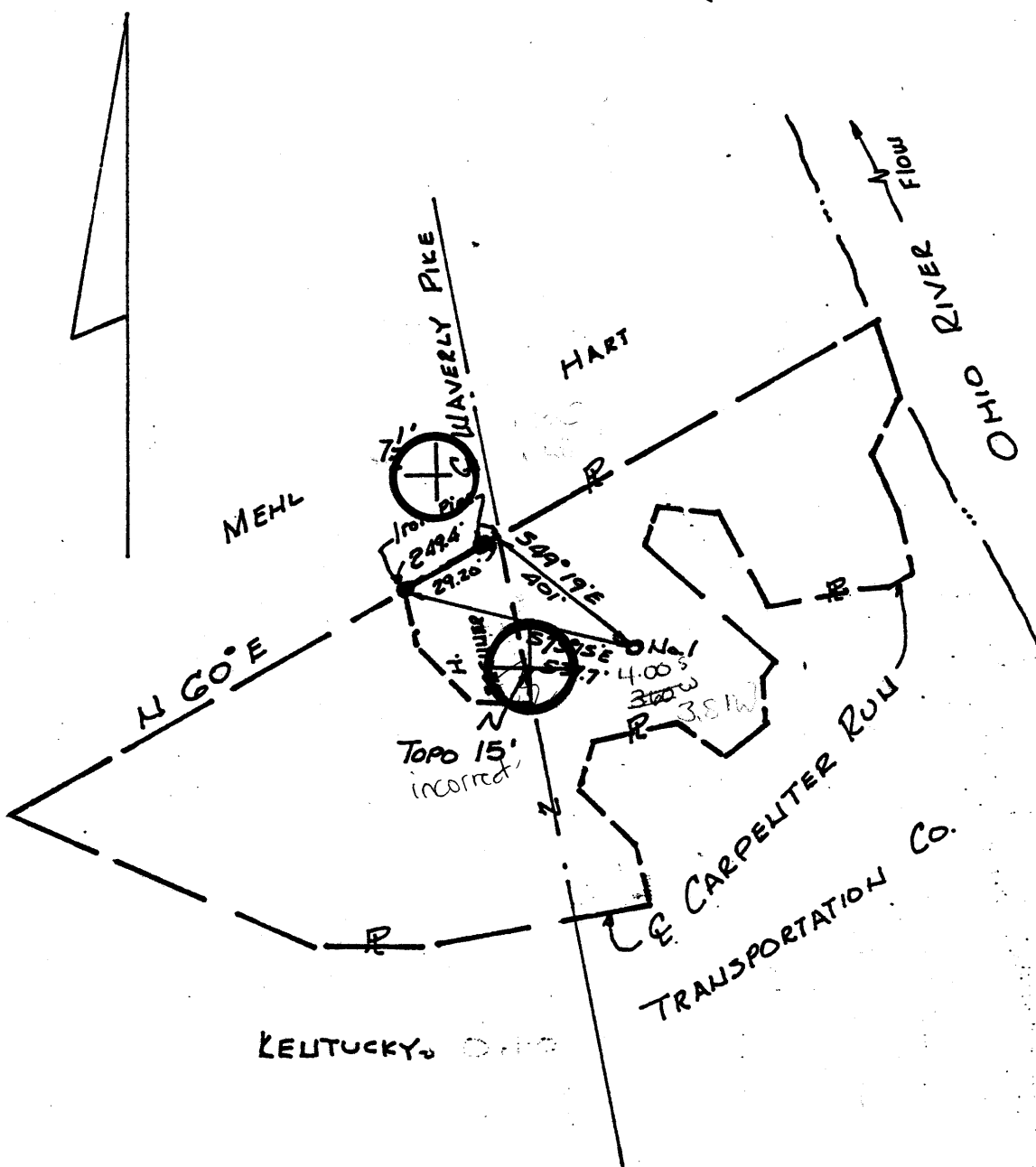


5-42

Plot Card CSD

OK 2-26-80

39° 22' 30"
(15) 39° 25'



(15) 39° 22' 30"
02° 18'

PREPARED BY.....
 CHECKED BY.....
 NEW LOCATION X.....
 FIELD NOTES.....
 ADJUSTMENT.....

Source of Elevation Intersection Waverly Road & Drive 5000'
Southeast of Well Elev. 605 USGS

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and show all the information required by paragraph 6 of the rules and regulations of the Oil and Gas Division of the Mining Laws of West Virginia.

ELEVATION OF WELL (feet) 593.5
 DATE 2-26-80 SCALE 1" = 400'

WELL DEPTH, FEET 200

PREPARED BY Haught, Inc.
 ADDRESS Smithville, WVA, 26178

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

BY FRANK WELTER ET UX

WELL LOCATION MAP
 FILE NO. 107-1139
 was; Wood 953

WELL (Area) No. 1 AREA No. _____

+ Denotes location of well on United States Topographic Maps, Scale 1" = 24,000' latitude and longitude lines being represented by border lines as shown.

CHARLESTON VALLEY MILLS 7.5 Min.
 COUNTY WOOD DISTRICT UNION

- Denotes one inch spaces on border line of original tracing.

SURVEYOR OR
 ENGINEER Thomas D. Schultheis

Formerly: wood-953

MEMBER'S OF
 ENGINEER'S REGISTRATION No. 604

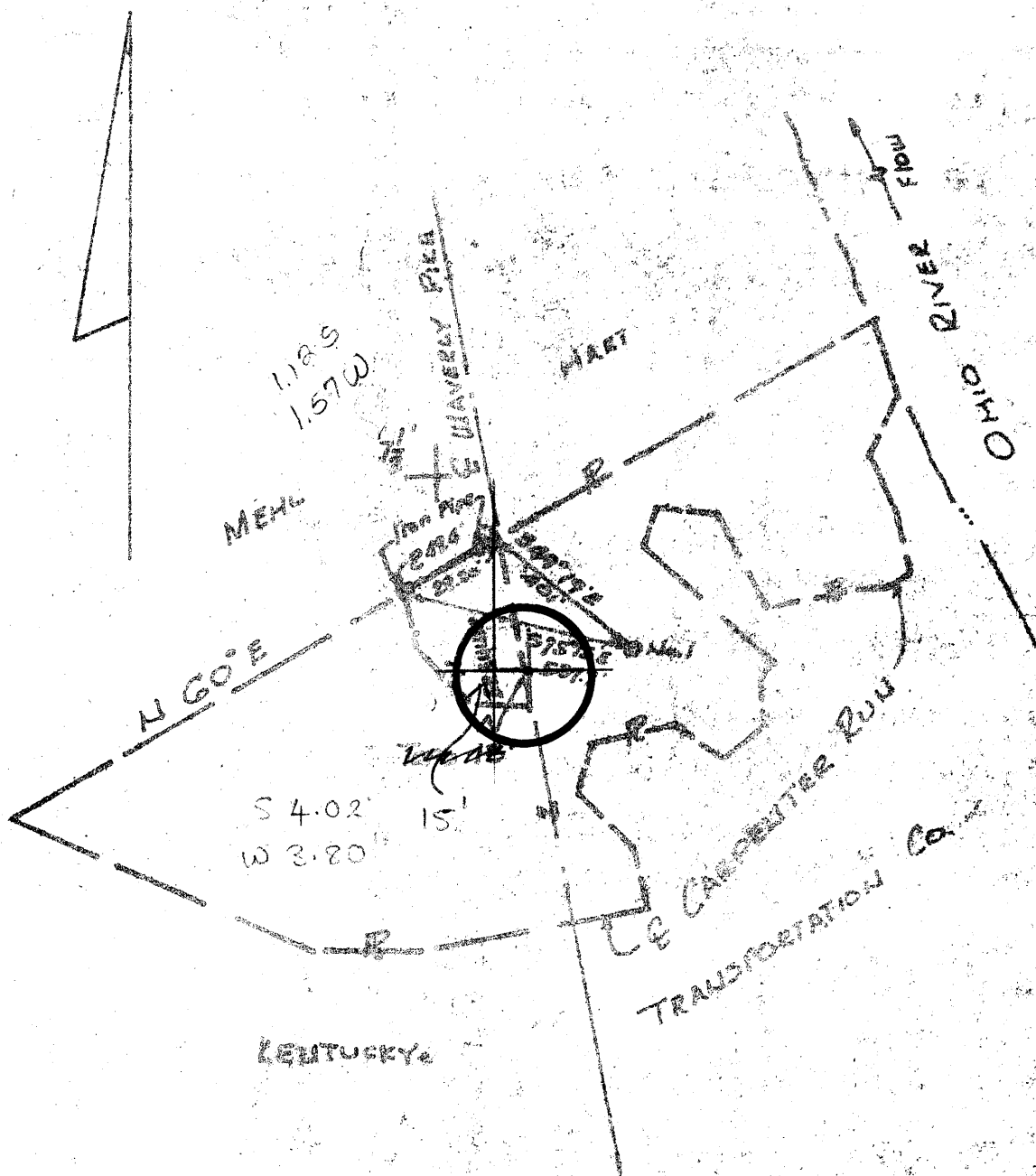
4000' shale

FEB 24 1981

10-2-26-80-1011

39° 22' 30"

(157° 39' 25")



08° 22' 18" (157° 39' 25")

- FRACTURE.....
- REPERILL.....
- NEW LOCATION X
- DRILL DEEPER...
- ABANDONMENT ...

Source of Elevation Intersection Waverly Road & Drive 5000'
Southeast of Well Elev. 608 USGS

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

ELEVATION (Spirit Level) 593.5
 DATE 2-26-80 SCALE 1"=400'

HORIZONTAL ACCURACY, one part in 200

COMPANY WASHINGTON ENERGY
 ADDRESS 702 CHARLESTON NATIONAL PLAZA
CHARLESTON, W. VA.
 FARM FRANK WELTER FLUX
 TRACT A & B ACRES 25.82 LEASE No. _____
 WELL (Farm) No. 1 SERIAL No. _____
Martha C
 QUADRANGLE VALLEY MILLS 75 110
 COUNTY WOOD DISTRICT UNION
 SURVEYOR OF ENGINEER Thomas D. Schulteis
 SURVEYOR'S OF ENGINEER'S REGISTRATION No. 604

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

WELL LOCATION MAP
 FILE No. 107-0953
 HOW: 1139

+ Denotes location of well on United States Topographic Maps, Scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch square on border line of original tracing.

2400 York

B-2

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
The Devonian Shale was treated only at the following intervals

- 2564 to 3571 - 3 holes
- 3628 to 3630 - 4 holes
- 3646 to 3654 - 4 holes
- 3658 to 3676 - 9 holes
- 3758 to 3754 - 3 holes
- 3798 to 3806 - 4 holes
- 3810 to 3818 - 3 holes

The well was fractured with approximately 1,600,000 cubic ft. of nitrogen only.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
0 - 23'	River	gravel soft	0'	23'	Fresh Water
	Sand & Gravel		23'	292'	Fresh Water
	Sandy Shale & Sandstone		292'	1679'	Salty Water (Brine)
	Broken Sand & Shale		1679'	2350'	Salt Water (Brine)
	Sand, Limestone Primarily				
	Devonian Shale		2350'	4008'	Salt Water (Brine)

(Attach separate sheets as necessary)

King Energy Corporation
Well Operator

By: [Signature] - AGENT

Date: 12-15-51

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."



Well No. #1
Farm Frank & Rosemarie Welter
API #47 - 107 - 0953-REN.
Date June 3, 1981

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil X / Gas X /

(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow X /

LOCATION: Elevation: 5935' Watershed: Carpenter's Run & the Ohio River
District: Williams County: Wood Quadrangle: _____

WELL OPERATOR Thomas Halloran, Assoc.
Address 604 Virginia St., East
Charleston, WV 25301

DESIGNATED AGENT SAME
Address _____

OIL AND GAS ROYALTY OWNER Frank & Rosemarie Welter
Address Rt. 1 Williamstown, WV 26187

COAL OPERATOR NONE
Address _____

Acreage 28.3

SURFACE OWNER Frank & Rosemarie Welter
Address Rt. 1 Williamstown, WV 26187

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME NONE
Address _____

Acreage 28.3

FIELD SALE (IF MADE) TO:
NAME _____
Address _____

NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME _____
Address _____
Telephone _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME NONE
Address _____

RECEIVED
JUN - 3 1981

OIL & GAS DIVISION
DEPT. OF MINES

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 2/6, 1980, to the undersigned well operator from Frank & Rosemarie Welter.

(If said deed, lease, or other contract has been recorded:)

Recorded on February, 19 80 in the office of the Clerk of County Commission of Wood County, West Virginia, in 733 Book at page 626. 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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this 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
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

BOND DRILL

Thomas Halloran, Assoc.
Well Operator

By: _____

Its: Owner

(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Glen L. Haught & Son

Address Smithville, W. Va.

GEOLOGICAL TARGET FORMATION Shale

Estimated depth of completed well 4,999 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, feet; salt, feet.
Approximate coal seam depths:
Is coal being mined in this area: Yes / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling		
Conductor	11 3/4			X		100	100	Kinds
Fresh water	8 5/8					1500		
Coal	4 1/2					4999		Sizes
Intermed.								
Production Tubing								Depths set
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 18, or in lieu thereof the other security allowed by Code §22-4-5, (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 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 renewed. This permit shall expire if operations have not commenced by 2-4-82.

[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 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 regularions.

Date: , 19 .

By:

Its:



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

FEB 26 1980

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE February 22, 1980
Company Washington Energy Corporation
Address 702 Charleston National Plaza
Farm Welter, Frank & Rosemarie Acres 28.3
Location (waters) Adjacent Ohio River
Well No. 1 Elevation _____
District Williams County Wood
Quadrangle _____

Surface Owner Frank & Rosemarie Welter
Address Wood County, WV
Mineral Owner Same as above
Address _____
Coal Owner Same as above
Address _____
Coal Operator None
Address _____

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 10-27-80.

Robert H. [Signature]

Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Goodnight
ADDRESS _____
PHONE 477-3660

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated February 6, 1980 by Frank & Rosemarie Welter made to Washington Energy Corp. and recorded on the 8th day of Feb. 1980, in Wood County, Book, Deed 733 Page 626

NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address of Well Operator

Very truly yours, Washington Energy Corp.
(Sign Name) X P. R. Hecoborn, V. Pres.
Well Operator
702 Charleston National Plaza
Street
Charleston, WV 25301
City or Town
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BOND DRILL

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

47-107-0953 PERMIT NUMBER

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: 593 Watershed: Ohio River
District: Union County: Wood Subdrainage: Valley Mills, WV

WELL OPERATOR Haught, Inc. DESIGNATED AGENT Warren R. Haught
Address Route 3, Box 14 Address Smithville, WV 26178
Smithville, WV 26178

OIL & GAS ROYALTY OWNER Frank & Rosemarie Welter COAL OPERATOR None
Address Wood County, WV Address _____

Acreage 25.82 COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____

SURFACE OWNER Same as above Address _____
Address _____
Acreage _____

FIELD SALE (IF MADE) TO: Name Columbia Gas Transmission Corp.
Address P.O. Box 1273
Charleston, WV 25325

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

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 January 12, 19 81, to the undersigned well operator from Washington Energy Corp.

[If said deed, lease, or other contract has been recorded:]
Recorded on _____, 19____, in the office of the Clerk of the County Commission of _____ County, West Virginia, in _____ Book _____ at page _____. 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
1515 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

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

GEOLOGICAL TARGET FORMATION, Shale
Estimated depth of completed well, 4000' 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'	5	Cement to Surface
Coal									Sizes
Intermediate									
Production	4 1/2	J-55	10.5#	X			4000'	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-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 drilling 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 9-30-81.

[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 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 _____