



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

May 05, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-2105768, 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.

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: FULTON #19
Farm Name: FULTON, I.L. HEIRS, ET AL
API Well Number: 47-2105768
Permit Type: Vertical Well
Date Issued: 05/05/2014

Promoting a healthy environment.

05/09/2014

PERMIT CONDITIONS

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

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.

CK-357419
 65000 2105768

WW - 2B
 (Rev. 8/10)

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

3 372

1) Well Operator: Energy Corporation of America 306345 Gilmer Glenville Glenville 7.5
 Operator ID County District Quadrangle

2) Operator's Well Number: Fulton #19 3) Elevation: 1130'

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

5) Proposed Target Formation(s): Speechley, Warren, Gordon, Big Injun, Big Lime Proposed Target Depth: 3280'

6) Proposed Total Depth: 3,450' Feet Formation at Proposed Total Depth: Speechley

7) Approximate fresh water strata depths: None reported in offset wells

8) Approximate salt water depths: None reported in offset wells

9) Approximate coal seam depths: 448',472'

10) Approximate void depths,(coal, Karst, other): None reported in offset wells

11) Does land contain coal seams tributary to active mine? No

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

Drill and complete a Vertical Well as follows: After setting and cementing the surface casing string using Type 1 and or an approved light cement, operator will drill to approximately 3450' and run production casing. Multiple formations will be foam fraced depending well log analysis. Cement will be placed above the shallowest known producing horizon and will be verified by bond log.

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 /38"	LS,R3	43.6#	40'	40'	NA
Fresh Water						
Coal	7"	LS,R3	16#	550'	550'	CTS
Intermediate						
Production	4 1/2"	WT65,R3	9.5#	3450'	3450'	320
Tubing						
Liners						

Redeem O'Hara 3-24-14

RECEIVED
 Office of Oil and Gas

APR 01 2014

Packers: Kind: _____
 Sizes: _____
 Depths Set _____

WV Department of
 Environmental Protection

05/09/2014

WW-2A
(Rev. 6-07)

1.) Date: March 3, 2014
2.) Operator's Well Number Fulton #19
State 47- County - Permit -
3.) API Well No.: 47- - -

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 I.L. Morris ✓ Address P.O. Box 397
Glenville, WV 26351
(b) Name Smith Land Company LLC ✓ Address P.O. Box 150
Glenville, WV 26351
(c) Name _____ Address _____
6) Inspector Bryan Harris ✓ Address P.O. Box 157
Volga, WV 26238 Telephone 304-553-6087

5) (a) Coal Operator
Name _____ Address _____
(b) Coal Owner(s) with Declaration
Name _____ Address _____
(c) Coal Lessee with Declaration
Name _____ Address _____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

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

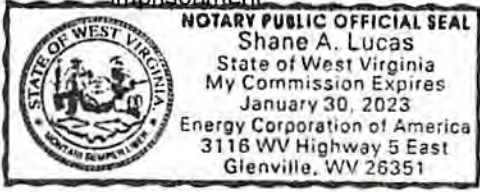
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by:

- Personal Service (Affidavit attached)
- x 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 Energy Corporation of America
By: Rodney A. Winters *[Signature]*
Its: Vice President of Land
Address 501 56th Street SE
Charleston, WV 25304
Telephone 304-925-6100

Subscribed and sworn before me this 31 day of MARCH, 2014

[Signature] Notary Public
My Commission Expires January 30, 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

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WV Department of Environmental Protection
05/09/2014

2405768

7012 2920 0000 6497 2278

U.S. Postal Service
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.61
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.61

Postmark
Here

Sent To **BRYAN HARRIS FULTON 19**

Street, Apt. No.,
or PO Box No.

City, State, ZIP+4

PS Form 3800, August 2006

See Reverse for Instructions

RECEIVED
Office of Oil and Gas

APR 11 2014

U.S. 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:

HARRIS, BRYAN
P.O. BOX 157
VOLGA, WV 26238

2. Article Number

(Transfer from service label)

7012 2920 0000 6497 2278

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

2105768



7012 2920 0000 6497 2278



REC'D
Office of
APR 01
Volga, WV
Environmental



Energy Corporation of America
501 56th Street
Charleston, West Virginia 25304

BRYAN HARRIS
P.O. BOX 157
VOLGA, WV 26238

FIRST CLASS MAIL

2105768

7012 2920 0000 6497 4708

U.S. POSTAL SERVICE™
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OFFICIAL USE

Postage	\$ 1.40	Postmark Here
Certified Fee	3.30	
Return Receipt Fee (Endorsement Required)	2.70	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 7.40	

Sent To **IL MORRIS FULTON 19**

Street, Apt. No.,
or PO Box No.

City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

RECEIVED
 Office of Oil and Gas
 APR 01 2014
 U.S. Department of
 Energy

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> 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. 	<p>A. Signature <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MORRIS, IL PO BOX 397 ✓ GLENVILLE, WV 26351</p> </div>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input checked="" type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number (Transfer from service label)</p> <p>7012 2920 0000 6497 4708</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>

2405768

CERTIFIED MAIL™



7012 2920 0000 6497 4708



UNITED STATES POSTAGE
PITNEY BOWES
02 1P
0003207208 MAR 31 2014
\$ 007.40⁰
MAILED FROM ZIP CODE 25304

U.S. DEPARTMENT OF JUSTICE
Office of Civil Rights
A.R. 01
U.S. Postal Service
Environmental



Energy Corporation of America
501 56th Street
Charleston, West Virginia 25304

I.L. MORRIS
PO BOX 397
GLENVILLE, WV 26351

FIRST CLASS MAIL

2105768

7012 2920 0000 6497 4487

CERTIFIED MAIL™ RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

Postage	\$ 1.40	Postmark Here
Certified Fee	3.30	
Return Receipt Fee (Endorsement Required)	2.70	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 7.40	

Sent To SMITH LAND FULTON 19

Street, Apt. No.,
or PO Box No.

City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

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:

SMITH LAND COMPANY LLC
PO BOX 150 ✓
GLENVILLE, WV 26351

2. Article Number

(Transfer from service label)

7012 2920 0000 6497 4487

PS Form 3811, February 2004

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

Domestic Return Receipt

102595-02-M-1540



7012 2920 0000 6497 4487



UNITED STATES POSTAGE
PITNEY BOWES
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\$ 007.40⁰
0003207208™ MAR 31 2014
MAILED FROM ZIP CODE 25304

Recycling
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Environment



Energy Corporation of America
501 56th Street
Charleston, West Virginia 25304

SMITH LAND COMPANY LLC
PO BOX 150
GLENNVILLE, WV 26351

FIRST CLASS MAIL

2105768

WW-2A1
(Rev. 1/11)

Operator's Well Number Fulton #19

**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
F. D. Fulton	Equitable Gas Co.	1/8	73/71
Farmout From Equitable Gas Co.	To EAE DBA ECA	1/8	281/375

**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

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Office of Oil and Gas

APR 25 2014

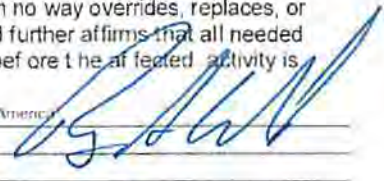
WV Department of Environmental Protection

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.

State of West Virginia
County of Kanawha, to wit:

Well Operator:
By: Its:

Energy Corporation of America
Rodney A. Winters
Vice President of Land



On this the 25th day of April, 2014, before me, the undersigned officer, personally appeared Rodney A. Winters, who acknowledged himself to be Vice President of Land of Energy Corporation of America, a West Virginia corporation, and that he is authorized to do so, executed the foregoing instrument for the purpose therein contained by signing the name of the corporation. In witness whereof, I hereunto set my hand and official seal. My commission expires March 11, 2022.



Antoinette Rutledge
Notary Public

05/09/2014



Certificate

I, Natalie E. Tennant, Secretary of State of the State of West Virginia, hereby certify that

by the provisions of the West Virginia Code, Articles of Merger were received and filed,
MERGING EASTERN AMERICAN ENERGY CORPORATION, A QUALIFIED WV ORGANIZATION, WITH AND INTO
ENERGY CORPORATION OF AMERICA, A QUALIFIED WV ORGANIZATION.

Therefore, I hereby issue this

CERTIFICATE OF MERGER

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Office of Oil and Gas

APR 25 2014

WV Department of
Environmental Protection

*Given under my hand and the
Great Seal of the State of
West Virginia on this day of
December 22, 2009*



Natalie E. Tennant

Secretary of State

WW-2B1
(5-12)

Well No. Fulton 19

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	<u>Reliance Labs</u>
Sampling Contractor	<u>Smith Land Surveying, Inc. - Environmental Division</u>

Well Operator	<u>Energy Corporation of America</u>
Address	<u>501 56th Street S.E.</u>
	<u>Charleston, WV 25304</u>
Telephone	<u>304-925-6100</u>

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.

NOTE: There appears to be 3 +/- potable water sources within 1,500', therefore tests will be offered and samples taken as required.

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WV Department of
Environmental Protection 05/09/2014

2105768

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Office of Oil and Gas

MAY 5 2014

WV Department
Environmental Protection



WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

OPERATOR: Energy Corporation of America
LEASE NAME AND NUMBER: Fulton Lease Well No. 19

COMMENTS

The initial field and/or mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1500' of the proposed well site. (For location of each site see attached area map.)

INDIVIDUAL CONTACTED OR NOTIFIED

* Site: 1 Spacing 1596' Owner/Occupant: Nelson Reed
Address: 957 F Mineral Rd. Glenville, WV 26351 Ph: (304) 462-5330
Field Contact Date: 3/27/14 Located: Yes Date Located: 3/27/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 4/25/14
Comments: Tax Map 10 Parcel 5.5 and Parcel 5.2 Also listed as a Co owner of Tax Map 4 Parcel 7
LAT: 38°56'29.5"
LONG: 80°47'52.6"

Site: 2 Spacing _____ Owner/Occupant: Norman & Sharon Anderson
Address: 2230 Sycamore Run Rd. Glenville, WV 26351 Ph: (304) 462-8224
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st 3/27/14 2nd 4/1/14 Certified (3rd) 4/25/14
Comments: Tax Map 4 Parcel 8.1 Also Tax Map 10 Parcel 6

* Site: 3 Spacing 2024' Owner/Occupant: Eva Stout
Address: 2410 Sycamore Rd. Glenville, WV 26351 Ph: (304) 462-8063
Field Contact Date: 4/1/14 Located: Yes Date Located: 4/1/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 3/27/14 2nd N/A Certified (3rd) N/A
Comments: Tax Map 4 Parcel 8
LAT: 38°57'54.3"
LONG: 80°49'08.9"

Site: 4 Spacing _____ Owner/Occupant: Shelly Demarino
Address: 117 Mahogany Ln Glenville, WV 26351 Ph: Office (304) 462-8170
Field Contact Date: 3/28/14 Located: No Date Located: N/A Source: Unknown
If No, declined by who Shelly Demarino Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A
Comments: Tax Map 10 Parcel 11.1

05/09/2014

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Office of Oil and Gas

MAY 5 2014

WV DEP. OF ENVIRONMENT & NATURAL RESOURCES
Environmental Protection Division

Site: 5 Spacing N/A Owner/Occupant: I.L. Morris
Address: P.O. Box 397 Glenville, WV 26351 Ph: (304) 462-5741
Field Contact Date: 4/9/14 Located: No Date Located: N/A Source: Unknown
If No, declined by who I.L. Morris Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A
Comments: Tax Map 10 Parcel 3-4 also Parcel 7.1
Signed letter of refusal 4/9/14

Site: 6 Spacing N/A Owner/Occupant: Waco Oil & Gas Co. Inc.
Address: P.O. Box 397 Glenville, WV 26351 Ph: (304) 462-5741
Field Contact Date: 4/9/14 Located: No Date Located: N/A Source: Unknown
If No, declined by who I.L. Morris Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A
Comments: Tax Map 10 Parcel 7
Signed letter of refusal 4/9/14

* Site: 7 Spacing 1647' Owner/Occupant: Eva Stout
Address: 2410 Sycamore Rd. Glenville, WV 26351 Ph: (304) 462-8063
Field Contact Date: 4/1/14 Located: Yes Date Located: 4/1/14 Source: Pond
If No, declined by who _____ Letter/Notice Date: 1st 3/27/14 2nd N/A Certified (3rd) N/A
Comments: Tax Map 4 Parcel 8
LAT: 38°57'51.4"
LONG: 80°49'04.9"

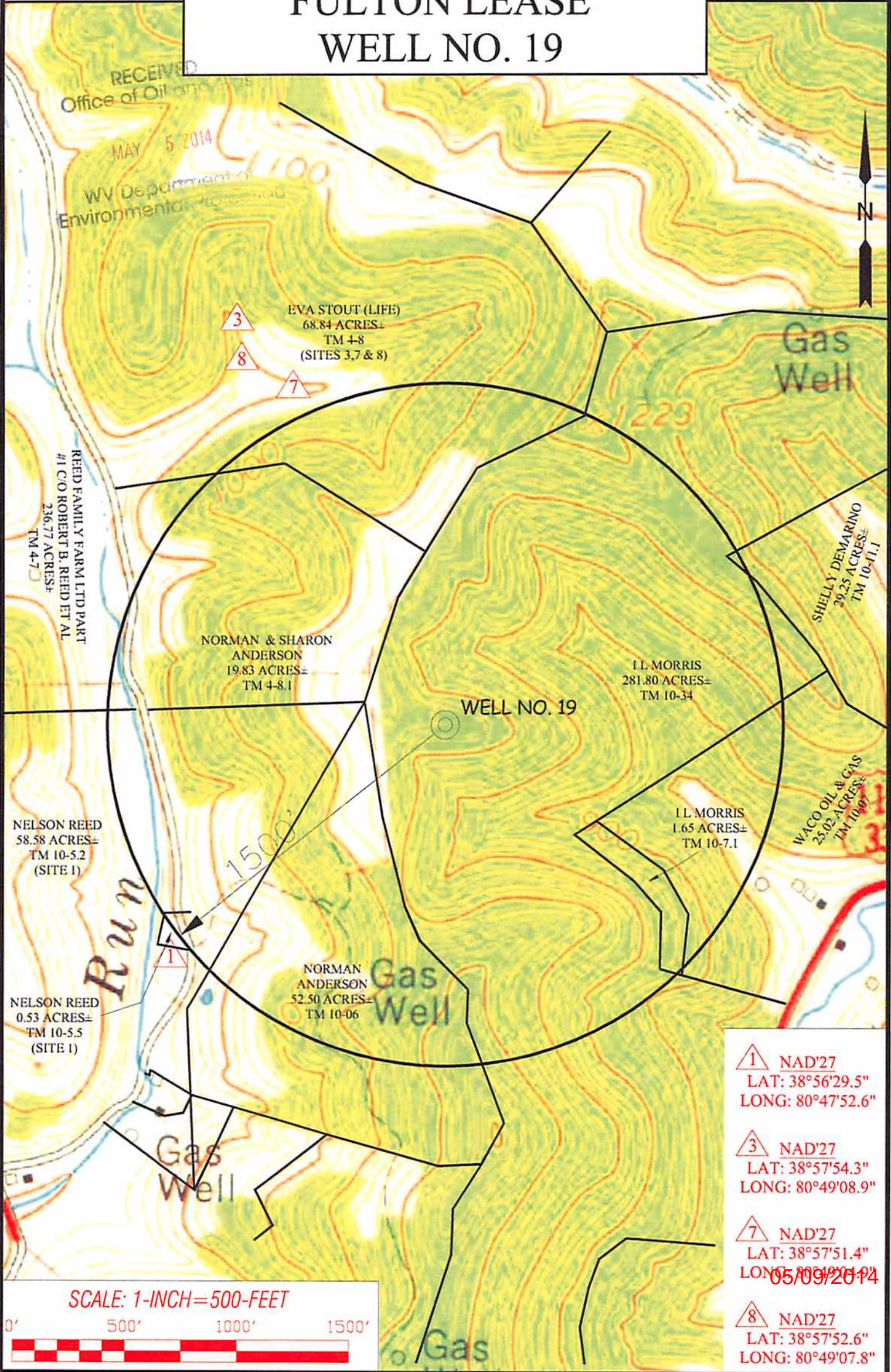
* Site: 8 Spacing 1861' Owner/Occupant: Eva Stout
Address: 2410 Sycamore Rd. Glenville, WV 26351 Ph: (304) 462-8063
Field Contact Date: 4/1/14 Located: Yes Date Located: 4/1/14 Source: Pond
If No, declined by who _____ Letter/Notice Date: 1st 3/27/14 2nd N/A Certified (3rd) N/A
Comments: Tax Map 4 Parcel 8
LAT: 38°57'52.6"
LONG: 80°49'07.8"

Site: 9 Spacing N/A Owner/Occupant: Robert Reed (Reed Family Farm)
Address: 109 Johnston St. Glenville, WV 26351 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 4/25/14
Comments: Tax Map 4 Parcel 7

Site: 10 Spacing _____ Owner/Occupant: _____
Address: _____ Ph: _____
Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
Comments: _____

05/09/2014

FULTON LEASE WELL NO. 19



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Office of Oil and Gas
MAY 5 2014
WV Department of
Environmental Protection

3 EVA STOUT (LIFE)
68.84 ACRES±
TM 4-8
8 (SITES 3, 7 & 8)
7

Gas Well

SHELLY DEMARINO
29.25 ACRES±
TM 10-11.1

NORMAN & SHARON
ANDERSON
19.83 ACRES±
TM 4-8.1

I.L. MORRIS
281.80 ACRES±
TM 10-34

WELL NO. 19

NELSON REED
58.58 ACRES±
TM 10-5.2
(SITE 1)

I.L. MORRIS
1.65 ACRES±
TM 10-7.1

WACO OIL & GAS
25.02 ACRES±
TM 10-07

NELSON REED
0.53 ACRES±
TM 10-5.5
(SITE 1)

NORMAN
ANDERSON
52.50 ACRES±
TM 10-06

Gas Well

Gas Well

Gas Well

1 NAD'27
LAT: 38°56'29.5"
LONG: 80°47'52.6"

3 NAD'27
LAT: 38°57'54.3"
LONG: 80°49'08.9"

7 NAD'27
LAT: 38°57'51.4"
LONG: 80°49'07.8"
05/09/2014

8 NAD'27
LAT: 38°57'52.6"
LONG: 80°49'07.8"

SCALE: 1-INCH=500-FEET



Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING

SURVEYING PROJECT MGMT ENGINEERS ENVIRONMENTAL

SLS

1010 1st Ave SW
Martinsburg, WV 25401
(304) 462-9634

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Martinsburg, WV 25401
(304) 462-9634

DRAWN BY: K.D.W. FILE NO: 8157 DATE: 04/29/14 CADD FILE: 8157WS19TM.DWG

TOPO SECTION OF:
GLENVILLE, WV 7.5' QUAD.

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
GLENVILLE	GILMER	10-34

OPERATOR:
ENERGY CORPORATION OF AMERICA
501 56TH STREET S.E.
CHARLESTON, WV 25304

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Energy Corporation of America OP Code 306345

Watershed (HUC 10) Little Kanawha River Quadrangle Glennville 7.5

Elevation 1134" County Gilmer District Glennville

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

Will a pit be used for drill cuttings? Yes x No _____

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes x No _____ If so, what ml.? 30

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 _____)

Will closed loop system be used? x

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

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

Additives to be used in drilling medium? Soap and Klastay

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

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) cement/ lime

-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 [Signature]

Company Official (Typed Name) Rodney A. Winters

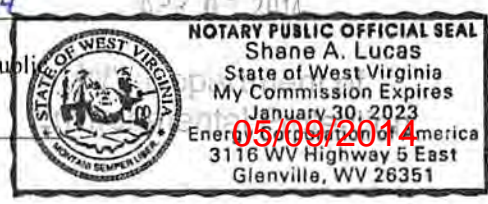
Company Official Title Vice President of Land

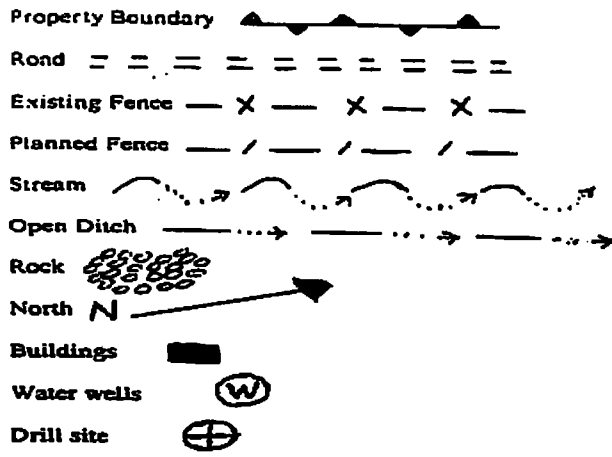
RECEIVED
Office of Oil and Gas

Subscribed and sworn before me this 31 day of MARCH, 2014

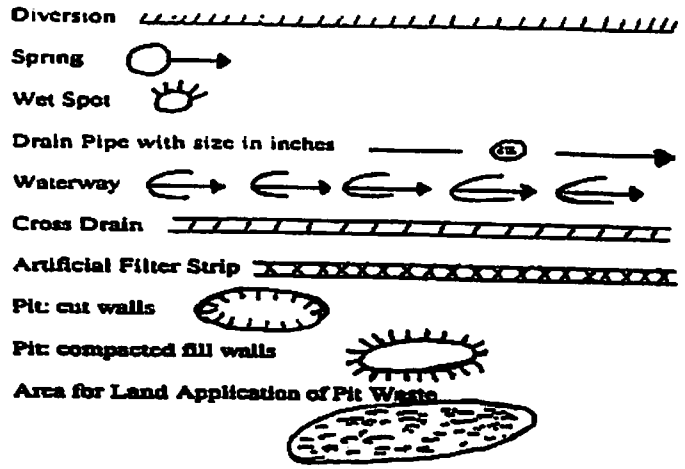
[Signature] Notary Public

My commission expires January 30, 2023





LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.1 ± Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch HAY 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
KY-31	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		

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

Photocopied section of involved 7.5' topographic sheet.

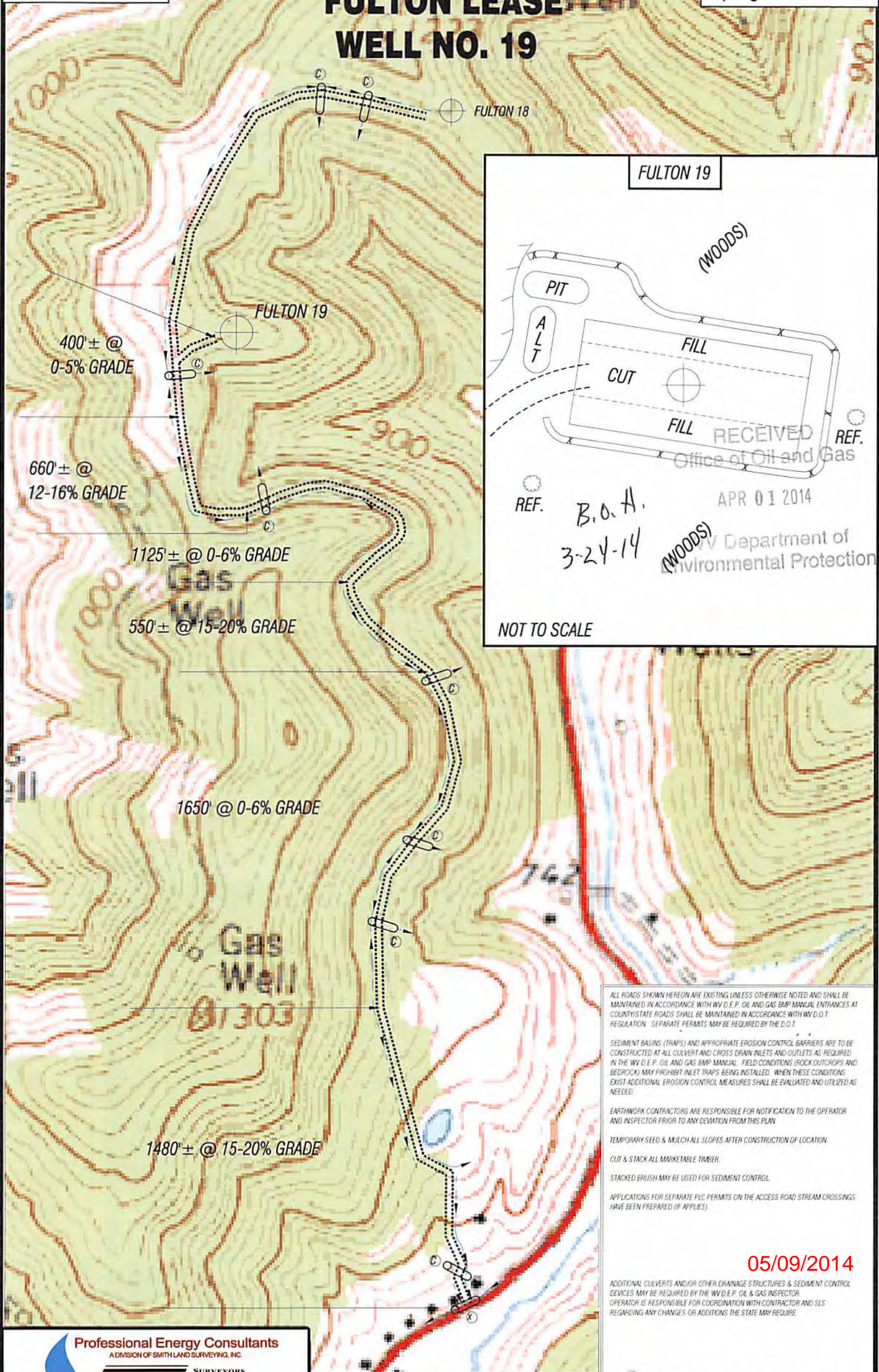
Plan Approved by: Byron O'Hara

Comments: _____

Title: Oil & Gas Inspector Date: 3-24-14

Field Reviewed? Yes No

FULTON LEASE WELL NO. 19



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

ADDITIONAL CULVERTS AND/OR OTHER DRAINAGE STRUCTURES & SEDIMENT CONTROL DEVICES MAY BE REQUIRED BY THE WV D.E.P. OIL & GAS INSPECTOR. OPERATOR IS RESPONSIBLE FOR COORDINATION WITH CONTRACTOR AND SLS REGARDING ANY CHANGES OR ADDITIONS THE STATE MAY REQUIRE.

05/09/2014

⊗ = EXISTING CULVERT
 ⊙ = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED

TOPO SECTION OF USGS
GLENVILLE 7.5' QUADRANGLE

Professional Energy Consultants
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SLS
 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.

(304) 462-5634 WWW.SLSURVEYS.COM

DRAWN BY K.D.W.	FILE NO. 8157	DATE 03-14-14	CADD FILE: 8157REC19.DWG
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**FULTON LEASE
1200 ACRES±
WELL NO. 19**

(S.P.C. SOUTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 713,830 E. 2,052,422
 NAD'27 GEO. LAT-(N) 38.96015 LONG-(W) 80.81566
 NAD'83 UTM (M) N. 4,312,380 E. 515,986

CAROLYN HANSON
50.98 ACRES±

LATITUDE 39° 00' 00"

1/2" REBAR (FOUND)

LONGITUDE 80° 47' 30"

EVA STOUT (LIFE)
68.84 ACRES±

3167-P

SHELLY DEMARINO
29.25 ACRES±

NORMAN & SHARON
ANDERSON
19.83 ACRES±

NOTES ON SURVEY

1. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 03-04-14.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A WELL PLAT PREPARED BY MATT HOLT, JR FOR WELL 47-021-2838.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF GILMER COUNTY IN JULY, 2013.

I L MORRIS
281.80 ACRES±

WACO OIL & GAS
25.02 ACRES±

I L MORRIS
1.65 ACRES±

REFERENCES

NAD'27 GRID NORTH



SYCAMORE RUN

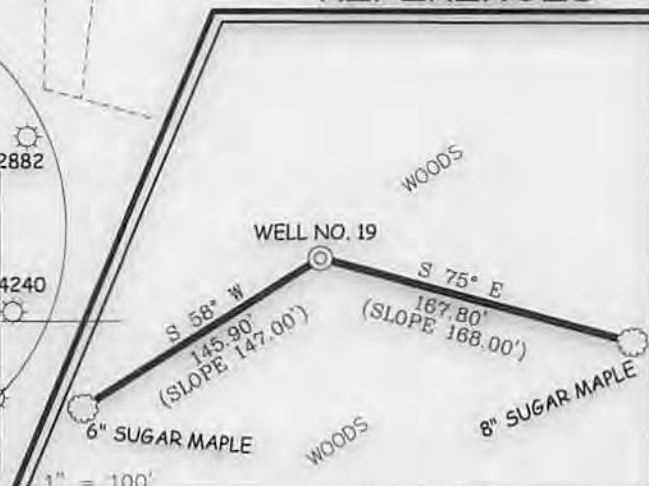
STEWART CREEK

WELL NO. 19

N 52°16' E
1402.95'

S 72°28' E
1206.59'

S 42°26' W
1699.59'



Professional Energy Consultants
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SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.
GSM 402-5834 WWW.SLSURVEYS.COM

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 DIVISION OF ENVIRONMENTAL PROTECTION

P.S. 677
Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MARCH 21, 20 14
 REVISED _____, 20 ____
 OPERATORS WELL NO. FULTON #19
 API WELL NO. 47 - 21 - 05768
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 8157P19(497-22)
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 500'

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

WELL TYPE:	OIL	GAS <input checked="" type="checkbox"/>	LIQUID INJECTION	WASTE DISPOSAL	IF "GAS" PRODUCTION <input checked="" type="checkbox"/>	STORAGE	DEEP	SHALLOW <input checked="" type="checkbox"/>		
LOCATION:	ELEVATION	1,134'	WATERSHED	STEWART CREEK	DISTRICT	GLENVILLE	COUNTY	GILMER		
SURFACE OWNER	I L MORRIS	ACREAGE	281.80±	ROYALTY OWNER	E.D. FULTON HEIRS, ET AL	LEASE ACREAGE	1200±	LEASE NO.		
PROPOSED WORK:	DRILL <input checked="" type="checkbox"/>	CONVERT	DRILL DEEPER	REDRILL	FRACTURE OR STIMULATE <input checked="" type="checkbox"/>	PLUG OFF OLD FORMATION	PERFORATE NEW FORMATION	PLUG AND ABANDON	CLEAN OUT AND REPLUG	OTHER
PHYSICAL CHANGE IN WELL (SPECIFY)	TARGET FORMATION	SPEECHLEY	ESTIMATED DEPTH	3,450'						

WELL OPERATOR ENERGY CORPORATION OF AMERICA DESIGNATED AGENT RODNEY A. WINTERS
 ADDRESS 501 56TH STREET S.E. ADDRESS 501 56TH STREET S.E.
 CHARLESTON, WV 25304 CHARLESTON, WV 25304

05/09/2014

COUNTY NAME PERMIT

2105768

6,823'

FULTON LEASE 1200 ACRES± WELL NO. 19

(S.P.C. SOUTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT) N. 713,830 E. 2,052,422
NAD'27 GEO. LAT-(N) 38.96015 LONG-(W) 80.81566
NAD'83 UTM (M) N. 4,312,380 E. 515,986

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50.98 ACRES±

LATITUDE 39° 00' 00"

1/2" REBAR
(FOUND)

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NORMAN & SHARON
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19.83 ACRES±

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281.80 ACRES±

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25.02 ACRES±

I L MORRIS
1.65 ACRES±

REFERENCES

NAD' 27 GRID NORTH

12
7

SYCAMORE RUN

WELL NO. 19

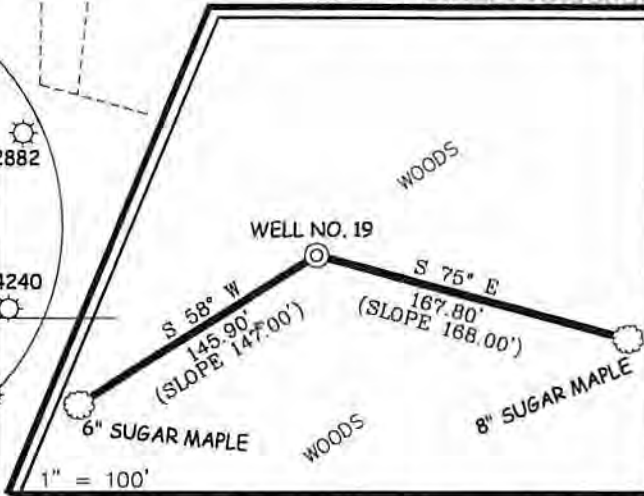
N 52°18' E
1402.95'

S 72°28' E
1206.59'

S 42°26' W
1699.69'

NORMAN
ANDERSON
52.50 ACRES±

1/2" REBAR
(FOUND)



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304) 423-6634 WWW.SLSURVEYS.COM

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P.S.
677

Gregory A. Smith



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

DATE MARCH 21, 2014

REVISED _____, 20____
OPERATORS WELL NO. FULTON #19

API WELL NO. 47 - 21 - 05768
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 8157P19(497-22)
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 500'

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



WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION STORAGE ___ DEEP ___ SHALLOW

LOCATION: ELEVATION 1,134' WATERSHED STEWART CREEK
DISTRICT GLENVILLE COUNTY GILMER QUADRANGLE GLENVILLE 7.5'

SURFACE OWNER I L MORRIS ACREAGE 281.80±
ROYALTY OWNER E.D. FULTON HEIRS, ET AL LEASE ACREAGE 1200± 05/09/2014

PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION SPEECHLEY ESTIMATED DEPTH 3,450'

WELL OPERATOR ENERGY CORPORATION OF AMERICA
ADDRESS 501 56TH STREET S.E.
CHARLESTON, WV 25304

DESIGNATED AGENT RODNEY A. WINTERS
ADDRESS 501 56TH STREET S.E.
CHARLESTON, WV 25304

COUNTY NAME PERMIT

7-29-09

API # _____

Operator: ECAWell #/Name: FULTON #19

Reviewed By: _____

End of Comment Period: _____

CHECK LIST FOR FILING A PERMIT**I. New Drill**

X	WW-2B
X	WW-2B signed off by inspector
X	WW-2A
X	Certified Mail Receipts or affidavit of personal service
X	Surface Owner Waiver
X	Coal Owner/Lessee/Operator Waiver
X	WW-2A (1) including page and book and royalty percentage
X	WW-2B (1)
X	WW-9 (page 1 and 2)
X	Inspector Signature on WW-9
X	Reclamation Plan
X	Mylar Plat
X	Topography Map of the proposed location
X	Database for Coal Depths, Permits, Boundaries
X	Bond (On File with WVDEP)
X	A check for \$650.00 shallow well, \$900.00 Deep well
X	Workers Comp/Employ/Registered with the SOS. OK

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Office of Oil and Gas

APR 01 2014

WV Department of
Environmental Protection

05/09/2014

JOA

**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
E.D. Fulton	Equitable Gas Co.	1/8	73/71
Farmout From Equitable Gas Co.	To EAE DBA ECA	1/8	Not Recorded

JOA

**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.

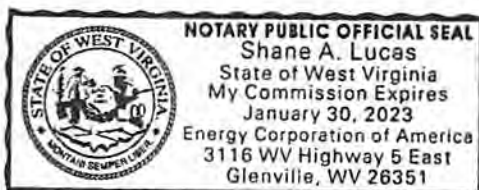
Well Operator:
By: Its:

Energy Corporation of America
 Rodney A. Winters *R.A. Winters*
 Vice President of Land

State of West Virginia, County of Kanawha, to wit:

On this the 31st day of March, 2014, before me, the undersigned officer, personally appeared Rodney A. Winters, who acknowledged himself to be Vice President of Land of Energy Corporation of America, a West Virginia corporation, and that he is authorized to do so, executed the foregoing instrument for the purpose therein contained by signing the name of the corporation. In witness whereof, I hereunto set my hand and official seal. My commission expires January 30, 2023.

RECEIVED
05/09/2014
APR 9 2014



Shane A. Lucas
 Notary Public

WV Department of
Environmental Protection

OPERATOR: Energy Corporation of America
LEASE NAME AND NUMBER: Fulton Lease Well No. 19

COMMENTS

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1500' of the proposed well site. The following landowners will be notified of the opportunity to request a water sample.

*Please note that the following information is subject to change upon field inspection.

INDIVIDUAL CONTACTED OR NOTIFIED

Owner/Occupant: Reed Family Farm C/O Robert Reed
 Address: 109 Johnson St. Glenville, WV 26351 Letter/Notice Date: _____
 Comments: Tax Map 4 Parcel 7

Owner/Occupant: Eva Stout
 Address: 2410 Sycamore Rd. Glenville, WV 26351 Letter/Notice Date: _____
 Comments: Tax Map 4 Parcel 8

Owner/Occupant: Norman & Sharon Anderson
 Address: 2230 Sycamore Run Rd. Glenville, WV 26351 Letter/Notice Date: _____
 Comments: Tax Map 4 Parcel 8.1

Owner/Occupant: Nelson Reed
 Address: 1985 Sycamore Run Rd. Glenville, WV 26351 Letter/Notice Date: _____
 Comments: Tax Map 10 Parcel 5.2

Owner/Occupant: Nelson Reed
 Address: 1985 Sycamore Run Rd. Glenville, WV 26351 Letter/Notice Date: _____
 Comments: Tax Map 10 Parcel 5.5

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Office of Oil and Gas

APR 01 2014

Owner/Occupant: Norman Anderson
Address: 2230 Sycamore Run Rd. Glenville, WV 26351 Letter/Notice Date: _____
Comments: Tax Map 10 Parcel 6

Owner/Occupant: Waco Oil & Gas Co. Inc.
Address: P.O. Box 397 Glenville, WV 26351 Letter/Notice Date: _____
Comments: Tax Map 10 Parcel 7

Owner/Occupant: I.L. Morris
Address: P.O. Box 397 Glenville, WV 26351 Letter/Notice Date: _____
Comments: Tax Map 10 Parcel 7.1

Owner/Occupant: Shelly Demarino
Address: 117 Mahogany Ln Glenville, WV 26351 Letter/Notice Date: _____
Comments: Tax Map 10 Parcel 11.1

Owner/Occupant: I.L. Morris
Address: P.O. Box 397 Glenville, WV 26351 Letter/Notice Date: _____
Comments: Tax Map 10 Parcel 34

Owner/Occupant: _____
Address: _____ Letter/Notice Date: _____
Comments: _____

Owner/Occupant: _____
Address: _____ Letter/Notice Date: _____
Comments: _____

Owner/Occupant: _____
Address: _____ Letter/Notice Date: _____
Comments: _____

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Office of Oil and Gas
APR 01 2014

