

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF _____
ACCURACY 1/10 1/20
PROVEN SOURCE OF _____
ELEVATION USGS BM-985' BIG ISAAC
USGS BIG ISAAC QUAD

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) *Janet*
R.P.E. *Janet* L.L.S. 664
Carbon Survey & Consulting, Inc.



WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
#10 McJUNKIN ROAD
NITRO, WEST VIRGINIA 25143-2506



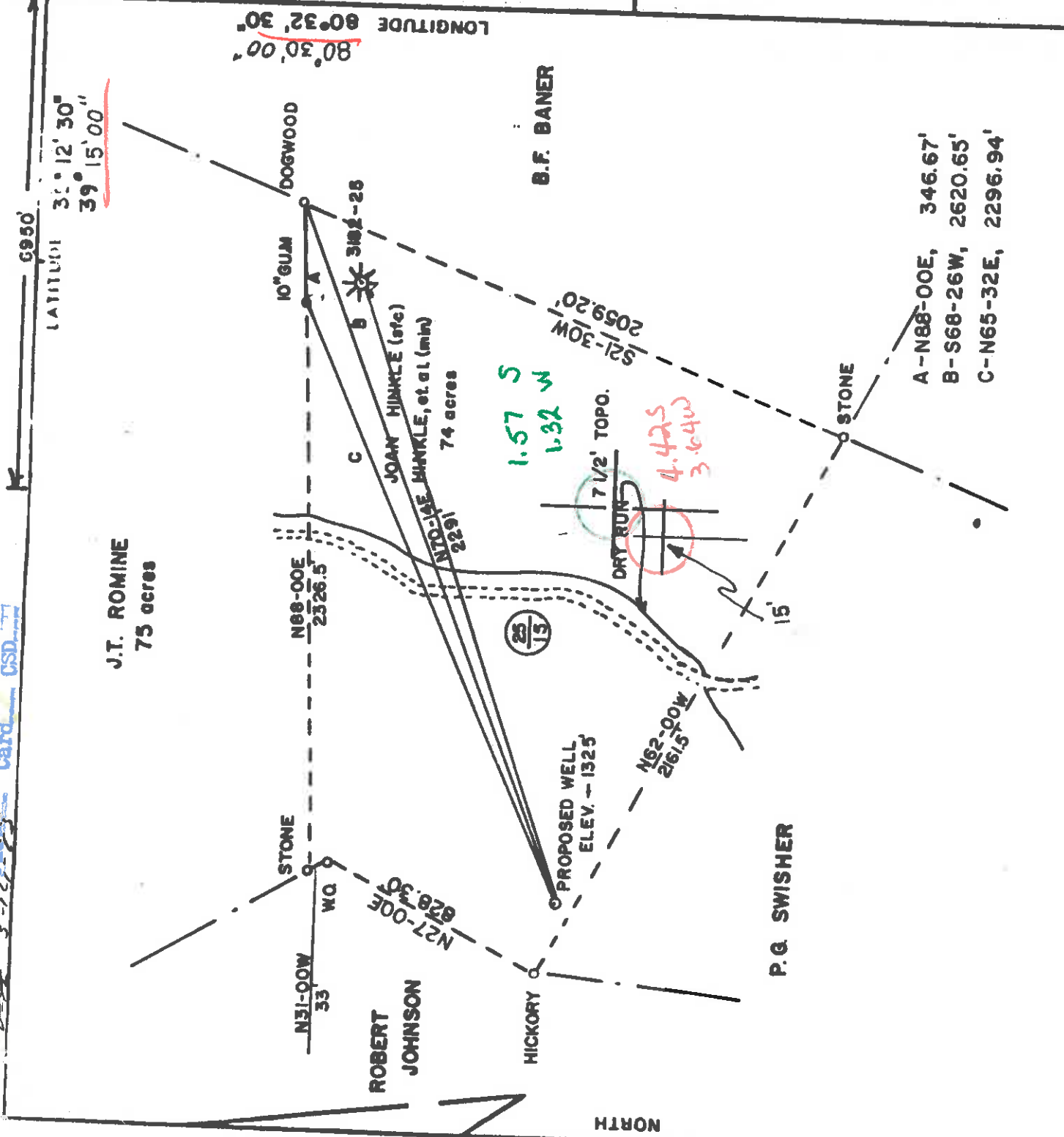
DATE JANUARY 24, 19 83
OPERATOR'S WELL NO. ROMINE - 2
API WELL NO. WK-243
47 - 017 - 03210
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1325' WATER SHED DRY FORK
DISTRICT GREENBRIAR COUNTY DODDRIDGE
QUADRANGLE BIG ISAAC
SURFACE OWNER JOAN M. HINKLE ACREAGE 74
OIL & GAS ROYALTY OWNER JOAN M. HINKLE, et al LEASE ACREAGE 74
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 *Existing well shut in by paper on 1/13/70. 500' horizontal well at top of 1st zone of Devonian shale. 1st zone of Devonian shale. 1st zone of Devonian shale.*
PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5500'
Lone Pine Operating Company, Inc. David Cochran

Dodd - 3210 W

Plot Card CSD-77



80°30'00" LONGITUDE 80°32'30" LATITUDE 31°12'30" 39°15'00" 6950

J.T. ROMINE
75 acres

ROBERT JOHNSON

HICKORY

P.G. SWISHER

25/15

1.57 S
1.32 W

PROPOSED WELL
ELEV. - 1325

7 1/2' TOPO.

4.475
3.640

A-N68-00E, 346.67'
B-S68-26W, 2620.65'
C-N65-32E, 2296.94'

521-30W
2059.20

10" GUM

DOGWOOD

A

B

C

JOAN HINKLE (etc)

N70-14E HINKLE, et al (min)

74 acres

2291

3102-25

STONE

15'

10" GUM

DOGWOOD

B.F. BANER

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/10 100
 PROVEN SOURCE OF ELEVATION USGS BM-98.5' BIG ISAAC
 USGS BIG ISAAC QUAD

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

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) Joan M. Hinkle
 R.P.E. Joan M. Hinkle L.L.S. 664
Karcher Survey & Consulting, Inc.



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1325' WATER SHED DRY FORK

DISTRICT GREENBRIAR COUNTY DODDRIDGE

QUADRANGLE BIG ISAAC Value is 06

SURFACE OWNER JOAN M. HINKLE

OIL & GAS ROYALTY OWNER JOAN M. HINKLE, et al ACREAGE 74 LEASE ACREAGE 74

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 DEVONIAN SHALE ESTIMATED DEPTH 5500

WELL OPERATOR KEPCO, INC. DESIGNATED AGENT E.L. STUART (147)

ADDRESS 436 BOULEVARD OF THE ALLIES A.C. # 15218 P.O. BOX 1550

MAR 28 1983

DATE JANUARY 24, 1983
 OPERATOR'S WELL NO. ROMINE-2
 API WELL NO. WK-243

47 - 017 - 3210

STATE VA COUNTY WV

PERMIT

PLACE SEAL HERE

1175 - 1101

RECEIVED
Office of Oil & Gas
Permitting
JUL 19 2000
WV Division of
Environmental Protection

DATE: June 19, 2000
API #: 47-017-3210
State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: Romins Operator Well No.: #2
LOCATION: Elevation: 1325 Quadrangle: Big Isaac
District: Greenbrier County: Doddridge
Latitude: Feet South of _____ Deg. Min. Sec.
Longitude: Feet West of _____ Deg. Min. Sec.

Company: Lore Pine Operating Co.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>RT 2 Box 203</u>				
<u>Bristol, WV 26332</u>				
<u>Agent: David Cochran</u>				
<u>Inspector: Mike Underwood</u>				
<u>Date Permit Issued: 6-5-98</u>				
<u>Date Well Work Commenced: 6-7-98</u>				
<u>Date Well Work Completed: 7-20-98</u>				
<u>Verbal Plugging:</u>				
<u>Date Permission granted on:</u>	<u>4 1/2</u>	<u>Squeezed</u>		<u>155 S/KS</u>
<u>Rotary Cable Rig</u>				
<u>Total Depth (feet):</u>				
<u>Fresh Water Depth (ft.):</u>				
<u>Salt Water Depth (ft.):</u>				
<u>Is coal being mined in area (Y/N)?</u>				
<u>Coal Depths (ft.):</u>				

OPEN FLOW DATA

Producing formation 4th 5th Pay zone depth (ft) 2914'
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 677 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 8 hrs Hours
 Static rock Pressure 170 psig (surface pressure) after 24 Hours
 Second producing formation border Pay zone depth (ft) 2839'
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 550 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 100 psig (surface pressure) after 8 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: David Cochran
 By: DAVID Cochran
 Date: 6-19-2000

0000 3210

AUG 11 2000

Squeezed $4\frac{1}{2}$ w/155 SKS

Cement Top @ 1844'

10 Holes 4th 5th Sand

2914' shale
2946 shale

6 Holes Gordon 2839'



RECEIVED
DEC 8 - 1983

Date October 26, 1983
Operator's Well No. WK-243
State of West Virginia
Department of Mines
Oil and Gas Division
Farm Romine
API No. 47 - 017 - 3210

OIL & GAS DIVISION
DEPT. OF MINES

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: 1325' Watershed Dry Fork
District: Greenbrier County Doddridge Quadrangle Big Isaac

COMPANY Keppo, Inc.
ADDRESS 436 Boulevard of the Allies
Pittsburgh, PA 15219
DESIGNATED AGENT E. L. Stuart
ADDRESS P.O. Box 1550
Clarksburg, WV 26301
SURFACE OWNER Joan M. Hinkle
ADDRESS 571 Worthington Drive
Bridgeport, WV 26330
MINERAL RIGHTS OWNER Joan M. Hinkle
ADDRESS 571 Worthington Drive
Bridgeport, WV 26330

OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey
ADDRESS Good Hope Road
Jane Lew, WV

PERMIT ISSUED March 26, 1983
DRILLING COMMENCED June 1, 1983
DRILLING COMPLETED June 6, 1983

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

GEOLOGICAL TARGET FORMATION Alexander

Depth of completed well 5609 feet Rotary x / Cable Tools _____ Depth 5480 feet
Water strata depth: Fresh 240 feet; Salt _____ feet
Coal seam depths: _____ feet

Is coal being mined in the area? No _____

OPEN FLOW DATA

Producing formation Alexander, Benson, Riley, Balltown
5517', 5143'

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 300 Mcf/d Final open flow 10 Bbl/d

Time of open flow between initial and final tests 8 hours

Static rock pressure 1350 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)

Second producing formation _____

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 3 hours shut in
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1502'	1502'	260 sks pozmix
7			
5 1/2			
4 1/2	5538'	5538'	465 sks pozmix
3			
2			
Liners used			

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

Perfs: 3828' - 3990' - Balltown Avg. Press 2300 psi; Avg. rate 25 BPM
 4612' - 4631' Riley Avg. Press 2200 psi; Avg. rate 20 BPM
 5143' - 5521' Avg. Press 2650 psi; Avg. rate 25 BPM

Fractured June 14, 1983 Benson-5143-5190
Ally-5190-5521
 Halliburton Services 3 stage frac job

1st stage 30,000 lbs. sand
 2nd stage 20,000 lbs. sand
 3rd stage 25,000 lbs. sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Top soil			0'	5'	
Sand			5'	15'	
Red rock			15'	17'	
Sand and shale			17'	40'	
Shale			40'	80'	
Sand and shale			80'	137'	
Sand			137'	180'	
Sand and shale			180'	335'	
Red rock and shale			335'	470'	
Sand and shale			470'	570'	
Red rock and shale			570'	655'	
Sand and shale			655'	1040'	
Shale and red rock			1040'	1120'	
Shale and shale			1120'	1140'	
Shale			1140'	1330'	
Sand and shale			1330'	2250'	From Driller's Log
Big Lime			2250'	2322'	From Electric Log
Big Injun Sand			2322'	2404'	
Shale			2404'	2628'	
Weir Sand			2628'	2652'	
Shale			2652'	2839'	
Gordon Sand			2839'	2852'	
Sand and shale			2852'	2914'	
4th Sand			2914'	2928'	
Shale			2928'	2946'	
5th Sand			2946'	2968'	
Shale			2968'	3146'	Gas
Bayard Sand			3146'	3156'	
Shale			3156'	3570'	
Speechley			3570'	3574'	
Shale			3574'	3829'	Gas
Balltown			3829'	3990'	
Shale			3990'	4612'	
Riley			4612'	4636'	
Shale			4636'	5140'	Gas
Benson			5140'	5190'	
Shale			5190'	5480'	
Alexander			5480'	5520'	Gas
Shale			5520'	5609'	
TD			5609'		

(Attach separate sheets as necessary)

Keppo, Inc.
 Well Operator
 By: [Signature] Operations Manager
 Date: October 26, 1983

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
 strata, encountered in the drilling of a well."



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

DRILLING CONTRACTOR: _____ State _____ County _____ Permit _____

- 1) Date: Feb. 7, 1963 19
2) Operator's Well No. 10516 22 UK-763
3) API Well No. 47 State _____ County _____ Permit _____

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil _____ Gas _____
B (If "Gas", Production _____)
5) LOCATION: Elevation: 1123 Underground storage _____ Deep _____ Shallow _____
District: _____ Watershed: Doddridge
6) WELL OPERATOR _____ County: _____ Quadrangle: _____
Address _____ Address _____
7) OIL & GAS ROYALTY OWNER _____
Address _____
Acreage _____
8) SURFACE OWNER _____
Address _____
Acreage _____
9) FIELD SALE (IF MADE) TO: _____
Address _____

- 10) OIL & GAS INSPECTOR TO BE NOTIFIED _____
Name _____ Address _____
11) DESIGNATED AGENT _____
Name _____ Address _____
12) COAL OPERATOR _____
Name _____ Address _____
13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____ Address _____
Name _____ Address _____
14) COAL LESSEE WITH DECLARATION ON RECORD:
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: _____ Is coal being mined in the area? Yes _____ No _____

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.			
Conductor	13-1/2"			For drilling	Left in well	Kinds
Fresh water						Sizes
Coal						Depths set
Intermediate Production						Perforations:
Tubing						Top
Liners						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
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 number _____ Date _____ 19

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 NOVEMBER 20, 1963 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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NOTE: Keep one copy of this permit posted at the drilling location.
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 _____