 05 County Boone Quadrangle Madison 451

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Address 501 56th St SE Address Same
Charleston, WV 25304

8) Oil and Gas Inspector to be notified Name Ross Eller 9) Plugging Contractor Name Steve Duckworth Well Service
Address 121 Brierhill Drive Address P.O. Box 6871
Beckley, WV 25801 Charleston, WV 25362

10) Work Order: The work order for the manner of plugging this well is as follows:
Fill wellbore with 6% gel to 1365'
Cement Plug #1 will be set from 1365'-1150'. Plug to be 43 sacks of Type 1 Cement.
Cement Plug #2 will be set from casing cut up 100'. Plug to be 30 sacks of Type 1 Cement.
Cement Plug #~~3~~ will be set from 100' to surface. Plug to be 26 sacks of Type 1 Cement.
Will run free point on 7" will pull as much casing as possible.
6% gel will be placed between all plugs.

CEMENT PLUG 3) 375' - 275 TO COVER SALT WATER.
IF 10 3/4" IS PULLED THEN PLUG 3 MUST
BE FROM 375' - 225', TO COVER CASING SEAT.

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SEP 05 2013

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

Work order approved by inspector _____ Date _____

J.A. Wetherell #6 Plugging Plan

Drilling Info:

County: Boone
Lat: 38.00853816
Long: -81.9451668

Start Date: 10/09/1944

Conductor: No record

Surface: Ran 273' of 10-3/4" casing with unknown weight and amount of cement used.

Intermediate: Ran 908' of 8-5/8" casing with unknown weight and amount of cement used.

PULLER

Production: Ran 1198' of 7" casing with unknown weight and amount of cement used.

Fresh Water: 40' ± 220' SALT WATER 3/5'
Gas Shows: 1265'
Oil Shows: None Reported
Salt Sand Top: 695'
Coal: None Reported

Completion Info:

3" Tubing Ran to 1365'
Has conical sleeve (3x6-5/8) set at a depth of 1214'.
Shot from 1330'-1340' and 1360-1370'
Hole filled to depth of 1365'.

Plugging Plan:

MUST TRY TO PULL ALL CASING.

1. Notify Inspector Ross Eller @ 304-932-6844, 24 hr prior to commencing operations.
2. TOOH with tubing. TIH with tubing to 1,365'. FILL WELLBORE W/ 6% GEL TO 1365'
3. Place bottom wellbore plug #1 from 1365'-1150' through 3" tubing. POOH lay down tubing. (Seals off perfs) NO PERFS
4. Cut production casing above TOC. POOH.
5. On way out of hole set plug #2 from depth of casing cut to make a length of 100' above production casing or open hole. Place at least 6 % gel between all plugs.
6. Set plug #3 from 100'-0' inside 8-5/8" intermediate casing.
7. Weld on monument with API number and reclaim.
8. Reclaim location according to WV DEP specifications.

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PLUG 3 FROM 375' - 275' (SALT WATER) IF 10 3/4" CAN NOT BE PULLED.
IF 10 3/4" IS PULLED EXTEND PLUG 3 FROM 375' - 225'
PLUG FROM 100' - 0'

10/11/2013

500683P



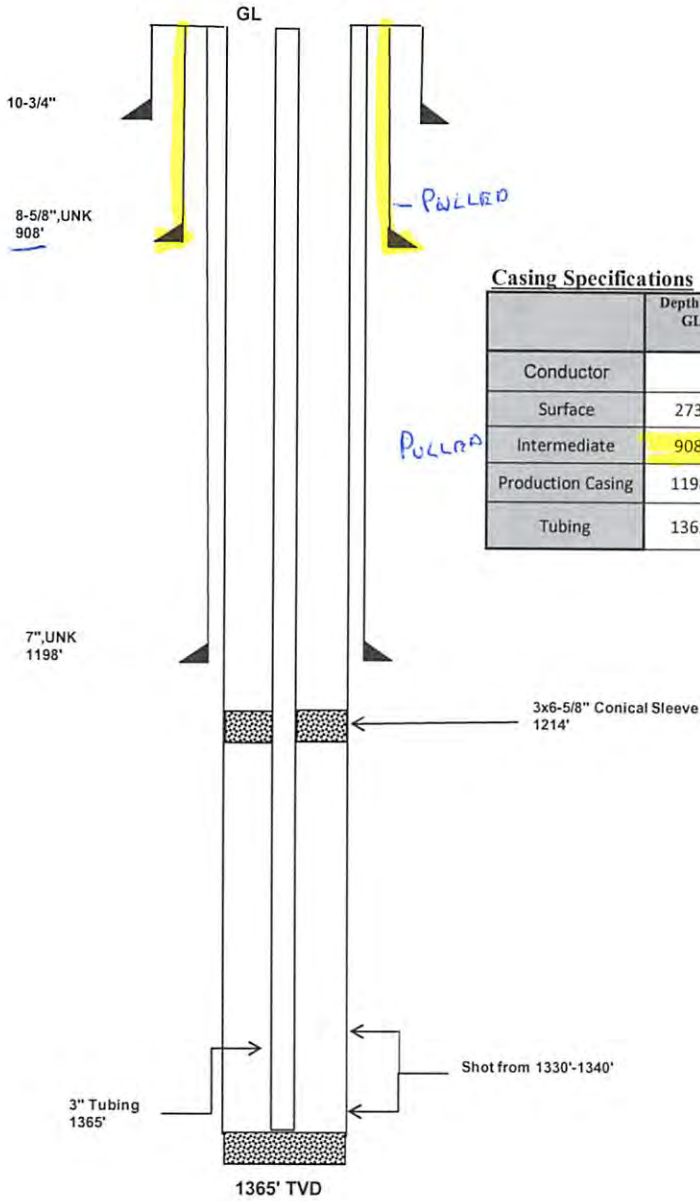
Energy Corporation of America

J.A. Wetherall #6
 47-005-00683
 Boone County, WV
 Current Wellbore

Created by: Trey Porter Date: 05/08/2013

Casing Specifications

	Depth (ft) GL	Casing OD	Casing ID	Casing Drift	Wt/Grade/ Connection	Burst	Collapse	C.Top
Conductor								
Surface	273'	10-3/4"			UNK			UNK
Intermediate	908'	8-5/8"			UNK			UNK
Production Casing	1198'	7"			UNK			UNK
Tubing	1365'	3"			UNK			UNK



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 Protective Services

10/11/2013

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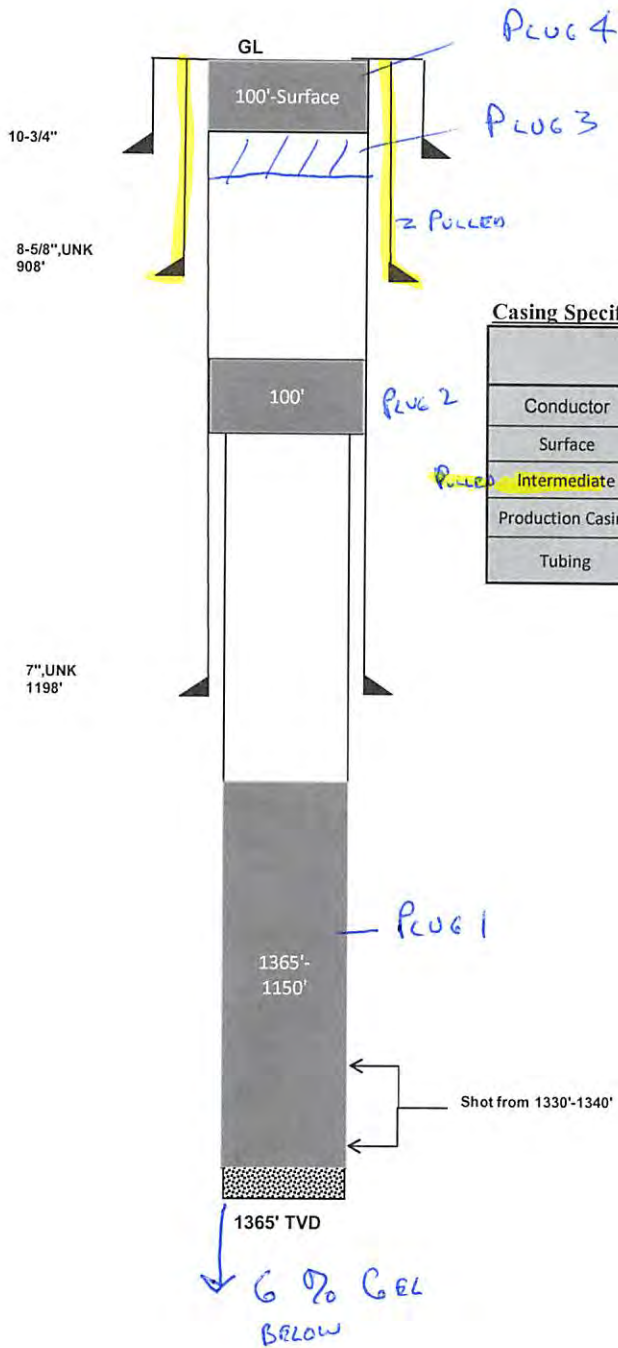
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Production Casing	1198'	7"			UNK			UNK
Tubing	1365'	3"			UNK			UNK



PLUG 3 FROM 375' - 275' TO COVER SALT WATER.
 IF 10 3/4" CASING CAN BE PULLED THEN
 PLUG 3 MUST BE FROM 375-225 TO
 COVER CASING SEPT.

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WV Department of
Energy

10/11/2013



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



W. Edison

WELL RECORD

Permit No. BOO-683

Gas Well Gas

(KIND)

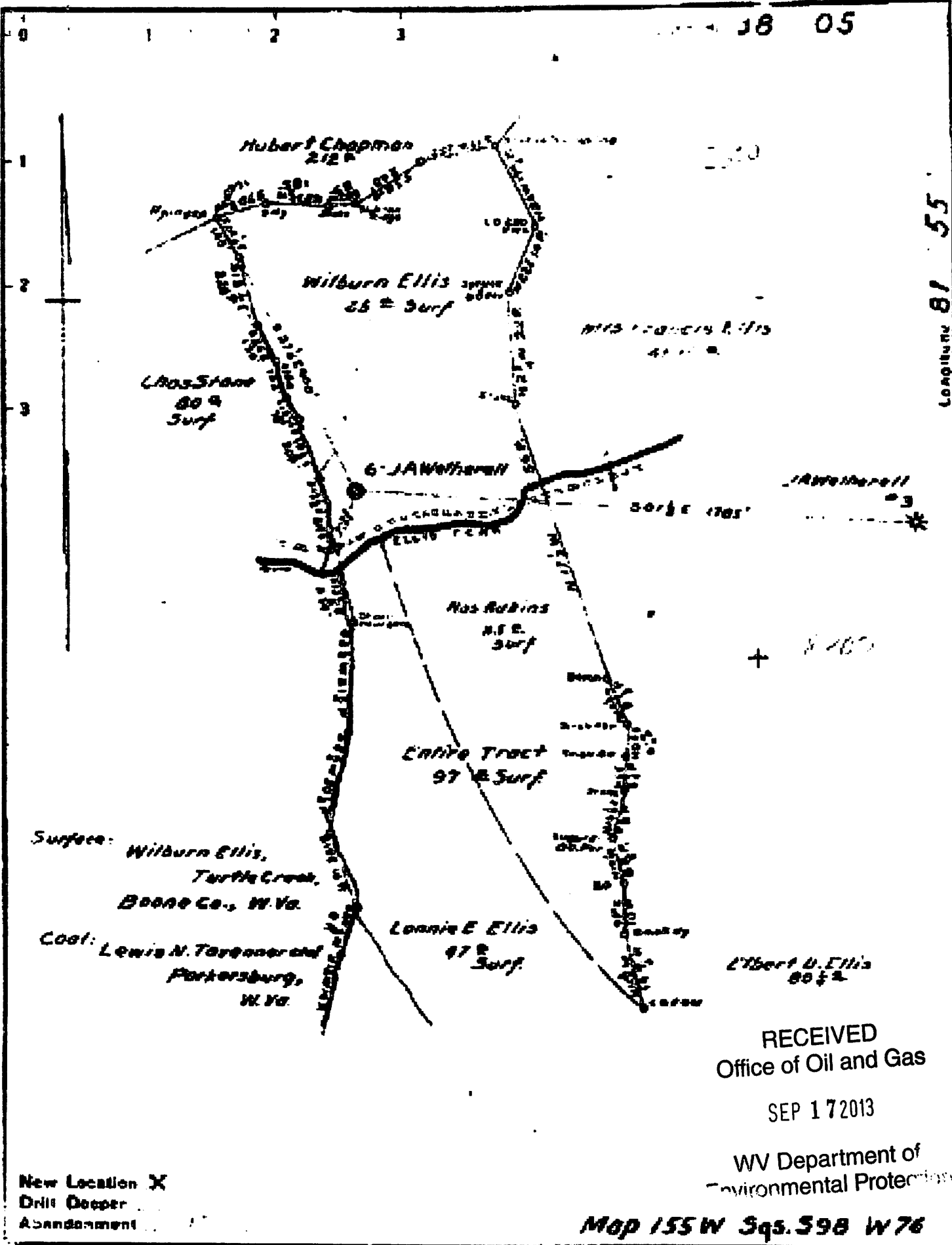
Company South Penn Natural Gas Company,
Address Union Trust Bldg. Parkersburg, W. Va.
Farm J. A. Wetherell Acres 1271
Location (waters) Ellis Fork
Well No. 6 Elev. 867.53
District Washington County Boone
The surface of tract is owned in fee by Wilburn Ellis
Turtle Creek, West Virginia
Mineral rights are owned by Lewis N. Tavenner et al.,
Parkersburg, West Virginia
Drilling commenced October 9, 1944
Drilling completed November 21, 1944
Date Shot 11-27-44 From 1330 To 1370
With 60 Qts Nitroglycerin
Open Flow 12 /10ths Water in 4" Op Inch
 /10ths Merc. in Inch
Volume 581,000 Cu. Ft.
Rock Pressure 365# lbs. 24 hrs.
Oil None bbls., 1st 24 hrs.
~~Flow~~ water 40 feet 220 feet
Salt water 315 feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
18			<u>Conical Sleeve</u>
10-3/4" OD	<u>273</u>	<u>273</u>	Size of <u>3" x 6-5/8" x</u>
8-5/8"	<u>908</u>	<u>Pulled</u>	<u>16</u>
7"	<u>1198</u>	<u>1198</u>	Depth set <u>1214</u>
5 3/16			
3 Tub.	<u>1365</u>	<u>1365</u>	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. Ft. Date
COAL WAS ENCOUNTERED AT None FEET INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay			0	12			
Slate			12	40			
Sand			40	45	Water	40	3 Bailers Hr.
Slate & Shells			45	246			
Lime			246	280	Water	220	5 Bailers Hr.
10-3/4" Casing				273			
1st Salt Sand			280	425			
Slate			425	450	Water	315	Hole Full
Sand			450	483			
Slate			483	500			
Sand			500	550			
Slate & Shells			550	695			
2nd Salt Sand			695	884			
Slate			884	888			
Red Rock			888	905			
Slate & Shells			905	924			
8-5/8" Casing				908			
Red Rock			924	934			
Slate & Shells			934	1008			
Red Rock			1008	1050			
Slate & Shells			1050	1145			
Little Lime			1145	1175			
Pencil Cave			1175	1185			
Black Lime			1185	1195			
Big Lime			1195	1380			
7" Casing				1198			
Slate			1380	1385	Gas	1265	
Total Depth drilled				1385	Gas	1333	
Hole filled to Present Total Depth				1365	Gas	1355	
				1365			

Show 10/11/2013
Total 581 MCF



New Location X
 Drill Cooper
 Abandonment

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 WV Department of
 Environmental Protection

Map 155 W Sqs. 398 W 76

Company South Penn Nat. Gas Co.
 Address Parkersburg, W. Va.
 Farm J.A. Wetherell
 Tract Acres 1271 Lease No. 20090
 Well (Farm) No. 6 Serial No. _____
 Elevation (Spirit Level) 867.53
 Quadrangle Madison
 County Boone District Washington
 Engineer E.C. Tabler
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date 9-13-44 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. 800-689

✦ Denotes location of well on United States
 Topographic Maps, scale 1 to 62,500, lat-
 itude and longitude lines being represented
 by border lines as shown.

— Denotes one inch spaces on border lines
 of original tracing

✓

5 00683P

WW-4A
Revised 6-07

1) Date: 07/31/2013
2) Operator's Well Number
J.A. Welherall

3) API Well No.: 47 - 005 - 0683

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>Johnny Berry</u>	Name	<u>Freal Mize</u>
Address	<u>45 Ellis Fork Rd</u> <u>Chapmanville, WV 25508</u>	Address	<u>P.O. Box 271</u> <u>Julian WV, 25529</u>
(b) Name	_____	(b) Coal Owner(s) with Declaration	✓
Address	_____	Name	<u>Freal Mize</u>
(c) Name	_____	Address	<u>P.O. Box 271</u> <u>Julian WV, 25529</u>
Address	_____	Name	_____
6) Inspector	✓	(c) Coal Lessee with Declaration	
Name	<u>Ross Eller</u>	Name	_____
Address	<u>121 Brierhill Drive</u> <u>Beckley, WV 25801</u>	Address	_____
Telephone	<u>304-932-6844</u>	Address	_____

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 Energy Corporation of America

By: Rodney A Winters *R.A.W.*

Its: VP of Land

Address 501 56th St SE
Charleston, WV 25304

Telephone 304-925-6100

Subscribed and sworn before me this 28 day of August, 2013

Michele Lambertus Weber Notary Public

My Commission Expires April 19, 2021

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Office of Oil & Gas
SEP 05 2013

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.

10/11/2013

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 Energy Corporation of America OP Code 014980

Watershed Waters of Ellis Fork of North Fork of Big Creek Quadrangle Madison

Elevation 867.53' County Boone District Washington

Description of anticipated Pit Waste: Fresh Water 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 _____)
- 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 [Signature]

Company Official (Typed Name) Rodney A Winters

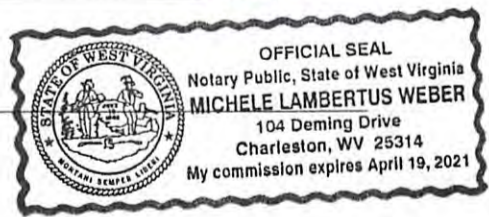
Company Official Title Vice President of Land

Subscribed and sworn before me this 28 day of August, 2013

[Signature]

Notary
Notary Public

My commission expires April 19, 2021



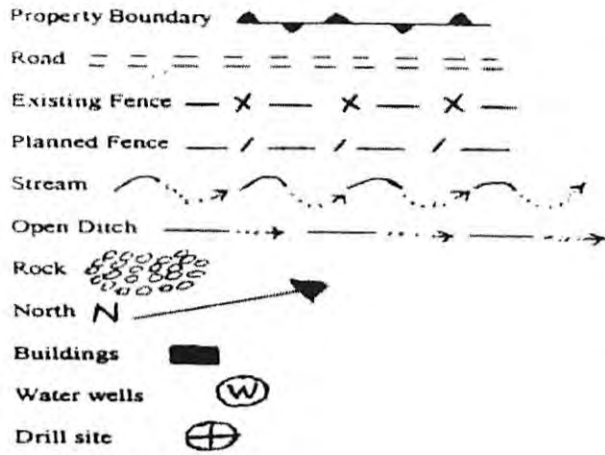
COPY

10/11/2013

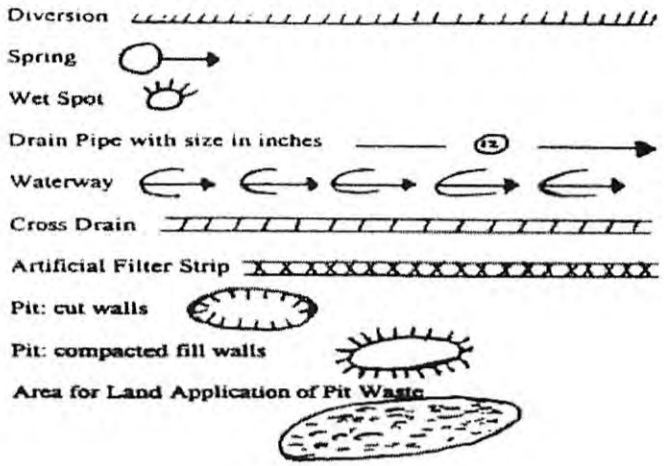
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Office of Oil and Gas

SEP 17 2013

WV Department of
Environmental Protection



LEGEND



Proposed Revegetation Treatment: Acres Disturbed .5 Prevegetation pH _____

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 2 Tons/acre

Seed Mixtures

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

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Russell

Comments: _____

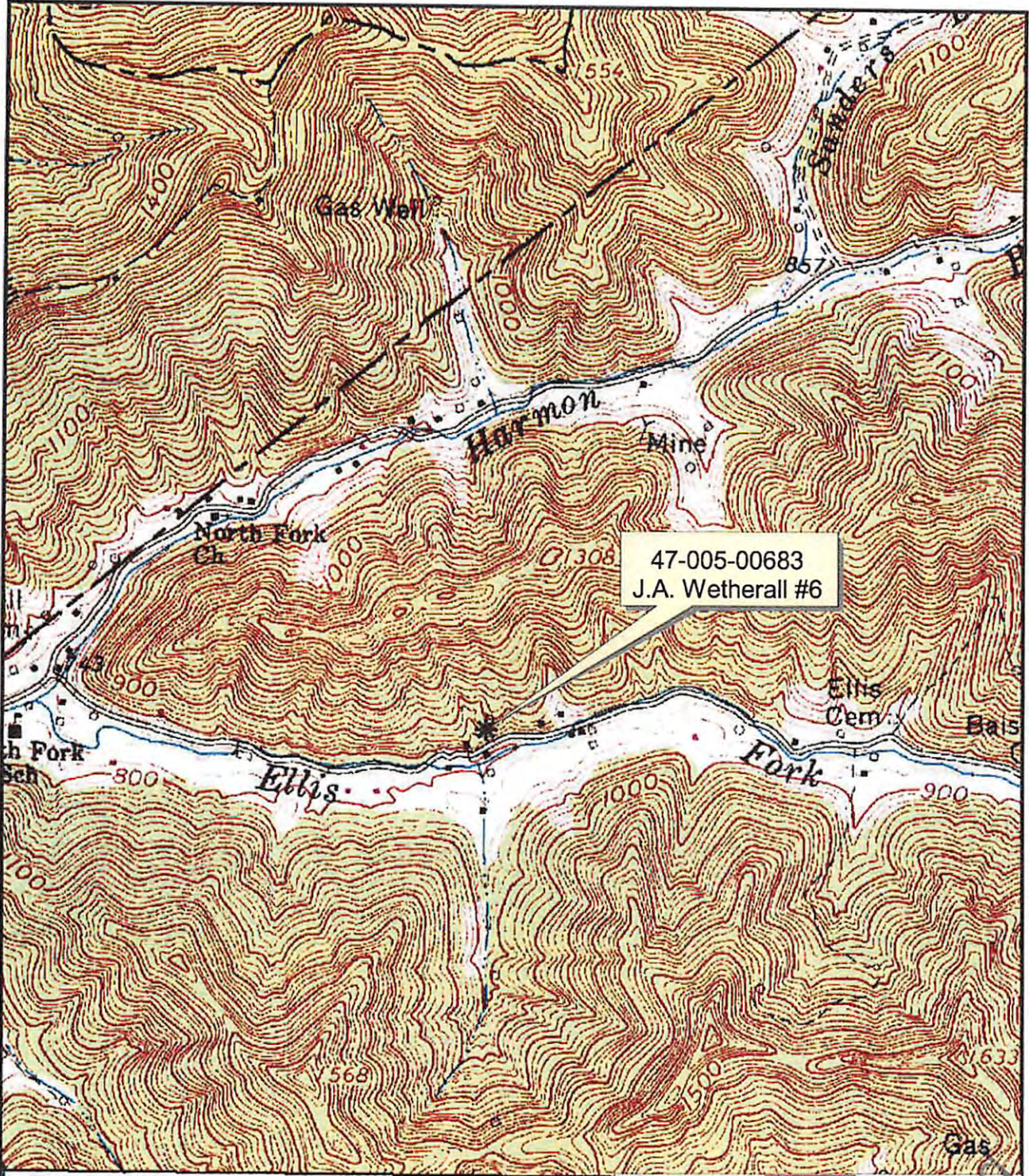
Title: D-14 Contingency Date: 9/16/13

Field Reviewed? () Yes () No

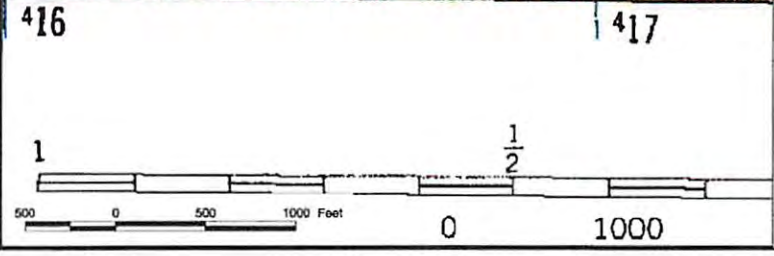
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SEP 17 2013
10/11/2013

WV Department of
Environmental Protection



47-005-00683
J.A. Wetherall #6



ECA
Energy Corporation of America
Well Location Map

Scale: 1:12000
Date: 09/10/2013

Projection: UTM - 1927
Zone 17
Author:

Received
SEP 10 2013
Office of Oil and Gas
Dept. of Environmental Protection

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-005-0683 WELL NO.: 6

FARM NAME: J.A. Wetherall

RESPONSIBLE PARTY NAME: Energy Corporation of America

COUNTY: Boone DISTRICT: Washington

QUADRANGLE: Madison

SURFACE OWNER: Johnny Berry

ROYALTY OWNER: Greenbrier Land co. and Sallie Hathaway Agent

UTM GPS NORTHING: 4,207,194.82

UTM GPS EASTING: 417,039.05 GPS ELEVATION: 270 867 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 : Post Processed Differential

Real-Time Differential

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.

Alto Faltus
Signature

Drilling Engineer
Title

9-10-13
Date