



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

June 16, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4103953, issued to ENERVEST OPERATING L. L. C., 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: 1
Farm Name: JACKSON'S MILL S. C. C.
API Well Number: 47-4103953
Permit Type: Plugging
Date Issued: 06/16/2015

Promoting a healthy environment.

06/19/2015

4103953P

WW-4B
Rev. 2/01

1) Date April 9, 2015
2) Operator's
Well No. Jackson Mill S.C. #1 (S-801)
3) API Well No. 47-041 - 03953

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 ___ or Underground storage ___) Deep ___/ Shallow X

5) Location: Elevation 994 Watershed Wet Fork River
District Freemans Creek County Lewis Quadrangle Weston 7.5

6) Well Operator EnerVest Operating, L.L.C. 7) Designated Agent James D. McKinney
Address 300 Capitol Street, Suite 200 Address Same
Charleston, WV 26330

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Barry Stollings Name R.L. Wharton Enterprises LTD
Address 28 Confer Street Address 261 Shiloh Lane
Bridgeport, WV 26330 Buckhannon, WV 26201

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

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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 Barry Stollings Date 4-9-15

06/19/2015

Jackson Mill S.C. #1
API# 47-041-03953
Lewis County, WV
Elevation: 994' GL

Jackson Mill #1 Well Data

Casing: 8-5/8" 20 ppf surf. Csg @ 717' KB cemented to surface
4-1/2" 10.5 ppf prod. Csg @ 4160' KB **TOC 2059'**
Tubing:
Perforations: 2697'-2701' KB, 2922'-2960' KB, 3438'-3447', 4109'-4125'

Jackson Mill S.C. #1 Procedure:

1. Prep Jackson Mill S.C. #1 location.
2. MIRU service rig
3. RIH with 2/8" tubing to bottom
4. MIRU cement crew and circulate hole with 6 % gel
5. TOOH to 4,089' and set 150' cement plug F/ 4,089' T/ 3,939' (perfs @ 4109'-4125')
6. TOOH to 3,900' and circulate hole with 6% gel.
7. TOOH to 3,418' and set 150' cement plug F/ 3418' T/ 3268' (perfs @3438'-3447')
8. TOOH to 3,250' and circulate hole with 6% gel.
9. TOOH to 2,677' and set 150' cement plug F/2677' T/2527' (perfs @2922'-2960' and 2697'-2701')
10. TOOH to 2500' and circulate hole with 6% gel
11. TOOH 2 3/8" tubing
12. RIH with 4 1/2" ripper and rip casing at 1860' (Estimated TOC = 2059')
13. Once ripped, circulate hole with gel.
14. Thru 4 1/2" casing, set 150' cement plug F/1860' T/1710'
15. TOOH 4 1/2" casing to 1700' and circulate hole with 6% gel **100' plug across Elev. 994**
16. TOOH 4 1/2" casing to 767' and set 150' cement plug F/767' T/617' **B.S. 4-9-15**
17. TOOH 4 1/2" to 600' and circulate hole with 6% gel to surface.
18. Erect a monument with API number attached.
19. Reclaim location

17a. SET 100' CEMENT PLUG FROM 100' TO SURFACE.

SET CEMENT PLUG FROM 635' TO 535'.

SET CEMENT PLUG FROM 270' TO 170'.

JWM

ACROSS COAL

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4103953P



ENERVEST

ENERVEST OPERATING, LLC

WELLBORE SCHEMATIC

Well Information:

Well Name:	Jackson Mill S.C. #1	Partnership:	EVEP WV
County/State:	Lewis/WV	API Number:	47-041-03953
Township:	Freeman's Creek	AFE Number:	
Target:		Cost Center:	472122001
Lat:	39.102034	Pool Code:	101
Long:	-80.47099	Logger's TD:	4183' KB

Surveys	Hole Size	Formations	Depths (KB)	SPUD DATE: TD DATE:	Elevation: 994'	Casings	Cement	Shows
	10-5/8"		759'	11/4/1989 11/8/1989		8-5/8" 20 ppf surf. csg @717' KB (TOC= surface)		Primary: 130 sks 50/50 blend 2% CaCl2 50 sks NP 3% CaCl2
		Big Lime 1135' Big Injun 1193'						
		Fifth 1995'						
		Speechley 2704' (10 Perfs: 2697'-2701')						
		Balltown 2900' (17 Perfs: 2922'-2960')						
		Bradford 3394' (12 Perfs: 3438'-3447')						
		Riley 3710'						
		Benson 4110' (15 Perfs: 4109'-4125')						Primary: 390 sks 2% gel 10% salt 4-1/2" 10.5 ppf prod. csg @ 4160' KB (TOC = 2059')
	7 7/8" hole		4188'					

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Completion Information		Target:	Clinton	Completion Date:	3/12/2013
Top Perforation (ft):	2697'	Frac Type/Fluid:	Air	Breakdown:	psi
Bottom Perforation (ft):	4125'	Foam Quality:		Pre-ISIP:	psi
No. of Shots:		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: Speechley (2697'-2701'), Balltown (2922'-2960'), Bradford (3438'-3447'), and Benson (4109'-4125'). Coal @ 76, 242, 552, 615. FW @90.

06/19/2015

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

Well Operator's Report of Well Work

Farm name: W.VA. UNIVERSITY/4-H CAMP Operator Well No.: S-801

LOCATION: Elevation: 994.00 Quadrangle: WESTON

District: FREEMANS CREEK County: LEWIS
Latitude: 8450 Feet South of 39 Deg. 7 Min. 30 Sec.
Longitude 3680 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: SCOTT OIL COMPANY
P.O. BOX 112
SALEM, WV 26462-0112

Agent: JOHN T. HASKINS

Inspector: STEVE CASEY
Permit Issued: 10/30/89
Well work Commenced: 11/04/89
Well work Completed: 11/08/89
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 4183
Fresh water depths (ft) 90

Salt water depths (ft) None Reported
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 76, 242, 552, 615

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
8 5/8	718	718	to surface
4 1/2	4166	4166	390 sks

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DEPARTMENT OF ENERGY

OPEN FLOW DATA

Benson

Producing formation Speechley, Balltown, Bradford pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 335 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 950 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 _____ 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

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 COMPANY

By: John T. Haskins
Date: 11/16/89

Speechley	2697	2701	10 holes	5,000# 80/100 30,000# 20/40	351 bbls H2O
Balltown	2922	2960	18 holes	5,000# 80/100 55,000# 20/40	561 bbls H2O
Bradford	3438	3447	12 holes	5,000# 80/100 30,000# 20/40	351 bbls H2O
Benson	4109	4119	14 holes	5,000# 80/100 55,000# 20/40	541 bbls H2O

Clay	0	18
Shale & Sand	18	76
Coal	76	78
Sand & Shale	78	242
Coal	242	248
Sand & Shale	248	552
Coal	552	554
Shale	554	615
Coal	615	618
Sand & Shale	618	1130
Big Lime	1130	1200
Sand & Shale	1200	2940
Balltown	2940	2970
Sand & Shale	2970	3995
Benson	3995	4016
Sand & Shale	4016	4183

1/2" stream H2O @ 90 feet

TD

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DEPARTMENT OF ENERGY

Gamma Ray		
Big Lime	1135	1193
Big Injun	1193	1306
5th Sand	1995	2025
Speechley	2704	2720
Balltown	2900	2966
Bradford	3394	3455
Riley	3710	3740
Benson	4110	4124

26 LB

WW-4A
Revised 6-07

1) Date: 4-9-2015
2) Operator's Well Number
Jackson Mill S.C. #1 (S-801)

3) API Well No.: 47 - 041 - 003953

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>WVU Extension Service</u>	Name <u>None</u>
Address <u>Office of the Director</u>	Address _____
<u>29 Beechurst Ave.</u>	_____
(b) Name <u>Morgantown, WV 26506-6031</u>	(b) Coal Owner(s) with Declaration
Address _____	Name <u>No Declaration of Record</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Barry Stollings</u>	(c) Coal Lessee with Declaration
Address <u>28 Confer Drive</u>	Name <u>No Declaration of Record</u>
<u>Bridgeport, WV 26330</u>	Address _____
Telephone <u>304-552-4194</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: James D. McKinney *[Signature]*
 Its: Senior Vice President and General Manager, Appalachia East Assets
 Address 300 Capitol Street, Suite 200
Charleston, WV 25301
 Telephone 304-343-5505



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Subscribed and sworn before me this 10th day of April, 2015 APR 14 2015
Alison E. Winter Notary Public

My Commission Expires June 5, 2016

Oil and Gas Privacy Notice

WV Department of Environmental Protection

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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OFFICIAL USE

Postage	\$ 2.45
Certified Fee	\$3.30
Return Receipt Fee (Endorsement Required)	\$2.70
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$ 8.45

0053
08
Postmark
Here
04/13/2015

Sent To: Office of the Director
 Street, Apt. No., or PO Box No.: West Virginia University Extension
 City, State, Zip: Service
 29 Beechurst Ave.
 Morgantown, WV 26506-6031

PS Form 3800

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WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 041 - 03953
Operator's Well No. Jackson Mill S.C. #1 (S-801)

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

Watershed West Fork River Quadrangle Weston 7.5

Elevation 994 County Lewis District Freemans Creek

Description of anticipated Pit Waste: No Pit To Be Built

Will a synthetic liner be used in the pit? _____

**ANY WELL EFFLUENT MUST
BE CONTAINED IN TANKS
AND DISPOSED OF PROPERLY.**
JNM

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 No Pit To Be Built)

Proposed Work For Which Pit Will Be Used:

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

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) James D. McKinney

Company Official Title Senior Vice President and General Manager, Appalachia East Assets

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APR 14 2015

Subscribed and sworn before me this 10th day of April, 2015 WV Department of Environmental Protection

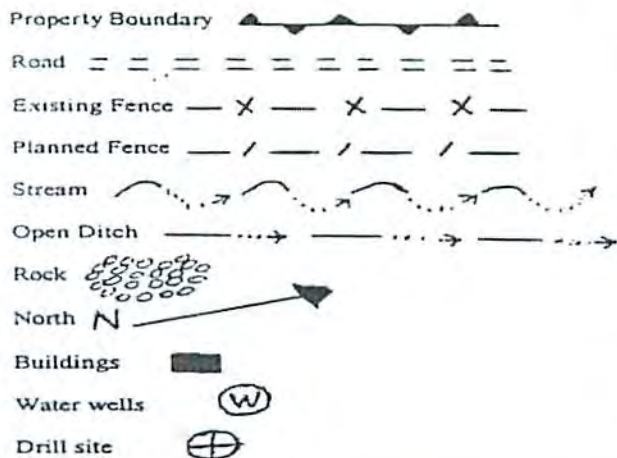
Alison E. Winter

Notary Public

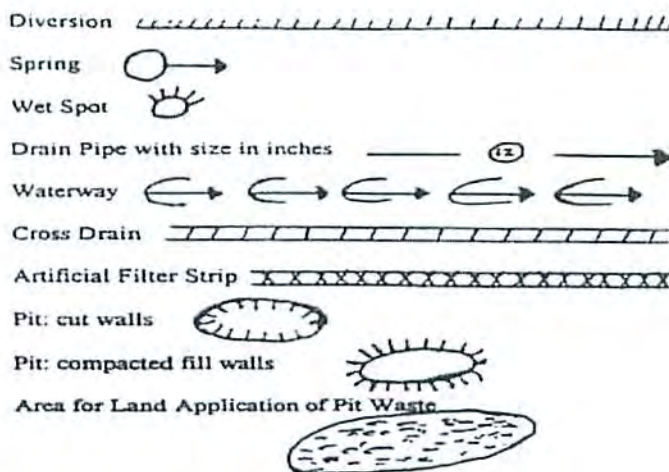
My commission expires June 5, 2016



06/19/2015



LEGEND



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

Mulch Hay or Straw 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
Orchardgrass	25	Orchardgrass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Cover	10	Ladino Cover	10

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

Photocopied section of involved 7.5' topographic sheet.

See Attached GPS Well Location Form: PS WW-7

Plan Approved by: Bany Sattlegger

Comments: _____

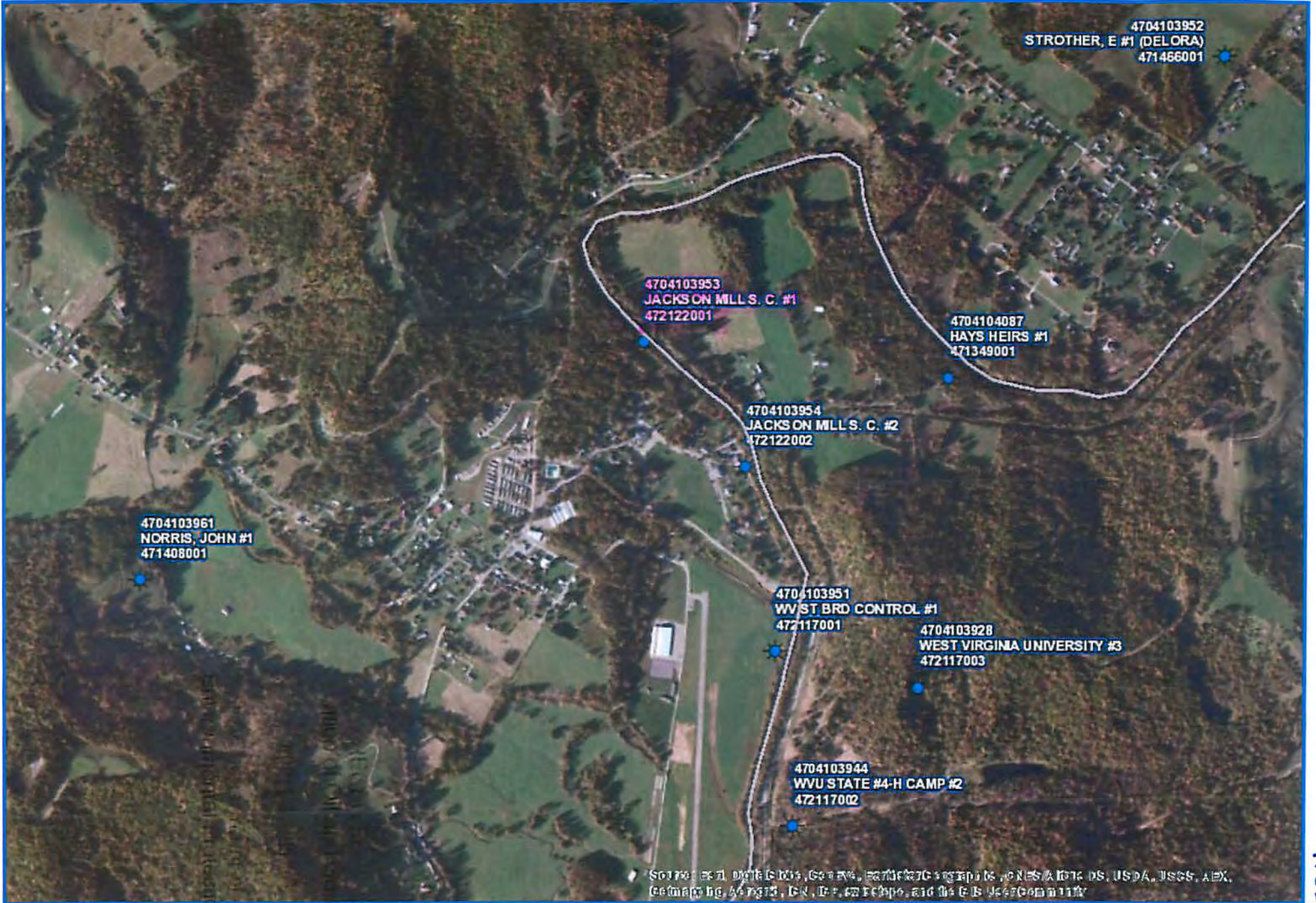
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Title: inspector

Date: 4-9-15 WV Department of Environmental Protection

Field Reviewed? () Yes () No

Jackson Mill S.C. #1 & #2



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Author: JLJ

Date: 4/8/2015



4103953P

Jackson Mill S.C. #1 & #2



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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Author: JLL

Date: 4/8/2015



4703953P



4003953A

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-041-03953 WELL NO.: Jackson Mill S.C. #1 (S-801)

FARM NAME: WVU Extension Service - 4H Camp

RESPONSIBLE PARTY NAME: Jerry L. Jackson

COUNTY: Lewis DISTRICT: Freemans Creek

QUADRANGLE: Weston 7.5 Weston 1.5

SURFACE OWNER: WVU Extension Service

ROYALTY OWNER: West Virginia University

UTM GPS NORTHING: 4328232.7

UTM GPS EASTING: 545742.2 GPS ELEVATION: 994

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.

Jerry L. Jackson
Signature

Sr. District Landman
Title

4/8/2015
Date

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Environmental Protection

06/19/2015



EnerVest Operating, L.L.C.

Eastern Division

1064 Old Route 33, Weston, WV 26452-7722
Phone (304) 517-1102 Fax (304) 517-1107

VIA CERTIFIED MAIL

April 13, 2015

Office of the Director
West Virginia University Extension Service
29 Beechurst Ave.
Morgantown, WV 26506-6031

Re: Plugging Permit Applications
API# 47-041-03953 Jackson Mill S.C. #1 (S-801)
API# 47-041-03954 Jackson Mill S.C. #2 (S-802)
Jackson Mill State 4-H Camp & Conference Center
Freeman Creek District, Lewis County, WV

Dear Surface, Coal, Oil & Gas Owner:

Pursuant to Chapter 22 of the West Virginia Code, enclosed please find copies of the following documents applicable to the proposed plugging of each of the subject wells:

- Form WW-7 Well Location Form: GPS
- Form WW-9 Construction and Reclamation Plan and Site Registration Application
- Form WW-4A Notice of Application to Plug and Abandon a Well
- Form WW-4B Application for a Permit to Plug and Abandon
- Surface Owner Waiver (2 copies)
- Coal Owner Waiver (2 copies)

These applications are being filed by EnerVest with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environmental Protection. If you have no objections to the proposed process for the plugging of these wells, please sign the Voluntary Statement of No Objection on the Surface Owner Waiver and Coal Owner Waiver for each well. Then please return executed Surface and Coal Waivers for each well to our office in the enclosed envelope.

Comments as to the location construction or the proposed well work may, pursuant to West Virginia Code, be filed by you with the said Administrator within five (5) days after the Application is filed by EnerVest. The address of the Administrator for the purpose of filing comments and obtaining additional information is:

Permit Administrator

06/19/2015

West Virginia Division of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

Persons who may file such comments are: (i) the owners of record of the surface of the tract on which the well is or is to be located, and (ii) the owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if such surface tract is to be utilized for road or other land disturbance described in the Erosion and Sediment Control Plan referred to above; and (iii) except as and when not required by the laws of West Virginia and the rules of the West Virginia Department of Mines, any coal operator operating coal seams beneath the oil and gas leasehold upon which said well is or is to be located as well as the owner(s) and lessee(s), if any of such coal seams.

Sincerely,
EnerVest Operating, L.L.C.

A handwritten signature in black ink, appearing to read "Jerry L. Jackson", written over a horizontal line.

Jerry L. Jackson
Senior District Landman

Enclosures

cc: Jackson Mill State Camp Director
File

06/19/2015

I
Now

Operator: ENERVEST OPERATING L. L. C.
API: 4103953
WELL No: 1
Reviewed by: gwm Date: 6/16/15
45 Day End of Comment: 04/20/15

CHECKLIST FOR FILING A PERMIT

Plugging

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee /Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- ~~\$100.00~~ check (\$0.00 if no pit)