



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 10, 2014

WELL WORK PERMIT
Horizontal Well

This permit, API Well Number: 47-8510159, issued to HAUGHT ENERGY CORPORATION, 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: W 1654H
Farm Name: SMITH, LENORE
API Well Number: 47-8510159
Permit Type: Horizontal Well
Date Issued: 10/10/2014

Promoting a healthy environment.

10/10/2014

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Haight Energy Corporation

494494463	Ritchie	Murphy	Smithville
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Operator ID County District Quadrangle

2) Operator's Well Number: W-1654H 3) Elevation: 1033'

4) Well Type: (a) Oil or Gas
 (b) If Gas: Production / Underground Storage _____
 Deep _____ / Shallow

5) Proposed Target Formation(s): Big Injun Proposed Target Depth: 2,045'

6) Proposed Total Depth: 4,020 Feet Formation at Proposed Total Depth: Big Injun

7) Approximate fresh water strata depths: 100'

8) Approximate salt water depths: None Noted in Offset Wells

9) Approximate coal seam depths: None Noted in Offset Wells

10) Approximate void depths, (coal, Karst, other): None Noted in Offset Wells

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Drill new shallow Horizontal Oil and Gas well. Anticipate Fracturing formation using a Seven stage foam Frac including approximately 700,000 cubic feet of nitrogen, 500 Barrels of water and 500 gallons of acid per stage. The 4.5" production casing will be set into the wellbore using 8 - peak completion packers and 6 frac sleeves. This system will be used in place of a traditional cement and perforations system.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT
	<u>Size</u> <u>Grade</u> <u>Weight per ft</u>	<u>For Drilling</u> <u>Left in Well</u>	<u>Fill -up (Cu. Ft.)</u>
Conductor	20" K 94 #	40' 40'	Sanded In
Fresh Water	13-3/8" K-55 54.5 #	300' 300'	To Surface
Coal	9-5/8" K-55 29.3 #	1,000' 1,000'	To Surface
Intermediate	7" K-55 20 #	2,400' 2,400'	To Surface
Production	4-1/2" K-55 10.5 #	3,900' 3,900'	N/A - <small>Flowback System</small>
Tubing	N/A N/A N/A	N/A N/A	N/A
Liners	N/A N/A N/A	N/A N/A	N/A

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Packers: Kind: Peak Completion - (6) Predator Packers with frac sleeves; (2) Strata Pak Hanger Packer
 Sizes: 4-1/2" casing x 6-1/4" wellbore & 4-1/2" Casing x 7" Casing
 Depths Set Predator - 2700', 2920', 3140', 3360', 3580', 3800'; Hanger - 2,000' & 2,500'

DW
8-20-14

WV Department of
Environmental Protection



Wellbore Schematic

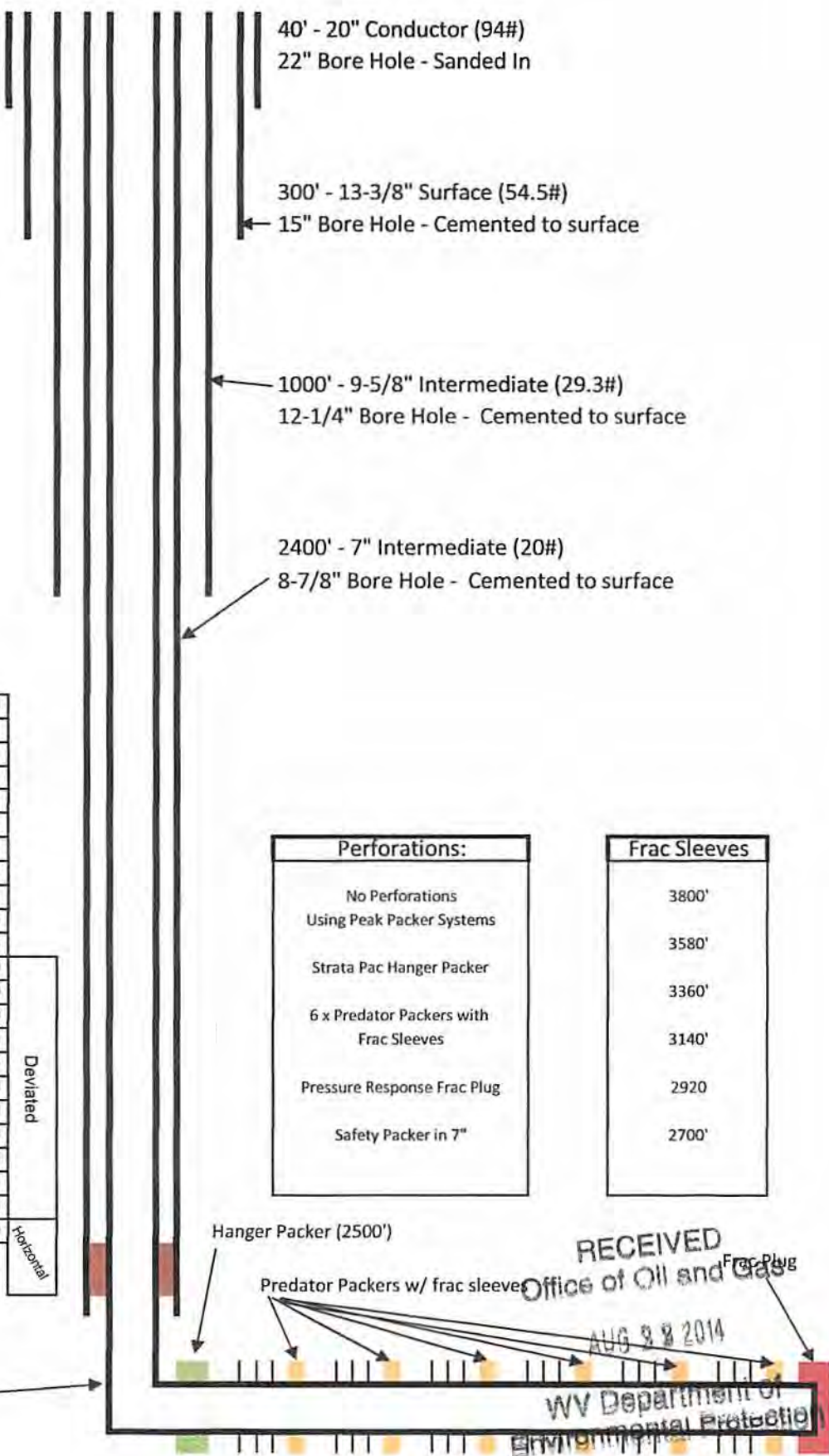
Well: Lenore Smith W1654H
API: 47-085-1XXXX

Current Status:
 Stake and Permit Horizontal Big Injun Well

TMD	4,020'
TVD	2,050'

Stratigraphic Information

Formation	Top	Bottom	TMD
Red Rock & Shale	0	460	460
Sand	460	505	505
Red Rock	505	680	680
Sand	680	700	700
Red Rock	700	765	765
Slate and Shells	765	965	965
Dunkard Sand	965	990	990
Slate & Shells	990	1225	1225
Gas Sand	1225	1295	1295
Slate & Shells	1295	1405	1410
Gas Sand #2	1405	1435	1440
Shale	1435	1455	1460
1st Salt Sand	1455	1495	1505
Slate	1495	1525	1565
2nd Salt Sand	1525	1575	1640
Shale	1575	1745	2000
Maxon Sand	1745	1805	2090
Slate and Shells	1805	1875	2150
Big Lime	1875	1955	2250
Keener	1955	2005	2405
Big Injun Sand	2005	2045	2500



Perforations:
No Perforations
Using Peak Packer Systems
Strata Pac Hanger Packer
6 x Predator Packers with Frac Sleeves
Pressure Response Frac Plug
Safety Packer in 7"

Frac Sleeves
3800'
3580'
3360'
3140'
2920
2700'

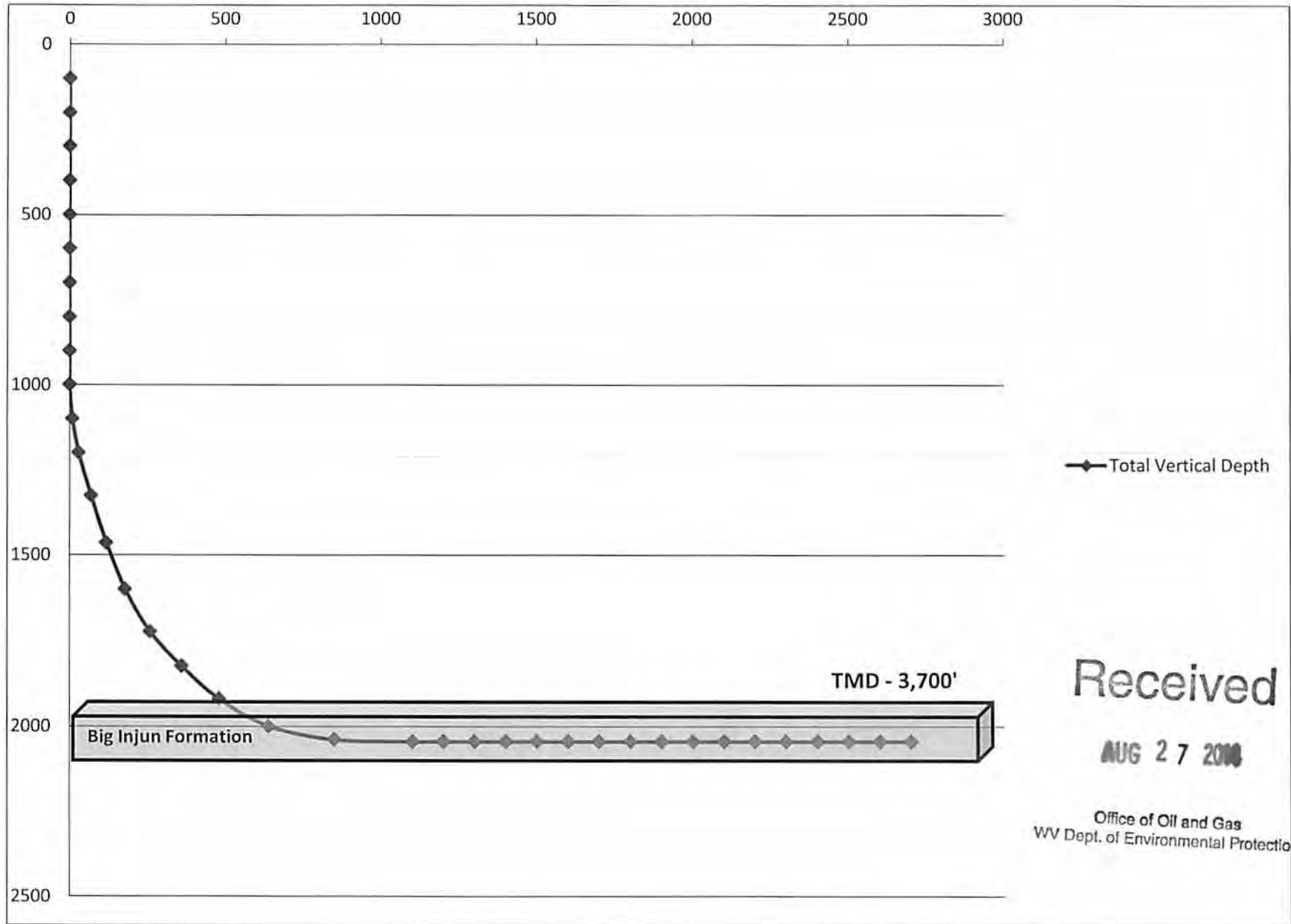
4020' TMD
 6-3/8" Bore Hole

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 AUG 28 2014
 WV Department of Environmental Protection

H16510158

Lenore Smith W-1654H

Lenore Smith W-1654H
Lateral Schematic

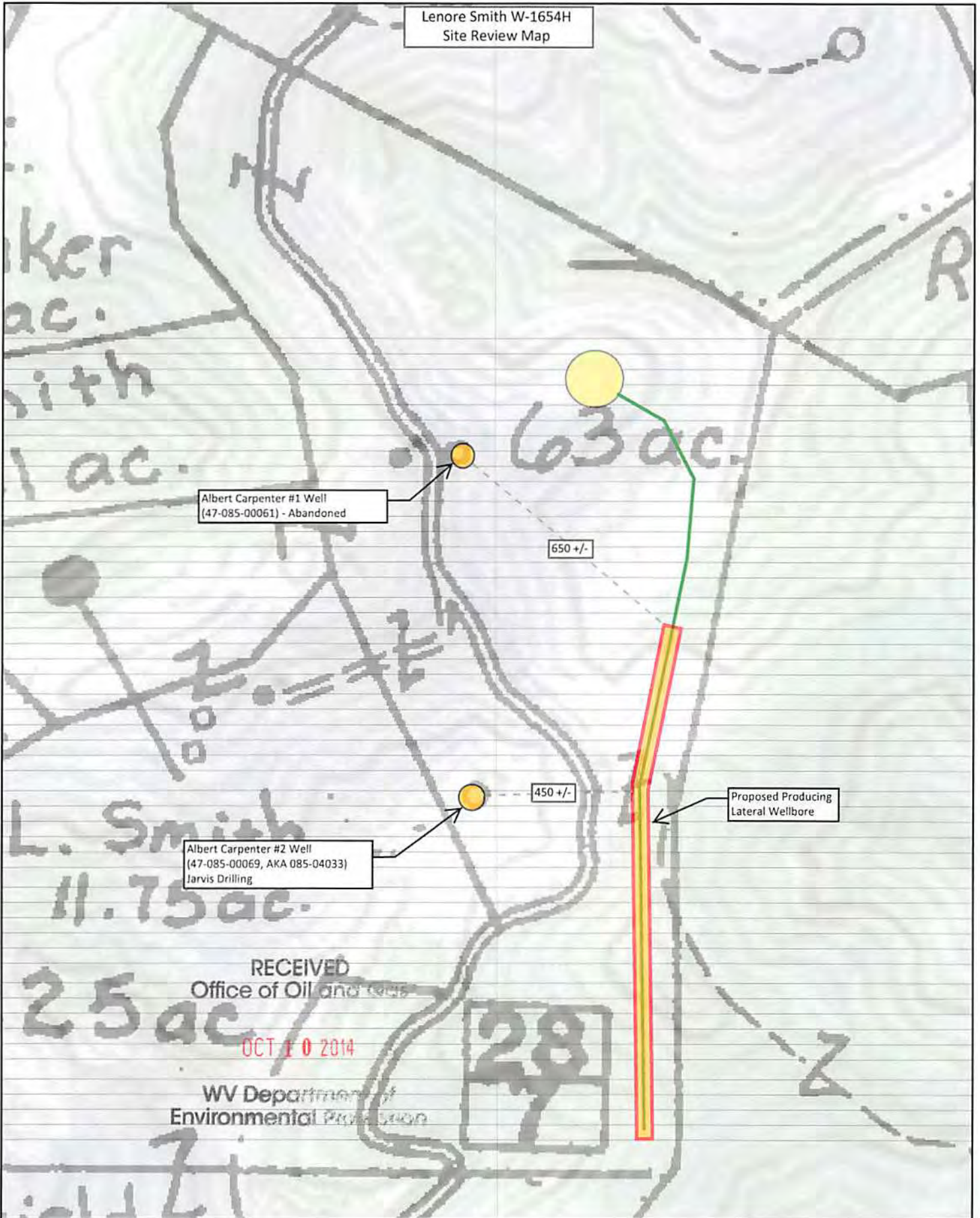


Received

AUG 27 2008

Office of Oil and Gas
WV Dept. of Environmental Protection

Lenore Smith W-1654H
Site Review Map



Albert Carpenter #1 Well
(47-085-00061) - Abandoned

Albert Carpenter #2 Well
(47-085-00069, AKA 085-04033)
Jarvis Drilling

Proposed Producing
Lateral Wellbore

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OCT 10 2014

WV Department of
Environmental Protection

0 130 260 520 Feet

10/10/2014



8510159H

Haight Energy Corporation
W-1654H
Horizontal Well Site Review

Haight Energy Corporation has completed a site review for the area nearby our proposed lateral wellbore and found the following well which is producing from the same or nearby formations within five hundred feet from our proposed lateral wellbore:

<u>API #</u>	<u>Operator</u>	<u>Producing Formation</u>	<u>Distance</u>
47-085-04033 aka 085-00069	Jarvis Drilling	Big Injun	450' +/-

After reviewing the location of this well, it is unlikely that the drilling or stimulation of our proposed well will have any effect on this nearby well. However, we will make every effort to contact the Operator of this well and discuss our drilling and completion plans with them so they are aware of our procedures. A well visit will be completed to inspect the facilities on the existing well and confirm that they should be capable of withstanding the pressures which we anticipate to migrate that distance from our proposed wellbore during our drilling and completion processes.

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OCT 10 2014

WV Department of
Environmental Protection

10/10/2014

WW-2A
(Rev. 6-14)

1.) Date: 8-12-2014
2.) Operator's Well Number W-1654H
State County Permit
3.) API Well No.: 47- 085 - 10159

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

4) Surface Owner(s) to be served:
(a) Name Lenore Smith
Address 384 Blaine Ave
Marion. OH 43302
(b) Name _____
Address _____
(c) Name _____
Address _____
5) (a) Coal Operator
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____
6) Inspector David Cowan
Address 1597 Devil Hole Road
Harrisville. WV 26362
Telephone 304-389-3509

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

OR
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 Hought Energy Corporation
By: Warren R. Hought
Its: Agent
Address: 12864 Staunton TPKE
Smithville. WV 26178
Telephone: 304-477-3333
Email: rhaught@topdrilling.com

Subscribed and sworn before me this 20th day of August, 2014

Brad L Morris Notary Public

My Commission Expires MAY 12, 2024

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Office of Oil and Gas

AUG 22 2014

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

10/10/2014

7010 0290 0003 0802 9922

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ 1.60	
Certified Fee	3.30	
Return Receipt Fee (Endorsement Required)	2.70	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 7.61	

Sent To **LENORE SMITH** *USPS*

Street, Apt. No.,
or PO Box No. **384 BLAINE AVE.** ✓

City, State, ZIP+4 **MARION, OH 43302**

PS Form 3800, August 2006 See Reverse for Instructions

8510159 H

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature <input checked="" type="checkbox"/> <i>Lenore Smith</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee
1. Article Addressed to: <p style="text-align: center;"><i>LENORE SMITH 384 BLAINE AVE. MARION, OH 43302</i></p>	B. Received by (Printed Name) <input type="checkbox"/> C. Date of Delivery <i>LENORE SMITH</i> <i>8.23.14</i>
2. Article Number (Transfer from service label)	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
PS Form 3811, February 2004	3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
Domestic Return Receipt	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
7010 0290 0003 0802 9922	102595-02-M-1540

UNITED STATES POSTAL SERVICE

OH 43302
23 AUG 14
PM 3L

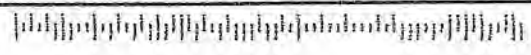


First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

° Sender: Please print your name, address, and ZIP+4 in this box °

Haight Energy Corporation
12864 Staunton TPKE
Smithville, WV 26178

8700484



Received

AUG 27 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

10/10/2014

WW-2A1
(Rev. 1/11)

Operator's Well Number W-1654H

**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
Lenore Smith, Et al	Whittle Corporation	12.5%	247/685

Whittle Corporation is a wholly owned subsidiary of Haught Energy Corporation and as owner of Whittle Corporation, Haught Energy Corporation has full right to drill and complete an oil and gas well on the above property with leases taken and agreements put into place by Whittle Corporation. (Agreement Attached)

**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.

Well Operator:
By Its:

Haught Energy Corporation
Warren R. Haught
 Agent

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 Office of Oil and Gas
 AUG 29 2014
 WV Department of
 Environmental Protection

10/10/2014

AGREEMENT

THIS AGREEMENT , Made this 1st day of December, 2010, by and between Whittle Corporation, HC 68 Box 14, Smithville, WV 26178 as party of the First part and Haught Energy Corporation, HC 68 Box 14, Smithville, WV 26178 as Party of the second part.

WHEREAS:

Haught Energy Corporation is the parent company of Whittle Corporation.

WITNESSETH:

Whittle Corporation gives Haught Energy Corporation the right to operate and develop any leases that are owned by Whittle Corporation within the State of West Virginia.

IN WITNESS WHEREOF, the Parties have caused this Assignment to be properly executed the day and year first above written.

Whittle Corporation
Warren R. Haught
Name: Warren R. Haught
Title: President

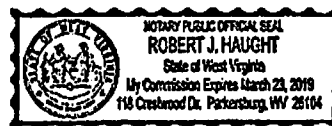
Haught Energy Corporation
B. Douglas Haught
Name: B. Douglas Haught
Title: President

STATE OF WEST VIRGINIA

COUNTY OF RITCHIE

BE IT KNOWN, that on this 1st day of December, 2010, before me, the undersigned authority, personally came and appeared WARREN R. HAUGHT appearing herein in his capacity as the PRESIDENT of WHITTLE CORPORATION, to me personally know to be the identical person whose name is subscribed to the foregoing instrument as the said officer of said corporation, and declared and acknowledged to me, Notary, that he executed the same on behalf of said corporation, and that the said instrument is the free act and deed of the said corporation and was executed for the uses, purposes and benefits therein expressed.

[Signature]
NOTARY PUBLIC

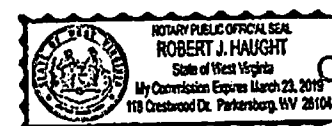


STATE OF WEST VIRGINIA

COUNTY OF RITCHIE

BE IT KNOWN, that on this 1st day of December, 2010, before me, the undersigned authority, personally came and appeared B. DOUGLAS HAUGHT appearing herein in his capacity as PRESIDENT of HAUGHT ENERGY CORPORATION, to me personally know to be the identical person whose name is subscribed to the foregoing instrument as the said officer of said corporation, and declared and acknowledged to me, Notary, that he executed the same on behalf of said corporation, and that the said instrument is the free act and deed of the said corporation and was executed for the uses, purposes and benefits therein expressed.

[Signature]
NOTARY PUBLIC



This Document Prepared by:

Whittle Corporation
HC 68 Box 14
Smithville, WV 26178

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Office of Oil and Gas
AUG 22 2014
WV Department of
Environmental Protection
10/10/2014

WW-2B1
(5-12)

Well No. W-1654H

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
Sampling Contractor 158 Starlight Dr, Marietta, OH 45750

Well Operator Haught Energy Corporation
Address 12864 Staunton TPKE
Smithville, WV 26178
Telephone 304-477-3333

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.

No water wells within 1000 feet of proposed location, will sample water source within 2,000 feet of well bore
Surfaces owners Contacted:
Lenore Smith
384 Blaine Ave
Marion, OH 43302
MUST SAMPLE BEFORE SPUDDING WELL.
Spudman

10/10/2014

851015911

WW-9
(5/13)

Page _____ of _____
API Number 47 - 085 - _____
Operator's Well No. W-1654H _____

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Haught Energy Corporation OP Code 494494463

Watershed (HUC 10) Lamb Run Quadrangle Smithville 612

Elevation 1033' County Ritchie 95 District Murphy 3

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a pit be used for drill cuttings? Yes X No _____

If so, please describe anticipated pit waste: Drilling Water / Fluid - Flow Back Water

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

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? No

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? TD 200 Drilling Soap (if necessary)

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

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 Warren R. Haught

Company Official (Typed Name) Warren R. Haught

Company Official Title Agent



Subscribed and sworn before me this 20TH day of August, 20 14

Brad L. Morris Notary Public

My commission expires MAY 12, 2024

10/10/2014

Form WW-9

Operator's Well No. W-1654H

Proposed Revegetation Treatment: Acres Disturbed 2.5 AC Prevegetation pH 5.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs minimum)

Mulch 90 Bales Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Pasture Mix	100	Pasture Mix	100
(Orchard Grass, Rye Grass, Timothy, Clover)		(Orchard Grass, Rye Grass, Timothy, Clover)	

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Daniel W. Law*

Comments: *spread a mulch all out area no less than 2*
ton per acre maintain all PWS during operations

Title: *silvagen inspector* Date: *8-20-14*

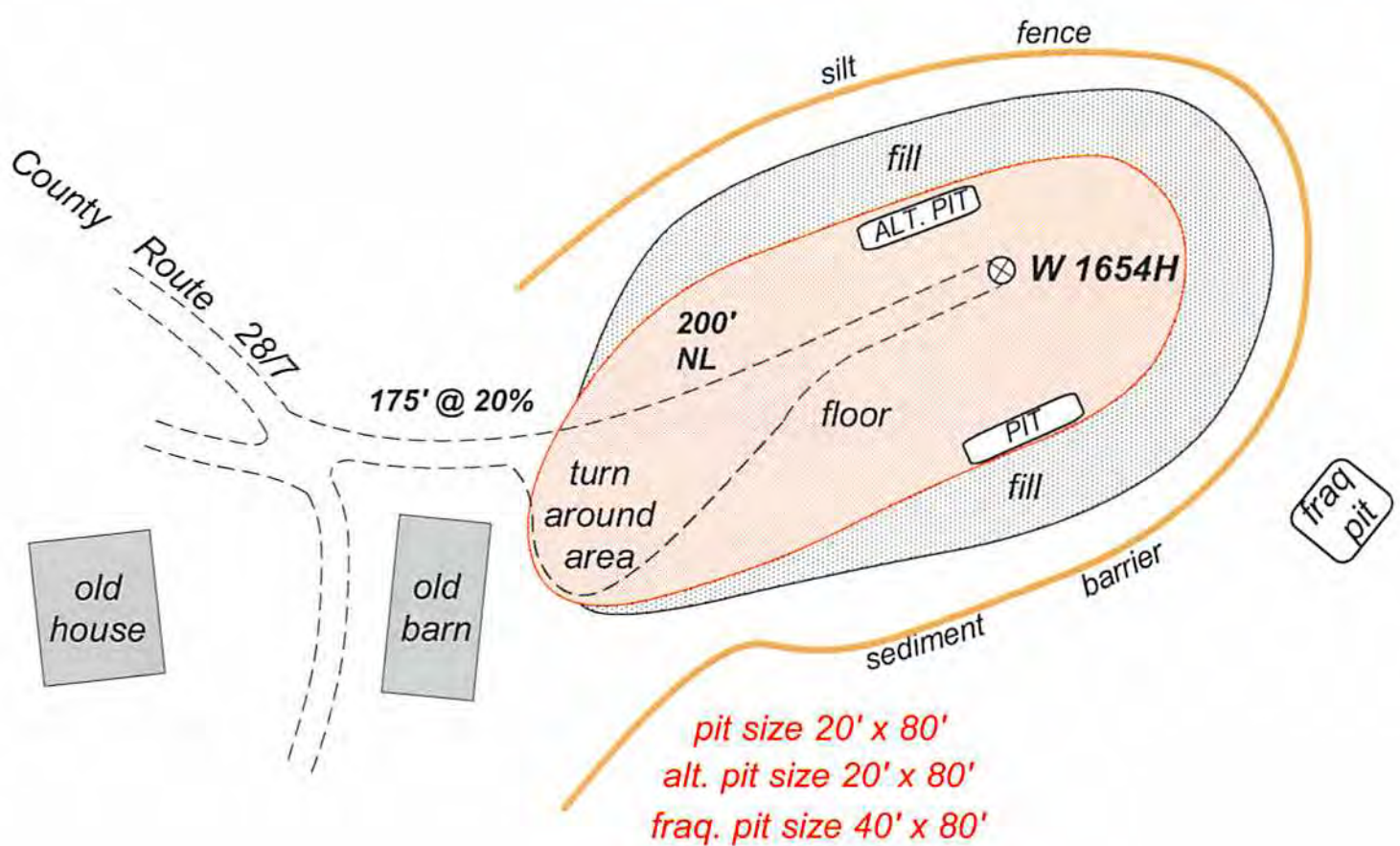
Field Reviewed? Yes No

Addendum to WW-9
W-1654H
Haught Energy Corporation

It is the intention of Haught Energy Corporation to build a pit capable of holding no more than 5,000 Barrels of fresh water to be used in the fracturing of well W-1654H. This pit will be built separate of the drilling pit and will be used in a temporary manner. The walls will be compacted as needed to ensure a stable structure and a liner will be used in the pit. The pit will be built and filled with fresh water then used as expeditiously as possible to fracture the well. Following fracturing the well, the flow-back will be completed and once the flow-back has been completed, all flow-back water shall be hauled from this pit to an injection facility for disposal. Once the pit has been dried out, reclamation will ensue. It is the Intention of Haught Energy to use this pit as a temporary structure and not a long standing impoundment.

Haught Energy Corp. Lenore Smith 91 7/8 Acre Lease Murphy District Ritchie County West Virginia

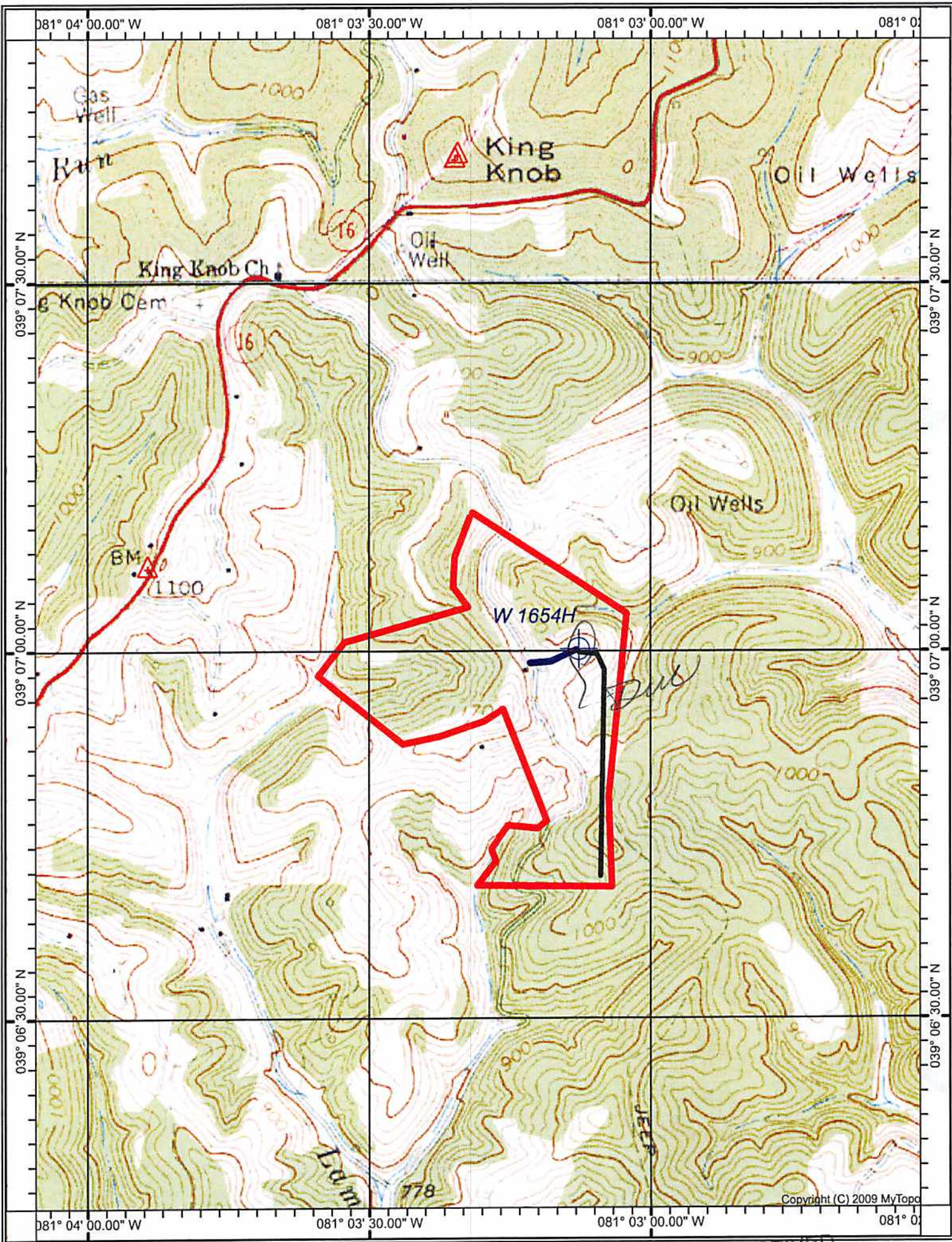
- 1: Erosion and sediment control will be used as per West Virginia erosion and sediment field manual and/or directed by district inspector.
- 2: Cross drains and sediment control will be placed as needed.
- 3: Amount and size of culverts to be placed where needed.
- 4: Cut and stack all trees 6 inches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



Done 8-00-14

10/10/2014

8510159H



SMITHVILLE QUADRANGLE

SCALE 1" = 1000'

HAUGHT ENERGY CORP.

WELL: W 1654H
LENORE SMITH, ET AL 91 7/8 ACRE LEASE

MURPHY DISTRICT RITCHIE COUNTY WEST VIRGINIA

RECEIVED
Office of Oil and Gas
AUG 22 2014
WV Department of
Environmental Protection
10/10/2014

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top hole 81°03'07.11" (81.051142) 3030'
 Bottom hole 81°03'04.86" (81.051350) 2730'

plat well location
 LATITUDE

39°07' 30"

LENORE SMITH, ET. AL.
91 7/8 ACRE LEASE

(D-M-P) = District-Map-Parcel

UTM NAD 83
 top hole
 N: 4329725
 E: 495507
 bottom hole
 N: 4329174
 E: 495561

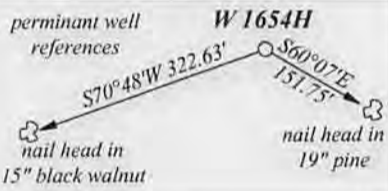
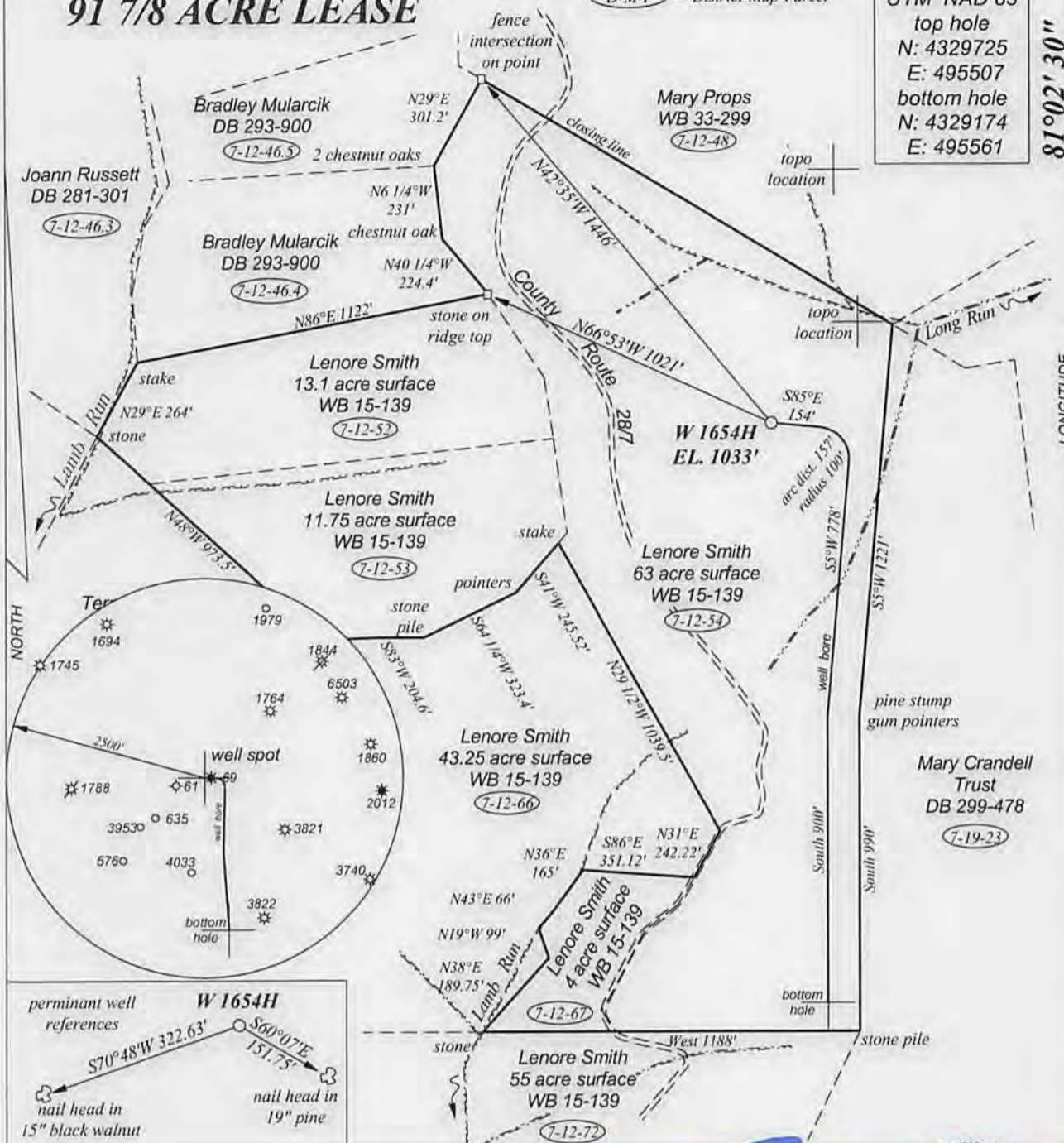
LONGITUDE
 81°02' 30"

2950'

4850'

top hole 39°07'00.01" (39.116669)

bottom hole 39°06'42.15" (39.111708)



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) _____
 PROFESSIONAL SURVEYOR: 551



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

DATE AUGUST 11TH, 2014
 OPERATORS WELL NO. W 1654H

API 47 - 085 - 10159H
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1033' WATER SHED LAMB RUN
 DISTRICT MURPHY COUNTY RITCHIE QUADRANGLE SMITHVILLE

SURFACE OWNER LENORE SMITH ACREAGE 63
 OIL & GAS ROYALTY LENORE SMITH, ET. AL. LEASE AC. 91 7/8

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 BIG INJUN ESTIMATED DEPTH 2045'

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

PERMIT

10/10/2014