



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

October 08, 2015

WELL WORK PERMIT
Brine Disposal / Convert

This permit, API Well Number: 47-8510142, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.


James Martin

Chief

Operator's Well No: RITCHIE HUNTER 2 (W-1652)

Farm Name: MASON, PEARL EVERETT & NA

API Well Number: 47-8510142

Permit Type: Brine Disposal / Convert

Date Issued: 10/08/2015

Promoting a healthy environment.

10/09/2015

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.

FORM WW-3 (B)
1/12



1) Date: 09/21/2015
2) Operator's Well No. Ritchie #2
3) API Well No.: 47 - 085 - 10142
State County Permit
4) UIC Permit No. _____

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

5) WELL TYPE: Liquid Injection / Gas Injection (not storage) / Waste Disposal
6) LOCATION: Elevation: 1021' Watershed: Hushers Run
District: Grant County Ritchie Quadrangle Ellenboro
7) WELL OPERATOR: Ritchie Hunter Water Disposal, LLC 8) DESIGNATED AGENT Michael Umstot
Address 28407 State Route 7 Address 15556 Emerson Ave
Marietta, OH 45750 Waverly, WV 26184
9) OIL & GAS INSPECTOR TO BE NOTIFIED 10) DRILLING CONTRACTOR
Name David Cowan Name Haight Energy Corporation
Address 1597 Devil Hole Rd Address 12864 Staunton TPKE
Harrisville, WV 26362 Smithville, WV 26178

11) PROPOSED WELL WORK Drill / Drill deeper / Redrill / Stimulate
Plug off old formation / Perforate new formation / Convert
Other physical change in well (specify) _____

12) GEOLOGIC TARGET FORMATION Oriskany Depth 6270 Feet (top) to 6360 Feet (bottom)
13) Estimated Depth of Completed Well, (or actual depth of existing well): 6447' Feet
14) Approximate water strata depths: Fresh 145 Feet Salt 1000 Feet
15) Approximate coal seam depths: None Noted
16) Is coal being mined in the area? Yes No
17) Virgin reservoir pressure in target formation 1400 psig Source _____
18) Estimated reservoir fracture pressure 2940 psig (BHFP)

19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 210 Bottom hole pressure 5035
20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES Production and Flowback
Brine Water; Pit Water; Runoff water; Corrosion Inhibitor; Biocide
21) FILTERS (IF ANY) (1)-25 Micron Filter Bags, and (2)-10 Micron Filter Sticks
22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL _____
Pipeline are supported, wrapped, and coated to reduce corrosion

23) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL -UP OR SACKS (CU. FT.)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For Drilling	Left In Well		
Conductor	13-3/8"	R-3	48#	X		35'	35'	7 Sks(CTS)	Kinds
Fresh Water	9-5/8"	R-3	26#	X		350'	350'	90 Sks(CTS)	Baker Hughes - A2 Double Lok-Set
Coal									Sizes
Intermediate	7"	R-3	17#	X		2130'	2130'	300 Sks(CTS)	4-1/2" x 2-3/8"
Production	4-1/2"	R-3	11.6#	X		6447'	6447'	115 Sks	Depths set
Tubing	2-3/8"	J 55	6.5#	X		6260'	6260'		@ 6260'
Liners									Perforations
									Top Bottom
									6294' 6332'
									6346' 6360'

24) APPLICANT'S OPERATING RIGHTS were acquired from P. Everett Mason & Nathaniel Mason
by deed _____ / lease X / other contract _____ / dated 09/21/2015 of record in the
County Clerk's office in _____ Book _____ Page _____

OK gmm

SEE INJECTION LEASE AGREEMENT



1) Date: September 21, 2015
 2) Operator's Well No. Ritchie Hunter #2
 3) API Well No.: 47 - 085 - 10142
State County Permit
 4) UIC Permit No. _____

**STATE OF WEST VIRGINIA
 NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION
 FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,**

5) Surface Owner(S) To Be Served (a) Name <u>Nathaniel/Pearl Everett Mason</u> ✓ Address <u>PO Box 235</u> <u>Ellenboro, WV 26346</u> (b) Name _____ Address _____ (c) Name _____ Address _____	7) (a) Coal Operator Name <u>None</u> Address _____ 7) (b) Coal Owner(S) With Declaration Of Record Name <u>None</u> Address _____ Name _____ Address _____ 7) (c) Coal Lessee with Declaration Of Record Name <u>None</u> Address _____ Name _____ Address _____
6) Inspector <u>David Cowan</u> Address <u>1597 Devil Hole Rd</u> <u>Harrisville, WV 26362</u> Telephone <u>(304)389-3509</u>	

TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents

- (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work;
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is 10/31 20 15.

THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION [(FORM WW-3(B))] DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE 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 Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan 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 the mailing or delivery to the Chief.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Ritchie Hunter Water Disposal, LLC
 Address 28407 State Route 7
Marietta, OH 45750
 By: Robert W. Sloan III
 Its: SVP - Operations
 Signature: _____

INJECTION LEASE AMENDMENT No. 2

This lease amendment is made and entered into this ___ day of July, 2015, by and between P. Everett Mason II and Nathanael Mason, with an address at P.O. Box 295 Ellenboro, WV 26346, hereinafter referred to as Lessor, and Hunter Disposal, LLC with an address at 1048 Texan Trail, Grapevine, Texas 76051 hereinafter referred to as Lessee.

WHEREAS, Lessor and Lessee have previously entered into that certain Injection Lease, dated September 13, 2013 (the "Injection Lease"), whereby Lessor leased certain premises situated in the County of Ritchie, State of West Virginia providing for the construction of facilities for drilling, reworking, plugging back, operating and maintaining one specified well for the purpose of injecting brine or other fluids into the subsurface strata;

WHEREAS, Lessor and Lessee have previously entered into that certain Injection Lease Amendment, dated May 19, 2015 (the "Amendment") (the Injection Lease and the Amendment are hereinafter referred to as the "Lease"); and

WHEREAS, Lessor and Lessee desire to amend the Lease to remove the obligation for Lessee to plug and abandon the Ritchie #1 well within 30 days of the Ritchie #2 well becoming operational.

NOW THEREFORE, Lessor and Lessee, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, do hereby amend the Lease as follows:

1. The last paragraph of Section 1 of the Lease is hereby amended to delete the first sentence of said paragraph in its entirety. Therefore the last paragraph shall read as follows:

"Upon exhaustion of the Ritchie #2 injection lifespan, the Ritchie #2 well location will be reclaimed to approximate original contour before drilling, will be seeded and mulched pursuant to WV DEP regulations, the footprint around the well reduced to the minimum allowed by WV DEP regulations and the Ritchie #2 flow line will be removed from the ground and the surface reclaimed pursuant to WV DEP regulations."

2. The last paragraph of section 2 of the Injection Lease Amendment dated 19 May, 2015 is hereby amended to read as follows:

"Regardless of the schedule above and regardless of the actual Volume Weighted Average Price received by Lessee from Third Parties, in no event shall the royalty to Lessor be less than \$0.10 per barrel. Therefore, even if the Volume Weighted Average Price received by Lessee from Third Parties is below \$0.80, the royalty to Lessor shall remain \$0.10. Lessee shall provide documentation of any changes according to the schedule above. Such documentation shall be provided in the first payment that is subject to such change. In addition, the Royalty payment shall increase by \$0.01 for every \$0.20 increase in disposal rates over \$3.60. All monthly payments shall be payable on or before twenty five (25) days

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SEP 22 2015

WV Department of
Environmental Protection 10/09/2015

PEM
NVM

following the close of each month. All monthly payments shall be divided into two equal checks, one made payable to Nathanael L. Mason at 12985 Auburn Rd, Auburn WV 26325, the other to P. Everett Mason II, PO Box 295, Ellenboro, WV, 26346. An itemized statement showing (1) the total amount of material received by the Lessee, (2) the amount paid to Lessee for such materials by third parties, (3) the amount of royalty paid to Lessor and (4) the \$1500.00 payment shall be included with the payment every month. It is agreed and understood by Lessor and Lessee that the first monthly payment under this lease shall be reduced by \$5166.66. Such reduction may take place over more than one month, only if payments to Lessor would otherwise be less than \$5166.66, but in no event shall the total of such reductions exceed \$5166.66, nor shall the monthly reduction exceed the net revenue payable to Lessor.

3. All other terms and conditions contained in the Lease shall remain in full force and effect.

[SIGNATURES ON FOLLOWING PAGE]

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10/09/2015

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year aforesaid.

Signed and acknowledged in the presence of:

LESSOR:

LESSEE

Hunter Disposal, LLC

[Signature]

[Signature]

Nathant Man

ACKNOWLEDGEMENTS

State of West Virginia
County of Ritchie

On this 16 day of JULY, 2015, personally appeared NATHAN MAN, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he is executed the same for the purposes therein contained.

My Commission expires: 4-January 2019

[Signature]
Notary Public, in and for
State of West Virginia



State of West Virginia
County of Ritchie

On this 16 day of JULY, 2015, personally appeared P.E. MAN, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he is executed the same for the purposes therein contained.

My Commission expires: 4-January 2019

[Signature]
Notary Public, in and for
State of West Virginia

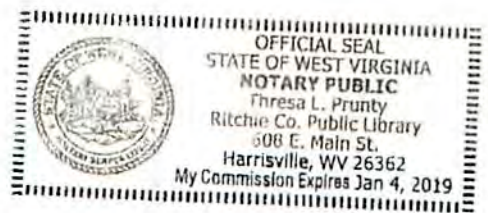


State of ~~Texas~~ West Virginia
County of Ritchie

On this 16 day of JULY, 2015, personally appeared ROBERT SEAN, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he is executed the same for the purposes therein contained.

My Commission expires: 4-January 2019

[Signature]
Notary Public, in and for
State of Texas ~~West Virginia~~



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NLM

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WV Department of Environmental Protection 10/09/2015

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

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API 47-085-10142 County Ritchie District Grant
Quad Ellenboro Pad Name Mason Field/Pool Name N/A
Farm name Nathanael Mason & Pearl Everett Mason Well Number W-1652
Operator (as registered with the OOG) Haught Energy Corporation
Address 12864 Staunton TPKE City Smithville State WV Zip 26178

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4345259.46 Easting 491589.29
Landing Point of Curve Northing NA Easting NA
Bottom Hole Northing NA Easting NA

Elevation (ft) 1021' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
NA

Date permit issued 09/26/2014 Date drilling commenced 01/19/2015 Date drilling ceased 01/26/2015
Date completion activities began 2/4/2015 Date completion activities ceased 3/24/2015
Verbal plugging (Y/N) NA Date permission granted NA Granted by NA

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 175 Open mine(s) (Y/N) depths N
Salt water depth(s) ft None Void(s) encountered (Y/N) depths N
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
JIC 6/12/15
W.A.S 06/12/15
10/09/2015

WR-35
Rev. 8/23/13

API 47-085 - 10142

Farm name Nathanael Mason & Pearl Evarett Mason Well number W-1652

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	15"	13 3/8"	35'	New	48#	NA	Yes
Surface	12 -1/4"	9 5/8"	330'	New	26#	NA	Yes
Coal							
Intermediate 1	8 -7/8"	7"	2130	New	17#	1600	Yes
Intermediate 2							
Intermediate 3							
Production	6 -3/8"	4 1/2"	6447.3	New	11.6#	6000, 5000	No
Tubing							
Packer type and depth set							

Comment Details 115 Sacks of cement used on production string (as below) providing approximately 2,000 + feet E3 up.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Type 1/Class A	7	14.8	1.4	8.8	Surface	8
Surface	Type 1/Class A	90	14.8	1.38	124.2	Surface	8
Coal							
Intermediate 1	Type 1/Class A	300	14.8	1.4	420	Surface	8
Intermediate 2							
Intermediate 3							
Production	Strong Lite 150	115	13.1	1.94	223.1	4,450'	24
Tubing							

Drillers TD (ft) 6,480' Loggers TD (ft) 6,480'

Deepest formation penetrated Ordinary Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) NA

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

Centralizers were used on Fresh water, Intermediate and Production strings as necessary to ensure a contact up casing string for optimal cement circulation and setting.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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MAR 31 2015

API 47- 085 - 10142 Farm name Nathanael Mason & Pearl Everett Mason Well number W-1652

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	2-4-2015	6294	6360	104	Oriskany

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	2/5/15	4.0	1900	2940	1650	NA	425	NA

Received
Office of Oil & Gas

MAR 31 2015

Please insert additional pages as applicable.

API 47- 085 - 10142 Farm name Nathanael Mason & Pearl Everett Mason Well number W-1652

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Oriskany</u>	<u>6294-6360</u> TVD	<u>6294-6360</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 200 psi Bottom Hole 1400 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 200 mcfpd Oil NA bpd NGL NA bpd Water NA bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP DEPTH IN FT NAME TVD</u>	<u>BOTTOM DEPTH IN FT TVD</u>	<u>TOP DEPTH IN FT MD</u>	<u>BOTTOM DEPTH IN FT MD</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
<u>See Attached</u>	<u>0</u>		<u>0</u>		

Please insert additional pages as applicable.

Drilling Contractor Top Drilling Corporation
Address 107 Lancaster Street City Marietta State OH Zip 45750

Logging Company Nabors Completion & Production Services Co.
Address P.O. Box 975682 City Dallas State TX Zip 75397

Cementing Company Universal Well Services, Inc.
Address P.O. Box 200869 City Dallas State TX Zip 75320

Stimulating Company Universal Well Services, Inc.
Address P.O. Box 200869 City Dallas State TX Zip 75320

Please insert additional pages as applicable.

Completed by Haught Energy Corporation Telephone 304-477-3333
Signature [Signature] Title Development Director Date 3/25/15

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Office of Oil & Gas
MAR 31 2015

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

Mason W-1652
API # 47-085-10142

Formation	Top	Bottom	Remarks
Red Rock & Shale	0	604	
Sand	604	639	
Red Rock	639	719	
Sand	719	739	
Red Rock	739	794	
Slate	794	874	
Dunkard Sand	874	884	
Slate & Shells	884	1264	
Gas Sand	1264	1374	
Slate	1374	1442	
1st Salt Sand	1442	1502	
Shale	1502	1538	
2nd Salt Sand	1538	1556	
Shale	1556	1584	
3rd Salt Sand	1584	1694	
Slate	1694	1780	
Maxon Sand	1780	1819	
Shale	1819	1889	
Little lime	1889	1914	
Pencil Cave	1914	1918	
Big Lime	1918	2016	
Big Injun Sand	2016	2076	
Slate Break	2076	2080	
Squaw Sand	2080	2094	
Slate & Shells	2094	2358	
Coffee Shale	2358	2392	
Berea Sand	2392	2396	
Slate & Shells	2396	2512	
Sand	2512	2524	
Slate & Shells	2524	2784	
Sand	2784	2796	
Slate & Shells	2796	4428	
Benson Sand	4428	4454	
Slate & Shells	4454	4949	
Alexander Sand	4949	4960	
Slate & Shells	4960	5358	
Sand	5358	5378	
Slate & Shells	5378	6008	
Hamilton Shale	6008	6032	
Tully Lime	6032	6036	
Marcellus Shale	6036	6074	
Onondaga Lime	6074	6300	
Oriskany Sand	6300	6360	
Lime	6360	6480	
TD	6480		

Received
Office of Oil & Gas
MAR 31 2015



1) Date: September 21, 2015
2) Operator's Well No. Ritchie Hunter #2
3) API Well No.: 47 - 085 - 10142
State County Permit
4) UIC Permit No. _____

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION
FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,

5) Surface Owner(S) To Be Served (a) Name Nathaniel/Pearl Everett Mason ✓ Address PO Box 235
Ellenboro, WV 26346
(b) Name _____ Address _____
(c) Name _____ Address _____
6) Inspector David Cowan Address 1597 Devil Hole Rd
Harrisville, WV 26362 Telephone (304)389-3509
7) (a) Coal Operator Name None Address _____
7) (b) Coal Owner(S) With Declaration Of Record Name None Address _____
7) (c) Coal Lessee with Declaration Of Record Name None Address _____

TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents

- (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work;
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The date proposed for the first injection or waste disposal is 10/31 20 15

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The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Ritchie Hunter Water Disposal, LLC
Address 28407 State Route 7
Marietta, OH 45750
By: Robert W. Sloan III
Its: SVP - Operations
Signature: _____

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Everett Mason II Nathaniel Mason	Hunter Disposal, LLC		

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**


The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

MITCHELL HUNTER WATER DISPOSAL, LLC
Robert W. Sloan III

Well Operator:
By: Its:

SVP - Operations


SIGNED:

10/09/2015

WW-2B1
(5-12)

Well No. _____

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name	Microbac Laboratories	158 Starlight Drive
Sampling Contractor	Michelle Taylor	Marietta, OH 45750

Well Operator	Ritchie Hunter Water Disposal, LLC
Address	28407 State Route 7 Marietta, OH 45750
Telephone	740-373-4599

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

Nathaniel & Pearl Everett Mason II
PO Box 235
Ellenboro, WV 26346

Bonds Creek Free Will Baptist Church
Route 50
Ellenboro, WV 26346

10/09/2015

WW-2B1
(5-12)

Well No. _____

West Virginia Department of Environmental Protection
Office of Oil and Gas

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Well Operator	<u>Ritchie Hunter Water Disposal, LLC</u>
Address	<u>28407 State Route 7</u>
	<u>Marietta, OH 45750</u>
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Nathaniel & Pearl Everett Mason II
Po Box 235
Ellenboro, WV 26346

Bonds Creek Free Will Baptist Church
Route 50
Ellenboro, WV 26346

10/09/2015

8510142 B

WW-9
(2/15)

API Number 47 - 085 - 10142
Operator's Well No. Ritchie Hunter #2

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Ritchie Hunter Water Disposal, LLC OP Code 452705107

Watershed (HUC 10) Hushers Run Quadrangle Ellenboro

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: Drilling Fluid-Flowback

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20 mil

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number UIC2D0859721)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? Drilling Soap

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in Pit

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Lime

-Landfill or offsite name/permit number? N/A

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 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) Robert W. Sloan III

Company Official Title SVP - Operations

Subscribed and sworn before me this 21st day of September, 2015

[Signature] Notary Public

My commission expires 3-26-17

RECEIVED
Office of Oil and Gas



10/09/2015

Ritchie Hunter Water Disposal, LLC

Proposed Revegetation Treatment: Acres Disturbed 2.5 Prevegetation pH 5.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type _____

Fertilizer amount 600 lbs/acre

Mulch 90 Bales Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
<u>Pasture Mix</u>	<u>100</u>
<u>(Orchard Grass, Rye, Timothy, Clover)</u>	

Seed Type	lbs/acre
<u>Pasture Mix</u>	
<u>(Orchard & Rye Grass, Timothy, Clover)</u>	

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No

Ritchie Hunter Water Disposal, LLC

Proposed Revegetation Treatment: Acres Disturbed 2.5 Prevegetation pH 5.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type _____

Fertilizer amount 600 lbs/acre

Mulch 90 Bales Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Pasture Mix 100

Pasture Mix

(Orchard Grass, Rye, Timothy, Clover)

(Orchard & Rye Grass, Timothy, Clover)

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

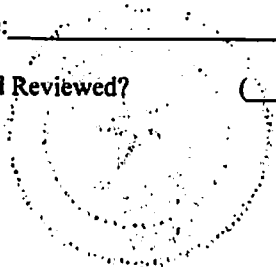
Comments: _____

Title: _____

Date: _____

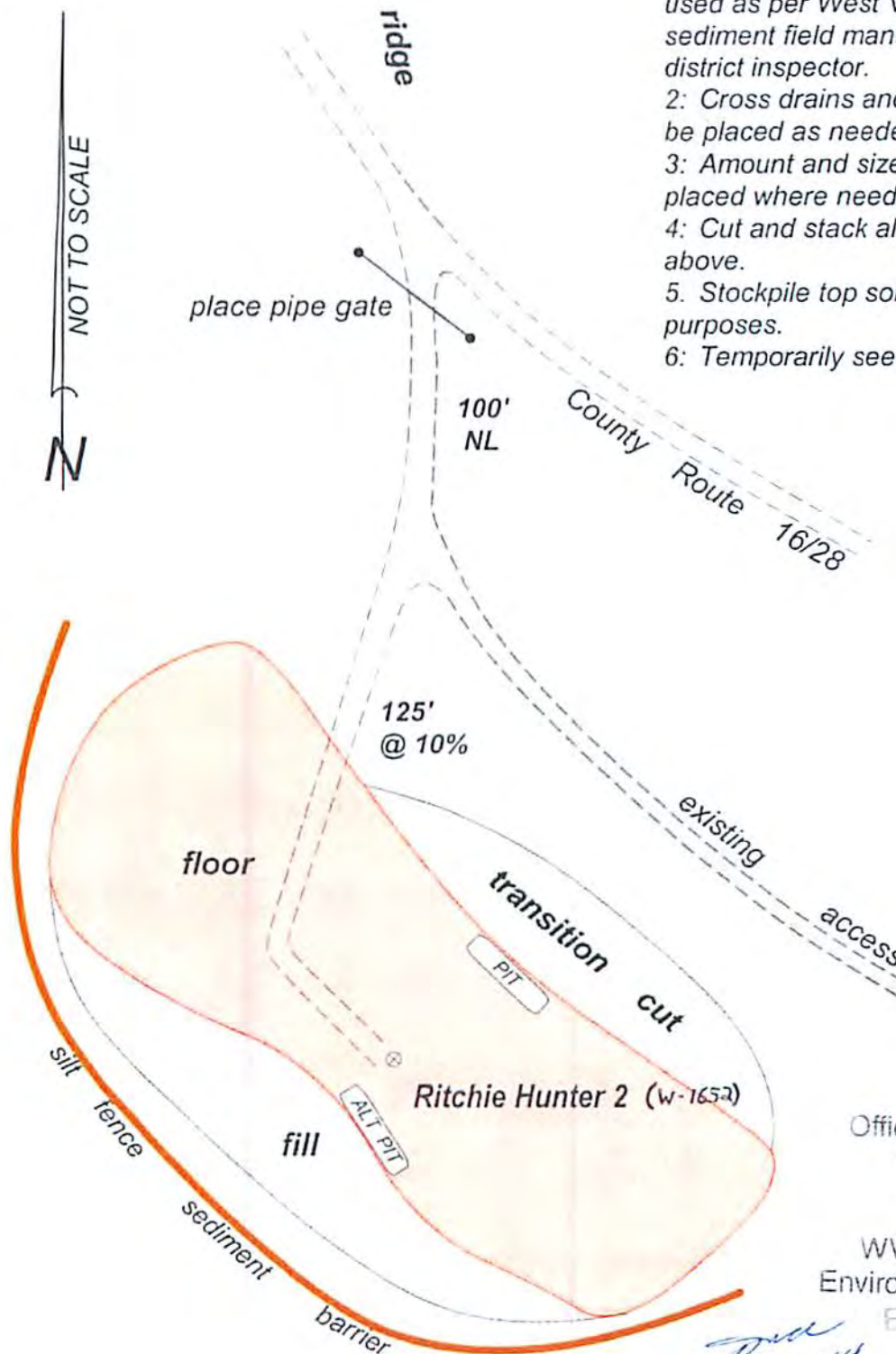
Field Reviewed? () Yes

() No



Haught Energy, Inc. Well: Ritchie Hunter 2 (W-1652) Haught Family Trust 99 Acre Lease Grant District Ritchie County West Virginia

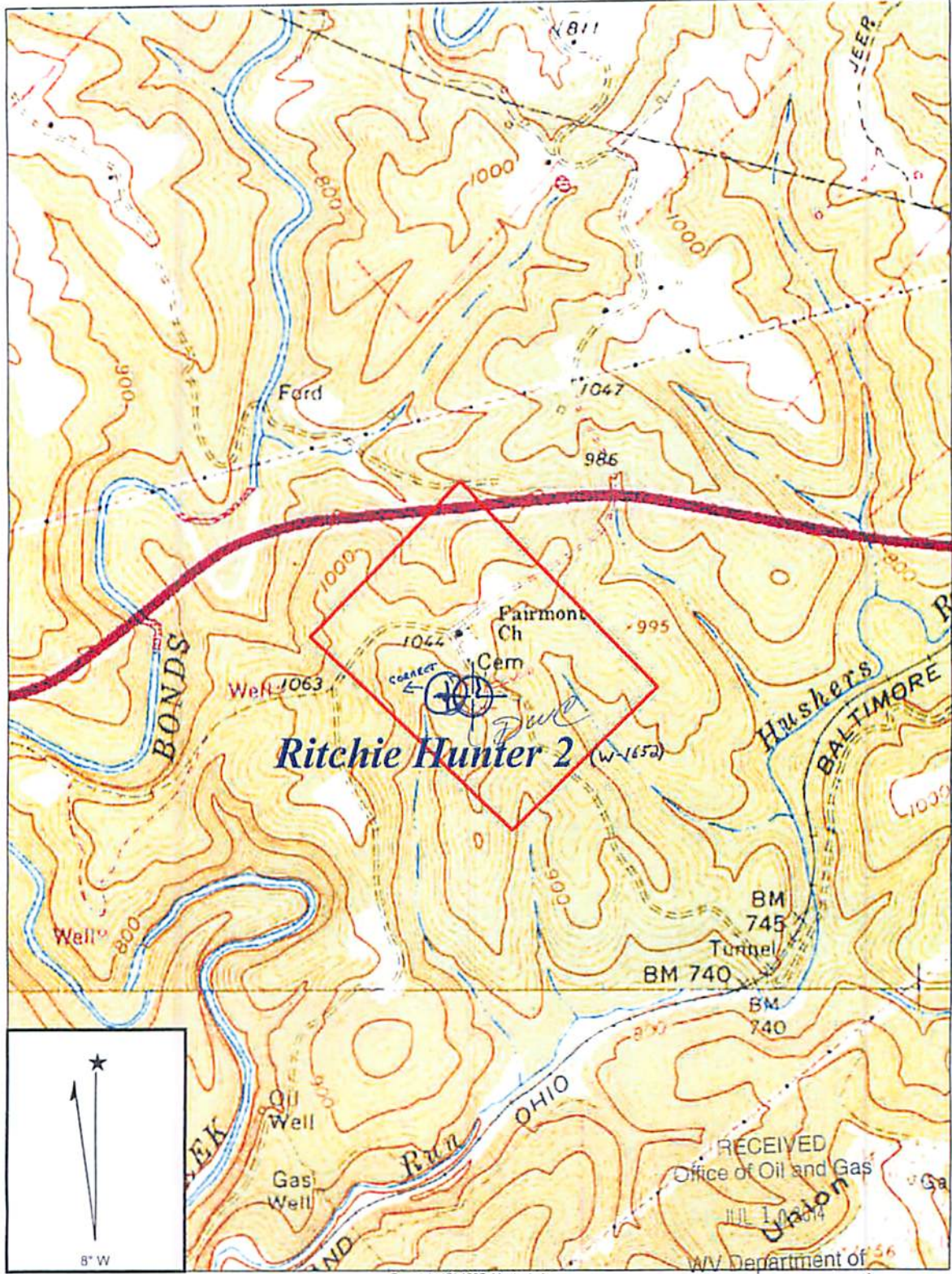
- 1: Erosion and sediment control will be used as per West Virginia erosion and sediment field manual and/or directed by district inspector.
- 2: Cross drains and sediment control will be placed as needed.
- 3: Amount and size of culverts to be placed where needed.
- 4: Cut and stack all trees 6 inches and above.
- 5: Stockpile top soil for reclamation purposes.
- 6: Temporarily seed and mulch all slopes.



RECEIVED
Office of Oil and Gas
JUL 10 2014
SEP 22 2015
WV Department of
Environmental Protection

Handwritten signature
7-5-14

10/09/2015



Ritchie Hunter 2

ELLENBORO QUADRANGLE

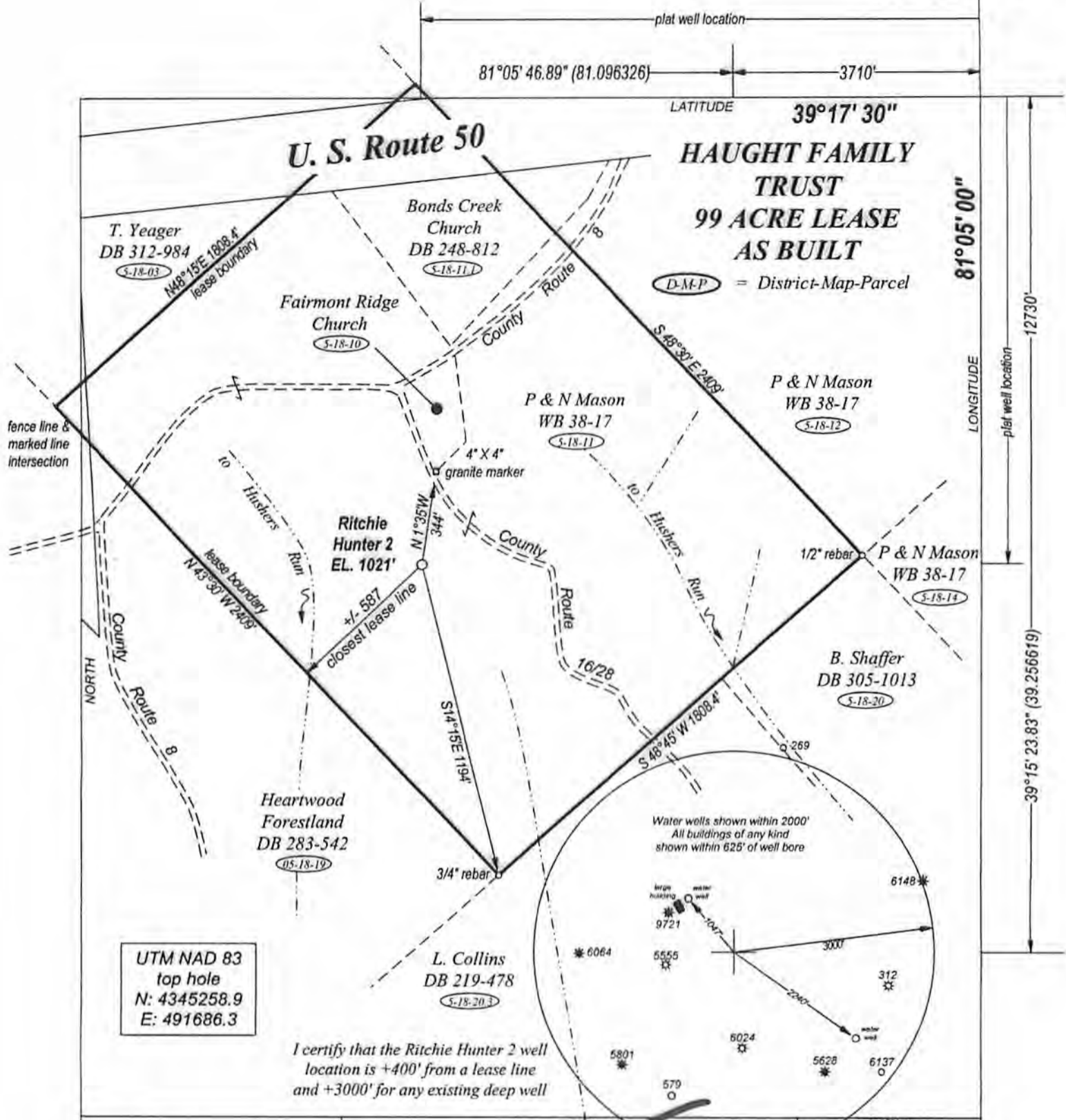
SCALE 1" = 1000'

HAUGHT ENERGY CORP.

WELL: RITCHIE HUNTER 2
HAUGHT FAMILY TRUST 99 ACRE LEASE

GRANT DISTRICT RITCHIE COUNTY WEST VIRGINIA

10/09/2015



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION GPS
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 ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNATURE) _____
PROFESSIONAL SURVEYOR: 551



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

DATE OCTOBER 2ND, 2015
OPERATORS WELL NO. RITCHIE HUNTER 2

API 47 - 085 - 10142B
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1014' WATER SHED HUSHERS RUN
DISTRICT GRANT COUNTY RITCHIE QUADRANGLE ELLENBORO

SURFACE OWNER PEARL EVERETT MASON & NATHANAEL LYLE MASON ACREAGE 84.27
OIL & GAS ROYALTY 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
PLUG AND ABANDON CLEAN OUT AND REPLUG

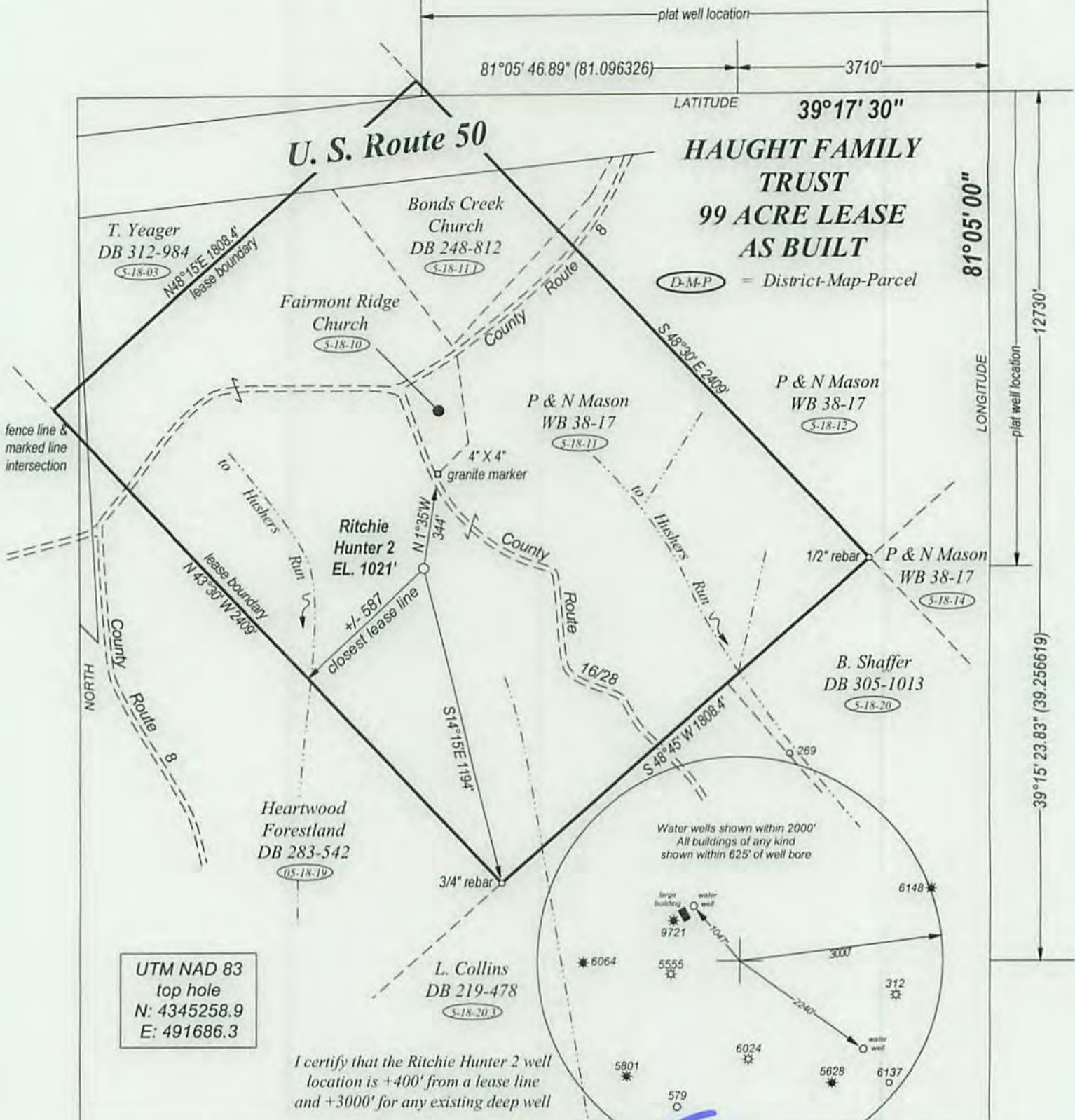
TARGET FORMATION ORISKANY ESTIMATED DEPTH 6270'

WELL OPERATOR HAUGHT ENERGY CORP. DESIGNATED AGENT WARREN HAUGHT
ADDRESS 12864 STAUNTON TURNPIKE ADDRESS 12864 STAUNTON TURNPIKE
SMITHVILLE, WV 26178 SMITHVILLE, WV 26178

FORM WW - 6

COUNTY NAME
PREMIT

10/09/2015



UTM NAD 83
top hole
N: 4345258.9
E: 491686.3

I certify that the Ritchie Hunter 2 well location is +400' from a lease line and +3000' for any existing deep well

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION GPS
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 ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) *[Signature]*
PROFESSIONAL SURVEYOR: 551



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

DATE OCTOBER 2ND, 2015
OPERATORS WELL NO. RITCHIE HUNTER 2

API 47 - 085 -10142B
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1014' WATER SHED HUSHERS RUN
DISTRICT GRANT COUNTY RITCHIE QUADRANGLE ELLENBORO

SURFACE OWNER PEARL EVERETT MASON & NATHANAEL LYLE MASON ACREAGE 84.27
OIL & GAS ROYALTY HAUGHT FAMILY TRUST LEASE AC 99

PROPOSED WORK: DRILL ___ CONVERT X DRILL DEEPER ___ REDRILL ___
FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___
OTHER PHYSICAL CHANGE IN WELL ___
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION ORISKANY ESTIMATED DEPTH 6270'

WELL OPERATOR HAUGHT ENERGY CORP. DESIGNATED AGENT WARREN HAUGHT
ADDRESS 12864 STAUNTON TURNPIKE ADDRESS 12864 STAUNTON TURNPIKE
SMITHVILLE, WV 26178 SMITHVILLE, WV 26178

FORM WW-6

10/09/2015

COUNTY NAME
PREMIT