

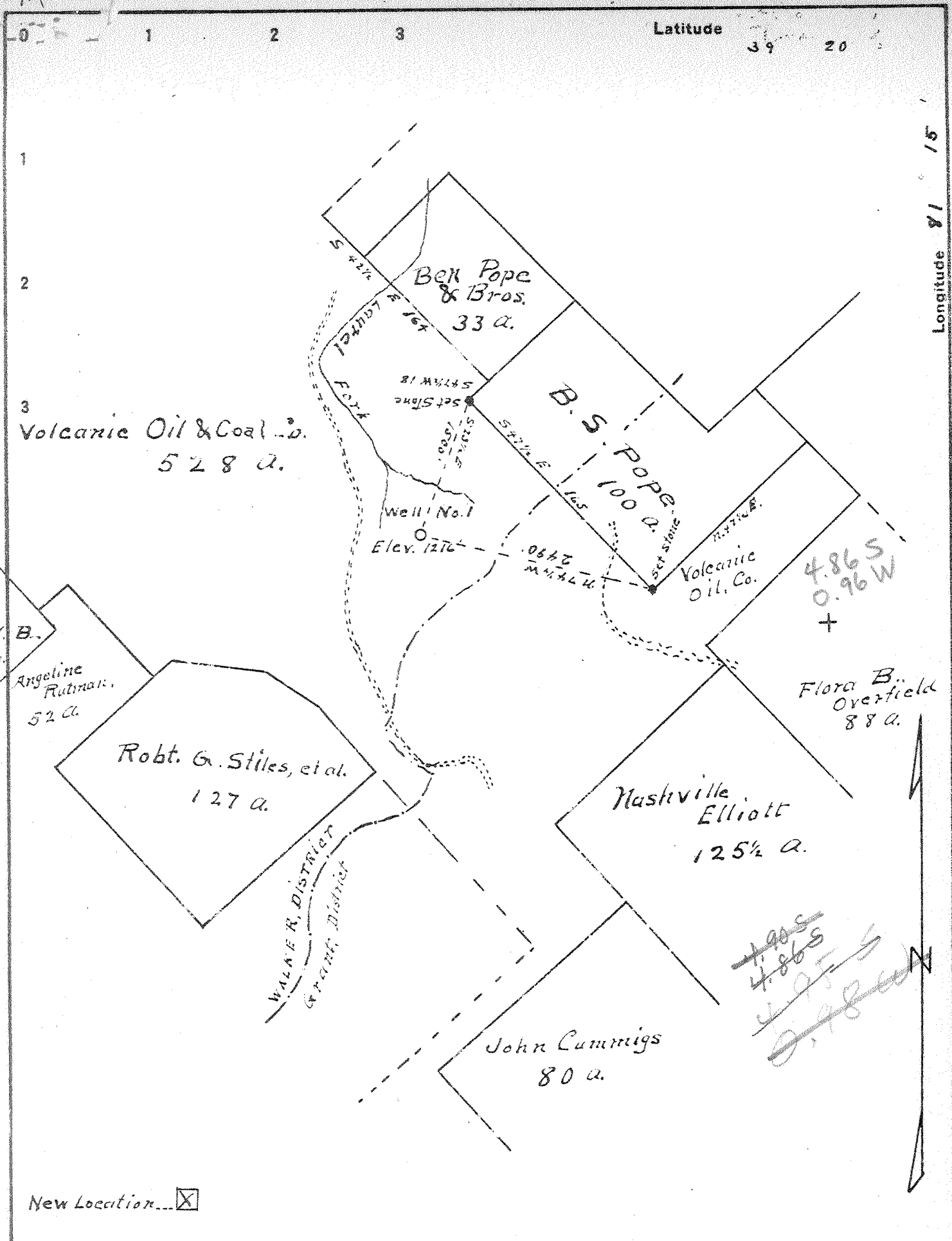
Deepening.   
 New Location.

Company HAUGHT, INC.  
 Address Rt 3 - Box 14 - Smithville, W. Va.  
 Farm Volcanic Oil & Coal Co.  
 Tract One Acres 582 Lease No. \_\_\_\_\_  
 Well (Farm) No. One Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1216  
 Quadrangle Not! Marietta (15) SE  
 County Wood District Walker  
 Engineer J. M. Martin  
 Engineer's Registration No. 84  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Aug. 15, 1941 Scale 80 Poles = 1"

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. WOO-106-DD  
106

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
 - Denotes one inch spaces on border line of original tracing. 47-107



New Location...

Company Clifton Oil & Gas Co.  
 Address Parkersburg, W. Va.  
 Farm Volcanic Oil, and Coal Co.  
 Tract One Acres 582 Lease No. \_\_\_\_\_  
 Well (Farm) No. One Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1276  
 Quadrangle Maretha **55**  
 County Wood District Walker  
 Engineer J. M. Martin  
 Engineer's Registration No. 84  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Aug. 15 1941 Scale 80 Poles = 1"

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. Woo-106

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
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WEST VIRGINIA DEPARTMENT OF MINES  
OIL & GAS DIVISION  
W E L L R E C O R D

Permit No.	Woo-106			
Company	Clifton Oil & Gas Co.		Oil Well	
Address	P.O. Box 1042, Parkersburg, W.Va.		Casing & Tubing	
Farm	Volcanic Oil & Coal Co	Acres 582	8 $\frac{1}{2}$ "	435 435
Location	Laurel Fork		6 5/8"	1130 <sup>o</sup> 1130 <sup>o</sup>
Well No	1-	Elev. 1169	2"	(tub) 1128 1128
District	Walker	Wood County		
Surface	Volcanic Oil & Coal Co.	Harry Nathans		
Mineral	Fidelity-Phila Trust Bldg.,	Phila., Pa.		
Commenced	Nov. 13, 1941			
Completed	Dec. 1, 1941			
Fresh Water	82'			
Oil	---			

Lime, Slate & Sand	0	540-	Water 82'
Slate	540	1063	
Pencil Cave	1063	1070	
Big Lime	1070	1110	
Break	1110	1117	
Keener	1117		- Oil 1125-1130

TOTAL DEPTH 1130

NOTE: Difference in elevation corrected from 1216' to 1169'

1169  
1170  
1171

1070  
1169  
1170

**RECEIVED**



AUG 11 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date August 2, 1982  
Operator's Well No. #1  
Farm Volcanic  
API No. 47 - 107 - 0106

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas x / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production x / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow x /)

LOCATION: Elevation: 1216' Watershed \_\_\_\_\_  
District: Walker County Wood Quadrangle Marietta

COMPANY Haught, Inc.  
ADDRESS 4424 Emerson Avenue Parkersburg, WV 26104  
DESIGNATED AGENT Warren R. Haught  
ADDRESS Parkersburg, WV 26104  
SURFACE OWNER Consolidated Gas Supply Corp.  
ADDRESS 445 West Main Street Clarksburg, WV 26301  
MINERAL RIGHTS OWNER Volcanic Oil & Gas Co.  
ADDRESS Cairo, WV 26337  
OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace  
ADDRESS Rt. 1 Box 5 Sandridge, WV 25274  
PERMIT ISSUED March 9, 1981  
DRILLING COMMENCED November 2, 1981  
DRILLING COMPLETED November 8, 1981

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	1140	1140	140 sks
5 1/2			
4 1/2		2955	290 sack
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 2770 -- 2880 feet  
Depth of completed well 3013' feet Rotary x / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 75 feet; Salt \_\_\_\_\_ feet  
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation upper Devonian Shale Pay zone depth 2770 to 2880 feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 120,000 Mcf/d 20MCF Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 8 hours  
Static rock pressure 385 psig (surface measurement) after 12 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

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

Nitrogen fraced by B.J. Hughes  
720,000 SCF Acid -- 500 Gal.

Perforations: 20--2770--2880

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fr and salt water, coal, oil and
Injun			1694	1742	
Weir			2170	2186	
Berea			2250	2258	
Gantz			2335	2346	
Gordon			2646	2653	
4th			2766	2776	
5th			2827	2836	
upper Devonian shale undivided				3013-T.D.	

3013  
1130  
1883  
DD Damage

(Attach separate sheets as necessary)

Haught, Inc.  
Well Operator

By: Beth A. Wilson Well Administrative Agent

Date: August 3, 1982

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 coal, encountered in the drilling of a well."

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil X / Gas X /  
(If "Gas", Production X / Underground storage \_\_\_\_\_ Deep \_\_\_\_\_ Shallow X /)

LOCATION: Elevation: 1216 Watershed: \_\_\_\_\_  
District: Walker County: Wood Quadrangle: Marietta

WELL OPERATOR Haught, Inc.  
Address Route 3, Box 14  
Smithville, WV 26178

DESIGNATED AGENT Warren R. Haught  
Address Smithville, WV 26178

OIL & GAS ROYALTY OWNER Volcanic Oil & Gas Co.  
Address Cairo, W.V. 26337

COAL OPERATOR None  
Address \_\_\_\_\_

ACREAGE 582  
SURFACE OWNER Consolidated Gas Supply Corp.  
Address 445 West Main St.  
Clarksburg, WV 26301  
ACREAGE 582

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
Name Consolidated GAS Supply  
Address 445 West Main St.  
Clarksburg, W.V. 26101

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
OIL & GAS DIVISION  
DEPT. OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name K. Paul Goodnight  
Address Smithville, WV 26178

COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address \_\_\_\_\_

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_\_\_ / lease \_\_\_\_\_ / other contract X / dated Dec. 30, 1978, to the undersigned well operator from Jack M. Cunningham

[If said deed, lease, or other contract has been recorded:]

Recorded on Jan. 31, 1979, in the office of the Clerk of the County Commission of Wood County, West Virginia, in \_\_\_\_\_ Book 716 at page 557. A permit is requested as follows:

PROPOSED WORK: Drill \_\_\_\_\_ / Drill deeper X / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_ /  
Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-1-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3692

Haught, Inc.  
Well Operator  
By Warren R. Haught  
President

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Haught, Inc.  
Address Smithville, WV 26178

LOGICAL TARGET FORMATION, Shale  
Estimated depth of completed well, 3000 feet Rotary  Cable tools \_\_\_\_\_  
Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
Approximate coal seam depths: None Is coal being mined in the area? Yes \_\_\_\_\_ No

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS 'Basic feet'	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Zincs
Fresh water	B 5/8	K-55	20#	X		200'	200'	<del>75 X 60 X 45 X</del> n Cement to Surface
Coal								Sizes
Intermediate								
Production	4 1/2	J-55	10.5#	X			3000'	100 sacks Depths set
Perforations								Perforations: Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-3, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-3a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for deepening. This permit shall expire if operations have not commenced by 11-9-81

[Signature]  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a Declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been sited to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.