

MINERAL OWNERS:

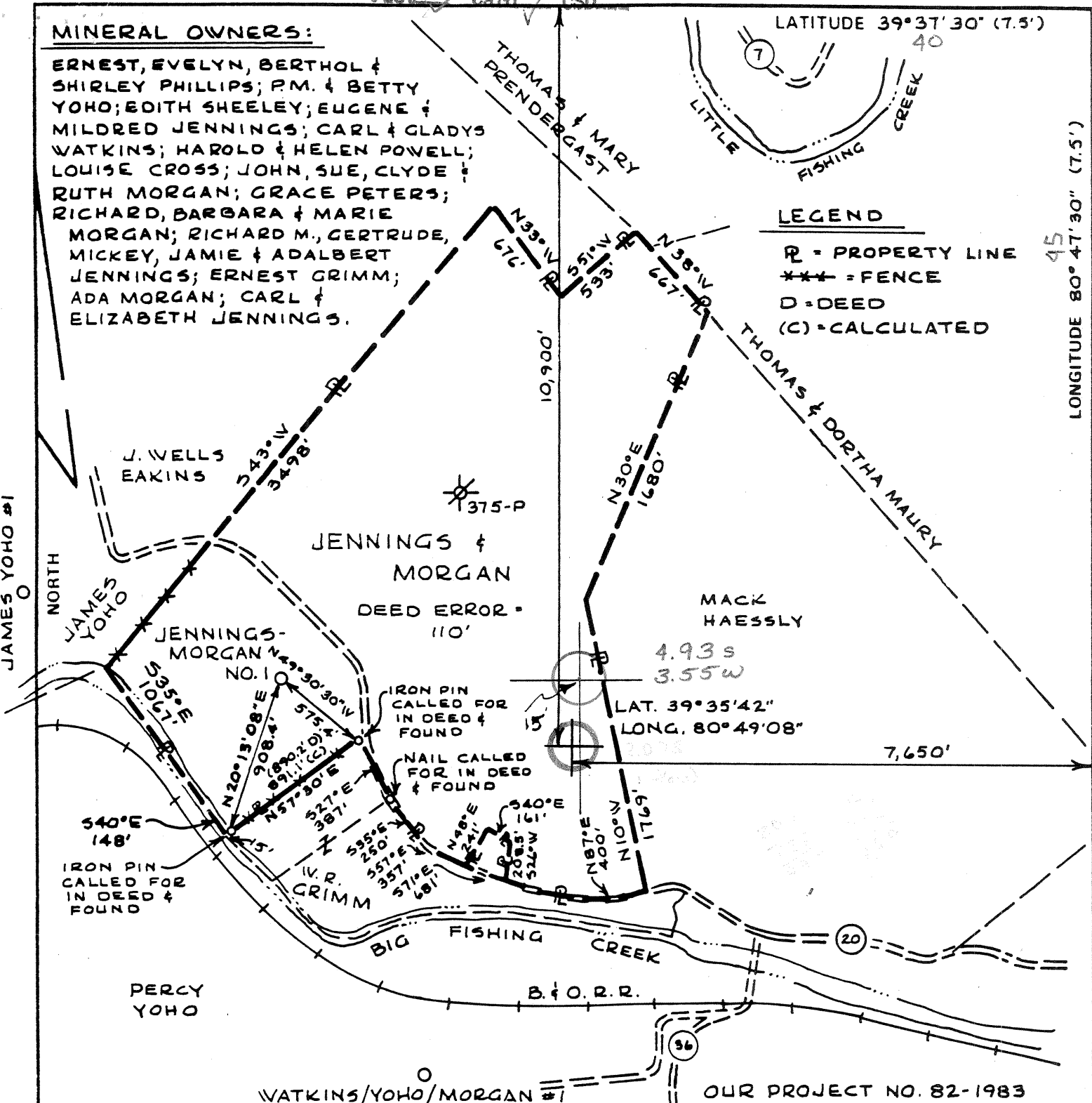
ERNEST, EVELYN, BERTHOL & SHIRLEY PHILLIPS; R.M. & BETTY YOHO; EDITH SHEELEY; EUGENE & MILDRED JENNINGS; CARL & GLADYS WATKINS; HAROLD & HELEN POWELL; LOUISE CROSS; JOHN, SUE, CLYDE & RUTH MORGAN; GRACE PETERS; RICHARD, BARBARA & MARIE MORGAN; RICHARD M., GERTRUDE, MICKEY, JAMIE & ADALBERT JENNINGS; ERNEST GRIMM; ADA MORGAN; CARL & ELIZABETH JENNINGS.

LATITUDE 39° 37' 30" (7.5')

LONGITUDE 80° 47' 30" (7.5')

LEGEND

- R = PROPERTY LINE
- *** = FENCE
- D = DEED
- (C) = CALCULATED



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION U.S.C. & G.S.
B.M. A139 EL. 644.687

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) [Signature]
 R.P.E. _____ L.L.S. #550

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE DEC. 2, 1982
 OPERATOR'S WELL NO. JENNINGS-MORGAN #1
 API WELL NO. 103
47 - WETZEL - 1273
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 646.95 WATER SHED FISHING CREEK
 DISTRICT GREEN COUNTY WETZEL
 QUADRANGLE PORTERS FALLS Maple Ave, New Martinsville, WV 26155
 SURFACE OWNER E.C., J.B. & M. JENNINGS (4/1) J. MORGAN (1/2) ACREAGE 166
 OIL & GAS ROYALTY OWNER SEE ABOVE LEFT LEASE ACREAGE 166
 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) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION GORDON SHALE ESTIMATED DEPTH 4100'
 WELL OPERATOR LELAND PETROLEUM PRODUCTS DESIGNATED AGENT WILLIAM CARPENTER
 ADDRESS 2101 MCKINNEY AVE. 3501 EMERSON AVE ADDRESS 3501 EMERSON AVE, SUITE 4B
DALLAS, TX 75207 Parkersburg, WV PARKERSBURG, WV

3-4 Porters Falls (93) DEC 27 1982
SPD - West Berea

Latitude

Longitude

2.07s
1.46w

Topo Location

7.5' Loc. _____ 15' Loc. _____
(calc.) _____

Company Coastal Corp

Farm Jennings - Morgan

15' Quad _____
(sec.)

7.5' Quad Peters Falls

District Green

WELL LOCATION PLAT

County 103 **Permit** 1273



APR 11 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date March 18, 1983
Operator's
Well No. 1
Farm Jennings - Morgan
API No. 47 - 103 - 1273

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

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

LOCATION: Elevation: 657 KB Watershed Fishing Creek
District: Green County Wetzel Quadrangle Porter Falls 7.5 min.

COMPANY The Coastal Corporation
ADDRESS 3501 Emerson Ave., Suite 4B,
DESIGNATED AGENT William Carpenter Parkersburg, WV
ADDRESS 3501 Emerson Ave., Suite 4B Parkersburg,
SURFACE OWNER (see attached sheet) WV
ADDRESS (see attached sheet)
MINERAL RIGHTS OWNER (see attached sheet)
ADDRESS (see attached sheet)
OIL AND GAS INSPECTOR FOR THIS WORK

Robert Lowther ADDRESS Middlebourne, WV

PERMIT ISSUED
DRILLING COMMENCED 2/4/83
DRILLING COMPLETED 2/9/83

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON n/a

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	40	40	driven
9 5/8			
8 5/8	1040	1040	to surface
7			
5 1/2			
4 1/2	3365	3365	to 1592'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Speechley-Balltown Depth 4200'± feet
Depth of completed well 4262 feet Rotary X / Cable Tools
Water strata depth: Fresh n/a feet; Salt 1232 feet
Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Weir Sandstone Pay zone depth ²⁰⁹¹⁻²¹⁴⁷ 2097-2170 feet
Gas: Initial open flow 550 Mcf/d Oil: Initial open flow none Bbl/d
Final open flow 300 Mcf/d Final open flow trace Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 1100 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Berea Sandstone Pay zone depth ²²⁹⁴⁻²²⁹⁶ 2292-2295 feet
Gas: Initial open flow 500 Mcf/d Oil: Initial open flow none Bbl/d
Final open flow 300 Mcf/d Oil: Final open flow trace Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 1100 psig (surface measurement) after 24 hours shut in

*Initial completion covered both reservoirs.

(Continue on reverse side)

APR 18 1983

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

Perforations:

Based upon cement bond log

(Weir sandstone)

7 holes from 2091 to 2097

8 holes from 2108 to 2113

11 holes from 2138 to 2147

(Berea sandstone)

4 holes from 2294 to 2296

Frac Job Summary:

Foam/Nitrogen completion with 40,000 lbs 20-40 mesh sand,
25,000 lbs 10-20 mesh sand, 8,944 gals. fluid, and 578,000
scf nitrogen ISIP = 2000 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Permian and Pennsylvanian			surface	1040	
	siltstone, shale, tr	sandstone	1040	1232	
First Salt sand			1232	1282	dry
	shale		1282	1313	
Second & Third Salt sands			1313	1473	dry
	siltstone and shale		1473	1534	
Maxton sandstone			1534	1579	dry, no fluor, in samples
	shale		1579	1650	
Greenbriar limestone			1650	1750	
	shale		1750	1759	
Big Injun sandstone			1759	1934	no fluoressence in samples
	siltstone and shale		1934	2046	
Weir sandstone			2046	2170	fair oil fluoressence in well sam
	siltstone and shale		2170	2292	
Berea Sandstone			2292	2310	no shows
	siltstone, shale, tr	sandstone	2310	3229	
Warren sandstone			3229	3264	tr fluoressence in samples
	siltstone, shale, tr	sandstone	3264	4262	
				Balltown @T.D.	Driller T. D. 4258 Logger T. D. 4262

(Attach separate sheets as necessary)

The Coastal Corporation
Well Operator

By: Benjamin Smith

Date: March 18, 1983

4258
2310
1948
1627
345
321

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

5. Under the Last Will and Testament of S.L. Morgan, dated the 24th day of December, 1920, and of record in the aforesaid Clerk's Office in Will Book 7, at page 2, the oil, gas and minerals in and underlying the subject property were completely severed from the surface of the subject property. This opinion relates only to the mineral rights with respect to the subject property, and does not include any judgments, mechanic's liens, deeds of trust or other liens against the surface of the subject property, including real property taxes.

6. Under the above-mentioned Last Will and Testament of S.L. Morgan, and by virtue of a decree in Chancery in and for the County of Wood, dated May 25, 1937, Lottie Grimm, Minnie Yoho and the Heirs of Richard T. Morgan, became vested with equal one-third (1/3) shares of the oil, gas, and minerals in and under the subject property. A number of the individuals who once held an interest in the oil and gas in and underlying the subject property are now deceased, and their respective interests have been inherited by their heirs. There are no estate records in the aforesaid Clerk's Office to enable this examiner to determine the present owners of a portion of the oil and gas in and underlying the subject property. In addition, there have been a number of instruments conveying portions of the oil, gas and minerals in and under the subject property. Based upon the records contained in the aforesaid Clerk's Office, the current ownership of the oil and gas in and underlying the subject property is as follows:

Ernest Grimm	1/9
Helen G. Powell	1/9
Ernest Walter Phillips	1/18
Berthtal Phillips	1/18
P. M. Yoho	1/6
Edith Sheeley	1/6
Eugene P. Jennings	1/30
Carl M. Jennings	1/30
Richard M. Jennings	1/30
Mickey P. Jennings	1/30
Junior M. Jennings (or heirs)	1/30
John R. Morgan Heirs	1/21
Samuel J. Morgan Heirs	1/42
Lulu Morgan Cross	1/42
Graee Morgan Peters	1/42
Gladys Morgan Watkins	1/42
Amos E. Morgan HHeirs	1/42

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OIL AND GAS DEPARTMENT
WV DEPARTMENT OF REVENUE

REQUIREMENT: Affidavits of Heirship must be obtained from individuals having person knowledge of the family histories and the heirs, legatees and devisees of Samuel J. Morgan, Virginia Morgan Jennings, John R. Morgan, Amos E. Morgan, and Junior M. Jennings (if, in fact, he is deceased). These affidavits must then be recorded in the aforesaid Clerk's Office in order to complete the record with respect to the current ownership of the minerals in and underlying the subject property.



1) Date: December 13, 1982
2) Operator's Well No. Leland/Jennings/Horner
3) API Well No. 47 103 1273
State WV County Putnam Permit 1273

DRILLING CONTRACTOR:
The Coastal Corporation
3501 Emerson Ave. #4B
Parkersburg, WV 26104

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil XX / Gas XX /
B (If "Gas", Production XX / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 645.95 Watershed: Fishing Creek
District: Green County: Putnam Quadrangle: Porters Falls
- 6) WELL OPERATOR The Coastal Corporation 11) DESIGNATED AGENT William S. Carpenter
Address 3501 Emerson Ave. #4B Address 3501 Emerson Ave. #4B
Parkersburg, WV 26104 Parkersburg, WV 26104
- 7) OIL & GAS ROYALTY OWNER Jennings, et. al. 12) COAL OPERATOR N/A
Address Maple Avenue Address
New Martinsville, WV 261055
- 8) SURFACE OWNER Phillips, Yoho, et. al. 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Address Maple Avenue Name N/A
New Martinsville, WV 26155 Address
Acreage 166 Name
Address
- 9) FIELD SALE (IF MADE) TO:
Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Lowther 14) COAL LESSEE WITH DECLARATION ON RECORD:
Address Middlesboro, WV Name N/A
Address
- 15) PROPOSED WORK: Drill XX / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Gordon Shale
- 17) Estimated depth of completed well, 4000 feet
- 18) Approximate water strata depths: Fresh, 30 feet; salt, 600 feet.
- 19) Approximate coal seam depths: 200 & 500 Is coal being mined in the area? Yes / No XX

20) 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	11 3/4"	ERW	21.5		X	45'	45'	surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	5 5/8"	ERW	20	X		1150'	1150'	to surface	
Production	4 1/2"	ERW	9.50	X		3200'	3200'	150 sacks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

21) EXTRACTION RIGHTS

Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) 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.

Notary:
My Commission Expires

Signed:
Its: PRESIDENT

OFFICE USE ONLY

Permit number 47-103-1273 **DRILLING PERMIT** Date December 13 1982

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires August 20, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee

Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) 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.

.....

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.

WAIVER

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 _____