



---

**west virginia** department of environmental protection

---

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

April 12, 2016

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8509721, issued to RITCHIE HUNTER WATER DISPOSAL, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

  
James Martin  
Chief

Operator's Well No: W-1590  
Farm Name: MASON, MARY  
**API Well Number: 47-8509721**  
**Permit Type: Plugging**  
Date Issued: 04/12/2016

**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

---

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.

WW-4B  
Rev. 2/01

1) Date 3-18, 2016  
2) Operator's  
Well No. W1590  
3) API Well No. 47-DBS-09721

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 \_\_\_ / Liquid injection X / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage X ) Deep X / Shallow \_\_\_
- 5) Location: Elevation 1057 FT Watershed Huskers Run AND Bonds creek  
District GRANT County Ritchie Quadrangle ELLENBORO
- 6) Well Operator Ritchie Hunter water disposal Designated Agent Douglas Gabbert  
Address 28407 SR7 Address 2 South Heights  
MARIETTA, OH 45750 Parkersburg WV 26101
- 8) Oil and Gas Inspector to be notified Name MIKE GOFF  
Address PO BOX 134  
PULLMAN WV 26421
- 9) Plugging Contractor Name TOP Drilling  
Address HC 68 BOX 14  
SMITHVILLE WV 26178

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

\*\*\*\*\*PLEASE SEE ATTACHED SHEET Procedures on Ritchie\*\*\*\*\*

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

Work order approved by inspector Michael Goff Date 4-1-16



Procedures on Ritchie #1 Location Plugging Job

\*Perforations @ 6033-6067

\*Total Depth 6068 ft.

Day 1- Prep the Location. Move in-Rig up. Unjap Packer.

Pull 2 7/8 with Packer out of hole.

Day 2- Run 2 7/8 to 6050 ft and set perforation plug @ (500 ft.= plug.)

FROM 6050' - 5550' gum

5550-4450 ft.= 1100 ft. plug.

Finish pulling the tubing out of hole.

Day 3- Cut 4.5 in. of casing @4400 ft.

Set plug @4450-3450 ft =1000 ft plug.

Set plug @3450-2450 ft=1000 ft plug.

Day 4- Set plug @2450-1450 ft =1000 ft. plug

Set plug @ 1450-725 ft=725 ft. plug

Set plug @ 725-425 ft=300 ft. plug

Set plug @425 ft-Surface.

Day 5- Rig Down Move Off Location.

6% gel spacers between plugs

MAG  
4-1-16



## Construction of Monument

- A piece of <sup>6"</sup>~~4.5~~ inch casing about 6 feet long
  - 3 feet will be in the ground
  - 3 feet will stick out of the ground and will be painted orange and API number will be <sup>Stamped</sup>~~written~~ on it.  $\frac{1}{2}$ " in height.

MAG  
4/1/16

WR-35  
Rev (9-11)

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

DATE: 4-13-12  
API #: 47-085-09721

Farm name: Everett Mason Operator Well No.: W-1698

LOCATION: Elevation: 1057' Quadrangle: Ellenboro

District: Grant County: Ritchie  
Latitude: 12050 Feet South of 89 Deg. 17 Min. 30 Sec.  
Longitude: 4480 Feet West of 81 Deg. 05 Min. 00 Sec.

Company: Haught Energy Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
12864 Staunton TPKE Smithville, WV 26178				
Agent: <u>Warren R. Haught</u>	13-3/8"	31'	31'	Existing
Inspector: <u>David Cowan</u>	9-5/8"	321'	321'	Existing
Date Permit Issued: <u>April 6, 2011</u>	7"	2050'	2050'	Existing
Date Well Work Commenced: <u>2/07/2012</u>	4-1/2"	6103'	6103'	Existing
Date Well Work Completed: <u>04/13/2012</u>	2 7/8"		5,970'	NA
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft):				
Total Measured Depth (ft):				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>NA</u>				
Void(s) encountered (N/Y) Depth(s) <u>None</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

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

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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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.

RECEIVED  
Office of Oil and Gas  
REC  
MAR 18 2016  
REC  
Office of Department of Environmental Protection

Env 05/02/2014

[Signature]  
Signature

4-13-12  
Date

85-09721

Were core samples taken? Yes \_\_\_\_\_ No X

Were cuttings caught during drilling? Yes \_\_\_\_\_ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Existing Well

**NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.**

Perforated Intervals, Fracturing, or Stimulating:

Existing 6044' - 6068'

Packer @ 5,970'

Plug Back Details Including Plug Type and Depth(s): 6,140' to 6,088 - Class A Cement

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		

Existing

RECEIVED  
Office of Oil and Gas

MAR 18 2016

WV Department of  
Environmental Protection

RECEIVED  
Office of Oil and Gas

APR 16 2014

WV Department of  
Environmental Protection  
08/02/2014



# Wellbore Schematic

**Well:** Mason W-1590  
**API:** 47-085-09721

**Current Status**  
 - 5/28/2009 Plunger Installed, Stand set at 5772'  
 - Scraper run to 6000' before setting stand  
 - Moved Stand to 5981 in January 2010  
 1-2012  
 Stand removed, Plugged back to new TD of 6068'  
 Tubing run in well on Packer to 5970'  
 MIT Test approved - 2/3/12 Cowan  
 Prepped per UIC 2D0859721  
**Action Items**  
 - Construct Injection Facilities

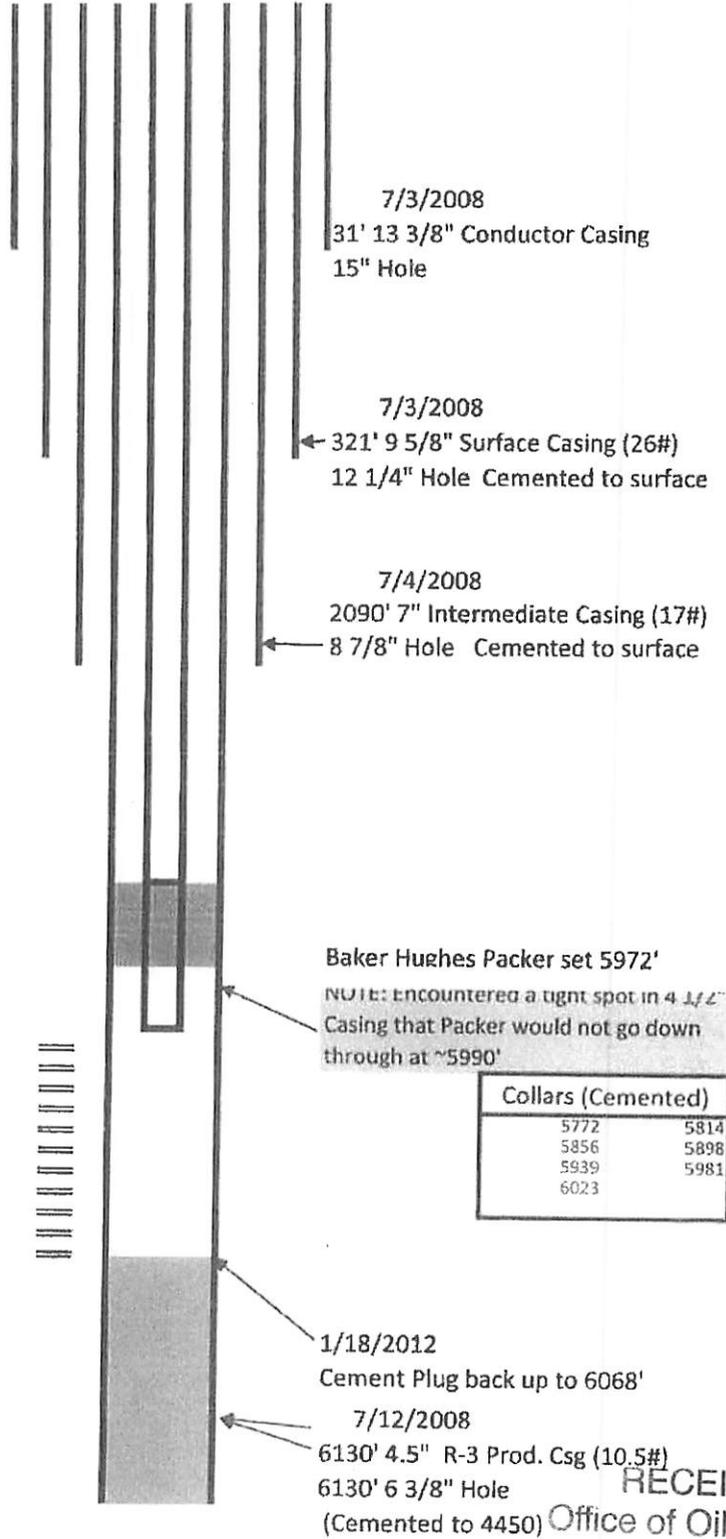
**Frac Date:** 9/25/2008  
**Logger TD:** 6068

**TOC:** 4450

**Perforations:**

6,045	6044
6,049	6047
6,053	6051
6,057	6055
6,060	6059
6,062	6,061
6,064	6,063
6,066	6,065
6,068	6,067

60 degree phasing



RECEIVED  
 Office of Oil and Gas

MAR 18 2016

WV Department of  
 Environmental Protection

WR-37  
REV. 5/01

Date: 2/7/2012  
Operator's Well Number Mason W-1590  
State 47- County 085 Permit 09721  
API Well No.: 47- 085 - 09721

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENT-OFFICE OF OIL AND GAS  
PRE-OPERATION CERTIFICATE  
FOR LIQUID INJECTION OR WASTE DISPOSAL WELL**

**WELL OPERATOR** Haught Energy Corporation  
Address 107 Lancaster Street, Suite 301  
Marietta, OH 45750

**DESIGNATED AGENT** \_\_\_\_\_  
Address \_\_\_\_\_

**GEOLOGICAL TARGET FORMATION** Genesee Depth 6,044 feet(top) to 6,068 feet(bottom)

Virgin reservoir pressure in target formation 1200 psig

Source of information on virgin reservoir pressure: Hydrostatic load

Perforation intervals 6044-6068'

Open-hole intervals \_\_\_\_\_

**MAXIMUM PERMITTED INJECTION OPERATIONS**

Well head injection pressure: 1,864 psig

Bottom hole pressure: \_\_\_\_\_ psig

Volume per hour: \_\_\_\_\_

**DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED**

Liquids to be injected for oil recovery: N/A

Wastes to be disposed of: Production Brine Water, Flowback Water

Additives (Slurry mediums, inhibitors, solvents, oxidizers, deoxidizers, etc.) \_\_\_\_\_

Descaling Agents, Rust Inhibitors, Bactricide

**SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL** N/A

**ADDITIONAL DRILLING AS PART OF THE CONVERSION** (Complete form WR-35)

**DETAILS ON NEW CASING AND TUBING PROGRAM AS PART OF THE CONVERSION** (To be completed below unless the new casing and tubing program is described on a form WR-35, submitted in connection with the permit to which this form WR-37 relates.)

CASING OR TUBING TYPE	SIZE	GRADE	WEIGHT PER FT.	NEW	USED	FOOTAGE USED IN DRILLING	FOOTAGE LEFT IN WELL	CEMENT USED	PACKERS (KIND, SIZE, DEPTH SFT)
CONDUCTOR	13 3/8"					31'	31'		
FRESH WATER	9 5/8"	MC50	26#	X		321'	321'	CTS	
COAL									
INTERMEDIATE	7"	MC50	17#	X		2050'	2050'	CTS	
PRODUCTION	4 1/2"	MAV65	10.5#	X		6103'	6103'	2000' Fill up	
TUBING	2 7/8"	EUE	6.5#	X			5970'		4.5" Packers 5970'
INERS									

**RECEIVED**  
Office of Oil and Gas

MAR 18 2016

WV Department of  
Environmental Protection

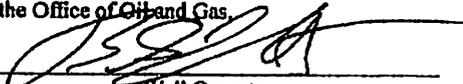
WR37

**MECHANICAL INTEGRITY TEST**

Test Method: Installed Baker Hughes Pump-Out Plug on bottom of Packer. Used Superior Well Services Pump Truck to load the Tubing and Pressure up to 2,100 psi, Shut pumps down and monitored Pressure for 22 minutes while recording pressures. See attached.

Also Attached: Updated Wellbore Schematic

The undersigned certifies that the test was performed on February 3rd, 2012, 20   and demonstrated mechanical integrity of the well. The test was witnessed by David Cowan - Environmental Inspector representing the Office of Oil and Gas.

  
Well Operator

2/7/2012  
Date

**THIS WELL IS AUTHORIZED FOR INJECTION.**

Signed \_\_\_\_\_ UIC PROGRAM DIRECTOR

Date \_\_\_\_\_

[NOTE: That the mechanical integrity of this well must be demonstrated again within ninety (90) days of five years from this date in order for injection to continue. Please notify the state inspector 24 hours in advance of the test].

  
Well Operator  
By: Brian G. Haught  
Its Haught Energy Corporation - Vice President

RECEIVED  
Office of Oil and Gas

MAR 18 2016

WV Department of  
Environmental Protection

AREA OF REVIEW FOR UIC PERMIT APPLICATION 200812122

API NUMBER	ELEV. GL	TD	FRESHWATER DEPTH	SURFACE CSG DEPTH	SURFACE CEMENTING	SALT WATER DEPTH	SALT WATER FORMATION	INTERMED CSG DEPTH	INTERMED CEMENTING	PRODUCING ZONES	PROD CSG DEPTH	PROD CSG CEMENTING	COMMENTS
47-025-00598	988	2238	208'	NA	NA	1360'	1st Salt Sand	1917	NA	Big Injun Sand	2210'	118 cu ft	1940 well drilled deeper in 2005
47-085-05607	1080	4592	26	30	15 sacks	900'	Pennsylvanian Sand	1230'	Cement to surface	Baltimore	5900'	Top of Cement: 2745'	prod csg depth incorrect on WRLS
47-085-05603	808	4527	90'	30	15 sacks	1792'	Kentler Sand	950'	Cement to surface	Baltimore	5700'	NA	prod csg depth incorrect on WRLS
47-085-05628	860	5826	42	208'	160 sacks	1076'	Pennsylvanian Sand	1848'	480 sacks	Devonian Shale	5891'	752 sacks	
47-085-05726	779.6	4806'	65	360'	circulate cement surf	1780'	Big Injun Sand	2137'	circulate cement surf	Devonian Shale	4794'	213 sacks	
47-085-05801	724.6'	4834'	200'	348'	150 sacks	2050'	NAME??	1891'	225 sacks	Devonian Shale	4814'	240 sacks	
47-085-06028	895'	4900'	150'	350'	circulate cement surf	1800'	Big Injun Sand	2000'	circulate cement surf	Devonian Shale	4700'	470 sacks	Salt water depth questionable open hole log shows no fluid in well
47-085-06137	850'	5722'	40'	NA	NA	1700'	Big Lime/Reefer	1531'	NA	Devonian Shale	NA	NA	no completion report found, open & cased logs were used
47-085-06148	940'	5784'	70'	NA	NA	808'	Pennsylvanian Sand	1137'	NA	Devonian Shale	NA	NA	no completion report used open hole log for intermediate csg depth
47-085-06334	859'	5007'	130'	NA	NA	None reported		NA	NA	Lower Huron	NA	NA	no completion report. No production since 1999
47-085-07083	922.25	5100'	75	257'	cement to surface	None reported		2043'	Cement to surface	Devonian Shale	5094'	280 sacks	intermediate csg set through Big Injun
47-085-05846	NONE												
47-085-08484	NONE												
47-085-01830	822'		430'										
47-085-00186	1015'												

BS09721P

RECEIVED

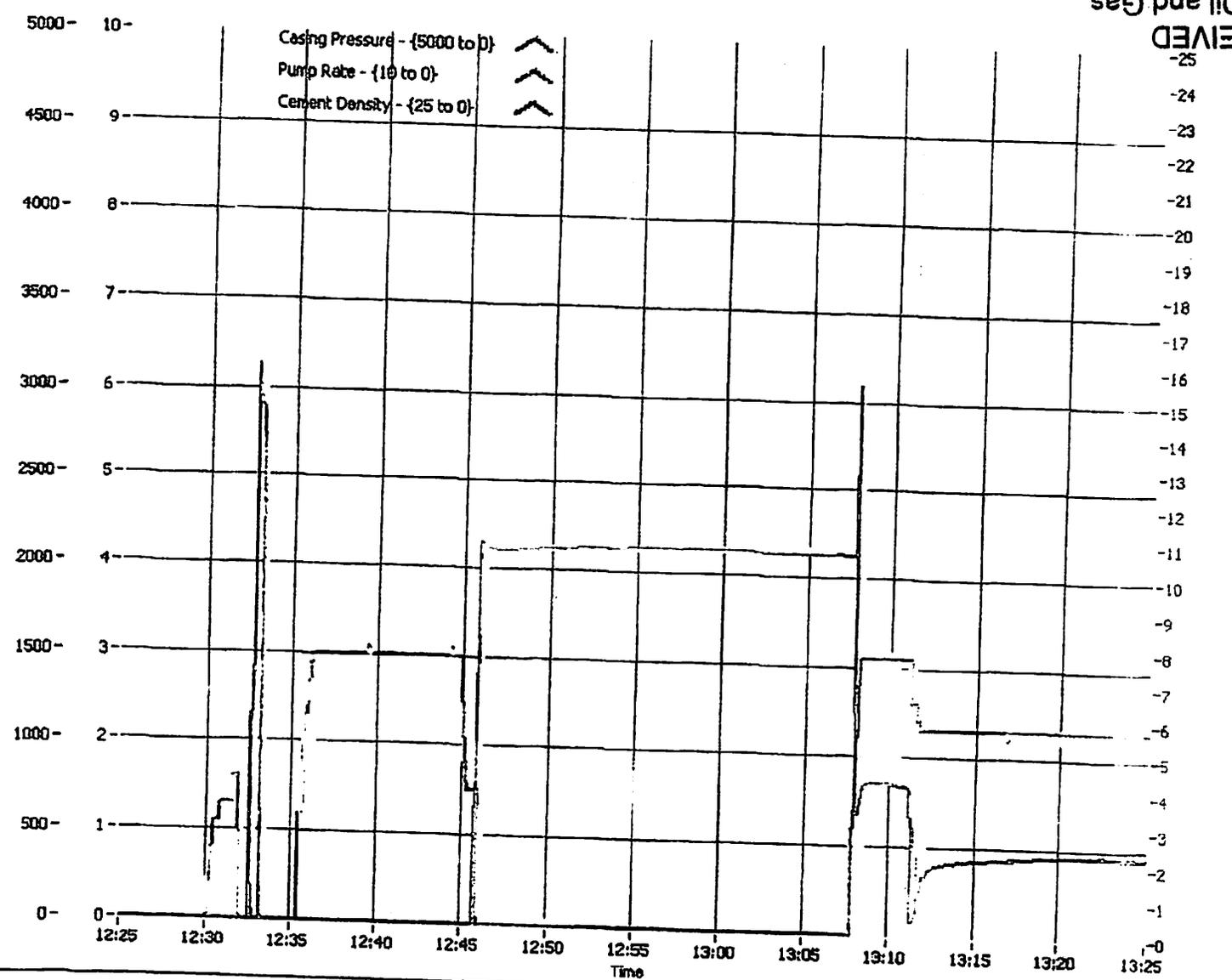
Office of Oil and Gas

MAR 18 2015

WV Department of Environmental Protection

8509721P

43-005001-00



MIT Interval

WV Department of Environmental Protection

MAR 18 2016

Office of Oil and Gas

RECEIVED

© Superior Well Services

THROUGH

{1} - Absolute Time Chart (43-005001-00-1-AT-1)

9 of 13

Friday, February 03, 2012

WR-35  
Rev (5-01)

DATE: October 10, 2008  
API #: 47-085-09721

CR-D

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Everett Mason Operator Well No.: W-1590

LOCATION: Elevation: 1057' Quadrangle: Ellenboro

District: Grant County: Ritchie  
Latitude: 12050 Feet South of 39 Deg. 17 Min. 30 Sec.  
Longitude 4460 Feet West of 81 Deg. 05 Min. Sec.

Company: Trans Capital Investment  
Whittle Corporation

	Casing & Tubing	Used in drilllog	Left in well	Cement fill up Cu. Ft.
Address: <u>HC 68 Box 14</u> <u>Smithville, WV 26178</u>				
Agent: <u>Warren R. Haught</u>	<u>13 3/8"</u>	<u>31'</u>	<u>31'</u>	
Inspector: <u>David Cowan</u>				
Date Permit Issued: <u>04/17/08</u>	<u>9 5/8"</u>	<u>321'</u>	<u>321'</u>	<u>Cement to surface</u>
Date Well Work Commenced: <u>07/02/08</u>				
Date Well Work Completed: <u>09/30/08</u>	<u>7"</u>	<u>2090'</u>	<u>2090'</u>	<u>Cement to surface</u>
Verbal Plugging:				
Date Permission granted on:	<u>4 1/2"</u>	<u>6140'</u>	<u>6140'</u>	<u>2000' fill up</u>
Rotary Cable Rig				
Total Depth (feet): <u>6146'</u>				
Fresh Water Depth (ft.): <u>190'</u>				
Salt Water Depth (ft.): <u>None</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.):				

OPEN FLOW DATA

Producing formation Marcellus Shale Pay zone depth (ft) 6033-6110  
Gas: Initial open flow 500 MCF/d Oil: Initial open flow - Bbl/d  
Final open flow - MCF/d Final open flow - Bbl/d  
Time of open flow between initial and final tests 12 Hours  
Static rock Pressure 1950 psig (surface pressure) after 24 Hours

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

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Trans Capital Investment/ Whittle Corp.  
By: Warren R. Haught, AGENT  
Date: 10/09/08

RECEIVED  
Office of Oil & Gas  
DEC 19 2008

WV Department of  
Environmental Protection

RECEIVED  
Office of Oil and Gas  
MAR 18 2016  
WV Department of  
Environmental Protection

OCT 02 2009

Mason W-1590  
API # 47-085-09721

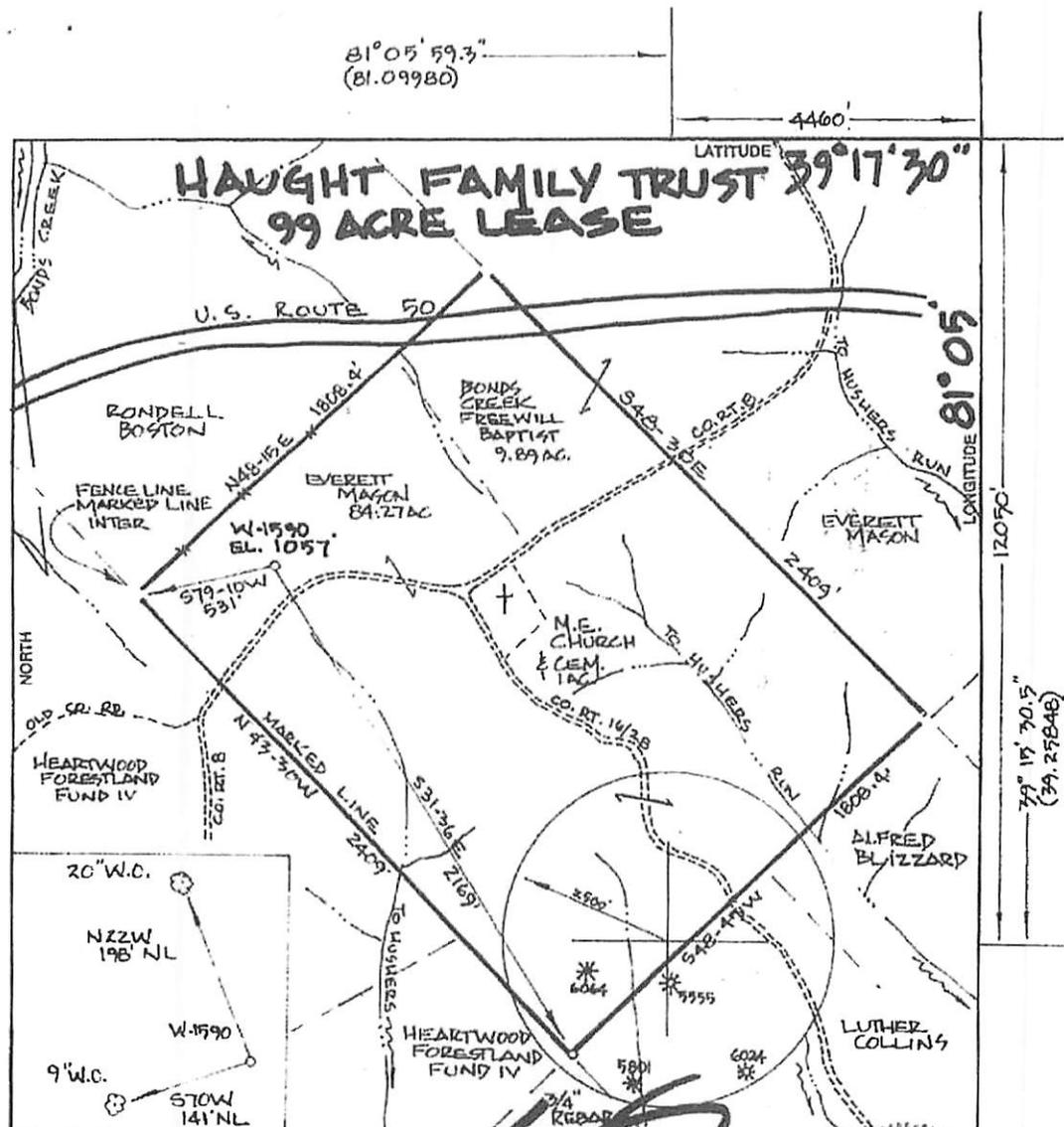
Formation	Top	Bottom	Remarks
Red Rock & Shale	0	640	
Sand	640	675	
Red Rock	675	755	
Sand	755	775	
Red Rock	775	830	
Slate	830	910	
Dunkard Sand	910	920	
Slate & Shells	920	1300	
Gas Sand	1300	1410	
Slate	1410	1478	
1st Salt Sand	1478	1538	
Shale	1538	1574	
2nd Salt Sand	1574	1592	
Shale	1592	1620	
3rd Salt Sand	1620	1730	
Slate	1730	1816	
Maxon Sand	1816	1855	
Shale	1855	1925	
Little lime	1925	1950	
Pencil Cave	1950	1954	
Big Lime	1954	2052	
Big Injun Sand	2052	2112	
Slate Break	2112	2116	Slight Show
Squaw Sand	2116	2130	Gas 2050'
Slate & Shells	2130	2394	
Coffee Shale	2394	2428	
Berea Sand	2428	2432	
Slate & Shells	2432	2548	
Sand	2548	2560	
Slate & Shells	2560	2820	
Sand	2820	2832	
Slate & Shells	2832	4484	
Benson Sand	4484	4490	
Slate & Shells	4490	4985	
Alexander Sand	4985	4998	
Slate & Shells	4998	5394	
Sand	5394	5414	
Slate & Shells	5414	6044	Gas Show 6050
Hamilton Shale	6044	6068	
Tully Lime	6068	6072	
Marcellus Shale	6072	6110	Gas Show 6100
Onondaga Lime	6110		
TD	6146		

RECEIVED  
Office of Oil and Gas

MAR 18 2016

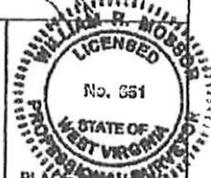
WV Department of  
Environmental Protection

OCT 02 2009



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200'  
 PROVEN SOURCE OF ELEVATION G.P.S. OBSERVATION

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 HEREIN ENFORCED BY THE DEPARTMENT OF ENERGY AND NATURAL RESOURCES.  
 (SIGNATURE) \_\_\_\_\_  
 P.S. 531



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

DATE MARCH 31 2008  
 OPERATOR'S WELL NO. W-1590  
 API WELL NO. 47-085-09721  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1057 WATER SHED HUSHERS RUN & BONDS CREEK  
 DISTRICT GRANT COUNTY RITCHIE  
 QUADRANGLE ELLENORO

SURFACE OWNER EVERETT MASON ACREAGE 84.27  
 OIL & GAS ROYALT HAUGHT FAMILY TRUST LEASE AC. 99

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 MARCELLUS SHALE ESTIMATED DEPTH 6300'  
 WELL OPERATOR TRANS-CAPITAL INVEST DESIGNATED AGENT WARREN HAUGHT  
 ADDRESS HC 68 BOX 14 SMITHVILLE, WV 26178 ADDRESS HC 68 BOX 14 SMITHVILLE, WV 26178

FORM WVC-5

COUNTY NAME RITCHIE  
 PERMIT 9721

RECEIVED  
 Office of Oil and Gas  
 MAR 18 2016  
 WV Department of  
 Environmental Protection

Bonds Creek 66 (85)

APR 18 2008

8509721P

RECEIVED  
Office of Oil and Gas

MAR 30 2016

WW-4A  
Revised 6-07

WV Department of  
Environmental Protection

1) Date: 3-29-16  
2) Operator's Well Number  
W 1590  
3) API Well No.: 47 - 085 - 09721

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

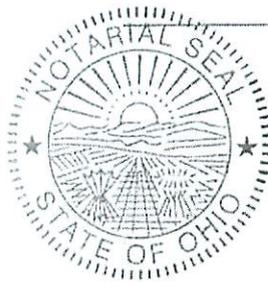
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>PEARL EVERETT MASON II</u>	Name <u>N/A</u>
Address <u>NATHANIEL LYKE MASON</u>	Address _____
<u>PO BOX 235 ELLENBORO WV</u>	
(b) Name <u>26346</u>	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>MIKE GOFF</u>	(c) Coal Lessee with Declaration
Address <u>P.O. BOX 134</u>	Name <u>N/A</u>
<u>Pullman WV 26421</u>	Address _____
Telephone <u>(304) 549-9823</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 R. Richie Hunter Water Disposal  
 By: Douglas Gabbert  
 Its: Designated Agent  
 Address 28407 SR 7  
Marietta Oh 45750  
 Telephone 740-373-4599

Subscribed and sworn before me, this 29th day of MARCH, 2016  
Phyllis M. Wark Notary Public  
 My Commission Expires August 8, 2020

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).

WW-9  
Rev. 5/08

Page 1 of 6  
API Number 47 - DB5 - 09721  
Operator's Well No. W 1590

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name RITCHIE HUNTER WATER DISPOSAL OP Code \_\_\_\_\_

Watershed HUSKERS RUN AND BONDS CREEK Quadrangle ELLENBORO

Elevation 1057 FT County RITCHIE District GRANT

Description of anticipated Pit Waste: PRODUCTION WATER, FLOWBACK WATER, DESCALING AGENTS, RUST INHIBITORS, BACTERICIDE

Will a synthetic liner be used in the pit? NO, HALF ROUND STEEL TANK

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 2008510142 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

MAG  
2-1-16

RECEIVED  
Office of Oil and Gas

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

APR 11 2016

WV Department of  
Environmental Protection

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

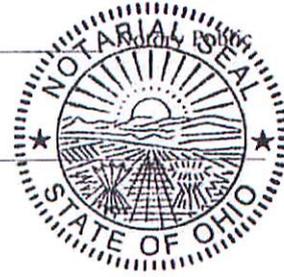
Company Official (Typed Name) Roy Boyd

Company Official Title Greenhunter Water-Well Service Manager

Subscribed and sworn before me this 21<sup>st</sup> day of MARCH, 20 16

[Signature]

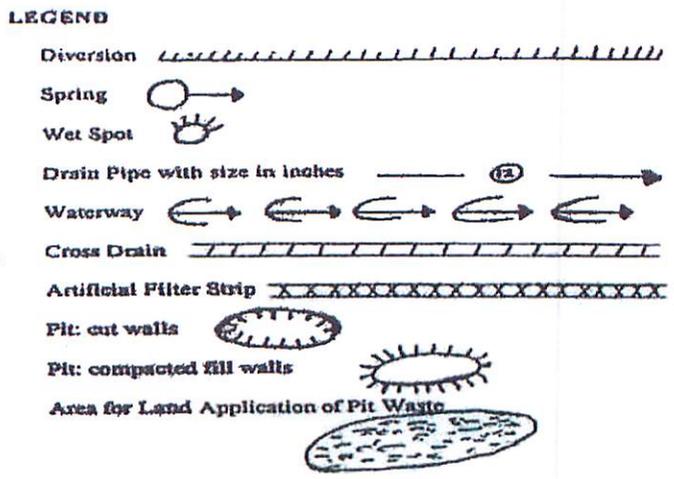
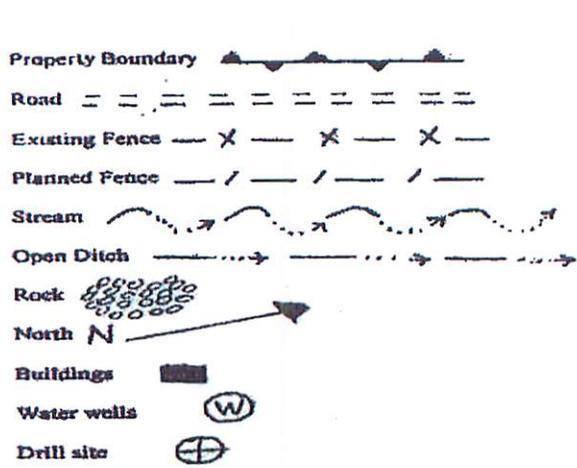
My commission expires Aug 8, 2020



PHYLLIS M WARK  
Notary Public State of Ohio  
My Commission Expires  
August 8, 2020

Form WW-9

Operator's Well No. W 1590



Proposed Revegetation Treatment: Acres Disturbed + - 1/4 acre Prevegetation pH N/A

Lime N/A Tons/acre or to correct to pH N/A

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

Mulch N/A Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
<u>N/A</u>			<u>N/A</u>		

RECEIVED  
Office of Oil and Gas

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

APR 11 2016

Photocopied section of involved 7.5' topographic sheet.

WV Department of  
Environmental Protection

Plan Approved by: Michael Duff

Comments: GRAVEL LOT

Title: Oil & Gas Inspector Date: 4-1-16

Field Reviewed? (  ) Yes (  ) No



“Ritchie Hunter”

Note: The “Well-Head” is circled.

Note: The “1/2 round” steel tank used for pit fluid  
& Waste is circled.

RECEIVED  
Office of Oil and Gas  
MAR 18 2016  
WV Department of  
Environmental Protection

85097217



MAR 18 2016

WV Department of Environmental Protection

Google earth



Ritchie Hunter  
 Ritchie Hunter #2



WW-7  
8-30-06



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

API: 47-085-09721 WELL NO.: W1590

FARM NAME: MASON

RESPONSIBLE PARTY NAME: Ritchie Hunter WATER disposal

COUNTY: Ritchie DISTRICT: GRANT

QUADRANGLE: ELLENORO

SURFACE OWNER: MARY MASON

ROYALTY OWNER: EVERT & NATHANIAL MASON

UTM GPS NORTHING: 4345476.04

UTM GPS EASTING: 491404.6 GPS ELEVATION: 1057 FT

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]  
Signature

Well Service Manager  
Title

3-21-2016  
Date

RECEIVED  
Office of Oil and Gas

MAR 18 2016

WV Department of  
Environmental Protection