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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)

Tuesday, September 24, 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 A-1  
47-033-03147-00-00

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: A-1  
Farm Name: GORE, SOLOMON  
U.S. WELL NUMBER: 47-033-03147-00-00  
Vertical Plugging  
Date Issued: 9/24/2019

Promoting a healthy environment.

# PERMIT CONDITIONS

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

## CONDITIONS

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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.

47-033-03147A

WW-4B  
Rev. 2/01

- 1) Date August 1, 2019
- 2) Operator's  
Well No. Solomon Gcre A-1 S-555
- 3) API Well No. 47-033 - 03147

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 1376' Watershed Crooked Run  
District Coal County Harrison Quadrangle Clarksburg

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.

Work order approved by inspector Sam O Ward Date 8/8/19

## Gore Solomon A-1 (Gore #1, Solomon Gore S-555)

API# 47-033-03147

Elevation: 1376' KB - ?' KB

Latitude: 39.321722

Longitude: -80.369547

## Gore Solomon A-1 Well Data

Casing: 8-5/8" 20 ppf Surface Csg @ 1351' KB - Cemented to Surface  
 4-1/2" 10.5 ppf Production Csg @ 4852' KB - 2395' TOC Estimate '  
 1" tbg - 188 jts?  
 Packer/Tbg Anchor - None known to be present

TD: 6790' - Plugged back to 4850'

Latch Down: ?'

Perforations: 3587'-3606' KB, 3998'-4070' KB, 4732'-4734' KB

Coal: None Known

Fresh Water: 170'

Salt Water: 1000'

## Gore Solomon A-1 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 Gore Solomon A-1 location.
3. MIRU service rig, steel pits, work string of 5000' 2-3/8" EUE tbg, and other ancillary equipment.
4. TOOH and LD 1" tbg.
5. Perform csg Freepoint test on 4-1/2". Compare to estimated TOC.
6. RIH w/ 2-3/8" work string to bottom, approx. 4845'.
7. PU 10' off bottom.
8. Use rig tank and pump or MIRU cement crew and circulate hole with 6% gel.
9. TOOH to 4714' and set 150' cement plug F/ 4714' T/ 4564' (perfs @ 4732'-4734'). *WOC, TAG PLUG, ADD CEMENT IF NEEDED*
10. TOOH to 4530' and circulate hole with 6% gel.
11. TOOH to 4050' and set 150' cement plug F/ 4050' T/ 3900' (perfs @ 3998'-4070'). *WOC, TAG PLUG, ADD CEMENT IF NEEDED*
12. TOOH to 3870' and *ADD GEL IF NEEDED.*
13. TOOH to 3586' and set 150' cement plug F/ 3586' T/ 3436' (perfs @ 3587'-3606'). *WOC, TAG PLUG, ADD CEMENT IF NEEDED*
14. TOOH to 3400' and circulate hole with 6% gel.
15. TOOH w/ 2-3/8" tbg.
16. RIH with 4-1/2" csg ripper and rip csg at Freepoint.
17. Once ripped, PU 3', break circulation and thru 4-1/2" csg set 150' cement plug 75' in/out of cut. *WOC.*
18. TOOH w/ 4-1/2" csg 30' about previous cement plug and circulate hole with 6% gel.
19. TOOH w/ 4-1/2" csg.
20. MIRU perforaters and perforate all Oil, Coal, FW, and Gas shows below 8-5/8" csg. **NONE KNOWN TO EXIST.**
21. TIH w/ 2-3/8" work string to 1426' (50' below elevation of 1376') and set 150' cement plug F/ 1426' T/ 1276' (75' inside of 8-5/8" shoe @ 1351'). *WOC*
22. TOOH to 1250' and circulate hole with 6% gel.

8/18/19

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23. TOOH w/ 2-3/8" work string to 200' and set 200' cement plug F/ 200' T/ Surface (Surface Plug).
24. Erect a monument to WV DEP specifications (CSR 35-4-5.5 – sub "b").
25. Reclaim location and roads to WV DEP Specifications.

47-033-03147P



ENERVEST

ENERVEST OPERATING, LLC

WELLBORE SCHEMATIC

Well Information:

Well Name:	Gore Solomon A-1	Partnership:	Harvest WV
County/State:	Harrison/WV	API Number:	47-033-03147
Township:		AFE Number:	
Target:		Cost Center:	472123001
Lat:	39.321722	Pool Code:	101
Long:	-80.369547	Logger's TD:	6790'

Surveys	Hole Size	Formations	Depths (KB)	SPUD DATE: TD DATE:	Elevation:	Casings	Cement	Shows
				6/21/1985 7/9/1985	1376'			8-5/8" ?? ppf surf. csg @ 1351' KB (TOC= surface) Primary: Lead - 275 sks 50/50 Poz w/ 3% CaCl2 w/ 1/4# flake/sk Tail - 55 sks Neat w/ 3% CaCl2
		Big Lime 1668' Big Injun 1750'						
		Fifth 2679'						Well was TD'd at 6,790' and then plugged back on July 9, 1985. Gel f/ 6790' t/ 6600', cement f/ 6600' t/ 6350', and gel f/ 6350' t/ 4850'.
		Speechley 3255'						
		Balltown 3566' (12 Perfs: 3587'-3606') (12 Perfs: 3998'-4070')						
		Benson 4704' (12 Perfs: 4732'-4734')						Lead - 370 sks 50/50 Poz w/ 2% Gel, 10% Salt Primary: Tail - 70 sks Neat 4-1/2" J-55 10.5 ppf prod. csg @ 4852' KB (Est. TOC = 2395' )
	7 7/8" hole		6790'					

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Completion Information		Target:	Devonian	Completion Date:	7/17/1985
Top Perforation (ft):	3587'	Frac Type/Fluid:	Air	Breakdown:	psi
Bottom Perforation (ft):	4734'	Foam Quality:		Pre-ISIP:	psi
No. of Shots:	35	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: Balltown (3587'-3606') and (3998'-4070'), and Benson (4732'-4734'). Coal @ none mentioned. FW @ 170'. Salt Water @ 1000'.

FORM 05-2

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

Lowndes Bank	Scott Oil Company
COAL OPERATOR OR OWNER	NAME OF WELL OPERATOR
Lowndes Square	P. O. Box 112, Salem, WV 26426
ADDRESS	COMPLETE ADDRESS
Clarksburg, WV 26301	July 12 19 85
COAL OPERATOR OR OWNER	WELL AND LOCATION
ADDRESS	Coal District
LEASE OR PROPERTY OWNER	Harrison County
ADDRESS	Well No. S-555
	Solomon Gore Farm

STATE INSPECTOR SUPERVISING PLUGGING Steve Casey

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Harrison

BE: Brad Thomas and Ed Arnold

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Scott Oil Company well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 9th day of July, 1985, and that the well was plugged and filled in the following manner:

BAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSG PULLED	CSG LEFT IN
Interbedded silt and shale 6800-6560	Cement & Gel	Gel 6800-6600		8 5/8 @ 1361 4 1/2 @ 4842
Elk Sand 6550-6560		Cement 6600-6350		
Interbedded silt and shale 6550-4850		Gel 6350-4850		
COAL BEAMS				
(NAME)				
(NAME)				
(NAME)				
(NAME)				

*Handwritten signature* 7/19/85

and that the work of plugging and filling said well was completed on the 9th day of July 1985

And further deponents saith not.

Sworn to and subscribed before me this 12 day of July 19 85

My commission expires:  
June 30, 1990

*Handwritten signatures*  
Notary Public.

Permit No. 47033 3147-PP

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*Handwritten initials*



IV-35  
(Rev 8-81)

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date July 30, 1985  
Operator's  
Well No. S-555  
Farm Solomon Gore A-1  
API No. 47 - 033 - 3147

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

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal /  
(If "Gas," Production x / Underground Storage / Deep / Shallow /)  
LOCATION: Elevation: 1376 Watershed Crooked Run ...  
District: Coal County Harrison Quadrangle Clarksburg 7.5

COMPANY Scott Oil Company  
ADDRESS P. O. Box 112, Salem, WV 26426  
DESIGNATED AGENT Darrel Wright  
ADDRESS P. O. Box 112, Salem, WV 26426  
SURFACE OWNER Joseph H. Rowan  
ADDRESS Route 3, Box 174, Clarksburg, WV  
MINERAL RIGHTS OWNER Solomon Gore  
ADDRESS 1621 San Pasqual Street, Pasadena, CA  
OIL AND GAS INSPECTOR FOR THIS WORK Stephen  
Casey ADDRESS Jane Lew, WV  
PERMIT ISSUED January 29, 1985  
DRILLING COMMENCED 6/21/85  
DRILLING COMPLETED 7/9/85  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30'		
9 5/8			
8 5/8		1351	to surface
7			
5 1/2			
4 1/2		4852	370 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson-Balltown Depth feet  
Depth of completed well 6800 feet Rotary / Cable Tools  
Water strata depth: Fresh 170 feet; Salt 1000 feet  
Coal seam depths: Is coal being mined in the area?

OPEN FLOW DATA  
Producing formation Benson-Balltown Pay zone depth 4732-4734 / 3998-4070 feet  
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d  
Final open flow 298 Mcf/d Final open flow Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 690 psig (surface measurement) after 72 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Pay zone depth feet  
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d  
Final open flow Mcf/d Oil: Final open flow Bbl/d  
Time of open flow between initial and final tests hours  
Static rock pressure psig (surface measurement) after hours shut in

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

Benson	4732-4734	Sand 80/100	100 sks	532 bbls	H <sub>2</sub> O
		20/40	374 sks		
Balltown	3998-4070	Sand 80/100	80 sks	429 bbls	H <sub>2</sub> O
		20/40	280 sks		

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fr. and salt water, coal, oil and
Sand & Shale			0	47	
Shale			47	55	
Sand & Shale			55	70	
Shale			70	75	
<del>Sand &amp; Shale</del>			<del>75</del>	<del>235</del>	
Shale			235	320	
Sand			320	335	
Sand & Shale			335	490	
Red Rock & Shale			490	795	
Shale			795	1085	
Shale			1085	1110	
Sand & Shale			1110	1210	
Sand			1210	1544	
Little Lime			1544	1550	
Sand & Shale			1550	1664	
Big Lime			1664	1830	
Injun			1830	1930	
Sand & Shale			1930	2255	
Sand			2255	2615	
Sand & Shale			2615	2715	
Sand			2715	2786	
Sand			3580	3590	
Sand & Shale			3590	4200	
Sand & Shale			4200	4725	
Sand			4725	4745	
Sand & Shale			4745	5790	
Sand & Shale			5790	6355	
Gamma Ray Tops					
Big Lime			1668	1756	
Injun			1760	1824	
5th Sand			2679	2700	
Speechley			3255	3284	
Balltown			3566	3596	
Benson			4704	4714	
Devonian Shale			4714	5776	

(Attach separate sheets as necessary)

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Scott Oil Company

Well Operator

By:

*Daniel Wright*

Date:

July 30, 1985

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

47-033-03147



Select County: (033) Harrison
Enter Permit #: 03147
Get Data, Reset buttons
Checkboxes for Location, Production, Flugging, etc.

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

WV Geological & Economic Survey

Well: County = 33 Permit = 03147

Report Time: Thursday, February 14, 2019 10:44:01 AM

Location Information: View Map

Table with columns: API, COUNTY, PERMIT, TAX\_DISTRICT, QUAD\_75, QUAD\_15, LAT\_DD, LGN\_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

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\_ONTY

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

Large 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

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47-033-03147P

4703303147	Original Loc	Baltown	Well Record	3566	Reasonable	30	Reasonable	1376	Ground Level
4703303147	Original Loc	Benson	Well Record	4704	Reasonable	10	Reasonable	1376	Ground Level
4703303147	Original Loc	Braffier	WVGES Staff Geologist	5174	Reasonable	0	Reasonable	1376	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOY	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOY	D_TOP	D_BOY	N_TOP	N_BOY	L_TOP	L_BOY	T_TOP	T_BOY	S_TOP	S_BOY	O_TOP	O_BOY	INCH2	INCH5
4703303147	1350	6796		G.D.I.T.C	Y	N	1350	6785	1350	6796			1350	5788	1350	6792			1350	6782	N	Y

Comment: \*logs:caliper

**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](#)

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

FILENAME
4703303147dgact.tif
4703303147dgact.tif

There is no Plugging data for this well

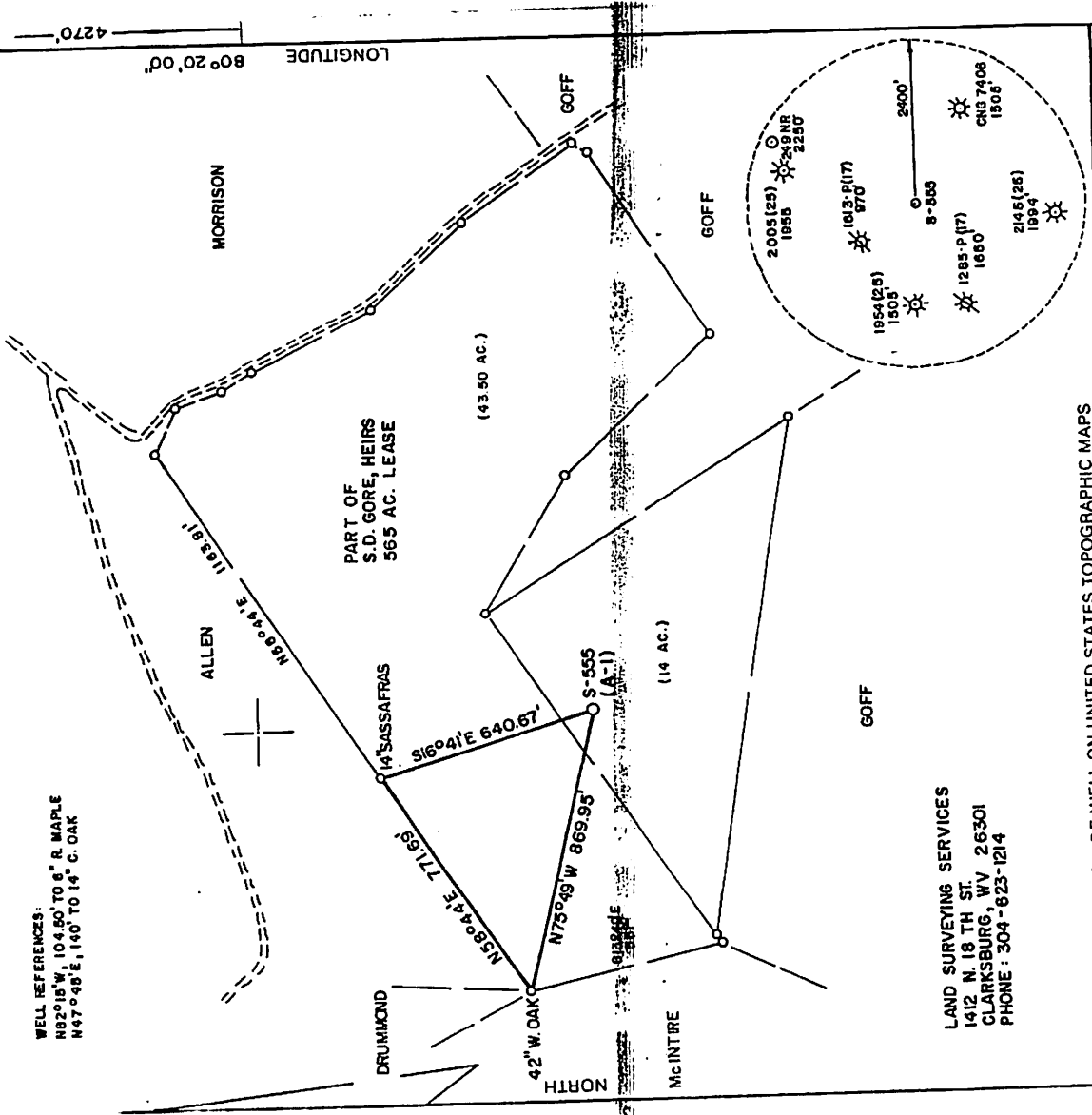
There is no Sample data for this well

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47-033-03147

260' LATITUDE 39°20'00"

WELL REFERENCES:  
 N82°15' W, 104.60' TO 6" R. MAPLE  
 N47°48' E, 140' TO 14" C. OAK

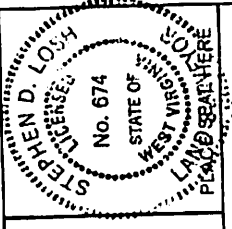


LAND SURVEYING SERVICES  
 1412 N. 18 TH ST.  
 CLARKSBURG, WV 26301  
 PHONE : 304 - 623-1214

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF \_\_\_\_\_  
 ACCURACY 1 in 2500  
 PROVEN SOURCE OF \_\_\_\_\_  
 ELEVATION TOP OF KNOB 1150' E.  
 OF LOCATION ELEV - 1531'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) *[Signature]*  
 R.P.E. \_\_\_\_\_ 674  
 L.L.S. STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE OCTOBER 30, 1984  
 OPERATOR'S WELL NO. S-555  
 API WELL NO. GORE A-1

WELL TYPE: OIL \_\_\_\_\_ GAS \_\_\_\_\_ LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 1376' WATERSHED \_\_\_\_\_ CROOKED RUN \_\_\_\_\_  
 DISTRICT \_\_\_\_\_ COAL \_\_\_\_\_ COUNTY HARRISON

QUADRANGLE CLARKSBURG 7.5 min.  
 SURFACE OWNER JOSEPH H. ROWAN  
 OIL & GAS ROYALTY OWNER SOLOMON D. GORE, HEIRS LEASE ACREAGE 565

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 FOX \_\_\_\_\_ ESTIMATED DEPTH 5900'  
 WELL OPERATOR JAMES F. SCOTT DESIGNATED AGENT DARREL WRIGHT  
 ADDRESS P.O. BOX 112 ADDRESS P.O. BOX 112 SALEM, WV 26426

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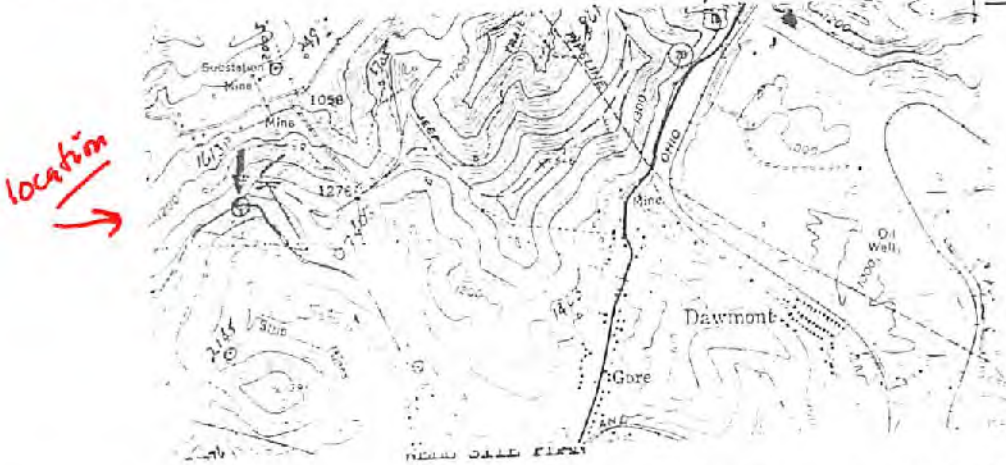
COUNTY NAME \_\_\_\_\_ PERMIT \_\_\_\_\_

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Clarksburg 7.5 min.

LEGEND

Well Site ⊕

Access Road ———



Sketch to show existing access road, made to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary ———

Road = = = = =

Existing fence — x — x —

Planned fence — / — / —

Stream ———

Open ditch ———

Diversion ———

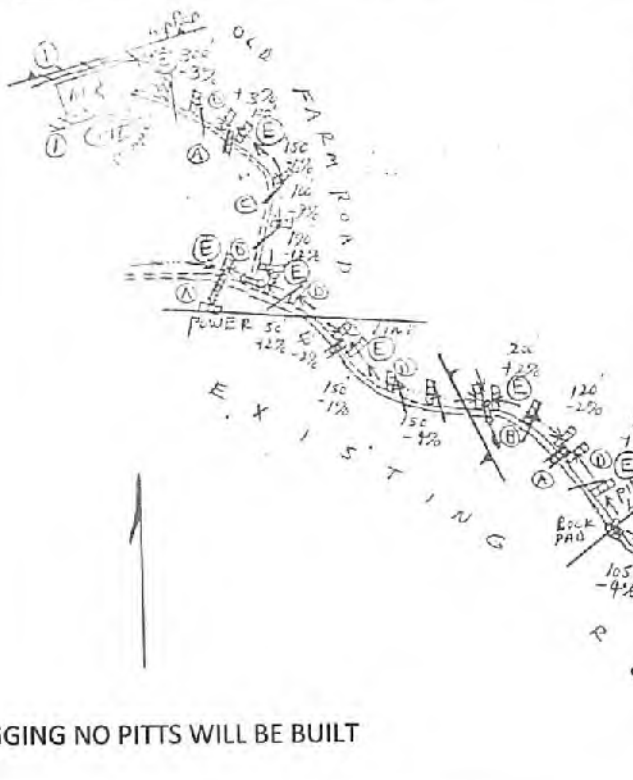
Spring ⊕ →

Wet spot ⊕

Building [ ]

Drain pipe — ○ — ○ —

Waterway ← = = = = →



LOCATION IS ON A THINLY WOODED RIDGE IN A LOW GAP. USABLE TIMBER WILL BE CUT AND STACKED TOPSILK WILL BE STOCKPILED FOR USE IN REVEGETATION.

ROCK WILL BE USED ON ROADS WHERE NECESSARY.

Natural vegetation (filter strip) will remain undisturbed in areas between construction & natural water course.

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FOR PLUGGING NO PITTS WILL BE BUILT

WW-4A  
Revised 6-07

1) Date: August 1, 2019  
2) Operator's Well Number  
Solomon Gore A-1 S-555  
3) API Well No.: 47 - 033 - 03147

**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>Sharon K. Kimble</u>	Name _____
Address <u>1740 Upper Lamberts Run Road</u>	Address _____
<u>Clarksburg, WV 263016441</u>	_____
(b) Name <u>Gary Bates et al</u>	(b) Coal Owner(s) with Declaration
Address <u>127 Howard Run Road</u>	Name _____
<u>Clarksburg, WV 26301</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	<u>EnerVest Operating, L.L.C.</u>
By:	<u>Barry K. Lay</u> <i>Barry K. Lay</i>
Its:	<u>Senior Vice President and General Manager</u>
Address	<u>300 Capitol Street, Suite 200</u>
	<u>Charleston, WV 25301</u>
Telephone	<u>304-343-5505</u>

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Subscribed and sworn before me this 6<sup>th</sup> day of August 2019  
*[Signature]* Notary Public

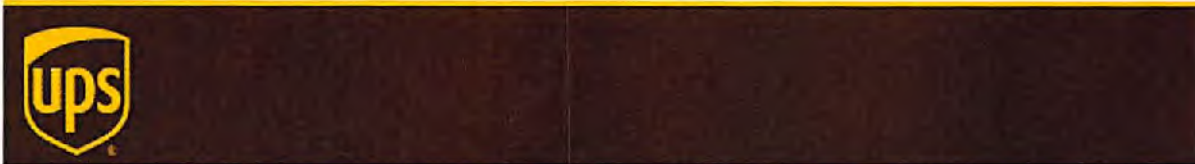
My Commission Expires May 3, 2022

**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](mailto:depprivacyofficer@wv.gov).

Jackson, Jerry

**From:** UPS Quantum View <pkginfo@ups.com>  
**Sent:** Friday, August 09, 2019 2:42 PM  
**To:** Jackson, Jerry  
**Subject:** [External] UPS Delivery Notification, Tracking Number 1ZY394V30296827624



**Your package has been delivered.**

**Delivery Date:** Friday, 08/09/2019  
**Delivery Time:** 02:35 PM

At the request of EnerVest Operating, LLC this notice alerts you that the status of the shipment listed below has changed.

### Shipment Detail

<b>Tracking Number:</b>	<a href="#"><u>1ZY394V30296827624</u></a>
<b>Ship To:</b>	Sharon K. Kimble 1740 UPPER LAMBERTS RUN RD CLARKSBURG, WV 26301 US
<b>UPS Service:</b>	UPS 2ND DAY AIR
<b>Number of Packages:</b>	1
<b>Weight:</b>	0.3 LBS
<b>Delivery Location:</b>	BACK PORCH

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Jackson, Jerry

**From:** UPS Quantum View <pkginfo@ups.com>  
**Sent:** Friday, August 09, 2019 2:47 PM  
**To:** Jackson, Jerry  
**Subject:** [External] UPS Delivery Notification, Tracking Number 1ZY394V30292376075



Your package has been delivered.

**Delivery Date:** Friday, 08/09/2019  
**Delivery Time:** 02:40 PM



- [Set Delivery Instructions](#)
- [Get Free Alerts](#)
- [View Delivery Planner](#)

At the request of EnerVest Operating, LLC this notice alerts you that the status of the shipment listed below has changed.

### Shipment Detail

**Tracking Number:** [1ZY394V30292376075](#)

**Ship To:** Gary Bates et al  
127 HOWARD RUN RD  
CLARKSBURG, WV 26301  
US

**UPS Service:** UPS 2ND DAY AIR

**Number of Packages:** 1

**Package Weight:** 0.3 LBS

**Delivery Location:** MET CUSTOMER MAN

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**SURFACE OWNER WAIVER**

Operator's Well  
Number

Solomon Gore A-1 S-555

**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.

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**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.

WV Department of  
Environmental Protection

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.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____
Signature		By _____
		Its _____
		_____ Date _____

Signature \_\_\_\_\_ Date \_\_\_\_\_

47-033-03147P

WW-9  
(5/16)

API Number 47 - 033 - 03147  
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) Crooked Run Quadrangle Wolf Summit

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? \_\_\_\_\_

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 offsite.)

SDW  
8/18/19

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.

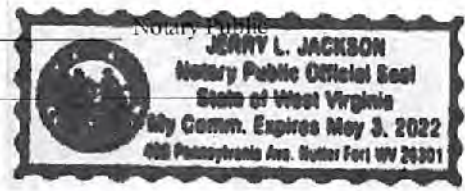
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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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WV Department of  
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Subscribed and sworn before me this 6th day of August, 2019

[Signature]  
My commission expires May 3, 2022



Operator's Well No. \_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed 2.00 Prevegetation pH 6.5

Liming 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 Treefoil	15	Birdsfoot Treefoil	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: S. J. Dewart

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

Title: Land Manager OGG Inspector [Signature] Date: 8/18/19  
8/1/2019

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): Crooked Run Quad: Clarksburg

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: Crooked Run 4,100' +

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

WW-9- GPP  
Rev. 5/16

Page 2 of 2  
API Number 47 - 033 - 03147  
Operator's Well No. \_\_\_\_\_

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

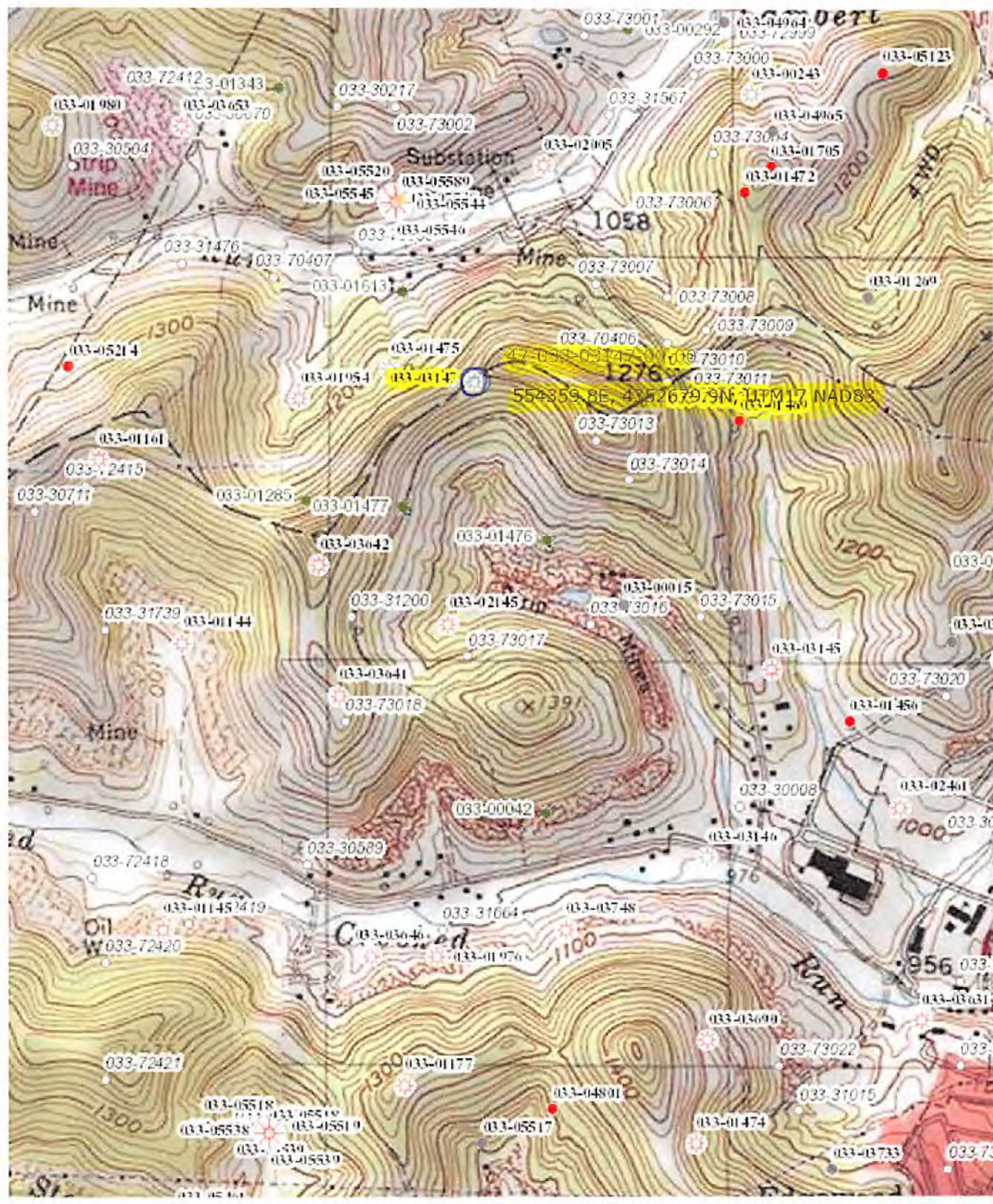
7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

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

Signature: 

Date: 8/8/2019

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47-033-03147A

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-033-03147 WELL NO.: Solomon Gore A-1 S-555

FARM NAME: Joseph Rowan

RESPONSIBLE PARTY NAME: Jerry L. Jackson

COUNTY: Harrison DISTRICT: Coal

QUADRANGLE: Clarksburg

SURFACE OWNER: Sharon K. Kimble, et als

ROYALTY OWNER: Solomon D. Gore Heirs

UTM GPS NORTHING: 4352679.9

UTM GPS EASTING: 554359.8 GPS ELEVATION: 1376'

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.

Signature

Land Manager  
Title

8/1/2019  
Date

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