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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Thursday, October 3, 2019  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

ENERVEST OPERATING, L.L.C., A LIMITED LIABILITY COMPANY  
1001 FANNIN STREET  
SUITE 800  
HOUSTON, TX 77002

Re: Permit approval for ROBERT DOUGLAS 2  
47-033-03566-00-00

This well work permit 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 any additional specific 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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of 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.

Per 35 CSR 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- 0450.

James A. Martin  
Chief

Operator's Well Number: ROBERT DOUGLAS 2  
Farm Name: DOUGLAS, ROBERT  
U.S. WELL NUMBER: 47-033-03566-00-00  
Vertical Plugging  
Date Issued: 10/3/2019

# 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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

- 1) Date August 1, 2019
- 2) Operator's  
Well No. Robert Douglas #2
- 3) API Well No. 47-033 - 03566

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 1242' Watershed Rt. Fork Kincheloe Creek  
District Union County Harrison Quadrangle Big Isaac
- 6) Well Operator EnerVest Operating, L.L.C. 7) Designated Agent Barry K. Lay  
Address 300 Capitol Street, Suite 200 Address Same  
Charleston, WV 25301
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Sam Ward Name TBD  
Address P.O. Box 2327 Address \_\_\_\_\_  
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:  
**See Attached Plugging Procedure**

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

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Work order approved by inspector *S.D. W...* Date 8/8/2019

Douglas Robert #2 (Douglas 2-S-746)  
 API# 47-033-03566  
 Elevation: 1242' KB – 10' KB  
 Latitude: 39.180902  
 Longitude: -80.529441

Douglas Robert #2 Well Data

Casing: 8-5/8" 20 ppf Surface Csg @ 830' KB – Cemented to Surface  
 4-1/2" 10.5 ppf Production Csg @ 5338' KB – TOC Estimate 4206'  
 No Tubing in well

TD: 5378'  
 Latch Down: ?' – Records show a LD but no indication of footage  
 Perforations: 4861'-4872' KB, 5210'-5225' KB  
 Coal: None known  
 Fresh Water: 292'  
 Salt Water: None known

Douglas Robert #2 Procedure:

1. Notify State Inspector, Sam Ward – (304)-389-7583 – [Samuel.D.Ward@wv.gov](mailto:Samuel.D.Ward@wv.gov), 24 hours prior to commencing operations.
2. Prep Douglas Robert #2 location.
3. MIRU service rig, steel pits, work string of 5000' 2-3/8" EUE tbg, and other ancillary equipment.
4. Perform csg Freepoint test on 4-1/2". Compare to estimated TOC.
5. RIH w/ 2-3/8" work string to bottom, approx. 5370'.
6. PU 10' off bottom.
7. Use rig tank and pump or MIRU cement crew and circulate hole with 6% gel. *HOSE FILLED W/ GEL*
8. TOOH to 5205' and set 150' cement plug F/ 5205' T/ 5055' (perfs @ 5210'-5225').
9. TOOH to 5025' and circulate hole with 6% gel. *WOC, ADD CEMENT IF NEEDED.*
10. TOOH to 4852' and set 150' cement plug F/ 4852' T/ 4702' (perfs @ 4861'-4872'). *WOC, ADD CEMENT IF NEEDED.*
11. TOOH to 4670' and circulate hole with 6% gel. *ADD GEL IF NEEDED.*
12. TOOH w/ 2-3/8" tbg.
13. RIH with 4-1/2" csg ripper and rip csg at Freepoint.
14. Once ripped, PU 3', break circulation and thru 4-1/2" csg set 150' cement plug 75' in/out of cut.
15. TOOH w/ 4-1/2" csg 30' about previous cement plug and circulate hole with 6% gel.
16. TOOH w/ 4-1/2" csg.
17. MIRU perforaters and perforate all Oil, Coal, FW, and Gas shows below 8-5/8" csg. NONE KNOWN TO EXIST.
18. TIH w/ 2-3/8" work string to 1292' (50' below elevation of 1242') and set 150' cement plug F/ 1292' T/ 1142'. *RECEIVED  
Office of Oil and Gas*
19. TOOH with 2-3/8" work string to 905' and set 150' cement plug F/ 905' T/ 755'. (75' in/out of 8-5/8" shoe). *WOC  
AUG 19 2019*
20. TOOH to 725' and circulate hole with 6% gel.
21. TOOH w/ 2-3/8" work string to 200' and set 200' cement plug F/ 200' T/ Surface (Surface Plug). *WV Department of  
Environmental Protection*

*SPW  
8/18/19*

47-033-03566P

22. Erect a monument to WV DEP specifications (CSR 35-4-5.5 – sub “b”).
23. Reclaim location and roads to WV DEP Specifications.

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ENERVEST

# ENERVEST OPERATING, LLC

## WELLBORE SCHEMATIC

**Well Information:**

Well Name:	Douglas Robert #2	Partnership:	Harvest WV
County/State:	Harrison/WV	API Number:	47-033-03566
Township:		AFE Number:	
Target:		Cost Center:	472121002
Lat:	39.180902	Pool Code:	101
Long:	-80.529441	Logger's TD:	5378'

Surveys	Hole Size	Formations	Depths (KB)	SPUD DATE: TD DATE:	10/13/1988 10/18/1988	Casings	Cement	Shows
				Elevation: 1242'		8-5/8" 20 ppf surf. csg @ 830' KB (TOC= surface) Primary: Lead - 100 sks 50/50 Poz w/ 2% CaCl2 w/ 1/4# flake/sk Tail - 100 sks Neat w/ 3% CaCl2		
		Big Lime 1958' Big Injun 2000'				KB = 10'		
		Fifth						
		Benson 4861' (18 Perfs: 4861'-4872')				Primary: 200 sks 50/50 Poz w/ 2% gel, 10% salt 4-1/2" R-3 10.5 ppf prod. csg @ 5338' KB (Est. TOC = 4206' )		
	7 7/8" hole	Alexander 5042' (16 Perfs: 5210'-5225')	5378'					

<b>Completion Information</b>		Target:	Devonian	Completion Date:	10/27/1988
Top Perforation (ft):	4861'	Frac Type/Fluid:	Air	Breakdown:	psi
Bottom Perforation (ft):	5225'	Foam Quality:		Pre-ISIP:	psi
No. of Shots:	34	BD Acid Volume:	gal.	MTP:	psi
Charge (gram):		Treatment Volume:	gal.	ATP:	psi
Perf Diameter:	0.39 in.	Sand mesh size:	mesh	ISIP:	psi
Penetration:		Sand Volume:	sacks	5-min SIP:	psi
Phasing:		Ave. Treatment Rate:	bpm	10-min SIP:	psi

**Remarks:** Perfs: Benson (4861'-4872'), and Alexander (5210'-5225'). Coal @ none. FW @ 292'. Salt water @ none.

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State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: DAVISSON, GEORGE Operator Well No.: DOUGLAS 2-S-746

LOCATION: Elevation: 1242.00 Quadrangle: BIG ISAAC

District: UNION County: HARRISON  
Latitude: 10100 Feet South of 39 Des. 12Min. 30 Sec.  
Longitude: 8585 Feet West of 80 Des. 30 Min. 0 Sec.

Company: SCOTT OIL CO.  
P. O. BOX 8  
GREENWOOD, VA

Asent: JOHN T. HASKINS

Inspector: STEVE CASEY  
Permit Issued: 10/03/88  
Well work Commenced: 10/13/88  
Well work Completed: 10/18/88  
Verbal Plussings  
Permission granted on:  
Rotary  Cable  Ris  
Total Depth (feet) 5378  
Fresh water depths (ft) 292  
Salt water depths (ft)  
Is coal beins mined in area (Y/N)?   
Coal Depths (ft):

Casins & Tubins	Used in Drillins	Left in Well	Cement Fill Up Cu. Ft.
Size			
11 3/4	30		
8 5/8		833	to surface
4 1/2		5338	200 sks

OPEN FLOW DATA

Producing formation Alexander, Benson Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure \_\_\_\_\_ Psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 146 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure 1350 Psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM 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 ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: SCOTT OIL CO. *Daniel Wright*  
By: \_\_\_\_\_  
Date: 11/11/88

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Alexander	5210-5225	Sand 20/40	35,000#
		80/100	5,000#
Benson	4861-4872	Sand 20/40	50,000#
		80/100	5,000#

Red Rock	0	30
Sand & Shale	40	228
Red Rock	228	255
Sand & Shale	255	1855
Sand	1855	1950
Sand & Shale	1950	1958
Sand	1958	2000
Sand	2000	2088
Sand & Shale	2088	4861
Sand	4861	4874
Sand & Shale	4874	5042
Sand	5042	5104

## Gamma Ray

Blue Monday	1855	1950
Big Lime	1958	2000
Big Injun	2000	2088
Benson	4861	4874
Alexander	5042	5104

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47-033-03566A



Select County: (033) Harrison
Select datatypes: (Check All)
Location, Production, Plugging, Owner/Completion, Stratigraphy, Sample, Pay/Show/Water, Logs, Btm Hole Loc

Table Descriptions
County Code Translations
Permit Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
Pipeline-Plus New

WV Geological & Economic Survey:

Well: County = 33 Permit = 03566

Report Time: Thursday, February 14, 2019 10:44:49 AM

Location Information: View Map

Table with columns: API, COUNTY, PERMIT, TAX, DISTRICT, QUAD\_75, QUAD\_15, LAT\_DD, LON\_DD, UTM\_E, UTM\_N

There is no Bottom Hole Location data for this well

Owner Information:

Table with columns: API, CMP\_DT, SUFFIX, STATUS, SURFACE\_OWNER, WELL\_NUM, CO\_NUM, LEASE, LEASE\_NUM, MINERAL\_OWN, OPERATOR\_AT\_COMPLETION, PROP\_VD, PROP\_TRGT\_FM, TFM\_EST\_PR

Completion Information:

Table with columns: API, CMP\_DT, SPUD\_DT, ELEV DATUM, FIELD, DEEPEST\_FM, DEEPEST\_FMT, INITIAL\_CLASS, FINAL\_CLASS, TYPE, RIG, CMP\_MTHD, TVD, TMD, NEW\_FTG, KOD, G\_BEF, G\_AFT, O\_BEF

Pay/Show/Water Information:

Table with columns: API, CMP\_DT, ACTIVITY, PRODUCT, SECTION, DEPTH\_TOP, FM\_TOP, DEPTH\_BOT, FM\_BOT, G\_BEF, G\_AFT, O\_BEF, O\_AFT, WATER\_QNTY

Production Gas Information: (Volumes in Mcf) \* 2018 data are incomplete at this time

Table with columns: API, PRODUCING\_OPERATOR, PRD\_YEAR, ANN\_GAS, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

Production Oil Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil \* 2018 data are incomplete at this time

Table with columns: API, PRODUCING\_OPERATOR, PRD\_YEAR, ANN\_OIL, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

Production NGL Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil \* 2018 data are incomplete at this time

Table with columns: API, PRODUCING\_OPERATOR, PRD\_YEAR, ANN\_NGL, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

Production Water Information: (Volumes in Gallons) \* 2018 data are incomplete at this time

Table with columns: API, PRODUCING\_OPERATOR, PRD\_YEAR, ANN\_WTR, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

Stratigraphy Information:

Table with columns: API, SUFFIX, FM, FM\_QUALITY, DEPTH\_TOP, DEPTH\_QUALITY, THICKNESS, THICKNESS\_QUALITY, ELEV DATUM

Wireline (E-Log) Information:

Table with columns: API, LOG\_TOP, LOG\_BOT, DEEPEST\_FML, LOGS\_AVAIL, SCAN, DIGITIZED, GR\_TOP, GR\_BOT, D\_TOP, D\_BOT, N\_TOP, N\_BOT, I\_TOP, I\_BOT, T\_TOP, T\_BOT, S\_TOP, S\_BOT, O\_TOP, O\_BOT, INCH2, INCH5

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**Downloadable Log Images:** We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

**Quick Reference Guide for Log File Names** For more info about WVGES scanned logs click [here](#)

FILENAME  
4703303566g.tif

**geologic log types:**

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
  - e photoelectric adsorption (PE or Pe, etc.)
  - g gamma ray
  - i induction (includes dual induction, medium induction, deep induction, etc.)
  - l laterolog
  - m dipmeter
  - n neutron (includes neutron porosity, sidewall neutron-SWN, etc.)
  - o other<sup>1</sup>
  - s sonic or velocity
  - t temperature (includes borehole temperature, BHT, differential temperature, etc.)
  - z spontaneous potential or potential
- mechanical log types:**
- b cement bond
  - c caliper
  - o other<sup>1</sup>
  - p perforation depth control or perforate

<sup>1</sup>other logs may include, but are not limited to, such curves as audio, bit size, CCL—casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL—Nuclear Cement Top Locator, radioactive tracer, tension

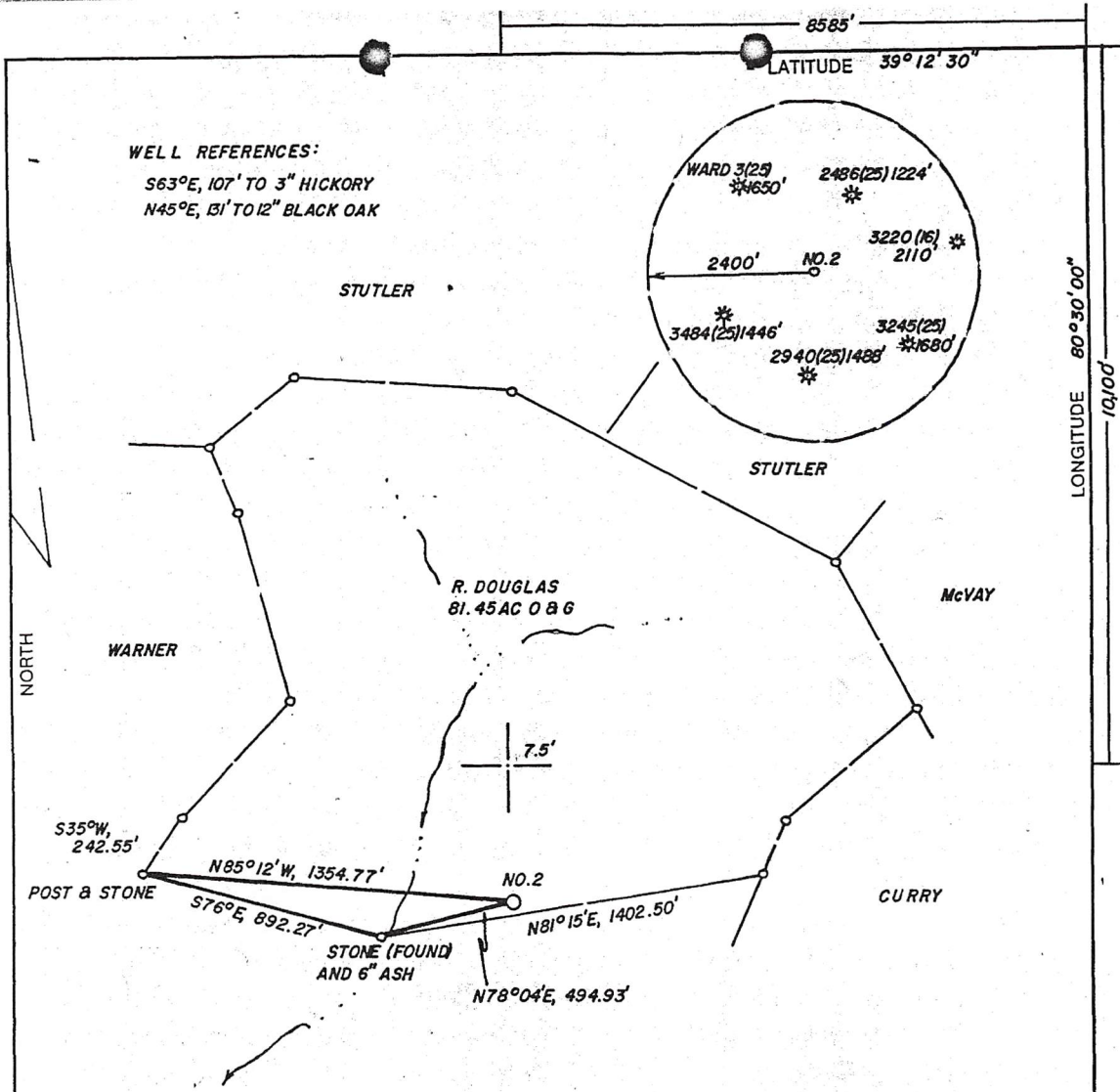
There is no Plugging data for this well

There is no Sample data for this well

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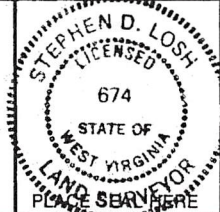


LAND SURVEYING SERVICES  
 21 CEDAR LANE  
 BRIDGEPORT, WV 26330  
 PHONE: 304-842-2018

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 1100' SW. OF LOC. AT ELEV. 1409'

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 ENERGY.  
 (SIGNED) [Signature]  
 R.P.E. \_\_\_\_\_ L.L.S. NO. 674  
STEPHEN D. LOSH



**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

DATE SEPT. 12, 19 88  
 OPERATOR'S WELL NO. S-746  
 API WELL NO. DOUGLAS 2  
47-033-03566  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1242' WATER SHED RT. FORK KINCHELOE CREEK  
 DISTRICT UNION COUNTY HARRISON  
 QUADRANGLE B16 ISAAC 7.5

SURFACE OWNER GEORGE W. DAVISSON ACREAGE 81.45  
 OIL & GAS ROYALTY OWNER R. DOUGLAS LEASE ACREAGE 81.45  
 LEASE NO. \_\_\_\_\_

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 BENSON/ALEXANDER ESTIMATED DEPTH 5300'  
 WELL OPERATOR SCOTT OIL CO. DESIGNATED AGENT DARREL WRIGHT  
 ADDRESS P. O. BOX 112 ADDRESS P. O. BOX 112  
SALEM, WV 26426 SALEM, WV 26426

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WW-4A  
Revised 6-07

1) Date: August 1, 2019  
2) Operator's Well Number  
Robert Douglas #2

3) API Well No.: 47 - 033 - 03566

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

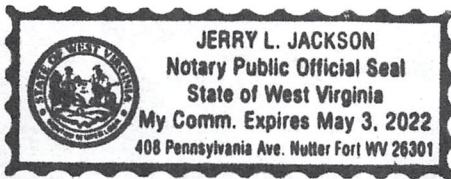
4) Surface Owner(s) to be served:		5) (a) Coal Operator	
(a) Name	<u>Coastal Forest Resources Co.</u> ✓	Name	_____
Address	<u>PO Box 709</u>	Address	_____
	<u>Buckhannon, WV 262010709</u>		
(b) Name	<u>Leonard E. Bailey etux</u> ✓	(b) Coal Owner(s) with Declaration	
Address	<u>3170 Mineral Road</u>	Name	_____
	<u>Jane Lew, WV 263786871</u>	Address	_____
(c) Name	_____	Name	_____
Address	_____	Address	_____
6) Inspector	<u>Sam Ward</u>	(c) Coal Lessee with Declaration	
Address	<u>P.O. Box 2327</u>	Name	_____
	<u>Buckhannon, WV 26201</u>	Address	_____
Telephone	<u>304-389-7583</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 EnerVest Operating, L.L.C.  
 By: Barry K. Lay *Barry K Lay*  
 Its: Senior Vice President and General Manager  
 Address 300 Capitol Street, Suite 200  
Charleston, WV 25301  
 Telephone 304-343-5505

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Subscribed and sworn before me this 1<sup>st</sup> day of August 2019  
*Jerry L. Jackson*  
 My Commission Expires May 3, 2022  
 \_\_\_\_\_  
 Notary Public

AUG 19 2019  
WV Department of Environmental Protection

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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

**SURFACE OWNER WAIVER**

Operator's Well  
Number

Robert Douglas #2

**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 57<sup>th</sup> 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.

RECEIVED  
FOR EXECUTION BY A CORPORATION,

Barbara J. Ecker Bailey Date 8-12-19  
Signature  
For Deceased Leonard E Bailey

Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_  
Signature \_\_\_\_\_ Date \_\_\_\_\_  
AUG 19 2019  
WV Department of  
Environmental Protection

47-033-03566P

WW-9  
(5/16)

API Number 47 - 033 - 03566  
Operator's Well No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EnerVest Operating, L.L.C. OP Code 30-9999

Watershed (HUC 10) Rt. Fork Kincheloe Creek Quadrangle Big Isaac

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: No Pit To Be Built (Portable Containment Equipment)

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_)
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No Pit To Be Built. Any well effluent will be contained in tanks and properly disposed of offsite.)

SDW  
8/8/2019

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_

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

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. At discretion of Contractor.

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

-Landfill or offsite name/permit number? \_\_\_\_\_

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 Barry K. Lay  
Company Official (Typed Name) Barry K. Lay  
Company Official Title Senior Vice President and General Manager

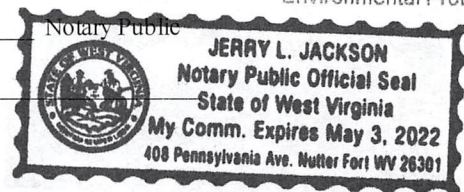
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Subscribed and sworn before me this 6<sup>th</sup> day of August, 2019

WV Department of Environmental Protection

My commission expires May 3, 2022



Proposed Revegetation Treatment: Acres Disturbed 2.00 Prevegetation pH 6.5

Lime according to ph test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay or Straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	25	Orchard Grass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Title: Land Manager [Signature]

Date: 8/01/2019

Field Reviewed? (  ) Yes (  ) No

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N/A

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

Operator Name: EnerVest Operating, L.L.C.

Watershed (HUC 10): Rt. Fork Kincheloe Creek Quad: Big Issac

Farm Name: \_\_\_\_\_

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

Plugging of shallow well. All residual fluids will be captured in portable flowback tanks for proper disposal.

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

Plugging of shallow well. All residual fluids will be captured in portable flowback tanks for proper disposal.

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Closest Water Body: Rt. Fork Kincheloe Creek 1,800' +

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

\_\_\_\_\_

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- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.



N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

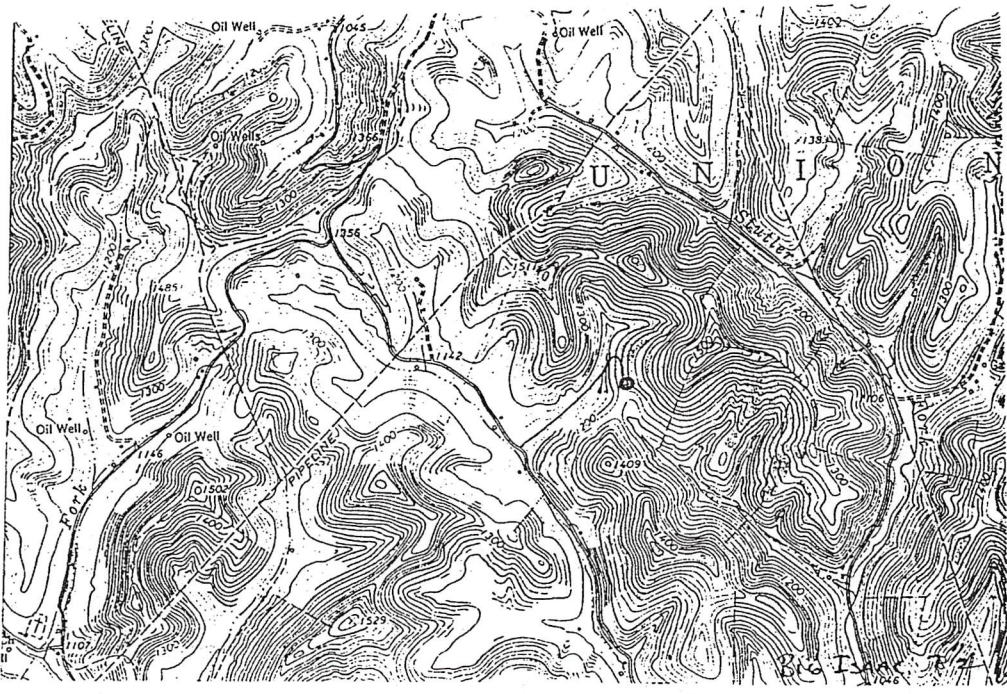
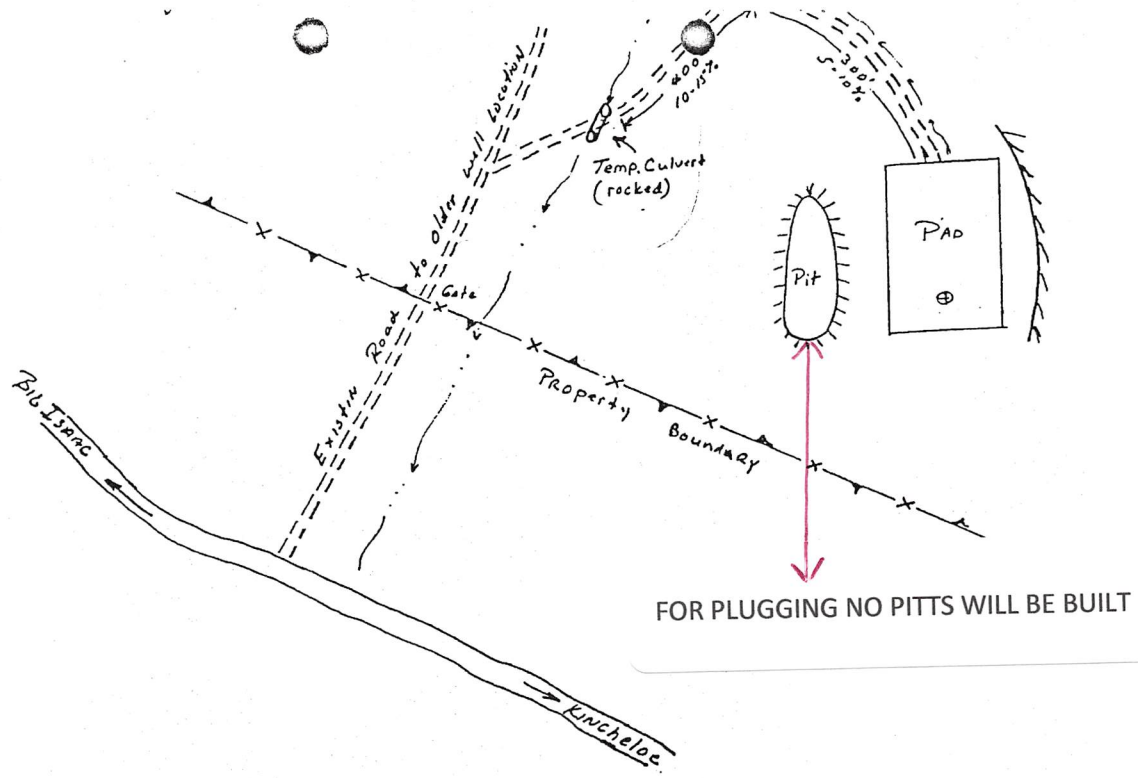
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Signature: 

Date: 8/16/2019

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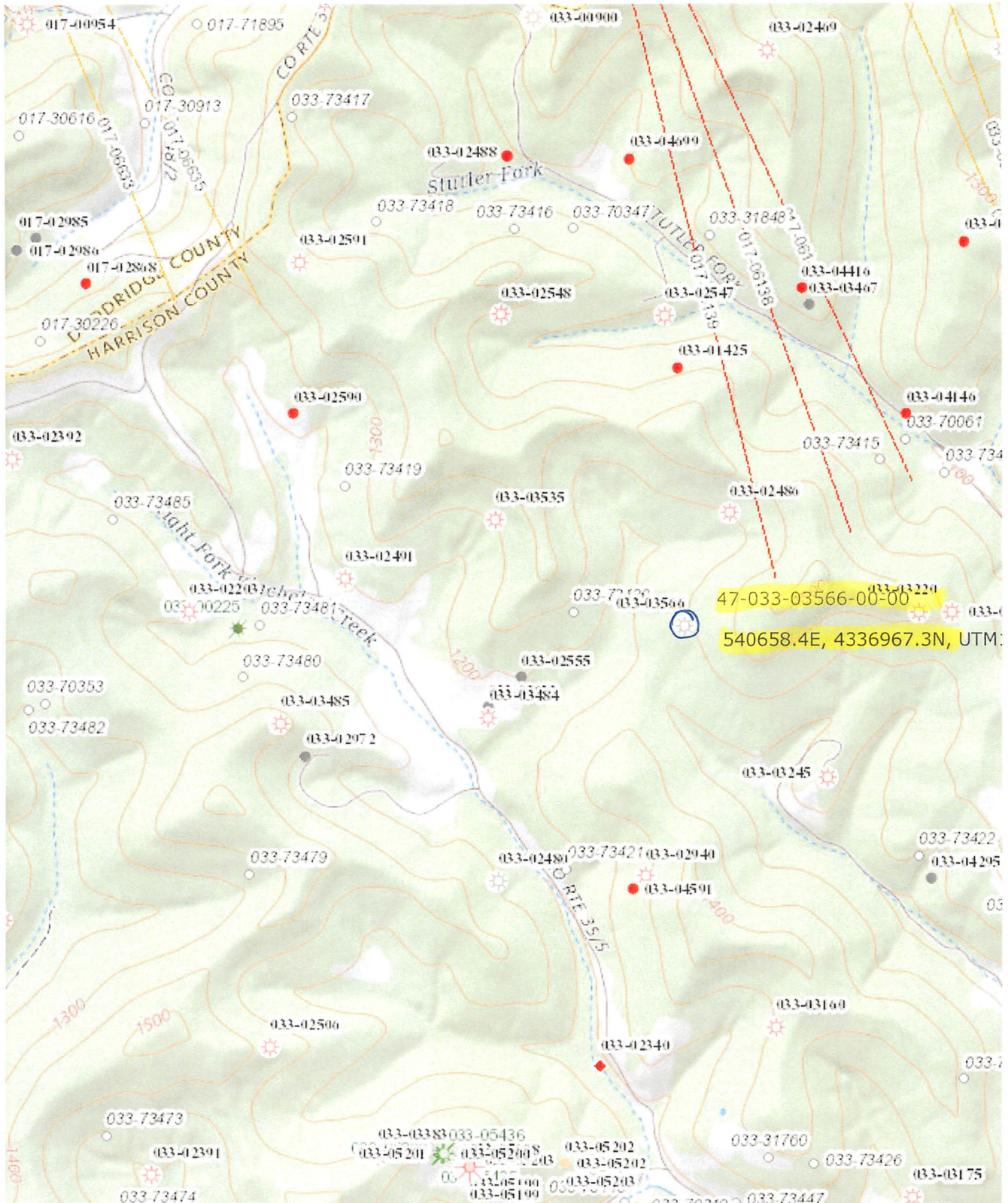
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47-033-03566P

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-033-03566 WELL NO.: Robert Douglas #2

FARM NAME: Coastal Forest Resources Co.

RESPONSIBLE PARTY NAME: Jerry L. Jackson

COUNTY: Harrison DISTRICT: Union

QUADRANGLE: Big Isaac

SURFACE OWNER: Coastal Forest Resources Co.

ROYALTY OWNER: R. Douglas

UTM GPS NORTHING: 433697.3

UTM GPS EASTING: 540658.4 GPS ELEVATION: 1242'

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 \_\_\_\_: Post Processed Differential \_\_\_\_  
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.

Signature

Land Manager  
Title

8/01/2019  
Date

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