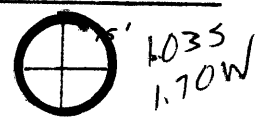
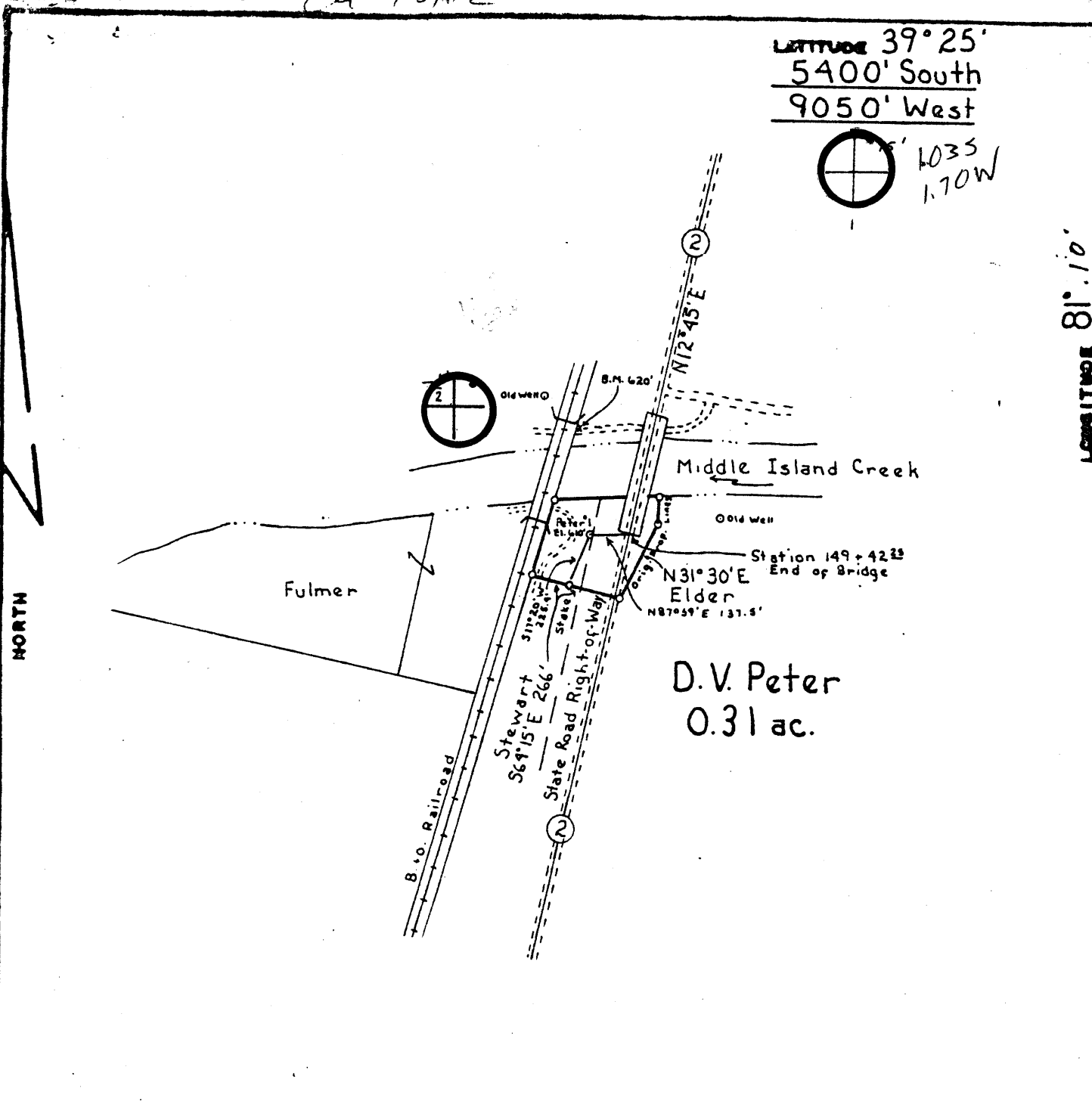


CG 12/12

LATITUDE 39° 25'
5400' South
9050' West



LONGITUDE 81° 10'



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION B.M. Bridge El. 620'

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) *William R. Stratopore*
R.P.E. _____ L.L.S. 551

PLACE SEAL HERE

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



DATE 26 Nov, 1980
OPERATOR'S WELL NO. Peter #1
API WELL NO. 47-073-1084
STATE COUNTY PERMIT

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 610' WATER SHED Middle Island Creek
DISTRICT Washington COUNTY Pleasants
QUADRANGLE Raven Rock, W. Va. 7 1/2 Quad. St. Marys W.V.
SURFACE OWNER Dorothy Virginia Peter ACREAGE 0.31 (accessor's office)
OIL & GAS ROYALTY OWNER Dorothy Virginia Peter LEASE ACREAGE 0.31
LEASE NO. _____
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUS AND ABANDON _____ CLEAN OUT AND REPLUS _____
TARGET FORMATION Devonian Shale ESTIMATED DEPTH 4500'
WELL OPERATOR Rare Earth Energy, Corp. DESIGNATED AGENT William R. Stratopore
ADDRESS 14 Meadow Lane ADDRESS 14 Meadow Lane
Bridgeport, W. Va. 26330 Bridgeport, W. Va. 26330

JAN 13 1981

CG St Marys (77)



IV-35
(Rev 8-81)

Date 10/14/81
Operator's
Well No. Peters #1
Farm *****
API No 47 - 073 - 1084 REN

State of West Virginia
Department of Mines
Oil and Gas Division

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

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

LOCATION: Elevation: 610' Watershed Upper Ohio
District: Washington County Pleasants Quadrangle Raven Rock

COMPANY RARE EARTH ENERGY, INC.
ADDRESS P.O. BOX 172, CLARKSBURG, WV
DESIGNATED AGENT William R. Spatafore
ADDRESS 14 Meadow Lane, Bridgeport, WV
SURFACE OWNER Dorothy Peters
ADDRESS Second Street, St. Marys, WV
MINERAL RIGHTS OWNER same as above
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Phil Tracy
ADDRESS Rt 23, Alma, WV 26320
PERMIT ISSUED 9/8/81
DRILLING COMMENCED 9/23/81
DRILLING COMPLETED 10/3/81
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	70'	all	
9 5/8			
8 5/8	725'	all	90 sacks
7			
5 1/2			
4 1/2	4600'	*****	20 sacks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4634 feet
Depth of completed well 4634 feet Rotary XX / Cable Tools _____
Water strata depth: Fresh 241 feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA
Producing formation Up Du + Huron Devonian Shale Pay zone depth 4000 feet
Gas: Initial open flow 100,000 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 325 psig (surface measurement) after _____ 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 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)

(REVERSE)

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

PERFORATION: ~~3980' to 4311'~~ Huron # of Shots: 27 holes
2194' to 3488' up Dev → Huron 33 holes
(Bad cement job, jo frac)

FORMATION FRACTURED: Devonian Shale & Bension

BREAK DOWN PRESSURE: Bottom zone 1250#

AVERAGE TREATING PRESSURE: 2300#

AVERAGE RATE: 34bbls/min

ISIP: 1500#

WATER: 229 bbls

5 MIN: 1250#

SAND: 15,000 pds. 81/100

45,000 pds 20/40

NITROGEN: 800,000

TYPE OF FRAC: 75% Foam Frac

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	13	
Sand, Shale			13	42	
Sand			42	79	
Sand, Shale			79	241	
Sand			241	607	Fresh Water, 1" 200'
Sand, Shale			607	1381	Fresh Water, 1" 800'
Big Lime			1381	1542	
Sand, Shale			1542	1600	
Weir			1600	1641	
Sand, Shale			1641	1802	
Berea			1802	1808	
Sand, Shale			1808	2076	
Gantz			2076	2098	
Sand, Shale			2098	2195	
Gordon			2195	2208	Show of gas
Sand, Shale			2208	4302	
Benson			4302	4308	Show of gas
Sand, Shale			4308	4634 T.D.	
				T.D. in Angola	
					4634 3980
					1808 1808
					28 26 21 72

(Attach separate sheets as necessary)

Well Operator _____

By: _____

Date: _____

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 coal, encountered in the drilling of a well."



Date: September 4, 19 81

Operator's
Well No. Peter #1

API Well No. 47 . 073 . 1084-REN.

State County Permit

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

OIL AND GAS WELL PERMIT

WELL TYPE: Oil XXXX / Gas XXXX /
(If "Gas", Production / Underground storage / Deep / Shallow XXXX /)

LOCATION: Elevation: 610 Watershed: Upper Ohio
District: Wash. County: Pleasant County Quadrangle: Raven Rock

WELL OPERATOR Rare Earth Energy, Inc. DESIGNATED AGENT William R. Spatafore
Address PO Box 172, Address 14 Meadow Lane
Clarksburg, West Virginia Bridgeport, West Virginia

OIL & GAS ROYALTY OWNER D.V. Peter
Address Second Street
St. Mary's, West Virginia

COAL OPERATOR
Address

Acreage 1
SURFACE OWNER Dorothy V. Peter
Address Second Street
St. Mary's, West Virginia

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

RECEIVED

Acreage 1
FIELD SALE (IF MADE) TO:
Address

Name
Address
SEP 8 - 1981
OIL AND GAS DIVISION
DEPARTMENT OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED
Name P. Tracy
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease
other contract / dated , 19 , to the undersigned well operator from

(IF said deed, lease, or other contract has been recorded:)
Recorded on , 19 , in the office of the Clerk of the County Commission of County, West
Virginia in Book at page . A permit is requested as follows:

PROPOSED WORK: Drift / 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 COMMIS-
SION
1615 WASHINGTON
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

Rare Earth Energy
Well Operator
By
Its

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) _____

Address _____

GEOLOGICAL TARGET FORMATION, Ohio Shale

Estimated depth of completed well, 5000' feet Rotary XXXX / Cable tools _____ /

Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.

Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No _____ /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor	10'			XXX		20'	20'	to surface	Kinds
Fresh Water	8 5/8		20	XXX					
Coal	8 5/8		20	XXX		700'	700'	to surface	Sizes
Intermediate									
Production	4 1/2		555	XXX		5000'	5000'		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-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, of the W. Va. Code, the location is hereby approved for drilling renewed. This permit shall expire if operations have not commenced by 5-11-82.

[Signature]
Deputy Director - Oil & Gas Division

[Signature]

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 _____

OIL AND GAS WELL PERMIT APPLICATION

API No. 47-073 1084

State County Permi

WELL TYPE: Oil / Gas
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow

LOCATION: Elevation: 610 Watershed: Upper Ohio

District: Wash County: Pls Quadrangle: Raven Rock

WELL OPERATOR RARE earth energy DESIGNATED AGENT Wm SpinaDore

Address 14 Meadow Lane
Bedford, W.Va.

Address Same

OIL & GAS ROYALTY OWNER

Address Same Below

COAL OPERATOR

Address

Acreage 1

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Pethy Peter

Name

Address 2nd St

Address

St Mary, W.Va.

Acreage 1

Name

FIELD SALE (IF MADE) TO:

Address

Name

Address

COAL LESSEE WITH DECLARATION ON RECORD:

Name

Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:

Name P. TRACY

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease ___ / other contract ___ / dated ____, 19__, to the undersigned well operator from (If said deed, lease or other contract has been recorded:)

Recorded on ____, 19__, in the office of the Clerk of the County Commission of ___ County, West Virginia, in ___ Book ____, at page ____. A permit is requested as follows

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

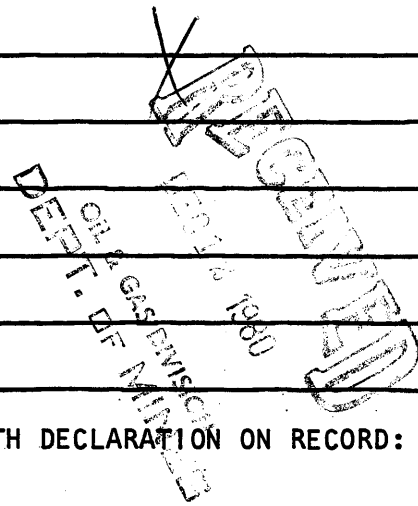
--planned as shown on the work order on the reverse side hereof.

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 522-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by 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 lessees 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: BLANKET BOND

OFFICE OF OIL AND GAS 1615 Washington Street, East Charleston, West Virginia, 25311

P. O. Tracy Well Operator



PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) _____ Address _____

GEOLOGICAL TARGET FORMATION, Ohio Shale

Estimated depth of completed well, 4500 feet Rotary Cable tools

Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.

Approximate coal seam depths: _____ Is coal being mined in the area? Yes No

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, 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-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, of the W. Va. Code, the location is hereby approved for _____ drilling. This permit shall expire if operations have not commenced by 8-15-81.

[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 _____