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 west virginia department of environmental protection
 

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, February 11, 2019  
 WELL WORK PLUGGING PERMIT  
 Vertical Plugging

HAUGHT ENERGY CORPORATION  
 12864 STAUNTON TURNPIKE

SMITHVILLE, WV 261787004

Re: Permit approval for 1  
 47-085-05755-00-00

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

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
 Chief

Operator's Well Number: 1  
 Farm Name: HISSEM-BALL  
 U.S. WELL NUMBER: 47-085-05755-00-00  
 Vertical Plugging  
 Date Issued: 2/11/2019

I

02/15/2019

4708505755P

## 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

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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.

4708505755P

- 1) Date September 24, 2018
- 2) Operator's Well No. 1
- 3) API Well No. 47-085-05755

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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  / Waste disposal  /  
(If "Gas, Production  or Underground storage ). Deep  / Shallow

5) Location: Elevation 805 Watershed Husher's Run  
District Clay County Ritchie Quadrangle Ellenboro 7.5

6) Well Operator <u>Haight Energy Corporation</u>	7) Designated Agent <u>Warren Haight</u>
Address <u>12864 Staunton TPKE</u>	Address <u>12864 Staunton TPKE</u>
<u>Smithville, WV 26178</u>	<u>Smithville, WV 26178</u>

8) Oil and Gas Inspector to be notified	9) Plugging Contractor
Name <u>Michael Goff</u>	Name <u>Top Drilling Corporation</u>
Address <u>1723 Auburn Road</u>	Address <u>107 Lancaster Street, Suite 301</u>
<u>Pullman, WV 26421</u>	<u>Marietta, OH 45750</u>

10) Work Order: The work order for the manner of plugging this well is as follows:  
 Remove all well facilities. Confirm TD. Use work string to spot Initial Plug over deepest formation. Confirm depth of initial plug. Spot bentonite gel as needed for gel spacers. Spot additional cement plugs over existing perforations as depicted on plugging schematic. Locate top of cement. Cut off production casing above cement top. Spot cut plug. Spot additional bentonite gel as needed for additional gel spacers. Spot additional open hole plugs as needed to cover existing productive formations per plugging schematic as attached. Spot top hole cement plug. Install monument with tag for plugged well. Reclaim location; haul off any surface and down-hole equipment and seed and mulch location per state requirements.  
**SEE ATTACHED WELL PLUGGING SCHEMATIC:**

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 11/9/18



### Well Plugging Schematic

**Well: Hissem - Ball 1**  
**47-085-05755**

**Current Status**  
No Production

**Action Items**  
Plug Well per standard procedure as shown

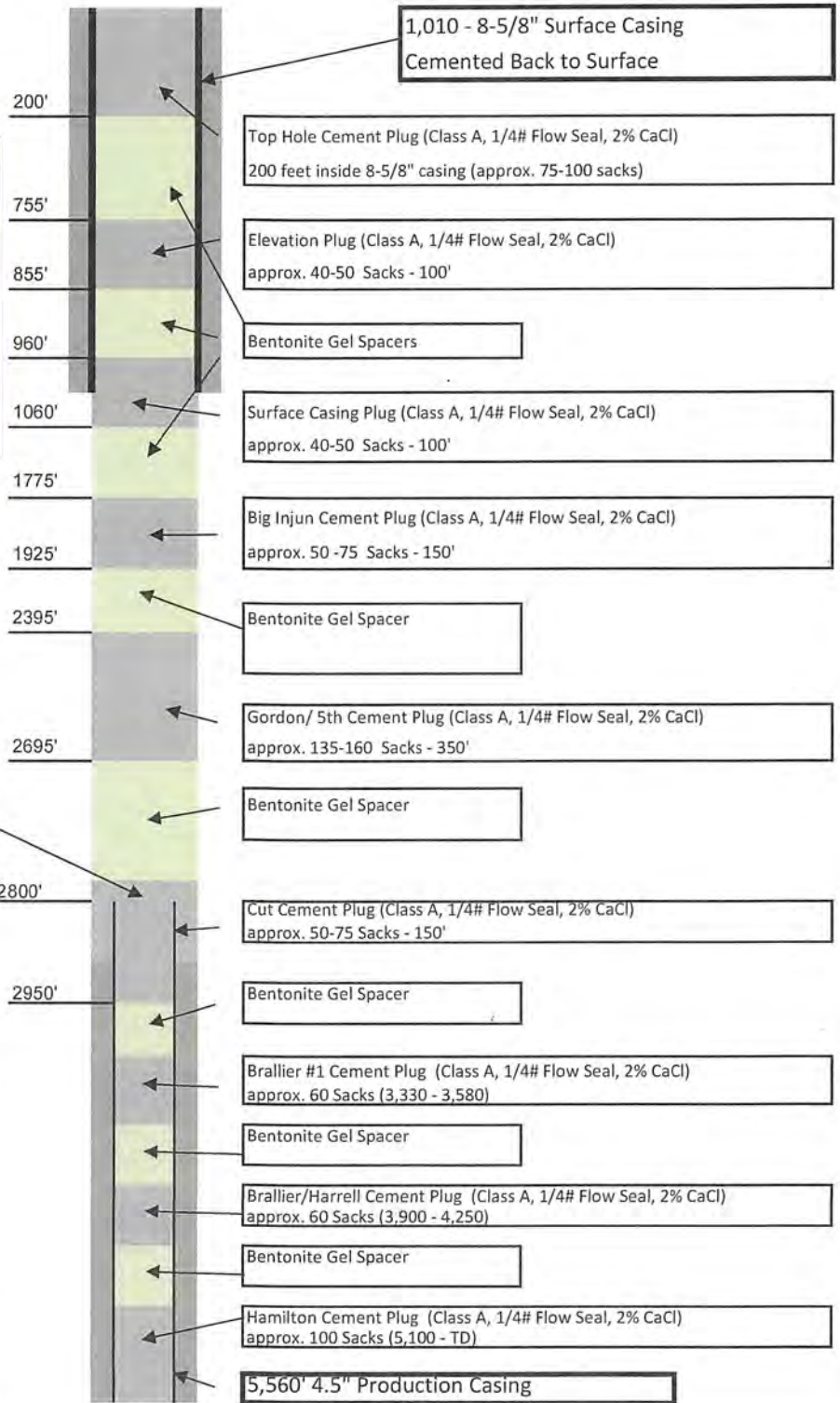
**Record TD 5580'**

**TOC Approx. 3,000'**

Cut 4.5" Casing off above cement  
Use to complete plugging

**Perforations:**

- 3,380 - 3,530
- 3,950 - 4,200
- 5,150 - 5,560



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11/2/18



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

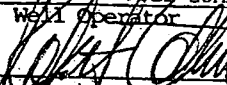
Halliburton 1,018,000 N<sub>2</sub> 7 per stage Seven (7) High Volume

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fres and salt water, coal, oil and ga
Big Lime			1,648	1,820	
Big Injun			1,830	1,870	Oil and Gas
Berea Cap			2,232		
Gordon Sand			2,445	2,470	Gas
Fifth Sand			2,635	2,645	Gas
Brallier Shale			2,860	4,075	Oil and Gas
Harrell Shale			4,075	5,120	Gas
Hamilton Shale			5,120	5,580	Gas

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(Attach separate sheets as necessary)

PANTHER FUEL COMPANY  
Well Operator  
By:   
Date: \_\_\_\_\_

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic  
detailed geological record of all formations, including  
..., encountered in the drilling of a well."

THIRD PRODUCING FORMATION Brallier Shale PAY ZONE DEPTH 3,380 to 3,530 FEE

GAS: Initial Open Flow Show Mcf/d OIL: Initial Open Flow Show Bbl/d

Final Open Flow 400 Mcf/d Final Open Flow Show Bbl/d

TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS 72 HOURS

STATIC ROCK PRESSURE 580 PSIG (Surface Measurement) AFTER 4 HOURS SHUT IN

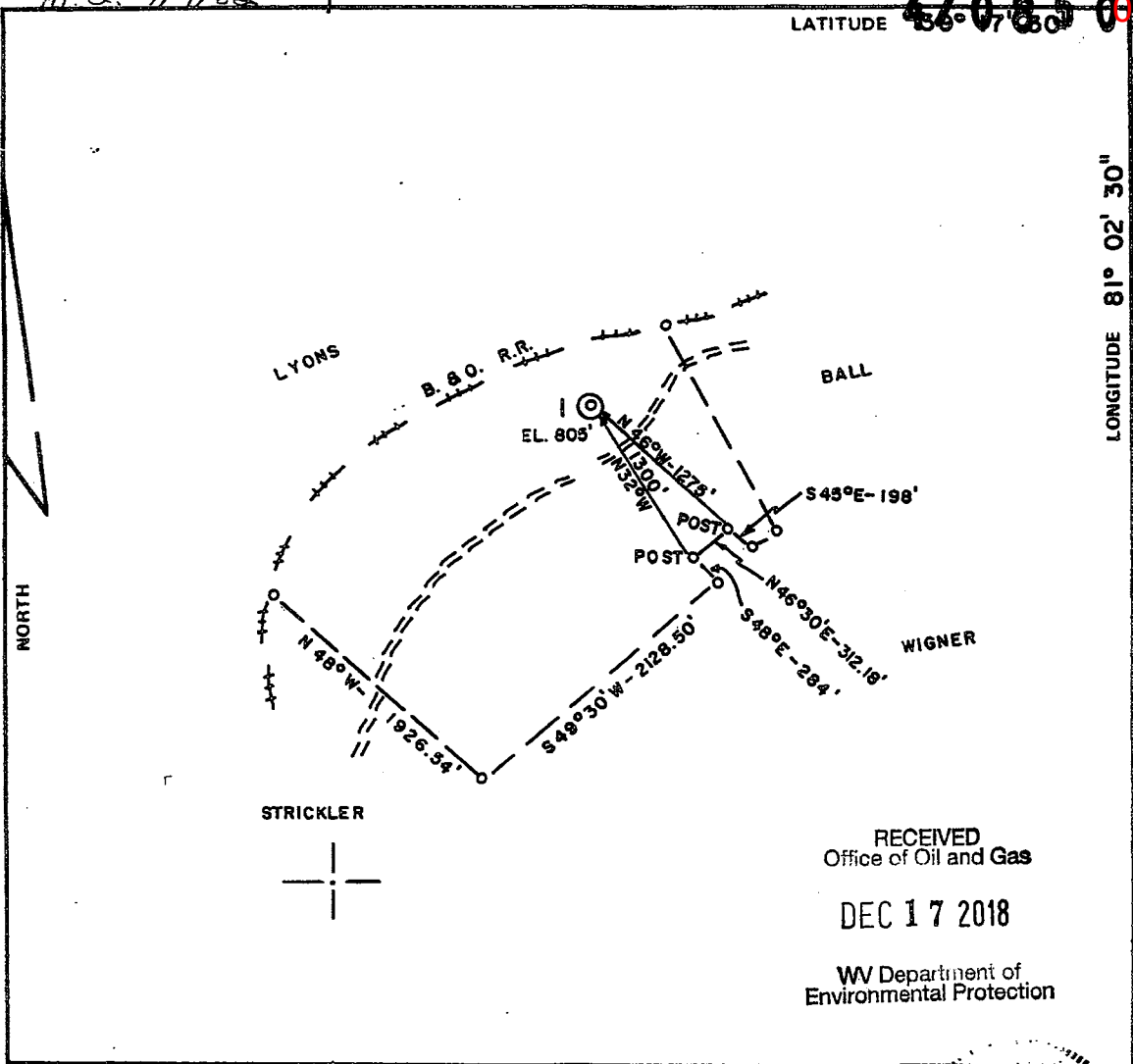
KIRCHIE 5752

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7/9/82 11,050' WEST LATITUDE 36° 07' 30" LONGITUDE 81° 02' 30"



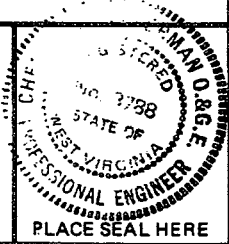
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FILE NO. 81-560  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1000'  
MINIMUM DEGREE OF  
ACCURACY 1/200'  
PROVEN SOURCE OF  
ELEVATION U.S. B.M. ON  
TRACKS (779)

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 REGU-  
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
MENT OF MINES  
(SIGNED) Chak Waterman  
R.P.E. 3788 L.L.S. \_\_\_\_\_



(+) DENOTES LOCATION OF  
WELL ON UNITED STATES  
TOPOGRAPHIC MAPS  
FORM IV-6  
(8-78)



DATE 10/12, 1981  
OPERATOR'S WELL NO. 1  
API WELL NO. \_\_\_\_\_  
47 - 085 - 5755  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 805 WATER SHED HUSHERS RUN  
DISTRICT GRANT COUNTY RITCHIE  
QUADRANGLE ELLENBORO 7.5  
SURFACE OWNER C. C. HISSEM ACREAGE 130  
OIL & GAS ROYALTY OWNER C. C. HISSEM LEASE ACREAGE 130  
LEASE NO. \_\_\_\_\_  
PROPOSED WORK: DRILL X 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 SHALE ESTIMATED DEPTH 5950'  
WELL OPERATOR PANTHER FUEL CO. DESIGNATED AGENT DONNALLY WILLERS  
ADDRESS P.O. BOX 245 ADDRESS P.O. Box 697  
SHINNSTON, WV 26431 WESTON, WEST Virginia



WW-4A  
Revised 6-07

1) Date: September 24, 2018  
2) Operator's Well Number  
Hissem Ball 1  
3) API Well No.: 47 - 085 - 05755

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: (a) Name First Apostolic Church, Address 601 East Main Street, Harrisville, WV 26362. (b) Name, Address. (c) Name, Address. 5) (a) Coal Operator Name NA, Address. (b) Coal Owner(s) with Declaration Name NA, Address. (c) Coal Lessee with Declaration Name NA, Address. 6) Inspector Michael Goff, Address 1723 Auburn Road, Pullman, WV 26421, Telephone 304-549-9823.

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

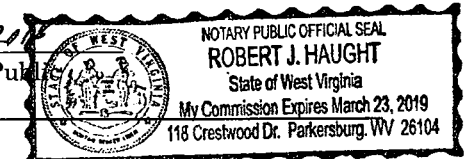
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 Haight Energy Corporation  
By: [Signature] CEO  
Address 12864 Staunton TPKE, Smithville, WV 26178  
Telephone 304-477-3333  
RECEIVED Office of Oil and Gas DEC 17 2018 WV Department of Environmental Protection

Subscribed and sworn before me this 18th day of OCTOBER, 2018  
My Commission Expires MARCH 23, 2019



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).

**SURFACE OWNER WAIVER**

47085025799P

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Environmental Protection

Operator's Well  
Number

Hissem Ball #1

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.  
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

**If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.**

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

	Date <u>11/16/18</u>	Name <u>First Apostolic Church of Harrisville Inc.</u>
Signature	By <u>Alan B. Adams</u>	President / Pastor
	Its <u>President</u>	Date <u>11/16/18</u>

Signature Alan B. Adams Date 11/16/18

WW-9  
(5/16)

4708505755  
02/15/2019

API Number 47 - 085 - 05755  
Operator's Well No. HUSHER BALL 1

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) Hushers Run Quadrangle Ellenboro 7.5

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: Brine Water, Fresh Water, Cement Slurry, Gel, Oil Skim

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 8 20 MI

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11/2/18

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number UIC 2008510142 )
- 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: NA

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

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

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Additives to be used in drilling medium? NA

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

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

-Landfill or offsite name/permit number? NA

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

Company Official Signature [Signature]

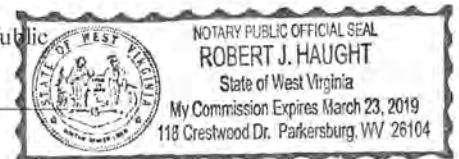
Company Official (Typed Name) B. Douglas Haught

Company Official Title CEO

Subscribed and sworn before me this 18<sup>th</sup> day of OCTOBER, 20 18

My commission expires NOV 23, 2019

Notary Public



Proposed Revegetation Treatment: Acres Disturbed 1 AC +/- Prevegetation pH 5.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or Equivalent

Fertilizer amount 500 lbs/acre

Mulch 50 Bales Tons/acre

**Seed Mixtures**

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

Attach:  
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Michael Goff

Comments: Seed & mulch any disturbed areas.

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Title: Oil & Gas Inspector Date: 11/2/18

Field Reviewed?  Yes  No

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

Operator Name: Haught Energy Corporaiton  
Watershed (HUC 10): Hushers Run Quad: Ellenboro 7.5  
Farm Name: HISSEN - BALL

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

1. All fluids from this plugging procedure shall be retained in an on site pit. The pit water shall be drained by vacuum trucks and hauled away for disposal at the nearby injection facility. The pit, once dried, out shall be filled in and reclaimed per WVDEP guidelines.  
2. Equipment and Trucks on site could pose a risk of leaking oil, Diesel and/or gasoline products while operating on site.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

Site shall be graded to ensure that all overflow of fluids from wellbore shall be captured in pit. Pit shall be located in an area as to avoid destabilization of the integrity of the pit which could lead to a loss of fluids from pit. Trucks shall be monitored for leaks and a supply of oil soaks and rags shall be kept on site to ensure that any escaped vehicle fluids are captured and disposed of properly.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Husher's Run is located approximately 500 feet to the North of the well head. There will be no discharge area or land application of fluids from this well.

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

None

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

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None

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

No waste material will be used for deicing or fill material on the property unless allowed by another state or federal rule.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

Employees and service personnel shall be instructed to monitor the flow of fluids into the pit to ensure that there is no possibility of escape, overflow or destabilization. If fluids fill the pit to within two feet of free board, operations shall be suspended until the fluids can be removed from the site or another pit can be constructed to handle additional fluids.

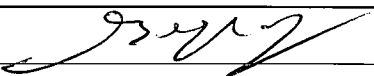
On-site personnel shall be instructed to monitor their equipment and if leaks are found personnel shall place oil soaks and/or other absorbent materials to remove the fluids and keep them from contaminating the groundwaters.

Personnel shall have access to the spill hotline in case of emergency.

Personnel shall complete regular inspections of the site to ensure no fluids are escaping.

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

Daily inspections each morning shall be completed on the pits and trucks before starting operations. During operations, equipment and the pits shall be monitored to ensure no fluids are escaping the site. If a situation arises that might cause fluids to escape the site, operations shall be suspended until the situation is remedied.

Signature: 

Date: 10-18-18

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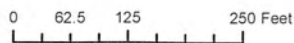


Ellenboro Quadrangle

**Haught Energy Corporation**

Hissem Ball - Plug  
 API: 47-085-05755

Grant District      Ritchie County      West Virginia



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WW-7  
8-30-06



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

API: 47-085-5755 WELL NO.: 1

FARM NAME: Hissem Ball

RESPONSIBLE PARTY NAME: Haught Energy Corporation

COUNTY: Ritchie DISTRICT: Grant

QUADRANGLE: Ellenboro 7.5

SURFACE OWNER: First Apostolic Church

ROYALTY OWNER: First Apostolic Church

UTM GPS NORTHING: 493044.53

UTM GPS EASTING: 4345426.9 GPS ELEVATION: 804.2'

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

CEO  
Title

10-18-18  
Date

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