



west virginia department of environmental protection

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)

Wednesday, May 22, 2019  
WELL WORK PERMIT  
Vertical / Re-Work

HAUGHT ENERGY CORPORATION  
12864 STAUNTON TURNPIKE

SMITHVILLE, WV 261787004

Re: Permit approval for W-1633  
47-085-09935-00-00

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

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

James A. Martin  
Chief

Operator's Well Number: W-1633  
Farm Name: ROBERTS, JAMES D JR.  
U.S. WELL NUMBER: 47-085-09935-00-00  
Vertical Re-Work  
Date Issued: 5/22/2019

## 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. 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.



WW - 2B  
(Rev. 8/10)

APR 10 2019

05/24/2019  
CK # 1335  
AMT 550.00  
DATE 4/5/19

WV Department of Environmental Protection STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: Haught Energy Corporation      494494463      Ritchie      Murphy      Smithville  
Operator ID      County      District      Quadrangle

2) Operator's Well Number: Roberts W-1633      3) Elevation: 980'

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

*Michael Goff*  
4/10/19

5) Proposed Target Formation(s): Rhinestreet (Plug)      Proposed Target Depth: 5,000'- 5,710'

6) Proposed Total Depth: 5,000' Feet      Formation at Proposed Total Depth: Rhinestreet

7) Approximate fresh water strata depths: 170'

8) Approximate salt water depths: None

9) Approximate coal seam depths: None

10) Approximate void depths, (coal, Karst, other): None

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)  
Plug Rhinestreet Formation in preparation for horizontal drilling and completion in the Marcellus formation in the  
Surrounding area. Will leave well producing from the Benson/Alexander.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13-3/8"	R-3	48#		40'	Grouted in
Fresh Water	9-5/8"	R-3	26 #		357'	Surface (100 Sks)
Coal						
Intermediate	7"	R-3	17 #		1,905'	Surface (315 Sks)
Production	4-1/2"	M-65	10.5 #		5,710'	4,000' (114 Sks)
Tubing						
Liners						

Packers: Kind: \_\_\_\_\_  
Sizes: \_\_\_\_\_  
Depths Set \_\_\_\_\_



## Wellbore Schematic Plugging

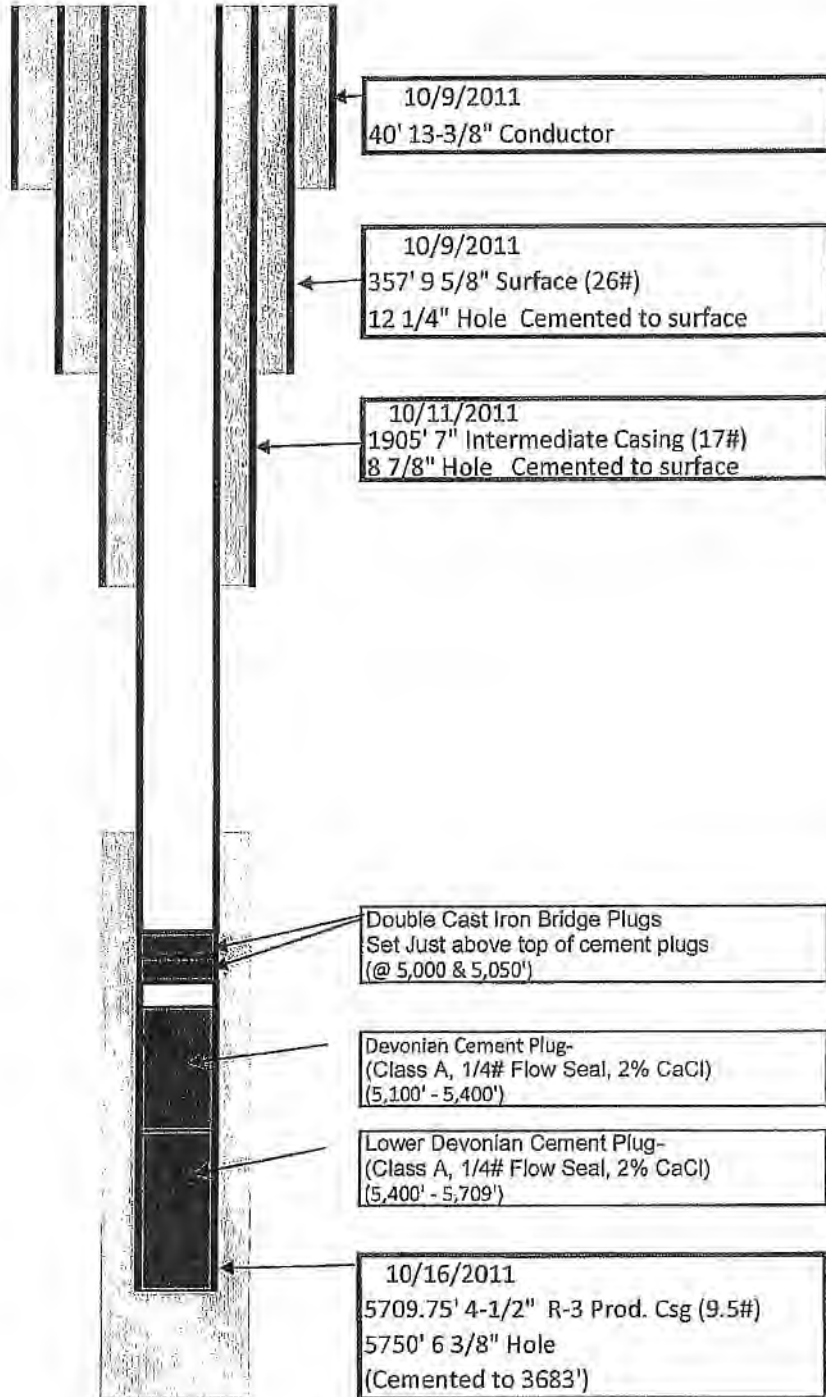
Well: Roberts W-1633  
API: 47-085-09935

**Current Status**  
- 3 stage nitrogen frac

**Action Items**  
- Plug Back Lower Devonian Formation in preparation of horizontal Marcellus development

Frac Date:	12/19/2011
Open Hole TD	5718'
TOC	4006'

Perforations:	
21 perfs	4396'-4420'
17 perfs	4943' to 4959'
6 perfs	5514' to 5524'
3 perfs	5610' to 5614'
7 perfs	5628' to 5634'
6 Perfs	5658' to 5668'



WR-35  
Rev (9-11)

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

DATE: 7/31/2012  
API #: 47-085-09935

Farm name: James D. Roberts & Deborah L. Yocum Operator Well No.: W-1633

LOCATION: Elevation: 980' Quadrangle: Smithville

District: Murphy County: Ritchie  
Latitude: 8560 Feet South of 38 Deg. 07 Min. 30 Sec.  
Longitude 4550 Feet West of 81 Deg. 05 Min. 00 Sec.

Company: Haught Energy Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
12864 Staunton Turnpike Smithville, WV 26178	13-3/8"	40'	40'	
Agent: Warren R. Haught	9-5/8"	357'	357'	Surface (100 Sks)
Inspector: David Cowan	7"	1905'	1905'	Surface (315 Sks)
Date Permit Issued: September 15, 2011	4-1/2"	5710'	5710'	4000' (114 Sks)
Date Well Work Commenced: 11/01/2011				
Date Well Work Completed: 7/29/2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5,750'				
Total Measured Depth (ft): 5,756'				
Fresh Water Depth (ft.): 170'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): None				
Void(s) encountered (N/Y) Depth(s) None				

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

Producing formation Benson/Alexander Pay zone depth (ft) 4400', 4950'  
Gas: Initial open flow show MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 200 MCF/d Final open flow - Bbl/d  
Time of open flow between initial and final tests 12 Hours  
Static rock Pressure 1000 psig (surface pressure) after 24 Hours

Second producing formation Hamilton Shale Pay zone depth (ft) 5800'  
Gas: Initial open flow show MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 100 MCF/d Final open flow - Bbl/d  
Time of open flow between initial and final tests 12 Hours  
Static rock Pressure 1000 psig (surface pressure) after 24 Hours

**RECEIVED**  
Office of Oil & Gas  
AUG 13 2012  
WV Department of  
Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Warren R. Haught  
Signature

8/6/12  
Date



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

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

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Gamma Ray, Neutron, Density, Induction, Temp., Audio

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

Perforated Intervals, Fracturing, or Stimulating:

Perforated by Superior Well Services 12/19/2011

Perforations at: 4396' - 4420' ; 4943' - 4959' ; 5514' - 5668'

Fractured by Universal Well Services 12/20/2011

3 Stage Nitrogen Frac totaling 1,900,000 cubic feet

Plug Back Details Including Plug Type and Depth(s): NA

Formations Encountered:	Top Depth	Bottom Depth
Surface:		

See attached worksheet

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Roberts W-1633  
API # 47-085-09935

47-085-09935W  
05/24/2019

Formation	Top	Bottom	Remarks
Red Rock & Shale	0	650	
Sand	650	690	
Red Rock	690	770	
Sand	770	790	
Red Rock	790	910	
Slate	910	975	
Dunkard Sand	975	990	
Slate & Shells	990	1225	
Gas Sand	1225	1334	
Slate	1334	1398	
1st Salt Sand	1398	1455	
Shale	1455	1496	
2nd Salt Sand	1496	1518	
Shale	1518	1542	
3rd Salt Sand	1542	1667	
Slate	1667	1740	
Maxon Sand	1740	1770	Oil and Gas Smell
Shale	1770	1855	at 1790'
Little lime	1855	1872	
Pencil Cave	1872	1884	
Big Lime	1884	1996	
Big Injun Sand	1996	2010	
Slate Break	2010	2028	
Squaw Sand	2028	2048	
Slate & Shells	2048	2430	
Coffee Shale	2430	2466	
Berea Sand	2470	2495	
Slate & Shells	2495	2750	
Gordon	2750	2774	
Slate & Shells	2774	4403	
Benson Sand	4403	4432	
Slate & Shells	4432	4868	
Upper Alexander Sand	4868	4890	
Slate & Shells	4890	4950	
Lower Alexander Sand	4950	4970	
Slate & Shells	4970	5360	
Sand	5360	5370	
Slate & Shells	5370	5510	
Hamilton Shale	5510	5536	
Slate & Shells	5536	5618	
Shale	5618	5756	
TD	5756		

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Office of Oil & Gas

AUG 13 2012

WV Department of  
Environmental Protection

47-085-09935



Select County: **(085) Ritchie** Select datatypes:  (Check All)

Enter Permit #: **09935**

Location     Production     Plugging  
 Owner/Completion     Stratigraphy     Sample  
 Pay/ShowWater     Logs     Btm Hole Loc

Get Data    Reset

[Table Descriptions](#)  
[County Code Translations](#)  
[Permit-Numbering Series](#)  
[Usage Notes](#)  
[Contact Information](#)  
[Disclaimer](#)  
[WVGES Main](#)  
["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 85 Permit = 09935

Report Time: Tuesday, May 21, 2019 1:41:35 PM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LONG_DD	UTME	UTMN
4708509935	Ritchie	9935	Murphy	Smithville	Harrisville	39.106997	-81.099432	491403	4328655

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708509935	7/29/2012	Original Loc	Completed	James D Roberts II & Deborah L Yocum		W1T63	James D Roberts II & Deborah L Yocum		James D Roberts II & Deborah L Yocum	Haught Energy Corp.	5700	Alexander	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TL_BEF	P_AFT	TL_AFT	BH_P_BE
4708509935	7/29/2012	11/1/2011	980	Ground Level	Mahone(Smithvle)	Hamilton Grp	Hamilton Grp	Development Well	Development Well	Gas	Rotary	Fractured	5756		5756			300						1000	24

Comment: 7/29/2012 Flows are comingled.

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708509935	7/29/2012	Water	Fresh Water	Vertical			170		Pennsylvanian System				
4708509935	7/29/2012	Pay	Gas	Vertical	4396	Greenland Gap Fm	4420		Benson				
4708509935	7/29/2012	Pay	Gas	Vertical	4943	Alexander	4959		Alexander				
4708509935	7/29/2012	Pay	Gas	Vertical	5514	Hamilton Grp	5688		Hamilton Grp				

Production Gas Information: (Volumes in Mcf) \* 2018 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708509935	Haught Energy Corp.	2012	15,031	0	0	538	2,123	1,718	1,655	1,700	1,842	1,545	1,403	1,379	1,128
4708509935	Haught Energy Corp.	2013	12,295	1,247	1,001	927	960	892	1,197	1,128	1,231	952	948	876	936
4708509935	Haught Energy Corp.	2014	9,417	862	776	736	692	789	835	702	935	804	801	784	701
4708509935	Haught Energy Corp.	2016	7,056	0	0	1,821	565	526	628	596	610	588	595	607	520
4708509935	Haught Energy Corp.	2017	7,247	478	592	566	676	581	606	593	594	683	610	648	622

Production Oil Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil \* 2018 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708509935	Haught Energy Corp.	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708509935	Haught Energy Corp.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708509935	Haught Energy Corp.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708509935	Haught Energy Corp.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708509935	Haught Energy Corp.	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil \* 2018 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708509935	Haught Energy Corp.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708509935	Haught Energy Corp.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708509935	Haught Energy Corp.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) \* 2018 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708509935	Haught Energy Corp.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708509935	Original Loc	Dunkard-age ss (udf)	Well Record	975	Reasonable	15	Reasonable	980	Ground Level
4708509935	Original Loc	1st Salt Sand	Well Record	1388	Reasonable	57	Reasonable	980	Ground Level
4708509935	Original Loc	2nd Salt Sand	Well Record	1496	Reasonable	22	Reasonable	980	Ground Level
4708509935	Original Loc	3rd Salt Sand	Well Record	1542	Reasonable	125	Reasonable	980	Ground Level
4708509935	Original Loc	Maxton	Well Record	1740	Reasonable	30	Reasonable	980	Ground Level
4708509935	Original Loc	Little Lime	Well Record	1855	Reasonable	17	Reasonable	980	Ground Level
4708509935	Original Loc	Pencil Cave	Well Record	1872	Reasonable	12	Reasonable	980	Ground Level
4708509935	Original Loc	Big Lime	Well Record	1884	Reasonable	112	Reasonable	980	Ground Level
4708509935	Original Loc	Big Injun (undiff)	Well Record	1996	Reasonable	14	Reasonable	980	Ground Level
4708509935	Original Loc	Squaw	Well Record	2028	Reasonable	20	Reasonable	980	Ground Level
4708509935	Original Loc	Sunbury Sh	Well Record	2430	Reasonable	36	Reasonable	980	Ground Level
4708509935	Original Loc	Berea Ss	Well Record	2470	Reasonable	25	Reasonable	980	Ground Level
4708509935	Original Loc	Gordon	Well Record	2750	Reasonable	24	Reasonable	980	Ground Level
4708509935	Original Loc	Benson	Well Record	4403	Reasonable	29	Reasonable	980	Ground Level
4708509935	Original Loc	Alexander	Well Record	4868	Reasonable	22	Reasonable	980	Ground Level
4708509935	Original Loc	Alexander	Well Record	4950	Reasonable	20	Reasonable	980	Ground Level
4708509935	Original Loc	Hamilton Grp	Well Record	5510	Reasonable			980	Ground Level

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well



WW-2A  
(Rev. 6-14)

1). Date: March 26, 2019  
2.) Operator's Well Number Roberts W-1633  
State County Permit  
3.) API Well No.: 47- 085 - 9935

**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 James D Roberts II Address Deborah L Yocum  
5307 3rd Ave  
(b) Name Vienna, WV 26105 Address \_\_\_\_\_  
(c) Name \_\_\_\_\_ Address \_\_\_\_\_  
5) (a) Coal Operator Name \_\_\_\_\_ Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration Name \_\_\_\_\_ Address \_\_\_\_\_  
(c) Coal Lessee with Declaration Name \_\_\_\_\_ Address \_\_\_\_\_

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Office of Oil and Gas  
APR 10 2019  
WV Department of  
Environmental Protection

**TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:**

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

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 Haught Energy Corporation  
By: [Signature]  
Its: CEO  
Address: 12864 Staunton TPKE  
Smithville, WV 26178  
Telephone: 304-477-3333  
Email: rhaught@haughtenergy.com



Subscribed and sworn before me this 26<sup>th</sup> day of March, 2019

[Signature]

Notary Public

My Commission Expires Oct. 18, 2023

**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)

**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
James D Roberts Et Al	Whittle Corporation	12.5%	240/418

**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

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Environmental Protection

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: Haught Energy Corporation  
 By: Its:   
 CEO



WW-9  
(5/16)

API Number 47 - 085 - 09935  
Operator's Well No. Roberts W-1633

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

Operator Name Haight Energy Corporation OP Code 494494463

Watershed (HUC 10) Indian Creek and Plum Run Quadrangle Smithville

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: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-CPP)
- Underground Injection ( UIC Permit Number UIC2D08510142 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No pit waste is anticipated, however any waste will be removed to an approved off site disposal facility)

Will closed loop system be used? If so, describe: NA

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

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

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? To be determined upon approval of permit

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]

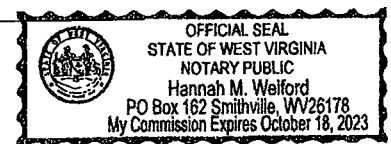
Company Official (Typed Name) B. Douglas Haught

Company Official Title CEO

Subscribed and sworn before me this 20th day of December, 2018

Hannah M. Welford Notary Public

My commission expires October 18, 2023





Form WW-9

Operator's Well No. Roberts W-1633

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
<u>Pasture Mix</u>	<u>100</u>
<u>(Orchard Grass, Rye, Timothy, Clover)</u>	

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

Comments: Re-seed & mulch any disturbed areas.

Title: Bill A Gas Inspector Date: 4/10/19

Field Reviewed? ( ) Yes (  ) No







81°05' 25.05" (81.099625)

4550'

LATITUDE

39°07' 30"

# JAMES D. ROBERTS DEBORAH L. YOCUM 100 ACRE LEASE

W 1633  
UTM NAD 83  
17 S 0491403  
4328655

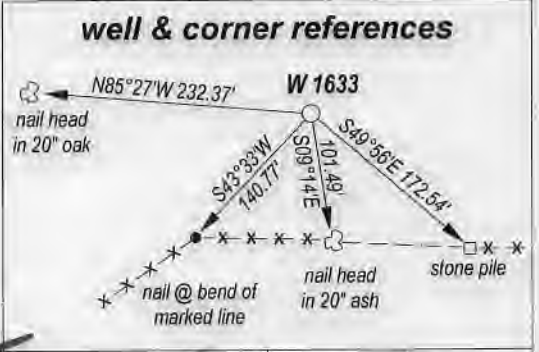
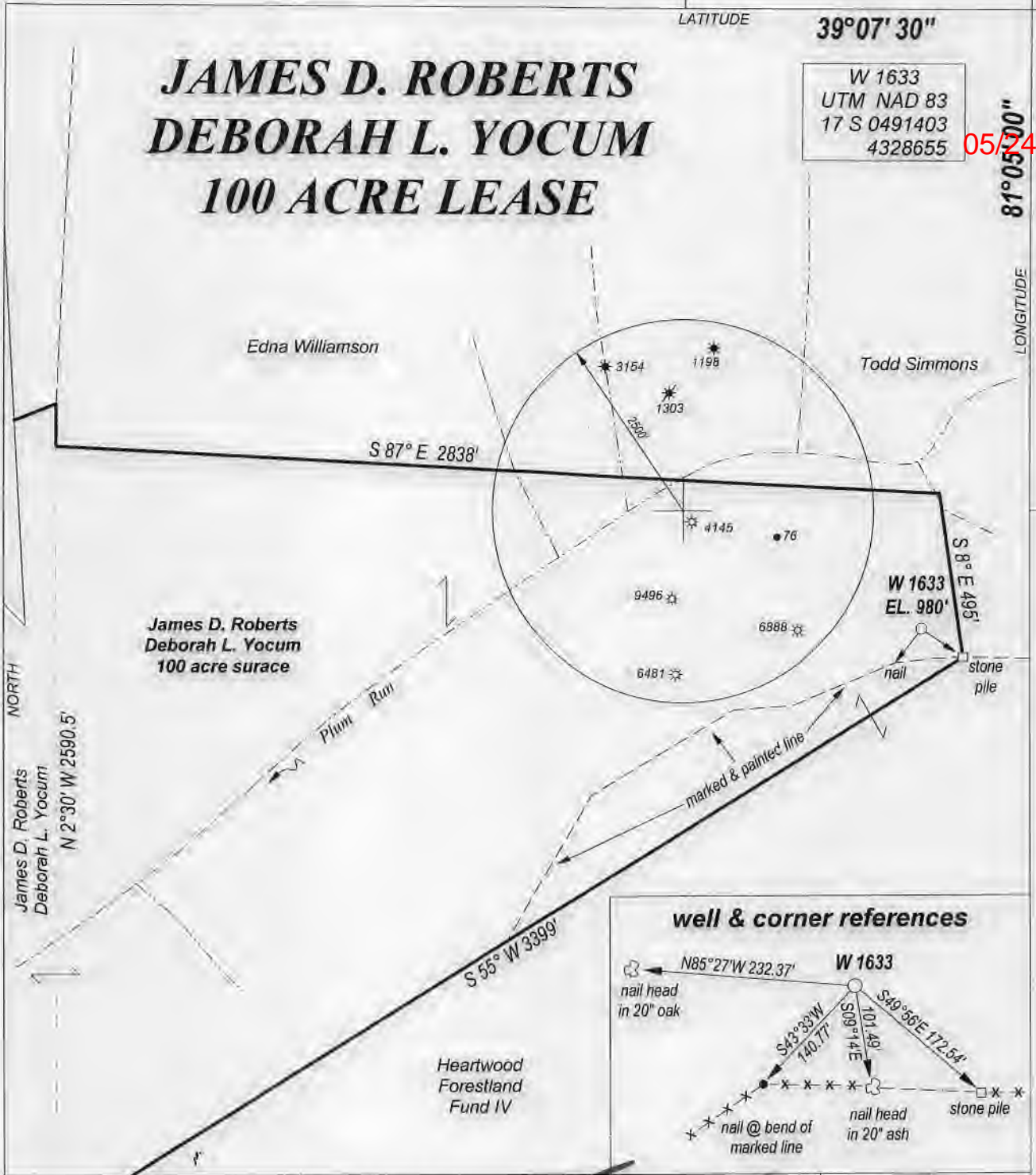
05/24/2019

81°05'00"

6560'

LONGITUDE

39°06' 25.05" (39.106958)



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 MAY 7TH, 2019  
 OPERATORS WELL NO. W 1633

**API 47 - 085 - 09935**  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 980' WATER SHED INDIAN CREEK & PLUM RUN  
 DISTRICT MURPHY COUNTY RITCHIE QUADRANGLE SMITHVILLE

SURFACE OWNER JAMES D. ROBERTS, II & DEBORAH L. YOCUM ACREAGE 100  
 OIL & GAS ROYALTY JAMES D. ROBERTS, II & DEBORAH L. YOCUM LEASE AC. 334.25

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 ALEXANDER ESTIMATED DEPTH 5000' +/-

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