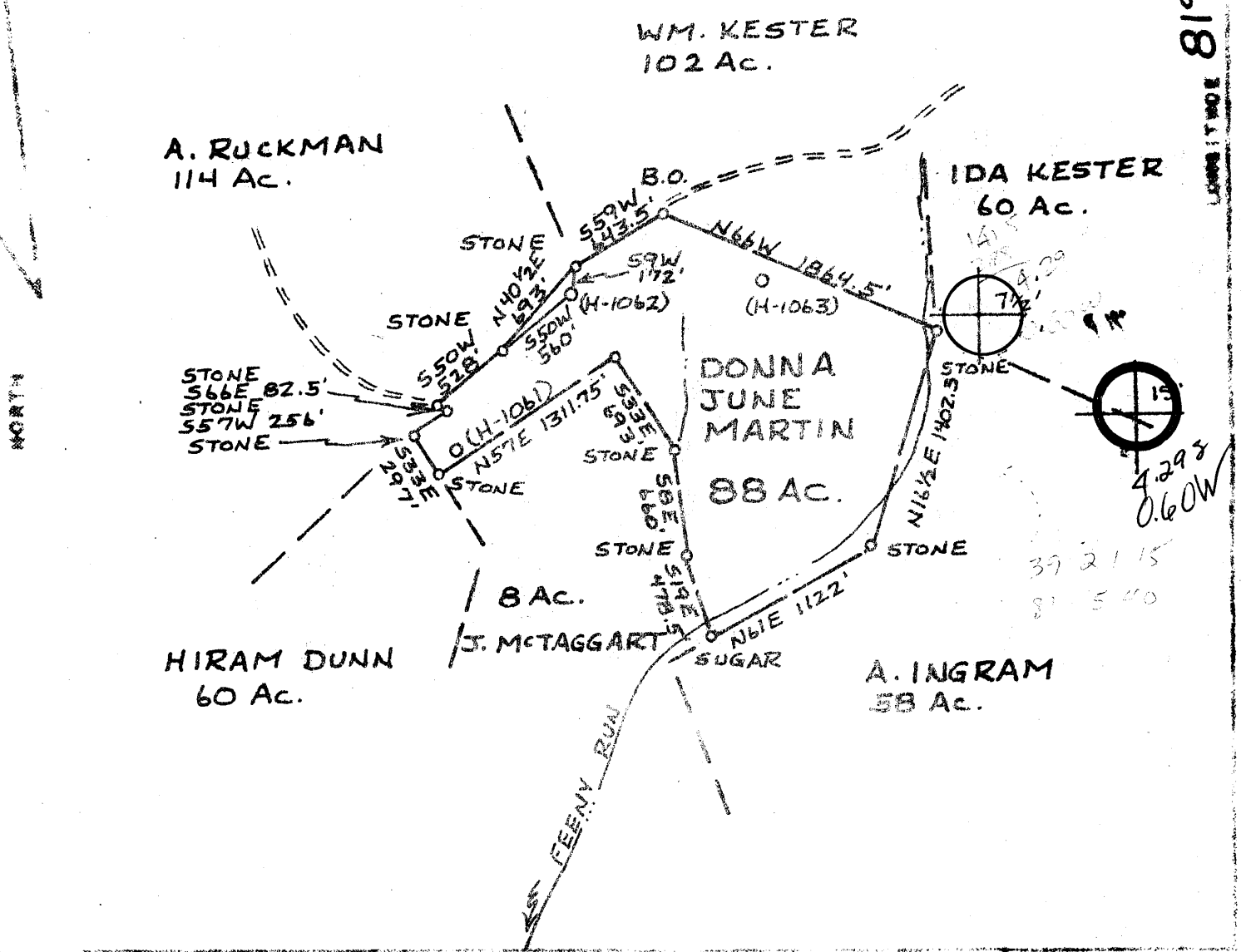


LATITUDE 39° 22 1/2'  
39° 25'  
7,430' SOUTH  
3,140' WEST

LONGITUDE 81° 15'



PLAT NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION ROAD ELE. 927'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND CONTAINS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 SIGNED: William R. Mosser  
 R.P.E. \_\_\_\_\_ U.S. 551

PLACE SEAL HERE

PLEASE NOTE LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-B  
 (8-78)



DATE 14 JULY 1980  
 OPERATOR'S WELL NO H-1062  
 API WELL NO. 47-073-0914  
 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 \_\_\_\_\_ DRIP \_\_\_\_\_ SHALL BY   
 LOCATION: ELEVATION 1050' WATER BENS CORN CREEK  
 DISTRICT JEFFERSON COUNTY PLEASANTS  
 QUADRANGLE WILLOW ISLAND, W.VA. 7 1/2' QUAD, MARIETTA 15' EC  
 SURFACE OWNER DONNA JUNE MARTIN ACRES 88  
 OIL & GAS ROYALTY OWNER DONNA JUNE MARTIN LEASE ACRES 88  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUS OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND STOP \_\_\_\_\_  
 TARGET FORMATION SHALE ESTIMATED DEPTH 3500'  
 WELL OPERATOR HAUGHT INC. DESIGNATED AGENT WARREN HAUGHT  
 ADDRESS SMITHVILLE, W.VA. 26178 ADDRESS SMITHVILLE, W.VA. 26178

Date: September 30, 1980

Operator's  
Well No. H-1062

API Well No. - - 073 - 0914  
State County Permit

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

WELL OPERATOR'S REPORT 29  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal  
Oil "Gas", Production X / Underground storage / Deep / Shallow X  
LOCATION: Elevation: 1050' Watershed: Cow Creek  
District: Jefferson County: Pleasants Quadrangle: Willow Island, W.V. 7 1/2'

WELL OPERATOR Haught, Inc. Donna June Martin H-1062  
Address Rt. 3 Box 14 DESIGNATED AGENT Warren R. Haught  
Smithville, WV 26178 Address Smithville, WV 26178

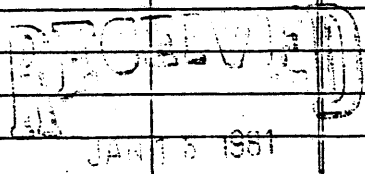
PERMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Fracture or stimulate  
Plug off old formation / Perforate new formation  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON July 30, 1980, OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Phillip L. Tracy  
Address P.O. Box 173  
Middlebourne, W.V. 26149

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 2472 to 4011 feet  
Depth of completed well, 4011 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  
Work was commenced September 8, 1980, and completed September 17, 1980

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	10-3/4			X		281'	281'	80 sacks
Coal								Sizes
Intermediate	7"			X		1543'	1543'	40 sacks
Production	4 1/2	J-55	10.5#	X			3977'	225 sacks
Tubing								
Liners								Perforations:
								Top Bottom
								3582 3951



OPEN FLOW DATA

Producing formation Devonian Shale Zone depth 2472 to 4011 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
Final open flow, 160 Mcf/d Final open flow, 10 Bbl/d  
Time of open flow between initial and final tests, 8 hours  
Static rock pressure, 450 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

Continued on reverse side

JAN 26 1981

[08-78]

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

Nitrogen fraced by B.J.Hughes -- 9-20-80 900,000 SCF.  
500 Gal. Acid

Perforations: 23--3582--3951

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			0	20	
Yellow Rock			20	40	
Red Rock			40	55	
Yellow Rock			55	60	
Shale			60	75	
Red Rock			75	80	
Slate			80	90	
Red Rock			90	96	
Slate/Sand			96	130	
red Rock			130	135	
Slate/Sand			135	160	
Red Rock			160	167	
Slate			167	180	
Red Rock			180	185	
Slate			185	198	
Shale/Red Rock			198	655	
Sand			655	670	
Red Rock			670	711	
Shale			711	716	
Red Rock			716	725	
Shale			725	862	
Sand			862	910	
Red Rock			910	917	
Shale			917	1145	
Shale/Sand			1145	1300	
Red Rock			1300	1310	
Shale			1310	1324	
Sand			1324	1365	
Shale			1365	1430	
Lime			1430	1543	
Injun Sand			1543	1680	
Shale			1680	2458	
Gordon Sand			2458	2472	
<u>Devonian Shale</u>			2472	4001	T.D.

4001  
2472  
1529 expl. ft.

**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."

Haught, Inc.  
Well Operator  
  
By [Signature]  
Its President

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: 1050 Watershed: Cow Creek  
District: Jefferson County: Pleasants Quadrangle: Willow Island, W.V.

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 Donna June Martin  
Address Rt 2, Box 161  
Washington, WV 26181

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 \_\_\_\_\_  
**RECEIVED**  
JUL 29 1980

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

Name \_\_\_\_\_  
Address OIL & GAS DIVISION  
DEPT. OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Phillip L. Tracy  
Address P.O. Box 173  
Middlebourne, W.V. 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, 1980, 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) 343-3092

Haught, Inc.  
Well Operator  
By Warren R. Haught  
Its 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) Haight, Inc.  
Address Smithville, WV 26178

GEOLOGICAL TARGET FORMATION, Shale

Estimated depth of completed well, 3500 feet Rotary  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

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									
Miners									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 § 22-4-3c 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 3-30-81.

Fred B. Rudolph  
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 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 \_\_\_\_\_