



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Friday, July 14, 2017
WELL WORK PERMIT
Vertical / Plugging

MOUNTAIN V, LLC
PO BOX 470

BRIDGEPORT, WV 26330

Re: Permit approval for 1-565
47-001-00095-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: 1-565
Farm Name: REGER, GRETTA
U.S. WELL NUMBER: 47-001-00095-00-00
Vertical / Plugging
Date Issued: 7/14/2017

Promoting a healthy environment.

07/14/2017

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.

100095P

WW-4B
Rev. 2/01

1) Date May 23, 2017
2) Operator's
Well No. Greta Reger #1 650565
3) API Well No. 47-001 - 00095

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 X / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1553' Watershed Rock Run
District Union County Barbour Quadrangle Century 7.5'

6) Well Operator Mountain V LLC 7) Designated Agent Mike Shaver
Address PO Box 470 Address PO Box 470
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Ken Greynolds Name Mountain V Oil & Gas, Inc.
Address 613 Broad Run Road Address PO Box 470
Jane Lew, WV 26378 Bridgeport, WV 26330

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 *Ken Greynolds* Date 5-24-17

07/14/2017

GRETA REGER #1 650565 API 47-001-00095**PLUGGING PROCEEDURE**

1. Swab 4-1/2" casing dry.
2. Pump 200' cement plug (to cover TD and the Benson zone) followed by 6% gel to fill the 4-1/2" casing.
3. Cut 4-1/2" casing at approximately 3,550' and pull up to make sure casing is free.
4. Break circulation with 6% gel and spot a 100' cement plug through 4-1/2" casing to the casing cut point followed by 6% gel.
5. Pull 4-1/2" casing to approximately 2,423'.
6. Spot a 100' cement plug through 4-1/2" casing from 2,423' to 2,323' (to cover Fifth Sand gas show) followed by 6% gel.
7. Pull all of the remaining 4-1/2" casing from the well.
8. Attempt to pull 7" casing. If casing is free and can be pulled, proceed to step #10. If casing will not pull, run a free point log and cut casing at the free point and pull up to make sure casing is free.
9. Break circulation with 6% gel and spot a 100' cement plug through 7" casing to the casing cut point followed by 6% gel.
10. Pull 7" casing to approximately 1,673' and spot a 100' cement plug from 1,673' to 1,573' to cover the base of the 8-5/8" casing followed by 6% gel.
11. Pull all of the remaining 7" casing from the well.
12. Cut 8-5/8" casing at approximately 1,450' and pull up to make sure casing is free.
13. Break circulation with 6% gel and spot 100' cement plug through the 8-5/8" casing to the casing cut point followed by 6% gel.
14. Pull 8-5/8" casing to approximately 720' and spot a 100' cement plug from 720' to 620' to cover the water zone at 670' followed by 6% gel.
15. Pull the remaining 8-5/8" casing from the well.
16. Attempt to pull the 10" casing from the well.
17. If casing is free, pull the casing to 200'. If casing is not free and cannot be pulled, proceed to step #19.
18. Break circulation with 6% gel and spot a cement plug from 200' to surface and pull remaining casing from the well. Proceed to step #20.
19. Shoot squeeze holes at 200' and squeeze cement from 200' to surface and leave 10" casing full of a 200' cement plug to surface.
20. Erect a plugging monument that is 6" in diameter and 30" tall with API number noted on the monument.
21. Reclaim the location.

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Philippi

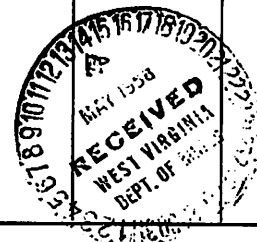
WELL RECORD

Permit No. BAR-95

Oil or Gas Well GAS

Company <u>Cumberland and Allegheny Gas Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>800 Union Trust Building, Pgh. 19, Pa.</u>	Size			
Farm <u>Greta Reger</u> Acres <u>7 1/4</u>	16			Kind of Packer
Location (waters)	18			
Well No. <u>565</u> Elev. <u>1542</u>	10"	<u>527'11"</u>	<u>527'11"</u>	Size of
District <u>Union</u> County <u>Barbour</u>	8 1/4"	<u>1641'6"</u>	<u>1635'10"</u>	Depth set
The surface of tract is owned in fee by	7 1/2"	<u>2238'6"</u>	<u>2238'6"</u>	
Address	5 3/8"			
Mineral rights are owned by	2"	<u>4241'8"</u>	<u>4241'8"</u>	Perf. top
Address				Perf. bottom
Drilling commenced <u>November 12, 1957</u>	Liners Used			Perf. top
Drilling completed <u>March 11, 1958</u>				Perf. bottom
Date Shot From To				
With				
Open Flow /10ths Water in Inch				
/10ths Merc. in Inch				
Volume Cu. Ft.	CASING CEMENTED	SIZE	No. Ft.	Date
Rock Pressure <u>1310</u> lbs. <u>48</u> hrs.				
Oil bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT	FEET	INCHES	
Fresh water feet	FEET	INCHES	FEET	INCHES
Salt water feet	FEET	INCHES	FEET	INCHES

Formation	Color	Thickness Feet	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Space		7	0	7	Set 523'5"	of 10"	(Thds. Off)
Clay		18	7	25	Set 1623'1"	of 8 5/8"	(Thds. Off)
Slate		18	25	43	Set 2220'6"	of 7"	(Thds. Off)
Red Rock		17	43	60	Set 4206'8"	of 4 1/2"	(Thds. Off)
Slate		11	60	71			
Red Rock		19	71	90			
Slate		64	90	154	Water at 100'		
Shale		11	154	165	Water at 670' 1 baller per hr.		
Slate		172	165	337			
Coal		3	337	340	Water and Gas at 1792' Hole full of water.		
Lime		15	340	355			
Slate		15	355	375	11-25-57 Ran 10 3/4" Csg.		
Little Dunkard		122	375	497	12-14-57 Ran & Cemented 8 5/8"		
Lime		128	497	625	with 8 bags cement.		
Slate		10	625	635	1-8-58 Ran 7" Csg. pipe set in		
Salt Sand		60	635	695	20' red mud.		
Slate		25	695	720	3-3-58 Ran 4 1/2" tub with 50 sacks		
Salt Sand		22	720	742	common cement.		
Shale Black		4	742	746	(circulated - Well Service)		
Slate & Shells		8	746	754	Cement Wt. 15.5# & 15.7# Water Wt.		
Salt Sand		246	754	1000	8.4#		
Slate & Shells		180	1000	1180	3-12-58 Birdwell Gamma - Temperature		
Salt Sand		30	1180	1210	3-18-58 Fractured--Dowell-Petrojel		
Slate & Shells		40	1210	1250			
Red Rock		274	1250	1524			
Pencil Cave		10	1524	1534			
Red Rock		2	1534	1536			
Big Line		101	1536	1637			
Keener		8	1637	1645			
Red Rock		20	1645	1665			
Big Injun		80	1665	1745			
Slate & Shells		45	1745	1790			
Squaw		19	1790	1809			
Slate & Shells		26	1809	1835			
Weir		101	1835	1936			
Slate & Shells		29	1936	1965			
Berea		16	1965	1981			
Red Rock		64	1981	2045			
Gantz		8	2045	2053			



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(Over)

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Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate & Shells		35	2053	2088			
50' Sand		9	2088	2097			
Slate & Shells		17	2097	2114			
30' Sand		10	2114	2124			
Red Rock		18	2124	2142			
Gordon Stray		7	2142	2149			
Red Rock		68	2149	2217			
Gordon		7	2217	2224			
Red Rock		95	2224	2319			
4th Sand		10	2319	2329			
Slate & Shells		49	2329	2378			
5th Sand		11	2378	2389	Gas at 5th Sand.		No. Test.
Slate & Shells		37	2389	2426			
Bayard		5	2426	2431			
Slate & Shells		83	2431	2514			
Elizabeth Sand		12	2514	2526			
Slate & Shells		1687	2526	4213			
Benson		10	4213	4223			
T. D.			4223				
					Pick-Up before fracture 3-11-58		
					1. 2. 3. 4. 5. 6. 7. 8. ...		
					0 2½ 5 7 9 11 13 15		
					9. 10. 11. 12. 13. 14. 15.		
					17 19 21 23 25 27 29		
					16M 17M 18.M. 19.M 20.M 30.M 60.M		
					31 33 35 37 39 60 114		
					R.P. 1250# 17 Hrs.		
					3-11-58 36/10 W. 1½" -- 105,809 CF.		
					R. P. 1250# 17Hrs.		
					3-12-58 20/10 W. 1½" -- 78,869 c.f.		
					R.P. 1580# 90 Hrs.		
					700# 90 Hrs: Braden head.		
					Before Frac. 78 MCF. RP. 1400# 24 Hr.		
					Pumps broke down during fracture, sand screened out.		
					FINAL 3-26-58		
					1M. 2M. 3M. 4M. 5M. 6M. 7M.		
					15 25 35 45 55 65 75		
					8M. 9M. 10M. 11M. 12M. 13M. 14M.		
					85 95 105 115 125 135 145		
					15M. 16M. 17M. 18M. 19M. 20M.		
					155 165 172 180 188 196		
					30M. 60M.		
					275 447 R.P. 1310# 48 Hrs.		
					46/10 W. 3" -- 478,571 CF.		

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Date May 12, 19 58

APPROVED CUMBERLAND AND ALLEGHENY GAS COMPANY Owner

By Walter A. Pinner 07/14/2017
(Title) Land Agent

100095P

WW-4A
Revised 6-07

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1) Date: May 23, 2017
2) Operator's Well Number
Greta Reger #1 650565
3) API Well No.: 47 - 001 - 00095

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

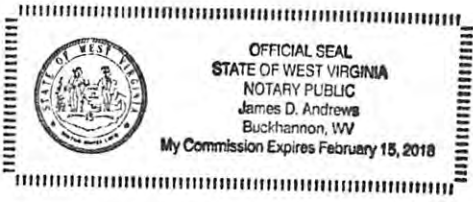
4) Surface Owner(s) to be served: ✓	5) (a) Coal Operator
(a) Name <u>David N. Booth</u>	Name _____
Address <u>1309 Joy Lane</u>	Address _____
<u>Bridgeport, WV 26330</u>	
(b) Name <u>Jody K. Stewart</u> ✓	(b) Coal Owner(s) with Declaration
Address <u>60 Lockwood Rd.</u>	Name <u>David N. Booth</u> ✓
<u>Milan, OH 44846</u>	Address <u>1309 Joy Lane</u>
	<u>Bridgeport, WV 26330</u>
(c) Name _____	Name <u>Jody K. Stewart</u> ✓
Address _____	Address <u>60 Lockwood Rd.</u>
	<u>Milan, OH 44846</u>
6) Inspector <u>Kenneth Graynolds</u>	(c) Coal Lessee with Declaration
Address <u>613 Broad Run Road</u>	Name _____
<u>Jane Lew, WV 26378</u>	Address _____
Telephone <u>304-206-6613</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 Mountain V LLC
 By: Mike Shaver *[Signature]*
 Its: Managing Member
 Address PO Box 470
Bridgeport, WV 26330
 Telephone 304-842-6320

Subscribed and sworn before me this 23rd day of May
JDAAS Notary Public
 My Commission Expires 2-15-2018

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.

07/14/2017

100095P

WW-4B

API No.	<u>47-001-00095</u>
Farm Name	<u>Greta Reger</u>
Well No.	<u>Greta Reger #1 650565</u>

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

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WAIVER

The undersigned coal operator ____ / owner ____ / lessee ____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 6/1/17

David N. Booth

By: _____

Its _____

07/14/2017

SURFACE OWNER WAIVER

Operator's Well
Number

Greta Reger #1 650565

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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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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.

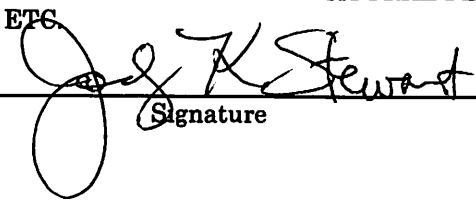
VOLUNTARY STATEMENT OF NO OBJECTION

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.

FOR EXECUTION BY A CORPORATION,

 Date 6/7/17
Signature

Name _____
By _____
Its _____
Date _____

Signature

Date **07/14/2017**

WW-4B

API No. 47-001-00095
 Farm Name Greta Reger
 Well No. Greta Reger #1 650565

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ___/ owner ___/ lessee ___/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 6-7-17

By: Jody K Stewart
 Its _____

**New Address*

Steven and Jody Stewart
52755 Garfield Rd.
Wakeman, OH 44889

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100095P

WW-9
(5/16)

API Number 47 - 001 - 00095
Operator's Well No. Greta Reger #1 650565

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

Operator Name Mountain V LLC OP Code _____
Watershed (HUC 10) Rock Run Quadrangle Century 7.5'

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 **ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS UNTIL IT IS DISPOSED OFFSITE.**

If so, please describe anticipated pit waste: _____

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 _____)

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Will closed loop system be used? If so, describe: _____
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. _____
WV Department of Environmental Protection

-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. _____

-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 [Signature]
Company Official (Typed Name) Mike Shaver
Company Official Title Managing Member

Subscribed and sworn before me this 23rd day of May, 20 17

[Signature]

My commission expires 2-15-2018



07/14/2017

Proposed Revegetation Treatment: Acres Disturbed Less than 1 Prevegetation pH _____

Line 3 Tons/acre or to correct to pH 6.5

Fertilizer type (10-20-20 or equivalent)

Fertilizer amount 1/3 lbs/acre

Mulch Hay @ 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Meadow Mix	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

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: RECLAIM, RESEED + MULCH ASAP

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Title: OIL + GAS INSPECTOR Date: 5-24-17

Field Reviewed? () Yes () No

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**MOUNTAIN V LLC WATER PLAN
OFFSITE DISPOSAL**

Meadowfill Landfill

Rt. 2 Box 68 Dawson Drive
Bridgeport, WV 26330
304-326-6027
Permit #SWF-1032-98

Northwestern Landfill

512 E. Dry Road
Parkersburg, WV 26104
304-428-0602
Permit #SWF-1025 WV-0109400

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JUN 21 2017

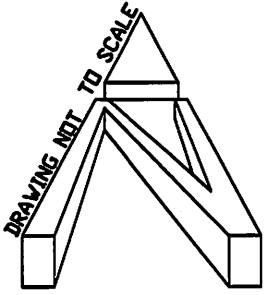
WV Department of
Environmental Protection

07/14/2017

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Office of Oil and Gas

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WV Department of
Environmental Protection



ALL TREES 6-INCHES AND ABOVE ARE TO BE CUT AND STACKED. BRUSH SLASHINGS ARE TO UTILIZED DOWN SLOPE OF SITE AND STRUCTURES TO ACT AS A CONTROL BARRIER IF AVAILABLE.

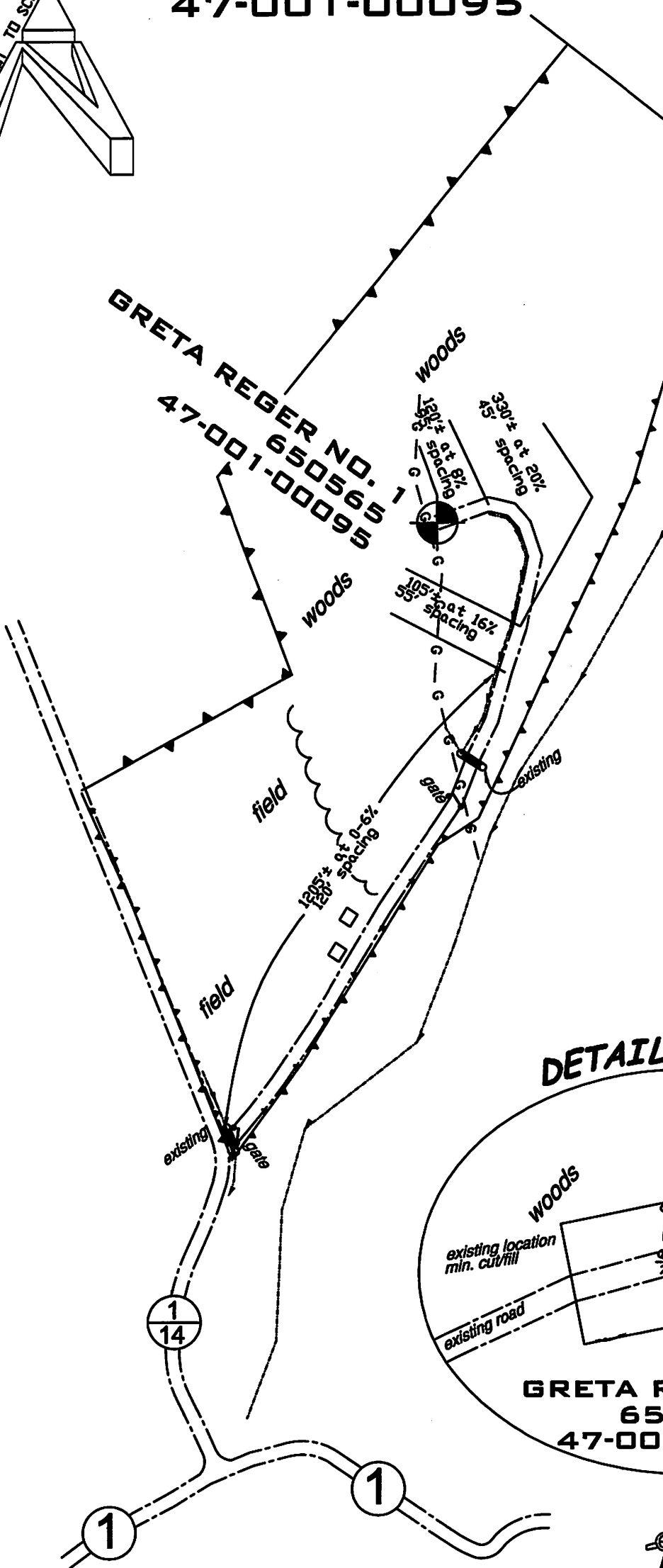
TEMPORARILY SEED AND MULCH ALL SLOPES UPON CONSTRUCTION OF LOCATION.

REFERENCE IS HEREBY MADE TO THE WV D.E.P. OFFICE OF OIL & GAS, "EROSION AND SEDIMENT CONTROL FIELD MANUAL" FOR REQUIREMENTS AND BMPs FOR AVERAGE FIELD CONDITIONS CONCERNING THE MAINTENANCE OF EXISTING ROADS AND THE CONSTRUCTION OF PROPOSED ROADS. FIELD CONDITIONS MAY REQUIRE VARIANCE FROM THESE GUIDELINES AND THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS OCCUR.

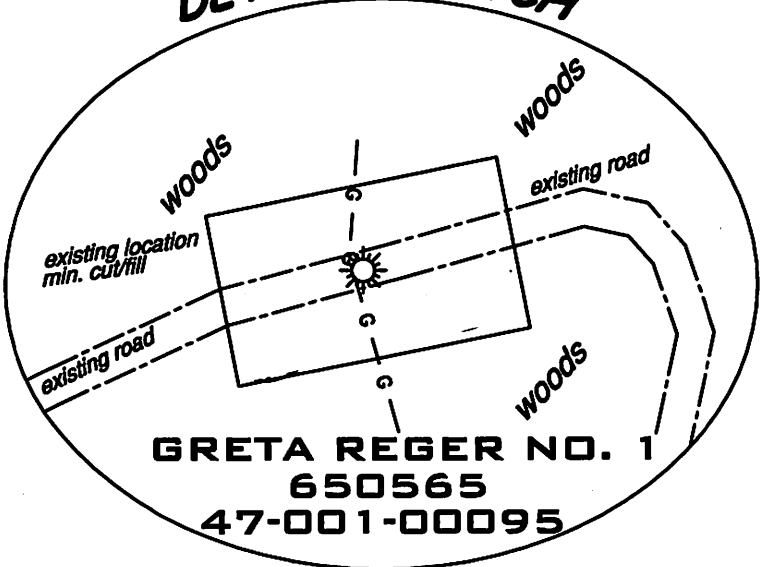
INSTALL CULVERTS AS SHOWN ON RECLAMATION PLAN OR AS FIELD CONDITIONS REQUIRE.

ENTRANCES ONTO PUBLIC ROADS SHALL BE CONSTRUCTED OR MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. ADDITIONAL PERMITS MAY BE REQUIRED.

**GRETA REGER NO. 1
650565
47-001-00095**



DETAIL SKETCH



07/14/2017



**ANGLE RIGHT
LAND SURVEYING, LLC.**
1584 ROAD FORK ROAD
GRANTSVILLE, WV 26147
(304) 354-0065
angleright@frontiernet.net

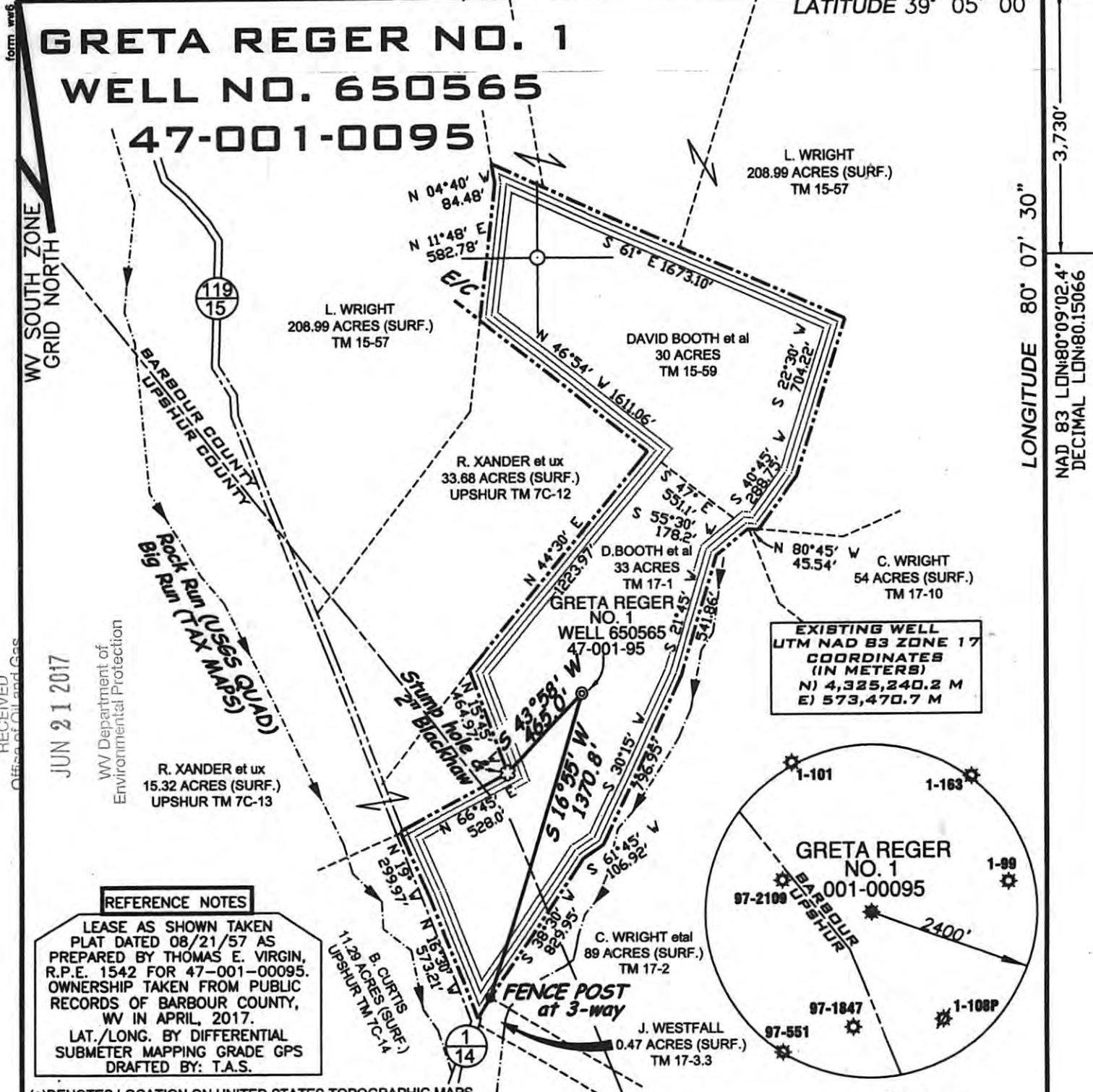
100095P

NAD 83 LAT:39°04'23.4"
DECIMAL LAT:39.07318

7,335'

LATITUDE 39° 05' 00"

GRETA REGER NO. 1 WELL NO. 650565 47-001-0095



EXISTING WELL
UTM NAD 83 ZONE 17
COORDINATES
(IN METERS)
N) 4,325,240.2 M
E) 573,470.7 M

RECEIVED
Office of Oil and Gas
JUN 21 2017
WV Department of Environmental Protection
R. XANDER et ux
15.32 ACRES (SURF.)
UPSHUR TM 7C-13

REFERENCE NOTES
LEASE AS SHOWN TAKEN
PLAT DATED 08/21/57 AS
PREPARED BY THOMAS E. VIRGIN,
R.P.E. 1542 FOR 47-001-00095.
OWNERSHIP TAKEN FROM PUBLIC
RECORDS OF BARBOUR COUNTY,
WV IN APRIL, 2017.
LAT./LONG. BY DIFFERENTIAL
SUBMETER MAPPING GRADE GPS
DRAFTED BY: T.A.S.

FILE NUMBER G170619(WB20-71)
DRAWING NUMBER 170619DWP1
SCALE 1" = 600'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING GRADE GPS

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 ENVIRONMENTAL PROTECTION

P.S. 1006
Terry A. Shreve
TERRY A. SHREVE
LICENSED
No. 1006
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR



WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: APRIL 22, 2017
GRETA REGER NO. 1
OPERATORS WELL NO. 650565
API WELL NO. 47-001-00095 P
STATE COUNTY PERMIT

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

LOCATION ELEVATION 1553' WATERSHED ROCK RUN
DISTRICT UNION COUNTY BARBOUR
QUADRANGLE CENTURY 7.5' LEASE NUMBER 07/14/2017

SURFACE OWNER DAVID N. BOOTH AND JODY K. STEWART ACREAGE 33±
OIL & GAS ROYALTY OWNER DAVID N. BOOTH AND JODY K. STEWART LEASE ACREAGE 74±

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) PLUG & ABANDON
PLUG & ABANDON CLEAN OUT & REPLUG ___

TARGET FORMATION BENSON ESTIMATED DEPTH 4,223
WELL OPERATOR MOUNTAIN V LLC DESIGNATED AGENT MIKE SHAVER
ADDRESS P.O. BOX 470, BRIDGEPORT, WV 26330 ADDRESS P.O. BOX 470, BRIDGEPORT, WV 26330

form. wv6
A.R.L.L.B

LONGITUDE 80° 07' 30"
NAD 83 LON:80°09'02.4"
DECIMAL LON:80.15066

WW9

GRETA REGER NO. 1

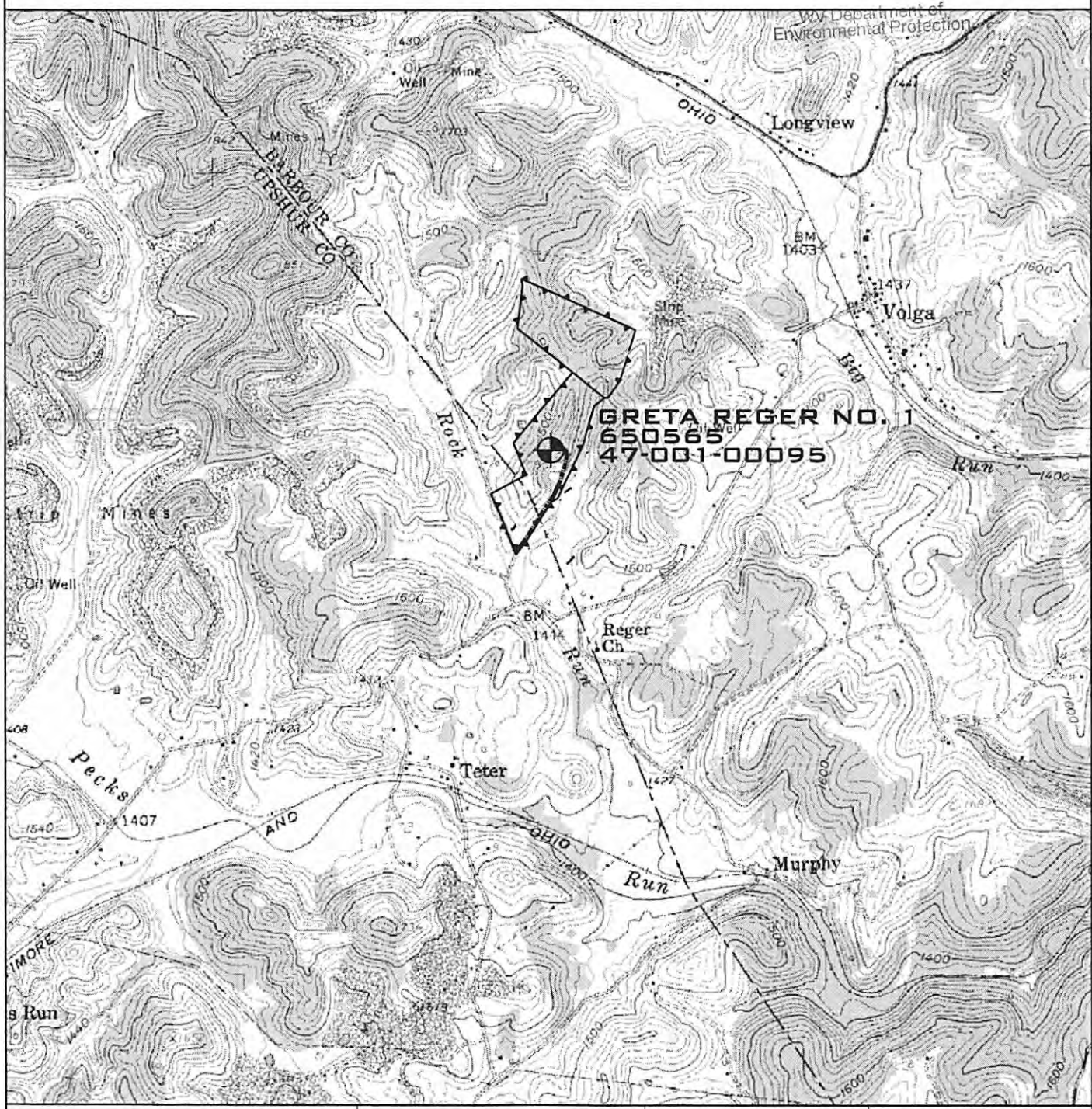
650565

47-001-00095

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Office of Oil and Gas

JUN 21 2017



ANGLE RIGHT LAND SURVEYING, LLC 1584 ROAD FORK ROAD GRANTSVILLE, WV 26147 (304) 354-0085	OPERATOR MOUNTAIN V LLC. P.O. BOX 470 BRIDGEPORT, WV 26330	TOPO SECTION CENTURY 7.5	WELL NAME GRETA REGER NO. 1 650565 47-001-00095
	SCALE: 1"=2000'	DATE: 04/22/2017	
	170619		

NAD 83 LAT:39°04'23.4"
DECIMAL LAT:39.07318

7,335'

LATITUDE 39° 05' 00"

GRETA REGER NO. 1 WELL NO. 650565 47-001-0095

WV SOUTH ZONE
GRID NORTH

3,730'

LONGITUDE 80° 07' 30"

NAD 83 LON:80°09'02.4"
DECIMAL LON:80.15066

119
15

BARBOUR COUNTY
UPSHUR COUNTY
Rock Run (USES QUAD)
Big Run (TAX MAPS)

L. WRIGHT
208.99 ACRES (SURF.)
TM 15-57

L. WRIGHT
208.99 ACRES (SURF.)
TM 15-57

DAVID BOOTH et al
30 ACRES
TM 15-59

R. XANDER et ux
33.68 ACRES (SURF.)
UPSHUR TM 7C-12

D. BOOTH et al
33 ACRES
TM 17-1

C. WRIGHT
54 ACRES (SURF.)
TM 17-10

R. XANDER et ux
15.32 ACRES (SURF.)
UPSHUR TM 7C-13

GRETA REGER
NO. 1
WELL 650565
47-001-95

EXISTING WELL
UTM NAD 83 ZONE 17
COORDINATES
(IN METERS)
N) 4,325,240.2 M
E) 573,470.7 M



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OWNERSHIP TAKEN FROM PUBLIC
RECORDS OF BARBOUR COUNTY,
WV IN APRIL, 2017.
LAT./LONG. BY DIFFERENTIAL
SUBMETER MAPPING GRADE GPS
DRAFTED BY: T.A.S.

(+)DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER	G170619(WB20-71)
DRAWING NUMBER	170619DWP1
SCALE	1" = 600'
MINIMUM DEGREE OF ACCURACY	1/200
PROVEN SOURCE OF ELEVATION	SUBMETER MAPPING GRADE GPS

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P.S.
1006

Terry A. Shreve



ANGLE RIGHT
LAND SURVEYING, LLC
1584 ROAD FORK ROAD
GRANTSVILLE, WV 26147
(304) 354-0065

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: APRIL 22, 2017

GRETA REGER NO. 1

OPERATORS WELL NO. 650565

API WELL NO.

47-001-00095 P

STATE COUNTY PERMIT

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

LOCATION ELEVATION 1553' WATERSHED ROCK RUN

DISTRICT UNION COUNTY BARBOUR

QUADRANGLE CENTURY 7.5' LEASE NUMBER

SURFACE OWNER DAVID N. BOOTH AND JODY K. STEWART

ACREAGE 33±

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07/14/2017

form wv6

A.R.L.5