

6/19/82

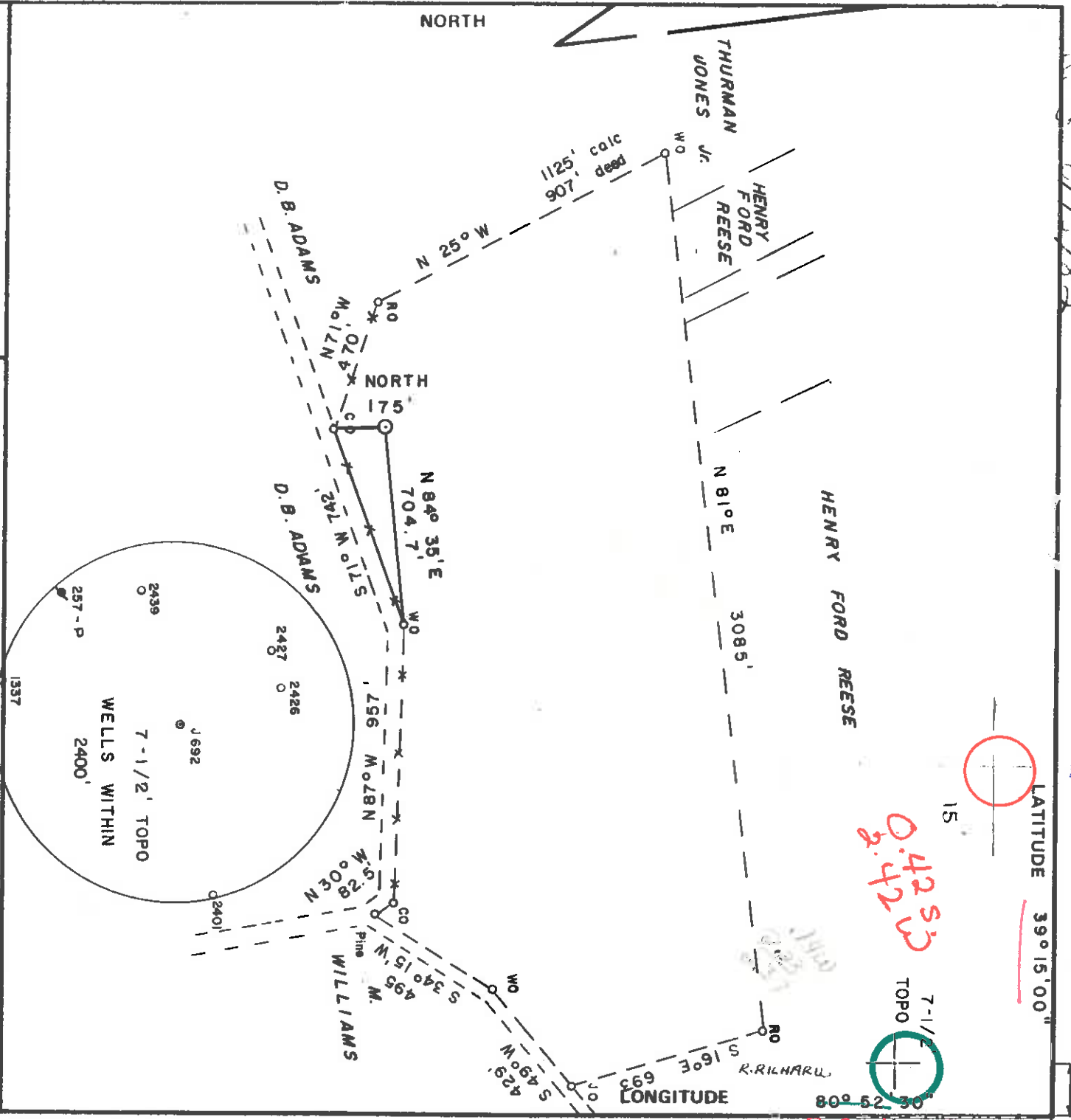
LATITUDE 39° 15' 00"

LONGITUDE 80° 52' 30"

0.42 S.D.
2.42 S.D.

7-1/2' TOPO

51-1508



FILE NO. _____
 DRAWING NO. 81-894-L
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 854 - 2000'
 N. W. of SITE _____

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) John R. Rife
 R.P.E. 5566 L.L.S. _____

PLACE SEAL HERE

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

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE JUNE 4, 1982
 OPERATOR'S WELL NO. J-692
 API WELL NO. 47-017-
 STATE 47 COUNTY 017 PERMIT 3111



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1160 WATER SHED LEASEON RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE
 QUADRANGLE PULLMAN See Book 151 DC
 SURFACE OWNER HENRY REESE & RYAN RESEWICK CREAGE 22
 OIL & GAS ROYALTY OWNER MAXWELL HEIRS LEASE ACREAGE 67.25
 LEASE NO. M-650
 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 ALEXANDER ESTIMATED DEPTH 5400
 WELL OPERATOR J J ENTERPRISES INC DESIGNATED AGENT H.L. BARNETT
 ADDRESS BOX 48 BUCKHANNON, W.VA. 26201 ADDRESS BOX 48 BUCKHANNON, W.VA. 26201

JUL 1 1982



IV-35
(Rev 8-8-84)
RECEIVED

APR 18 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date April 13, 1984
Operator's J-692
Well No.
Farm Maxwell Heirs
API No. 47-017-3111-R

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

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

LOCATION: Elevation: 1160 Watershed Leason Run
District: Central County Doddridge Quadrangle Pullman

COMPANY J&J Enterprises, Inc.

ADDRESS P.O. Box 48, Buckhannon, WV 26201

DESIGNATED AGENT Richard Reddecliff
ADDRESS P.O. Box 48, Buckhannon, WV 26201

SURFACE OWNER Henry R. & Mary Lou Reese Wheeler
ADDRESS Rt. 1, Box 44, Greenwood, WV 26360

MINERAL RIGHTS OWNER Maxwell Heirs

ADDRESS C/O Union National Bank, Clarksburg, WV
OIL AND GAS INSPECTOR FOR THIS WORK Stephen

Casey ADDRESS Rt. 2, Box 232-D, Jane Lew, WV 26378

PERMIT ISSUED 10/12/83

DRILLING COMMENCED 2/27/84

DRILLING COMPLETED 3/5/84

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

Casing Tubing Size	Used in	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	24	0	0 sks.
9 5/8			
8 5/8	1369.90	1369.90	295 sks.
7			
5 1/2			
4 1/2	5486.99	5486.99	205 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5350-5394 feet

Depth of completed well feet Rotary / Cable Tools

Water strata depth: Fresh 725 feet; Salt 0 feet

Coal seam depths: 235-40 Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5350-94 feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Combined Final open flow 539 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1500 psig(surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)

Second producing formation Riley Pay zone depth 4676-96 feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: 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

MAY 7 1984

(Continue on reverse side)

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

Alexander: Perforations: 5350-94 (12 holes)
Fracturing: 450 sks. 20/40 sand: Foam frac
Riley: Perforations: 4636-96 (10 holes)
Fracturing: 350 sks. 20/40 sand: Foam frac

BOTTOM HOLE PRESSURE Pf=Pwe XGLS 1 1
 $t=60+(0.0075 \times 5487)+459.7 = 561$ $X=53.35 \times 561 = 29921$ $= 0.000033$ Pf=1500 x 2.72 (0.000033)
 (0.704) (5035) (0.9) = 1500 x 2.72^{0.10} = 1500 x 1.1

Pf=1650

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Clay & red rock			0	45	
Red rock, sand & shale			45	190	Damp @ 1695
Red rock, shale & sand			190	315	
Shale, red rock & sandy shale			315	495	Gas ck @ 2346 No show
Shale & red rock			495	650	
Sandy shale & red rock			650	780	
Sand & shale			780	895	Gas ck @ 2570 No show
Shale, red rock & sand			895	1000	
Shale & red rock			1000	1150	
Sand, shale & red rock			1150	1200	Gas ck @ 3560 No show
Sand, shale & red rock			1200	1380	
Sand & shale			1380	1750	Gas ck @ 3973 NO show
Sand & shale			1750	2005	
Shale & sand			2005	2100	
Big Lime			2100	2200	
Injun			2200	2245	Gas ck @ collars 2/10-1" w/water 10,650 cu.ft.
Shale & sand			2245	2965	
Sandy shale & sand			2965	3240	
Sand, shale & sandy shale			3240	4676	
Riley			4676	4696	
Shale			4696	5350	
<u>Alexander</u>			5350	5394	
Sand & shale			5394	<u>5670</u>	T.D.

(Attach separate sheets as necessary)

T&J Enterprises, Inc.

Well Operator

By: 

Date: 4/13/84

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
 water, encountered in the drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

1) Date: September 9, 1983
2) Operator's Well No. J-692 (Renewed)
3) API Well No. 47 - 017 - 3111-REN
State of West Virginia Permit
Old No. 3111-REN
RECEIVED
SEP 12 1983

4) WELL TYPE: A Oil / Gas / B (If "Gas", Production / Underground storage / Deep OIL & GAS DIVISION MINES
5) LOCATION: Elevation: 1160 Watershed: Leason Run
District: Central County: Doddridge
6) WELL OPERATOR J&J Enterprises, Inc. 7) DESIGNATED AGENT Richard Reddecliff
Address: P.O. Box 48 Buckhannon, WV 26201
8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
Name: Stephen Casey Name: S.W. Jack Drilling Co.
Address: Rt. # 2, Box 232-D Address: P.O. Box 48
Jane Lew, WV 26378 Buckhannon, WV 26201

10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate / Perforate new formation / Plug off old formation Other physical change in well (specify) **RECEIVED**

11) GEOLOGICAL TARGET FORMATION, Alexander
12) Estimated depth of completed well, 5400 feet
13) Approximate traas depths: Fresh, 80,200 feet; salt, 0 feet.
14) Approximate coal seam depths: NONE Is coal being mined in the area? Yes OIL AND GAS DIVISION WV DEPARTMENT OF MINES

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	Kind	
Conductor	11 3/4	H-40	42	X		30	0	0 SKS.	
Fresh water	8 5/8	ERM	23	X		1500	1500	To surface	
Coal	8 5/8	ERM	23	X		1500	1500	To surface	By rule 1505
Intermediate									
Production	4 1/2	J-55	10.5	X		5350	5350	325 SKS.	Depths set
Tubing									Perforations:
Layers									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3111-REN Date October 12, 1983

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
Permit expires October 12, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <i>BB</i>	Agent: <i>OK</i>	Plat: <i>BB</i>	Casing: <i>BB</i>	Fee: <i>221</i>
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[Signature]
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.
See the reverse side of the APPLICANT'S COPY for instructions to the well operator. File

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

June 16, 1982, 19

State County Per

API Well No. 47 - 017 3111

WELL TYPE: Oil Gas /
(If "Gas", Production / Underground storage / Deep / Shallow /
LOCATION: Elevation: 1160 Watershed: Leason Run
District: Central County: Doddridge Quadrangle: Pullman

WELL OPERATOR J&J Enterprises, Inc.

DESIGNATED AGENT H.L. Barnett

Address P.O. Box 48
Buckhannon, WV 26201

Address P.O. Box 48
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER

Maxwell Heirs
C/O The Union National Bank
Clarksburg, WV 26301

COAL OPERATOR

Address:

Acreage 67.25

SURFACE OWNER Henry R. Reese Emary Lou Reese
Address Rt. # 1, Box 44 Wheeler
Greenwood, WV 26360

COAL OWNER(S) WITH DECLARATION ON RECORD:

Name Isabelle Cheon
Address 1010 6th St.
Moundsville, WV 26041

FIELD SALE (IF MADE) TO:

Name Address

Name: Unknown

COAL LESSEE WITH DECLARATION ON RECORD:

Name Address

RECEIVED

JUN 18 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Name Stephen Casey
Address Rt. 2, Box 232-D
Jane Lew, WV 26378

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 9/3, 19 80, et seq. undersigned well operator from Clarence W. Mutschelknaus [If said deed, lease, or other contract has been recorded:]

Recorded on 9/25, 19 80, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil&Gas LeaseBook 117 at page 218. A permit is requested as follows:
PROPOSED WORK: Drill / Drill deeper / Re-drill / 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 § 20-4-3 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 pit 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

J&J Enterprises, Inc. Well Operator

By Peter Battles Geologist

PLASNET BOUND

[08-78]

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Company
 Address Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander
 Estimated depth of completed well, 5400 feet Rotary X / Cable tools /
 Approximate water strata depths: Fresh, 80 feet; salt, 1450 feet.
 Approximate coal seam depths: 0 IS coal being mined in the area: Yes X

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS	FOOTAGE INTERVALS			CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS		
		Wellft per ft	New	Used			For drilling	Left in well
Conductor	11 3/4 H-40	42	X		300'	300'	0 Sks	Kind:
Fresh water	8 5/8 ERW	23	X		1500	1500	TO surface	
Coal	8 5/8 ERW	23	X		1500	1500	TO surface	Sizes
Intermediate								
Production	4 1/2 J-55	10:5	X		5350	5350	325 sks.	Depths set:
Tubing								
Liners								Perforations:
								Top Socks:

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 § 22-4-8a 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,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling **THIS PERMIT SHALL EXPIRE**
3-6-83

IF OPERATIONS HAVE NOT COMMENCED BY
3-6-83

The following signature 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:
MAJNER

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



1) Date: September 2, 1983
 2) Operator's Well No. 2-603
 3) API Well No. 47 State WV County Lincoln Permit 711

DRILLING CONTRACTOR: _____
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 OIL AND GAS WELL PERMIT APPLICATION

4) WELL TYPE: A Oil _____ / Gas _____ /
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____)
 5) LOCATION: Elevation: _____ Watershed: _____
 District: _____ County: _____

6) WELL OPERATOR _____ Address _____
 11) DESIGNATED AGENT _____ Address _____

7) OIL & GAS ROYALTY OWNER _____ Address _____
 12) COAL OPERATOR _____ Address _____

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

9) FIELD SALE (IF MADE) TO: _____ Address _____
 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name _____ Address _____
 Name _____ Address _____

10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name _____ Address _____

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

16) GEOLOGICAL TARGET FORMATION, _____
 17) Estimated depth of completed well, _____ feet
 18) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet;
 19) Approximate coal seam depths: _____ feet; Is coal being mined in the area? Yes _____ / No _____

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	Weight per ft.			For drilling	Kind			
Conductor											Kind
Fresh water											Sizes
Coal											Depth set
Intermediate											Perforations:
Production											Top
Tubing											Bottom
Liners											

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: _____ Signed: _____
 My Commission Expires: _____ Is: _____

OFFICE USE ONLY
DRILLING PERMIT

Permit expires _____ unless drilling is commenced prior to that date and prosecuted with due diligence.
 Permit number: _____
 Agent: _____ Plat: _____ Casing: _____ Fee: _____
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

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 _____