



FILE NO. _____
 DRAWING NO. _____
 SCALE **1"=500'**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **RD. INT. ELEV. 1128'**

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 MINES.
 (SIGNED) *Willie R. Hassel*
 R.P.E. _____ L.L.S. **551**

PLACE SEAL HERE

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



DATE **11 MARCH**, 19 **82**
 OPERATOR'S WELL NO. **H-1278**
 API WELL NO. _____
47 - 073 - 1452
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION **1066'** WATER SHED **LONG RUN**
 DISTRICT **MC/KIM** COUNTY **PLEASANTS**
 QUADRANGLE **SCHULTZ 3 1/2' QUAD. St. Marys 15' C**
 SURFACE OWNER **ROBERT H. MORRIS** ACREAGE **33**
 OIL & GAS ROYALTY OWNER **SHERWOOD WINCE** LEASE ACREAGE **42**
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) **G-G ST MARYS 77**
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION **SHALE** ESTIMATED DEPTH **5000'**
 WELL OPERATOR **HAUGHT, INC.** DESIGNATED AGENT **WARREN HAUGHT**
 ADDRESS **SMITHVILLE, W.VA. 26178** ADDRESS **SMITHVILLE, W.VA. 26178**

APR 16 1982

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

25 - .39 Holes 5202' - 5670'

Stimulation - 825,000 SCF, N₂

WELL LOG

| FORMATION | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS |
|------------------|-------|--------------|----------|-------------|---|
| | | | | | Including indication of all fresh and salt water, coal, oil and gas |
| Red Rock | | | 50 | 61 | |
| Slate | | | 61 | 75 | |
| Sand | | | 75 | 87 | |
| Shale | | | 87 | 101 | |
| Red Rock | | | 101 | 111 | |
| Shale | | | 111 | 130 | |
| Sand | | | 130 | 145 | |
| Red Rock | | | 145 | 172 | |
| Sand & Shale | | | 172 | 250 | |
| Sand | | | 250 | 350 | |
| Sand & Shale | | | 350 | 430 | |
| Sand | | | 430 | 555 | |
| Red Rock | | | 555 | 640 | |
| Sand | | | 640 | 775 | |
| Sand & Shale | | | 775 | 850 | |
| Sand | | | 850 | 985 | |
| Sand | | | 985 | 1080 | |
| Shale | | | 1080 | 1164 | |
| Cow Run | | | 1164 | 1186 | |
| Gas Sand | | | 1208 | 1296 | |
| First Salt Sand | | | 1361 | 1400 | |
| Second Salt Sand | | | 1498 | 1534 | |
| Third Salt Sand | | | 1550 | 1576 | |
| Maxon | | | 1619 | 1673 | |
| Big Lime | | | 1720 | 1800 | |
| Keener | | | 1826 | 1856 | |
| Big Injun | | | 1856 | 1958 | |
| Squaw | | | 1974 | 2002 | |
| Weir | | | 2130 | 2161 | |
| Berea | | | 2210 | 2219 | |
| Gantz | | | 2274 | 2296 | |
| Fifty Foot | | | 2336 | 2356 | |
| Thirty Foot | | | 2447 | 2470 | |
| Gordon | | | 2550 | 2600 | |
| Fourth Sand | | | 2644 | 2668 | |
| Fifth Sand | | | 2726 | 2749 | |
| Byard | | | 2860 | 2880 | |
| Elizabeth | | | 3052 | 3084 | |
| Warren First | | | 3120 | 3160 | |

(Continued)

(Attach separate sheets as necessary)

National Operating, Inc.
Well Operator

By: 

Date: 4-30-82

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic
log of the well."

WELL LOG
Continued

| FORMATION | TOP FEET | BOTTOM FEET | REMARKS |
|---------------|-------------------|-------------|---------|
| Warren Second | 3264 | 3294 | |
| Tiona | 3320 | 3344 | |
| Speechley | 3470 | 3544 | |
| Balltown | 3584 | 3650 | |
| Scheffield | 3709 | 3750 | |
| Bradford | 3860 | 3902 | |
| Kane | 3931 | 3942 | |
| Riley | 3960 | 3984 | |
| Elk | 4172 | 4218 | |
| Benson | 4830 | 4870 | |
| Black Shale | RHINE STREET 5150 | 5690 T.D. | |

5690
2219

3471

MAY 10 1982

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. H-1278
API Well No. 47 073 - 1452
State County Permit

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

LOCATION: Elevation: 1066' Watershed: Long Run
District: McKim County: Pleasants Quadrangle: Schultz, 7 1/2

WELL OPERATOR Haight, Inc.
Address 5825 Emerson Ave
Parkersburg, WV 26101

DESIGNATED AGENT Warren R. Haight
Address Smithville, WV 26178

OIL & GAS ROYALTY OWNER Sherwood Wince
Address Rt. 2 Box 90
St. Marys, WV 26170

COAL OPERATOR None
Address _____

ACREAGE 42
SURFACE OWNER Robert H. Morris
Address St. Marys, WV 26170
ACREAGE 33

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

FIELD SALE (IF MADE) TO:
Name Consolidated Gas Supply Corp.
Address 445 West Main Street
Clarksburg, WV 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name _____
Address _____

RECEIVED

MAR 25 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated September 19, 1980, to the undersigned well operator from Sherwood Wince et al

[If said deed, lease, or other contract has been recorded:]
Recorded on Oct. 10, 1980, in the office of the Clerk of the County Commission of Pleasants County, West Virginia, in Deed Book 158 at page 445. A permit is requested as follows:

PROPOSED WORK: Drill / 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
PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
15 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

Haight, Inc.
Well Operator
By Warren R. Haight
Its President

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Haight, Inc.
Address 5825 Emerson Ave.
Parkersburg, WV 26101

GEOLOGICAL TARGET FORMATION, Shale

Estimated depth of completed well, 5000' feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 385 feet; salt, feet.

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

DRILLING AND TUBING PROGRAM

| DRILLING 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 | | |
| Drill pipe | | | | | | | | | Kinds |
| Production tubing | 8-5/8 | K-55 | 20# | X | | 700 200 | 500 200 | Cement to Surface | Sizes |
| Intermediate tubing | | | | | | | | | Depths set |
| Completion tubing | 4 1/2 | J-55 | 10.5# | X | | | 5000' | 500 sacks | Perforations: |
| | | | | | | | | | Top Bottom |

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 § 22-4-8a 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 this permit must be posted at the well site. Form IV-2 filed in connection therewith.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 11-30-82 :

BY [Signature]

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 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.

WELL LOG
Continued

| FORMATION | TOP FEET | BOTTOM FEET | REMARKS |
|---------------|--------------------------|-------------|---------|
| Warren Second | 3264 | 3294 | |
| Tiona | 3320 | 3344 | |
| Speechley | 3470 | 3544 | |
| Balltown | 3584 | 3650 | |
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MAY 10 1982