

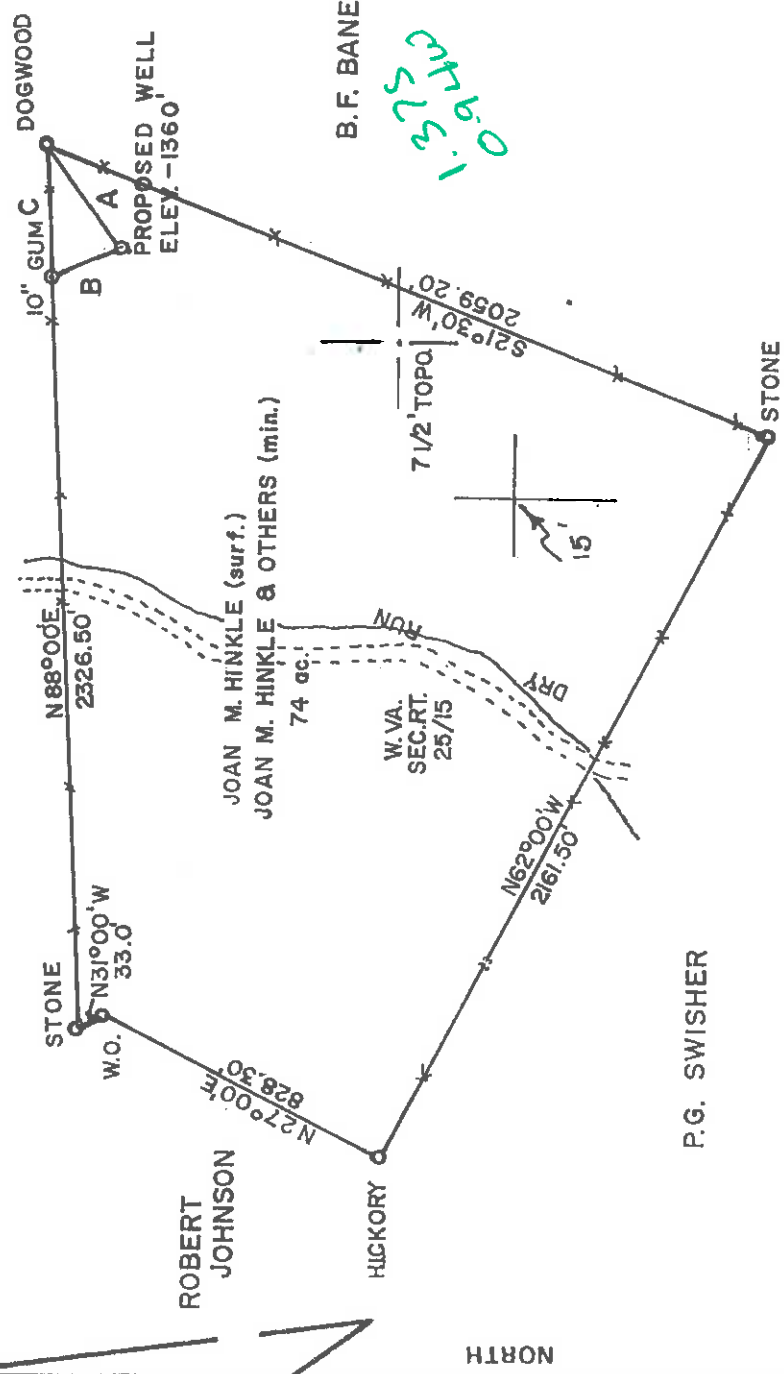
117. 10/30/50

5000

LATIT. 39° 12' 30" 39° 15'

LONGITUDE 80° 32' 30" 80° 30'

J.T. ROMINE  
75 acres

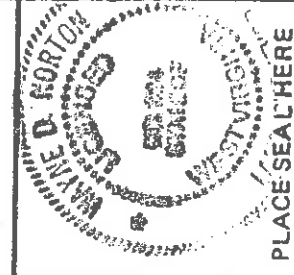


A = S 56° 03' W, 338.25'  
 B = N 20° 26' W, 188.81'  
 C = N 88° 00' E, 346.69'

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF \_\_\_\_\_  
 ACCURACY 1/10 200  
 PROVEN SOURCE OF \_\_\_\_\_  
 ELEVATION USGS BM 995  
 BIG ISAAC

(+) 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) *Wayne D. Foltz*  
 R.P.E. L.L.S. 624  
*Kachon Surveys & Consulting, Inc.*



PLACE SEAL HERE



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE AUGUST 25, 1982  
 OPERATOR'S WELL NO. ROMINE - 1  
 API WELL NO. WK-248  
 47-017-03182 F  
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1360 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 and others 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 ON DEVONIAN SHALE ESTIMATED DEPTH 5500'  
 WELL OPERATED BY KEPCO, INC. DESIGNATED AGENT E.L. STUART  
 ADDRESS 436 BOULEVARD of the ALLIES ADDRESS P.O. BOX 1550  
 PITTSBURGH, PA. 15219 CLARKSBURG, WV 26301

Lone Pine Operating Co.

Dodd - 3182 F

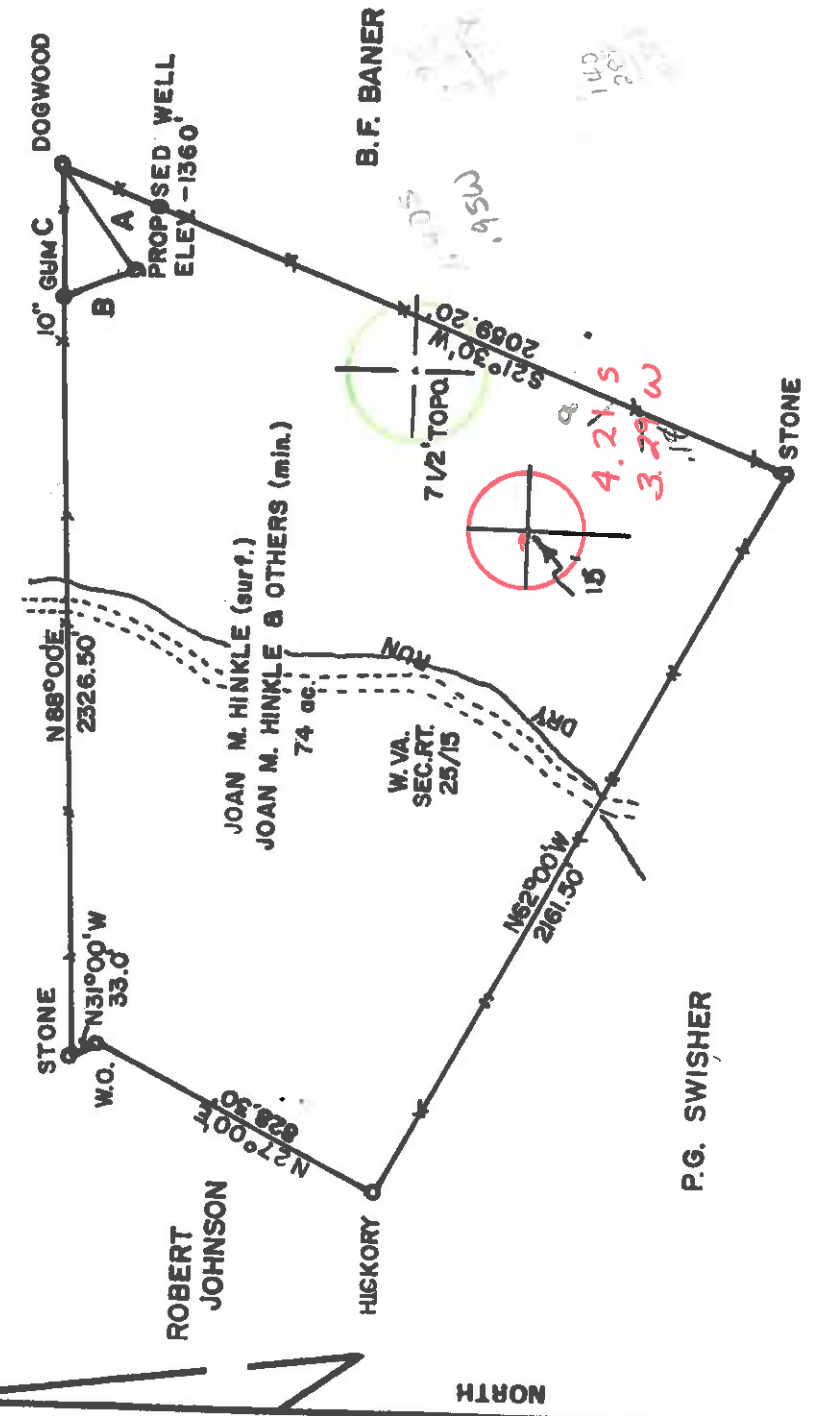
JUL 20 1982

MA 10/30/82

5000' LATIT. 39° 12' 30" 39° 15' LONGITUDE 80° 32' 30" 80° 20'

Plot of Card CSD

J.T. ROMINE  
75 acres



A = S 56° 03' W, 338.25'  
 B = N 20° 26' W, 188.81'  
 C = N 88° 00' E, 346.69'

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/10 100  
 PROVEN SOURCE OF ELEVATION USGS BM 986  
 BIG ISAAC

(+) 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) *Walter V. Pugh*  
 R.P.E.  
*Walter V. Pugh*  
 Macha Survey & Consulting, Inc. L.L.S. 624



PLACE SEAL HERE  
 DATE AUGUST 25 1982  
 OPERATOR'S WELL NO. ROMINE - 1  
 API WELL NO. WK-248  
 47-017 STATE COUNTY PERMIT  
 3182

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 1300 WATER SHED DRY FORK  
 DISTRICT GREENBRIAR COUNTY DODDRIDGE  
 QUADRANGLE BIG ISAAC 7 1/2 VADIS 15' NE  
 SURFACE OWNER JOAN M. HINKLE  
 OIL & GAS ROYALTY OWNER JOAN M. HINKLE and others ACREAGE 74 LEASE NO. \_\_\_\_\_ 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' 9-4 SPD-Belttown  
 WELL OPERATOR KEPCO, INC. DESIGNATED AGENT E.L. STUART Big Isaac (147)  
 ADDRESS 436 BOULEVARD of the ALLIES ADDRESS P.O. BOX 1550  
 PITTSBURGH, PA. 15219 CLARKSBURG, WV 26301  
 NOV 15 1982



WR-35

DATE: June 19, 2000  
API #: 47-017-0318a

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Reviewed

Well Operator's Report of Well Work

Farm name: Romine Operator Well No.: # 1

LOCATION: Elevation: 1360 Quadrange: Big F590

District: Greenbrier County: Doddridge  
Latitude:      Feet South of      Deg. Min.      Sec.       
Longitude:      Feet West of      Deg. Min.      Sec.     

Company: Loas Pine Operating Co.

Address: <u>Rt 2 Box 203</u>	Used in drilling	Yield in well	Cement fill
Agent: <u>Bristol WU 26232</u>		RECEIVED	Office of Oil & Gas
Inspector: <u>David Cochran</u>		Permitting	
Date Permit Issued: <u>7-16-99</u>		<u>JUL 19 2000</u>	
Date Well Work Commenced: <u>7-18-98</u>			Division of
Date Well Work Completed: <u>8-20-98</u>			Environmental Protection
Verbal Plugging:			
Date Permission granted on: <u>4 1/2</u>			
Rotary Cable Rig			<u>140 SKs</u>
Total Depth (feet):			
Fresh Water Depth (ft.):			
Salt Water Depth (ft.):			
Is coal being mined in area (NY)?			
Coal Depths (ft.):			

OPEN FLOW DATA

Producing formation 4<sup>th</sup> 5<sup>th</sup> Pay zone depth (ft) 2950' 8 Holes  
Gas: Initial open flow      MCF/d Oil: Initial open flow      Bbl/d  
Final open flow 731 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 3 Hours  
Static rock Pressure 135 psig (surface pressure) after 48 Hours

Second producing formation      Pay zone depth (ft)       
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 pressure) after      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

D000 3182

AUG 11 2000

Squeeze  $H\frac{1}{2}$  w/ 140 SKs Cement  
Cement Top @ 1745'  
8 Holes in 4 of 5 th Sand  
2845' 2951'  
4hls 4holes

RECEIVED

IV-35  
(REV 8-81)

FEB 14 1983

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES



Date January 21, 1983  
Operator's  
Well No. Romine #1 WK-248  
Farm J. M. Hinkle  
Department of Mines  
Oil and Gas Division API No. 47-017 - 3182

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: 1360' Watershed Dry Fork  
District: Greenbrier County Doddridge Quadrangle Big Isaac

COMPANY Kepco, Inc.  
ADDRESS 436 Boulevard of the Allies  
Pittsburgh, PA 15219  
DESIGNATED AGENT E. L. Stuart  
ADDRESS P.O. Box 1550  
Clarksburg, West Virginia 26301  
SURFACE OWNER Joan M. Hinkle  
ADDRESS 571 Worthington Drive  
Bridgeport, West Virginia 26330  
MINERAL RIGHTS OWNER Joan M. Hinkle, et al  
ADDRESS 571 Worthington Drive  
Bridgeport, West Virginia 26301  
OIL AND GAS INSPECTOR FOR THIS WORK Stephen  
Lee Casey ADDRESS Good Hope Rd.  
Jane Lew, WV 26378

PERMIT ISSUED November 4, 1982  
DRILLING COMMENCED November 10, 1982  
DRILLING COMPLETED December 3, 1982

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	30'	30'	10 sks
9 5/8			
8 5/8	1442'	1442'	265 sx poz mix 50 sx Class A
7			
5 1/2			
4 1/2	5600'	5600'	400 sks poz mix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk

Depth of completed well 5824 feet Rotary X / Cable Tools            Depth 5303 feet

Water strata depth: Fresh 155' feet; Salt Reported None feet

Coal seam depths: None Reported Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander; Benson;  
Balltown

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d  
Pay zone depth 5482'; 5148'; feet  
3836'

Final open flow 823 Mcf/d Final open flow 3 Bbl/d

Time of open flow between initial and final tests 8 hours

Static rock pressure 1400 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            hours  
Static rock pressure            psig (surface measurement) after            hours shut in

(Continue on reverse side)



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

Perfs: 5482'-5492' **Alex** 41 holes Avg. press. 2300 psi; Avg. rate 25 BPM  
 5148'-5158' **Benson** 41 holes Avg. press. 2400 psi; Avg. rate 25 BPM  
 3836'-3996' **Balltown** 37 holes Avg. press. 2400 psi; Avg. rate 34 BPM

Fractured: 12-10-82 Halliburton  
 3 stage frac job  
 1st stage 28,000 lbs. 20/40  
 2nd stage 28,000 lbs. 20/40  
 3rd stage 28,000 lbs. 20/40

500 gal. 15% HCl, 15-N, HC-2  
 WC-12, Nitrogen, Cla-Sta

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Fill			0'	15'	Including indication of all fresh and salt water, coal, oil and gas
Sand and shale			15'	290'	
Sand, shale and red rock			290'	780'	155' Freshwater
Shale and sand			780'	965'	
Red Rock			965'	970'	
Sand and shale			970'	1020'	
Red Rock			1020'	1574'	
Sand			1574'	1590'	
Sand and shale			1590'	2212'	
Little lime			2212'	2227'	
Sand and shale			2227'	2266'	
Big Lime			2266'	2303'	
Big Injun			2303'	2412'	
Sand, shale and sandy shale			2412'	2638'	
Weir			2638'	2664'	
Shale and sandy shale			2664'	2849'	
Gordon			2849'	2864'	
Shale			2864'	2887'	
4th			2887'	2946'	
Shale			2946'	2956'	
5th			2956'	3023'	
Shale			3023'	3064'	
Bayard			3064'	3090'	
Shale and sandy shale			3090'	3558'	
Speechley			3558'	3610'	
Shale and sandy shale			3610'	3836'	
Balltown			3836'	4005'	
Shale			4005'	4616'	
Riley			4616'	4642'	
Shale			4642'	4900'	
Riley			4900'	4921'	
Shale			4921'	5147'	
Benson			5147'	5183'	
Shale and sandy shale			5183'	5462'	
Alexander			5462'	5492'	
Shale			5492'	5664'	
Elk			5664'	5721'	
Shale			5721'	5824'	
TD			5824'	5824'	

(Attach separate sheets as necessary)

\_\_\_\_\_ KRPCO, INC.  
 Well Operator  
 By: \_\_\_\_\_ OPERATIONS MANAGER  
 Date: December 21, 1982

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 sand, encountered in the drilling of a well."



1) Date: \_\_\_\_\_, 19\_\_\_\_  
2) Operator's Well No. \_\_\_\_\_  
3) API Well No. 47 \_\_\_\_\_ State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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

DRILLING CONTRACTOR: \_\_\_\_\_

4) WELL TYPE: A Oil \_\_\_\_\_ / Gas \_\_\_\_\_  
B (If "Gas", Production \_\_\_\_\_)  
5) LOCATION: Elevation: \_\_\_\_\_ Undergrnd storage \_\_\_\_\_ Deep \_\_\_\_\_ Shallow \_\_\_\_\_  
District: \_\_\_\_\_ Watershed: \_\_\_\_\_

6) WELL OPERATOR \_\_\_\_\_ County: \_\_\_\_\_ Quadrangle: \_\_\_\_\_  
Address \_\_\_\_\_

7) OIL & GAS ROYALTY OWNER \_\_\_\_\_  
Address \_\_\_\_\_

8) SURFACE OWNER \_\_\_\_\_  
Address \_\_\_\_\_  
Acreage \_\_\_\_\_

9) FIELD SALE (IF MADE) TO: \_\_\_\_\_  
Address \_\_\_\_\_  
Acreage \_\_\_\_\_

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: \_\_\_\_\_ 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.	New	Used		
Conductor							_____
Fresh water							_____
Coal							_____
Intermediate							_____
Production							_____
Tubing							_____
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 lessee(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines and Reclamation, West Virginia.

Notary: \_\_\_\_\_ Signed: \_\_\_\_\_  
My Commission Expires \_\_\_\_\_ Its: \_\_\_\_\_

Permit number \_\_\_\_\_  
OFFICE USE ONLY  
DRILLING PERMIT \_\_\_\_\_  
Date \_\_\_\_\_

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 \_\_\_\_\_ unless drilling is commenced prior to that date and prosecuted with due diligence.  
Bond: \_\_\_\_\_ 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 \_\_\_\_\_