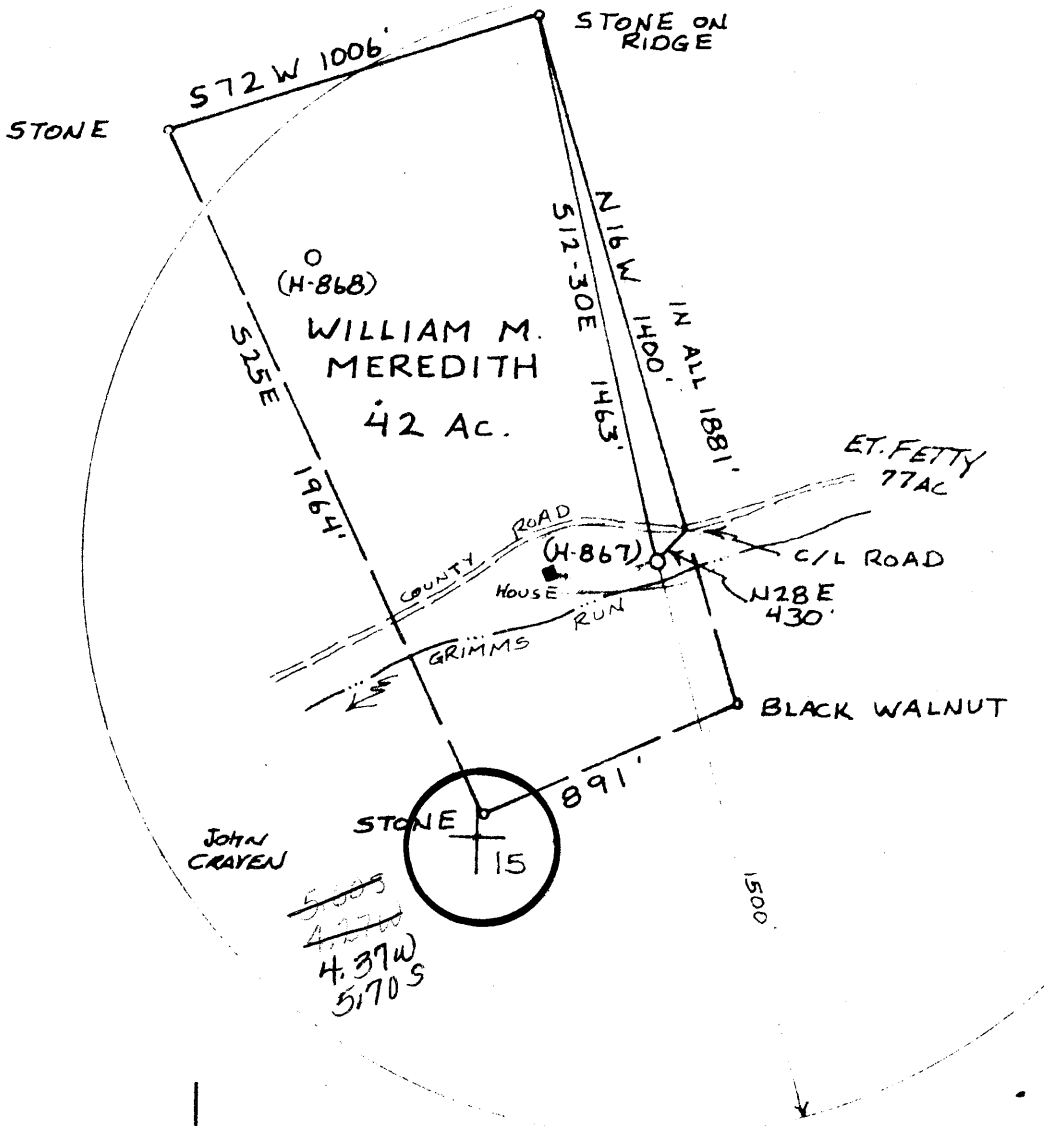


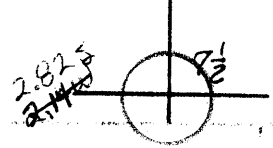
LETITUDE 39° 27 1/2'
14,970' SOUTH (15) 39° 30'
11,280' WEST

11/15/18
80° 50'
(15)
80° 52 1/2'

E. SMITH



John Craven
5000
4270
4.37W
5170S



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 THEREOF AND PRESCRIBED BY THE DEPARTMENT OF MINES.

SIGNED: *William M. Meredith*

R.F. 551

SCALE 1"=500'
MINIMUM DEPTH OF RECORD 1200'
SOURCE OF INFORMATION ROAD ELEV. 769'

DATE 11 OCTOBER 1979
OPERATOR'S WELL NO H-867
STATE COUNTY

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS

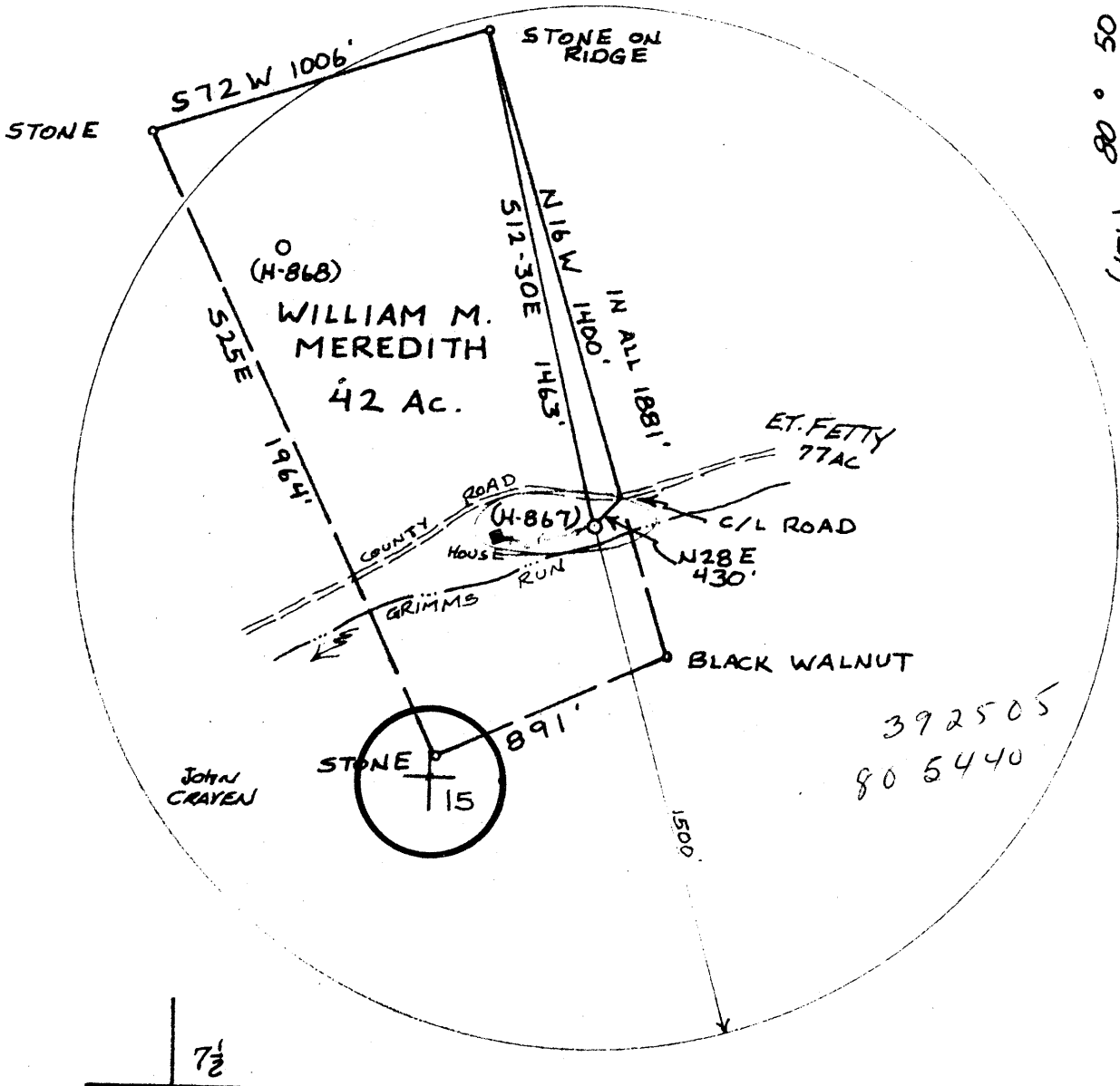
PROPOSED WELL NO. H-867
ELEVATION 808'
DISTRICT CENTERVILLE
MIDDLEBOURNE, W.VA. 7 1/2' QUAD. WEST UNION 15' NG
WILLIAM M. MEREDITH
WILLIAM M. MEREDITH
DATE 11 OCTOBER 1979

OPERATOR: GLENN A. HAUGHT & SONS
ADDRESS: SMITHVILLE, W.VA. 26178

DATE 11 OCTOBER 1979

LATITUDE 39° 27 1/2'
14,970' SOUTH (15) 39° 30'
11,280' WEST

E. SMITH



392505
805440

SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 ELEVATION ROAD ELEV. 769'

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) *William Messer*

R.F.E. 551

PLACE SEAL HERE



DATE 11 OCTOBER 1979
 OPERATOR'S WELL NO H-867
 STATE COUNTY PERMIT
 095 0744

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

PROPOSED WORK: DRILL X, LIQUID PRODUCTION, WASTE DISPOSAL, STORAGE, DEEP, SHALLOW X
 DISTRICT CENTERVILLE COUNTY TYLER
 MIDDLEBOURNE, W.VA. 7 1/2 QUAD., WEST UNION 15' NC
 SURFACE OWNER WILLIAM M. MEREDITH ACRES 42Ac.
 SURFACE SOLETY OWNER WILLIAM M. MEREDITH LEASE 66
 PROPOSED WORK: DRILL X, DEEPER, FRACTURE OR
 REFRACTURE, PHYSICAL CHANGE IN WELL (SPECIFY)

ESTIMATED DEPTH 3100' DEC 6 1979
 WELL OPERATOR GLENN J. HAUGHT & SONS
 ADDRESS SMITHVILLE, W.VA. 26178

Bearsville (366)

RECORDED

FEB 20 1980

Date: January 13, 19 80

Operator's Well No. H-867

API Well No. 17-095-0744
State County Permit

OIL & GAS DIVISION
DEPT. OF MINES

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

WELL TYPE: Oil Gas Liquid Injection Waste Disposal
 (If "Gas", Production Underground storage Deep Shallow)
 LOCATION: Elevation: 808' Watershed: Grimms Run
 District: Centerville County: Tyler Quadrangle: Middlebourne, WV 7 1/2'
 W. Meredith H-867
 WELL OPERATOR Glenn L. Haught & Sons DESIGNATED AGENT Warren R. Haught
 Address Smithville, WV 26178 Address Smithville, WV 26178

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

PERMIT ISSUED ON November 16, 19 79
 D.D. Permits applies for December 20, 1979
 (IF APPLICABLE: PLUGGING OF TEST WELLS ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED)

OIL & GAS INSPECTOR FOR THIS WORK:
 Name Phillip Lee Tracey
 Address P. O. Box 172 Dodd Street
Middlebourne, WV 26149

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 4390/5624 feet
 Depth of completed well, 5624' feet Rotary Cable Tools
 Water strata depths: Fresh, _____ feet; salt, _____ feet.
 Coal seam depths: None Is coal being mined in the area? No
 Work was commenced December 11, 1979, and completed December 21, 1979

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	10 3/4			X		329'	329'	150 sacks	None
Fresh water	7"			X		1767'	1767'	40 sacks	
Coal									None
Intermediate									
Production	4 1/2	J-55	10.5#	X			5460'	140 sacks	Depth set
Tubing									
Liners									Perforations:
									Top Bottom
									4766 5470

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 4390/5624 feet
 Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
 Final open flow, 1,100 Mcf/d Final open flow, _____ Bbl/d
 Time of open flow between initial and final tests, _____ hours
 Static rock pressure, 1280 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

[08-78]

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

Hydrafraced by Halliburton 12-28-79 -- 2000 Gal. Acid -- 2019 Bbls. Water
20,000 Lbs. 20/40 Mesh Sand -- 23,500 Lbs. 80/100 Mesh Sand.

Perforations -- 4766 - 5470 -48 Holes

WELL LOG

FORMATION	Color	Hard or Soft	89 Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sand			0	5	
Red Rock			5	10	
Sand			10	28	
Red Rock			28	139	
Sand			139	150	
Red Rock			150	160	
Sand			160	250	
Shale			250	290	
Sand			290	320	
Red Rock			320	325	
Sand			325	350	
Red Rock			350	365	
Shale			365	520	
Red Rock			520	530	
Shale			530	720	
Red Rock			720	730	
Sand			730	925	
Red Rock			925	940	
Shale			940	1110	
Sandy Lime			1110	1140	
Shale			1140	1155	
Sand			1155	1200	
Shale			1200	1275	
Red Rock			1275	1290	
Shale			1290	1350	
Sand			1350	1400	
Shale			1400	1425	
Sand			1425	1450	
Sand			1450	1510	
Shale			1510	1575	
Sand			1575	1680	
Shale			1680	1690	
Lime			1690	1770	
Sand			1770	1933	
Shale			1933	2120	
Sand			2120	2230	
Shale			2230	2289	
Sand			2289	2299	
Shale			2299	2512	
Sand			2512	2532	
Shale			2532	2710	
Sand			2710	2724	
Shale			2724	3260	
Sand			3260	3280	
Shale			3280	4384	
Sand			4384	4396	
Shale			4396	4760	
Sand			4760	4774	
Shale			4774	4990	
Sand			4990	5002	
Shale			5002	5624	T. D.

453' deeper - (subsea)
than Dyer #728

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologic record of all formations.

Glenn L. Haught & Sons
Well Operator

By *Glenn L. Haught*

Its Partner

[08-78]

Date: November 13, 1979

Operator's Well No. H-867
API Well No. 17-095-0744
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: 808 Watershed: Grimms Run
District: Centerville County: Tyler Quadrangle: Middlebourne, WV 7 1/2'

WELL OPERATOR Glenn L. Haught & Sons
Address Smithville, WV 26178

DESIGNATED AGENT Warren R. Haught
Address Smithville, WV 26178

OIL & GAS ROYALTY OWNER William M. Meredith Estate
Address 613 Stanley Avenue
Clarksburg, WV 26301
Acreage 66

COAL OPERATOR None
Address _____

SURFACE OWNER William M. Meredith Estate
Address 613 Stanley Avenue
Clarksburg, WV 26301
Acreage 42

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

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____
NOV 14 1979

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip Lee Tracey
Address P.O. Box 173 Dodd Street
Middlebourne, WV 26149

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 August 31, 1979, to the undersigned well operator from William Meredith Estate et al
[If said deed, lease, or other contract has been recorded:]

Recorded on October 4, 1979, in the office of the Clerk of the County Commission of Ritchie County, West Virginia, in Deed Book 221 at page 539. 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) 349-3092

Glenn L. Haught & Sons
Well Operator
Warren R. Haught
By _____
Its Partner

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) Glenn L. Haught & Sons
Address Smithville, WV 26178

GEOLOGICAL TARGET FORMATION, Gordon

Estimated depth of completed well, 3100' feet Rotary Cable tools

Approximate water strata depths: Fresh, 50 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			3100'	100 sacks	Depths set
Tubing									
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 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 7-16-80.

Robert H. [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 § 22-6-22, 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

112024040

DEC 31 1979

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

OIL & GAS DIVISION
DEPT. OF MINES
OIL AND GAS WELL PERMIT APPLICATION

Date: December 20, 19 79
Operator's Well No. H-867
API Well No. 095 - 0744-0
State County Permit

WELL TYPE: Oil X / Gas X /
(If "Gas", Production X / Underground storage _____ Deep _____ Shallow X /)
LOCATION: Elevation: 808 Watershed: Grimms Run
District: Centerville County: Tyler Quadrangle: Middlebourne, WV 7 1/2'

WELL OPERATOR Glenn L. Haught & Sons DESIGNATED AGENT Warren R. Haught
Address Smithville, WV 26178 Address Smithville, WV 26178

OIL & GAS ROYALTY OWNER William M Meredith Estate
Address 613 Stanley Avenue
Clarksburg, WV 26301

COAL OPERATOR None
Address _____

Acreage 66
SURFACE OWNER William M. Meredith Estate
Address 613 Stanley Avenue
Clarksburg, WV 26301

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
Name _____
Address _____
DEC 21 1979

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

OIL & GAS DIVISION
DEPT. OF MINES
COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip Lee Tracey
Address P. O. Box 173 Dodd Street
Middlebourne, WV 26149

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 August 31, 19 79, to the undersigned well operator from William Meredith Estate et al

[If said deed, lease, or other contract has been recorded:]
Recorded on October 4, 19 79, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Deed Book 221 at page 539. 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) 348-3092

Glenn L. Haught & Sons
Well Operator
Warren R. Haught
By _____
Its Partner

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) Glenn L. Haught & Sons
Address Route 3, Box 14
Smithville, WV 26178

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 5600 feet Rotary / Cable tools _____
Approximate water strata depths: Fresh, 50 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									Minds
Fresh water	10 3/4			X		325'	325'	100 sacks	
Coal									Sires
Intermediate									
Production	4 1/2	J-55	10.5#	X			5600'	175 sacks	Depths set
Tubing									
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 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 deeper. This permit shall expire if operations have not commenced by 9-2-80.

Robert H. [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 _____