



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Monday, September 23, 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 S GORE A-2
47-033-03146-00-00

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: S GORE A-2
Farm Name: CAROL LEE RADDON
U.S. WELL NUMBER: 47-033-03146-00-00
Vertical Plugging
Date Issued: 9/23/2019

Promoting a healthy environment.

I

47-033-03146P

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. Solomon Gore A-2 S-557
3) API Well No. 47-033 - 03146

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 981' 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 Name Sam Ward
Address P.O. Box 2327
Buckhannon, WV 26201
- 9) Plugging Contractor Name TBD
Address _____

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 S.D. Ward Date 8/8/19

Gore Solomon A-2 (Gore #2 , Solomon Gore S-557)

API# 47-033-03146

Elevation: 981' KB – 10' KB

Latitude: 39.311127

Longitude: -80.362827

Gore Solomon A-2 Well Data

Casing: 8-5/8" 20 ppf Surface Csg @ 864' KB – Cemented to Surface
 4-1/2" 10.5 ppf Production Csg @ 4401' KB – 2496' TOC Estimate'
 No tubing in well

TD: 4506'
 Latch Down: ?'
 Perforations: 3208'-3213' KB, 4328'-4334' KB
 Coal: None Known
 Fresh Water: 170'
 Salt Water: 1000'

Gore Solomon A-2 Procedure:

1. Notify State Inspector, Sam Ward – (304)-389-7583 – Samuel.D.Ward@wv.gov, 24 hours prior to commencing operations.
2. Prep Gore Solomon A-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. 4500'.
6. PU 10' off bottom.
7. Use rig tank and pump or MIRU cement crew and circulate hole with 6% gel.
8. TOOH to 4314' and set 150' cement plug F/ 4314' T/ 4164' (perfs @ 4328'-4334').
9. TOOH to 4132' and circulate hole with 6% gel.
10. TOOH to 3193' and set 150' cement plug F/ 3193' T/ 3043' (perfs @ 3208'-3213').
11. TOOH to 3011' and circulate hole with 6% gel.
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' ^{above} ~~about~~ previous cement plug and circulate hole with 6% gel.
16. TOOH w/ 4-1/2" csg.
17. MIRU perforators 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 1031' (50' below elevation of 981') and set 242' cement plug F/ 1031' T/ 789' (75' inside of 8-5/8" shoe @ 864'). WOC
19. TOOH to 757' and circulate hole with 6% gel.
20. TOOH w/ 2-3/8" work string to 200' and set 200' cement plug F/ 200' T/ Surface (Surface Plug).
21. Erect a monument to WV DEP specifications (CSR 35-4-5.5 – sub "b").
22. Reclaim location and roads to WV DEP Specifications.

SDW
8/8/19WOC, ADD CEMENT
IF NEEDEDWOC, ADD CEMENT IF
NEEDED.RECEIVED
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47-033-03146P



ENERVEST OPERATING, LLC

WELLBORE SCHEMATIC

Well Information:

Well Name:	Gore Solomon A-2	Partnership:	Harvest WV
County/State:	Harrison/WV	API Number:	47-033-03146
Township:		AFE Number:	
Target:		Cost Center:	472123002
Lat:	39.311127	Pool Code:	101
Long:	-80.362827	Logger's TD:	4506'

Surveys	Hole Size	Formations	Depths (KB)	SPUD DATE: 7/10/1985 TD DATE: 7/16/1985	Casings	Cement	Shows
				Elevation: 981'			8-5/8" 23 ppf surf. csg @ 864' KB (TOC= surface) Primary: Lead - 105 sks 50/50 Poz w/ 3% CaCl2 w/ 1/4# flake Tail - 100 sks Neat w/ 3% CaCl2
		Big Lime 1286' Big Injun 1350' <div style="background-color: yellow; text-align: center; padding: 2px;">Fifth</div>					KB = 10'
		Speechley 2900' Balltown 3206' (12 Perfs: 3208'-3213')					
		Benson 4324' (16 Perfs: 4328'-4334')					Primary: 280 sks Thixotropic w/ 10% Cal Seal, 1% CaCl2 4-1/2" J-55 10.5 ppf prod. csg @ 4401' KB (Est. TOC = 2496')
	7 7/8" hole		4506'				

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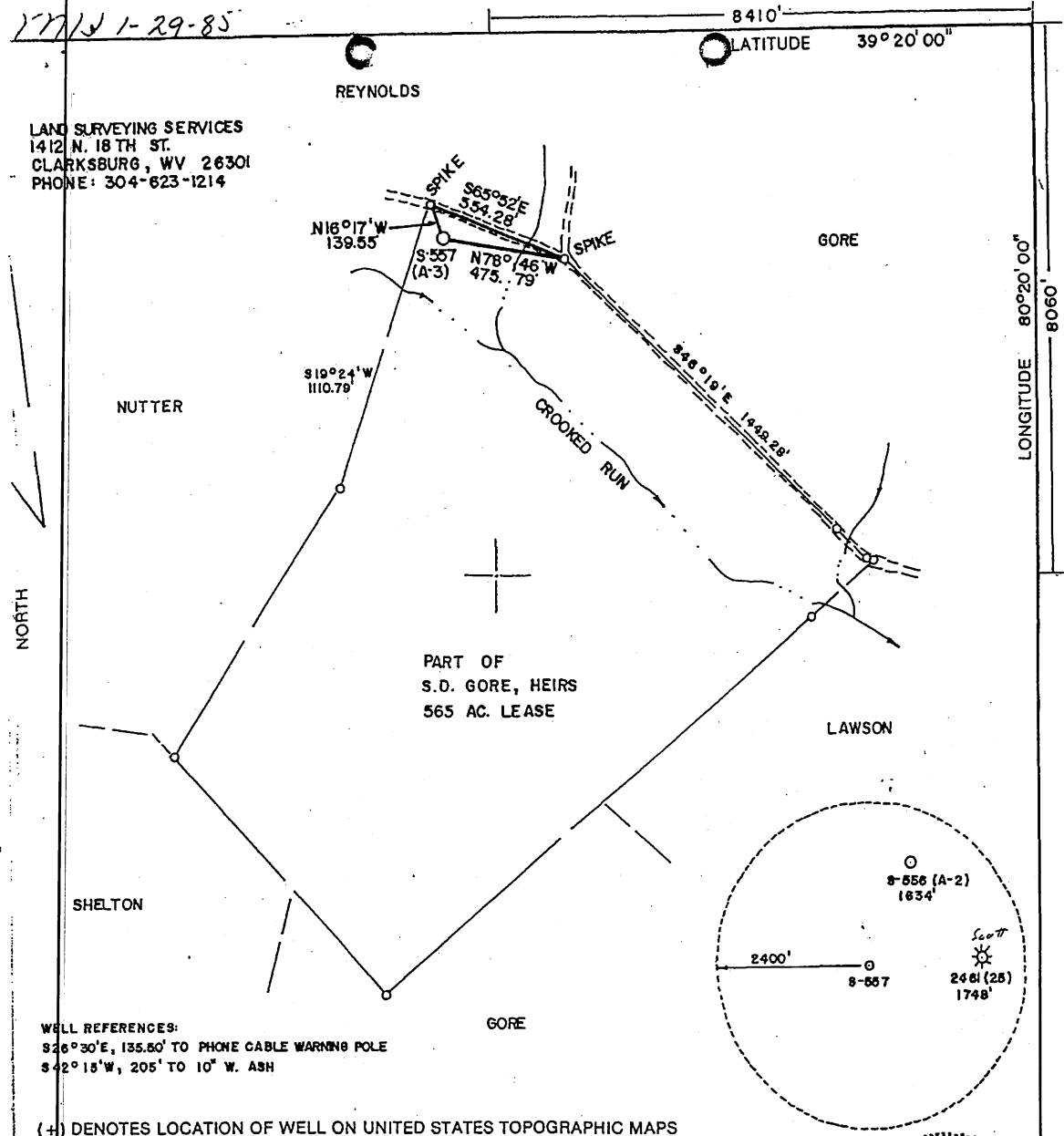
Completion Information Target: Devonian Completion Date: 7/20/1985

Top Perforation (ft): 3208'	Frac Type/Fluid: Air	Breakdown: psi	
Bottom Perforation (ft): 4334'	Foam Quality:	Pre-ISIP: psi	
No. of Shots: 28	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 (3208'-3213'), and Benson (4328'-4334'). Coal @ 312'-315', 352', and 355'. FW @ 15, and 59'. Salt Water @ 1020'.

1771/1-29-85

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

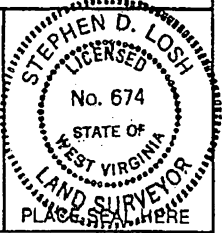


FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 in 2500
PROVEN SOURCE OF ELEVATION R.D. INTER. 475' EAST
OF LOCATION ELEV. - 976'

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) *Stephen D. Losh*

R.P.E. _____ L.L.S. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE OCTOBER 26, 1984
OPERATOR'S WELL NO. S-557
API WELL NO. GORE A-32

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

LOCATION: ELEVATION 981' WATERSHED CROOKED RUN
DISTRICT COAL COUNTY HARRISON
QUADRANGLE CLARKSBURG 7.5 min.

SURFACE OWNER WILLIAM L. GORE, ESTATE ACREAGE 89.24
OIL & GAS ROYALTY OWNER SOLOMON D. GORE, HEIRS LEASE ACREAGE 565
LEASE NO. 1854

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 SALEM, WV 26426

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IV-35
(Rev 8-81)

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State of West Virginia
Department of Mines
Oil and Gas Division

Date July 30, 1985
Operator's
Well No. S-557
Farm Solomon Gore A-2
API No. 47 - 033 - 3146

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: 981 Watershed Crooked Run ...
District: Coal County Harrison Quadrangle Clarksburg

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 William L. Gore Estate
ADDRESS Pasadena, CA 91106
MINERAL RIGHTS OWNER William L. Gore Estate
ADDRESS Pasadena, CA 91106
OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey
ADDRESS Jane Lew, WV

PERMIT ISSUED January 29, 1985
DRILLING COMMENCED 7/10/85
DRILLING COMPLETED 7/16/85

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		864	to surface
7			
5 1/2			
4 1/2		4401	306 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson-Balltown Depth ... feet
Depth of completed well 4506 feet Rotary ___ / Cable Tools ___
Water strata depth: Fresh 15, 59 feet; Salt 1020 feet
Coal seam depths: 312-315, 352, 355 Is coal being mined in the area?

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WELL FLOW DATA

Producing formation Onson, Balltown Pay zone depth 3208-3213
4328-4334 feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow 311 Mcf/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 4 hours
 Static rock pressure 800 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

(Continue on separate sheet)

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

Benson	4328-4334	Sand 80/100 100 sks 20/40 500 sks	688 bb1 H ₂ O
Balltown	3208-3213	Sand 80/100 93 sks 20/40 359 sks	454 bb1 H ₂ O

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all f and salt water, coal, oil and
Top soil			0	5	
Sand & Shale			5	32	
Sand			32	35	
Sand & Shale			35	312	
Coal			312	315	
Sand			315	352	
Coal			352	355	
Shale			355	425	
Sand			425	433	
Sand & Shale			433	490	
Sand			490	535	
Sand & Shale			535	640	
Shale			640	670	
Sand			670	836	
Sand & Shale			836	855	
Sand			855	882	
Sand & Shale			882	960	
Shale			960	983	
Sand & Shale			983	1260	
Little Lime			1260	1270	
Lime & Shale			1270	1300	
Big Lime			1300	1460	
Sand & Shale			1460	1875	
Sand			1875	1885	
Sand & Shale			1885	2260	
Shale			2260	2310	
Sand			2310	2325	
Shale			2325	2920	
Sand			2920	2935	
Sand & Shale			2935	4330	
Sand			4330	4410	
Shale			4410	4506 TD	
Gamma Ray Tops					
Big Lime			1286	1348	
Injun			1350	1402	

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4703303146	Original Loc	Greenbrier Group	Well Record	1286	Reasonable	62	Reasonable	981	Ground Level
4703303146	Original Loc	Big Lime	Well Record	1286	Reasonable	114	Reasonable	981	Ground Level
4703303146	Original Loc	Big Injun (undiff)	Well Record	1350	Reasonable	52	Reasonable	981	Ground Level
4703303146	Original Loc	Fifth	Well Record	2310	Reasonable	10	Reasonable	981	Ground Level
4703303146	Original Loc	Speechley	Well Record	2900	Reasonable	100	Reasonable	981	Ground Level
4703303146	Original Loc	Balltown	Well Record	3206	Reasonable	8	Reasonable	981	Ground Level
4703303146	Original Loc	Benson	Well Record	4324	Reasonable	16	Reasonable	981	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	L_TOP	L_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5
4703303146	1146	4490		G,D,I,T,C.*	Y	N	1146	4482	1146	4488			1146	4486	1146	4488			1146	4490	N	Y

Comment: *logs:caliper,bit size

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.

FILENAME
4703303146dqictc.tif

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 other¹
- 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 other¹
- p perforation depth control or perforate

¹other 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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Environmental Protection

47-033-03146P

WW-4A
Revised 6-07

1) Date: August 1, 2019
2) Operator's Well Number
Solomon Gore A-2 S-557
3) API Well No.: 47 - 033 - 03146

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

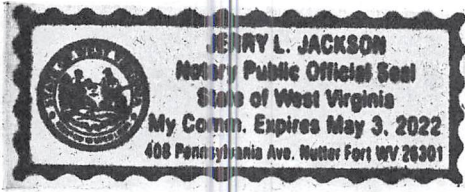
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Carol Lee Raddon</u>	Name _____
Address <u>1621 San Pasqual Street</u>	Address _____
<u>Pasadena, CA 911063547</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
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
 Its: Senior Vice President and General Manager
 Address 300 Capitol Street, Suite 200
Charleston, WV 25301
 Telephone 304-343-5505

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Office of Oil and Gas

Subscribed and sworn before me this 6th day of August 2019
[Signature] Notary Public
 My Commission Expires May 3, 2022
 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.

WW-9
(5/16)

API Number 47 - 033 - 03146
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

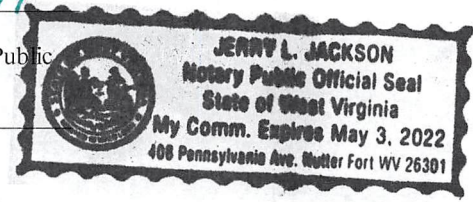
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Subscribed and sworn before me this 6th day of August, 2019

[Signature]

Notary Public

My commission expires May 3, 2022



Form WW-9

Operator's Well No. _____

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 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. P. Wanda

Comments: _____

Title: Land Manager
OOG Inspector
[Signature]

Date: 8/1/19
8/01/2019

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Field Reviewed? () Yes () No

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 300' +

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

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AUG 15 2019
WV Department of
Environmental Protection

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

N/A

[Empty rectangular box for text entry]

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

[Empty rectangular box for text entry]

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.

[Empty rectangular box for text entry]

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

[Empty rectangular box for text entry]

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Signature: [Handwritten Signature] 8/8/2019

Date: 8/8/2019

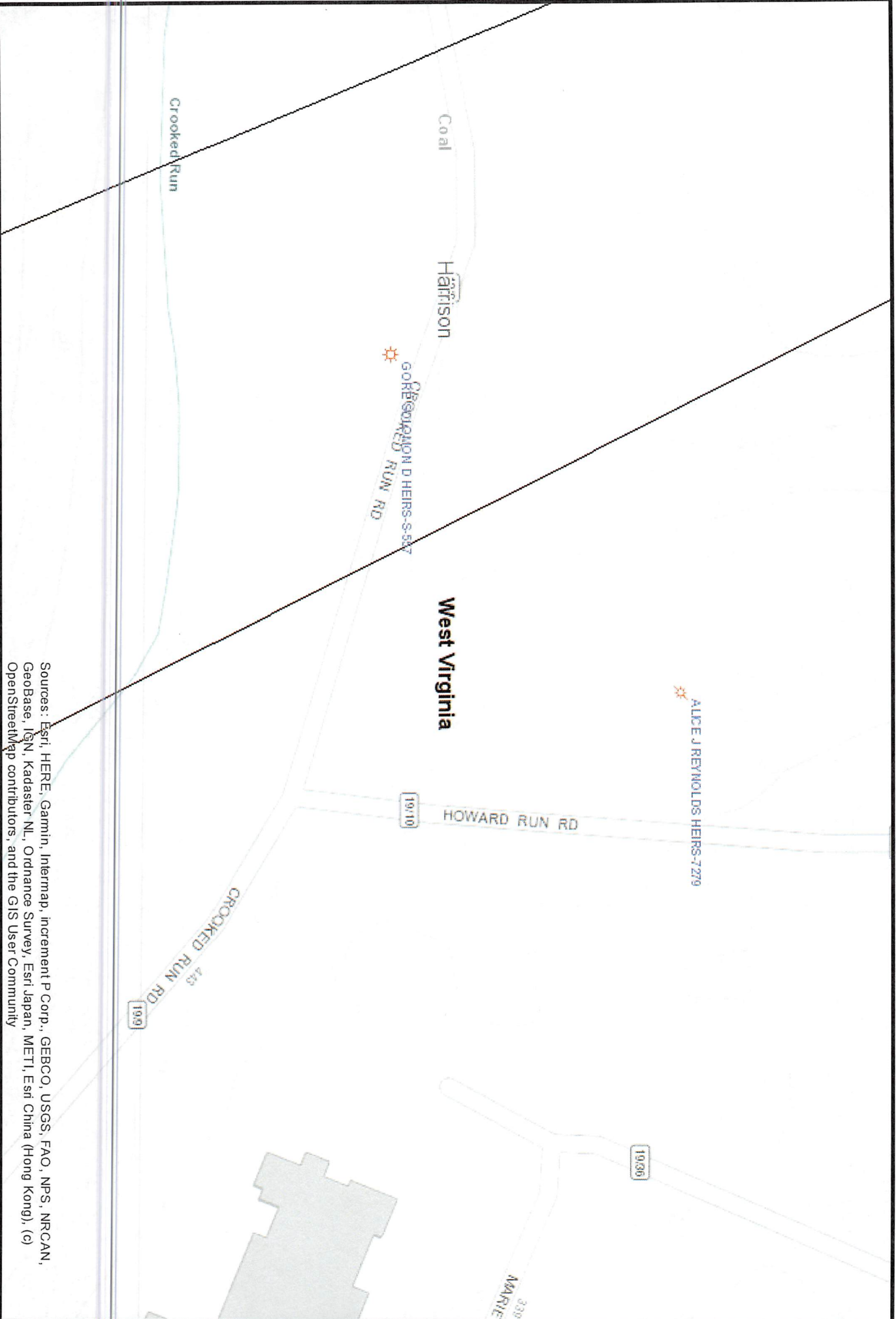
47-033-03146f



Solomon Gore A-2 S-557

71

Date Printed: 2019-08-06



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





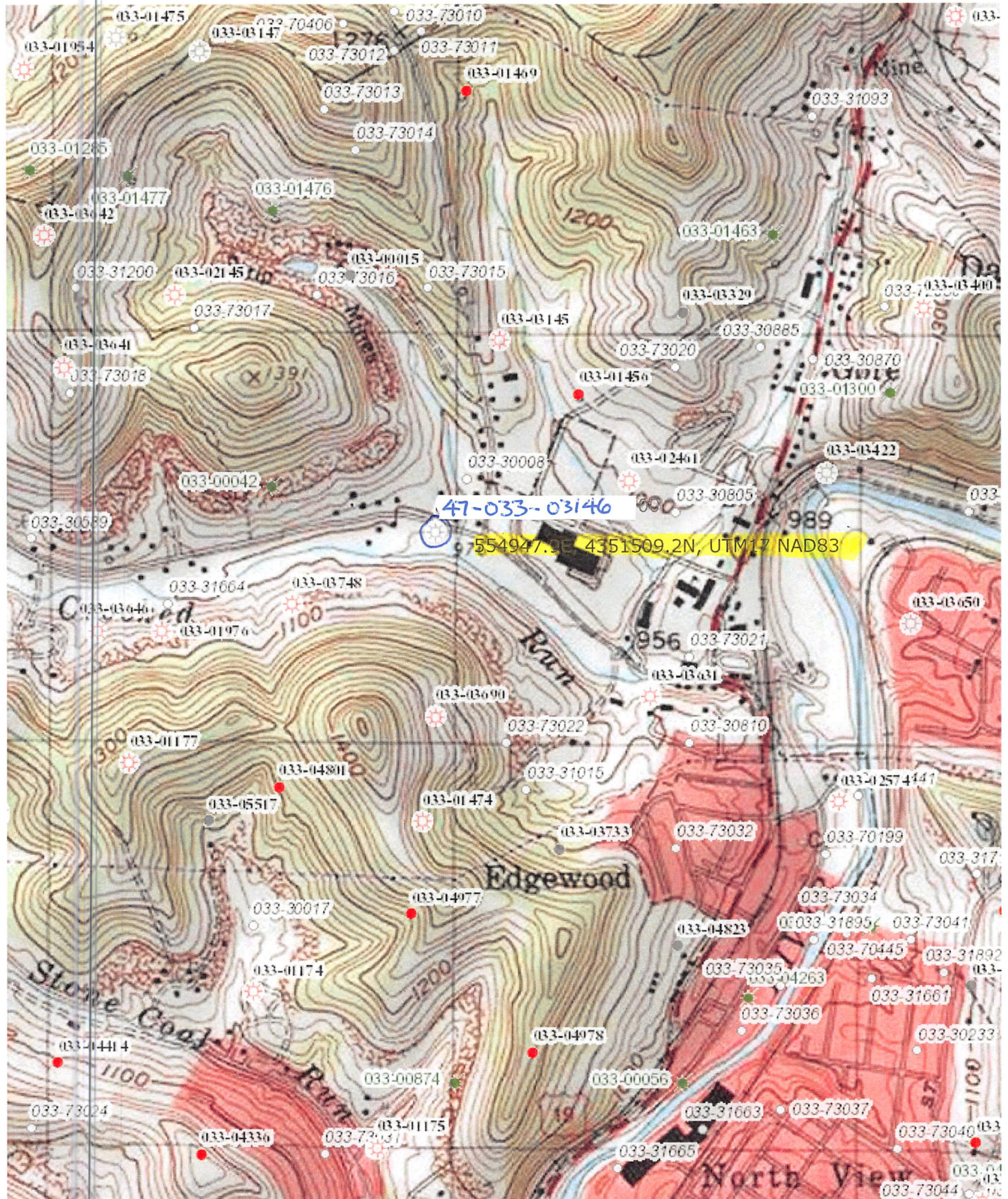
Solomon Gore A-2 S-557

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Date Printed: 2019-08-06



Source: Esri, DigitalGlobe, GeoEye, Earthstar (geographics), GNS/AVIUS DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-033-03146 WELL NO.: Solomon Gore A-2 S-557

FARM NAME: Carol Lee Raddon

RESPONSIBLE PARTY NAME: Jerry L. Jackson

COUNTY: Harrison DISTRICT: Coal

QUADRANGLE: Clarksburg

SURFACE OWNER: Carol Lee Raddon

ROYALTY OWNER: Solomon D. Gore Heirs

UTM GPS NORTHING: 4351509.2

UTM GPS EASTING: 554947.9 GPS ELEVATION: 981'

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

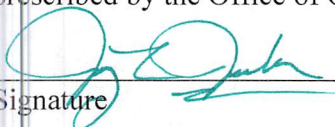
Real-Time Differential

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

8/01/2019
Date

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Office of Oil and Gas

AUG 15 2019

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Environmental Protection