



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

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

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

LOCATION: Elevation: 1093 Watershed: Cow Creek  
District: Jefferson County: Pleasants Quadrangle: Willow Island

WELL OPERATOR Haight, Inc. D.J. Martin H-1063  
Address 4424 Emerson Avenue Parkersburg, WV 26104  
DESIGNATED AGENT Warren R. Haight  
Address 4424 Emerson Avenue Parkersburg, WV 26104

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

PERMIT ISSUED ON July 30, 19 80 OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLES OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Robert A. Lowther  
Address: General Delivery  
Middlebourne, WV 26149

GEOLOGICAL TARGET FORMATION: Shale Depth 3745-4286 feet  
Depth of completed well, 4286 feet Rotary XX / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh, 75 feet; salt, \_\_\_\_\_ feet.  
Coal seam depths: None Is coal being mined in the area? No  
Work was commenced October 14, 19 80, and completed October 25, 19 80

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Wands
Fresh water	8-5/8	K-55	20#	X		993	993	120 sacks
Coal								Sizes
Intermediate								
Production	4 1/2	J-55	10.5#	X			4176	300 sacks
Tubing								
Liners								Perforations:
								Top Bottom
								3966 4088

OPEN FLOW DATA

Producing formation: Huron Shale Pay zone depth 3966-4088 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
Final open flow, 185 Mcf/d Final open flow, 2 Bbl/d  
Time of open flow between initial and final tests, 8 hours  
Static rock pressure, 420 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 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

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Continue on reverse side.

DETAILS OF PERFORATED INTERVALS, FRACTURING OF ZONE TREATING, PHYSICAL CHANGE, ETC.

Nitrogen fraced -- 720,000 SCF  
500 Gal. acid  
Perforations: 18--3966--4088

WELL 103

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	REMARKS Including indication of all Green and salt water, sand, etc. and gas
Red Rock			0	18	
Yellow Rock			18	35	
Red Rock			35	49	
Yellow Rock			49	54	
Shale			54	67	
Red Rock			67	72	
Slate			72	82	
Red Rock			82	88	
Slate/Sand			88	121	
Red Rock			121	126	
Slate/Sand			126	151	
Red Rock			151	158	
Slate			158	168	
Red Rock			168	173	
Slate			173	185	
Shale/Red Rock			185	632	
Sand			632	644	
Red Rock			644	683	
Shale			683	6888	
Red Rock			688	697	
Shale			697	830	
Sand			830	875	
Red Rock			875	882	
Shale			882	1105	
Shale/Sand			1105	1260	
Red Rock			1260	1270	
Shale			1270	1282	
Sand			1282	1321	
Shale			1321	1384	
Lime			1384	1495	
Injun			1495	1716	
Squaw			1746	1766	
Weir			2066	2072	
Berea			2170	2175	
Gantz			2284	2292	
50 Ft.			2428	2438	
30 Ft.			2472	2476	
Stray			2569	2582	
Gordon			2595	2611	
4th			2674	2678	
5th			2762	2768	
Bayard			2843	2851	
Tiona			3292	3297	
Speechly			3460	3466	
Balltown			3512	3517	
Riley			3645	3663	
<del>Benson</del>			3728	3745	
Shale/Sand Huron Shale			3745	4286	T.D. 2100' Berea

(Attach separate sheets as complete as necessary)

Haight, Inc.  
Well Operator

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By Beth A Wilson  
Its Well Administrative Agent

**NOTE:** Regulation 2.324 provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologic record of all formations, including strata encountered in the drilling of a well."

Date: July 25, 19 80

Operator's Well No. H-1063

API Well No. 27-073-0915  
State County Permit

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: 1093 Watershed: Cow Creek  
District: Jefferson County: Pleasants Quadrangle: Willow Island, WV 7 1/2

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

DESIGNATED AGENT Warren R. Haight  
Address Smithville, WV 26178

OIL & GAS ROYALTY OWNER Donna June Martin  
Address Rt. 2, Box 161  
Washington, WV 26181  
Acreage 88 acre portion

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

SURFACE OWNER Donna June Martin  
Address Rt. 2, Box 161  
Washington, WV 26181  
Acreage 91 1/2

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address JUL 29 1980

FIELD SALE (IF MADE) TO:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

Name OIL & GAS DIVISION  
Address DEPT. OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Phillip L. Tracy  
Address P.O. Box 173  
Middlebourne, WV 26149

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 X / other contract \_\_\_\_\_ / dated April 28, 19 80, to the undersigned well operator from Donna June Martin.  
[If said deed, lease, or other contract has been recorded:]

Recorded on May 9, 19 80, in the office of the Clerk of the County Commission of Pleasants County, West Virginia, in Deed Book 155 at page 605. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper \_\_\_\_\_ / 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 § 22-4-3 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) 548-3092

Haight, Inc.  
Well Operator  
By Warren R. Haight  
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

GEOLOGICAL TARGET FORMATION, Shale

Estimated depth of completed well, 3500 feet Rotary X Cable tools \_\_\_\_\_

Approximate water strata depths: Fresh, 75 feet; salt, \_\_\_\_\_ feet.

Approximate coal seam depths: None Is coal being mined in the area? Yes \_\_\_\_\_ No X

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic Feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	8 5/8	K-55	20#	X		200'	200'	75 sacks	
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	10.5#	X			3500	100 sacks	Depths set
Casing									
Liners									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-9, "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 drilling. This permit shall expire if operations have not commenced by 8-30-81.

[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 location, the well location has been added 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.

Date: \_\_\_\_\_, 19\_\_\_\_

By \_\_\_\_\_  
Its \_\_\_\_\_