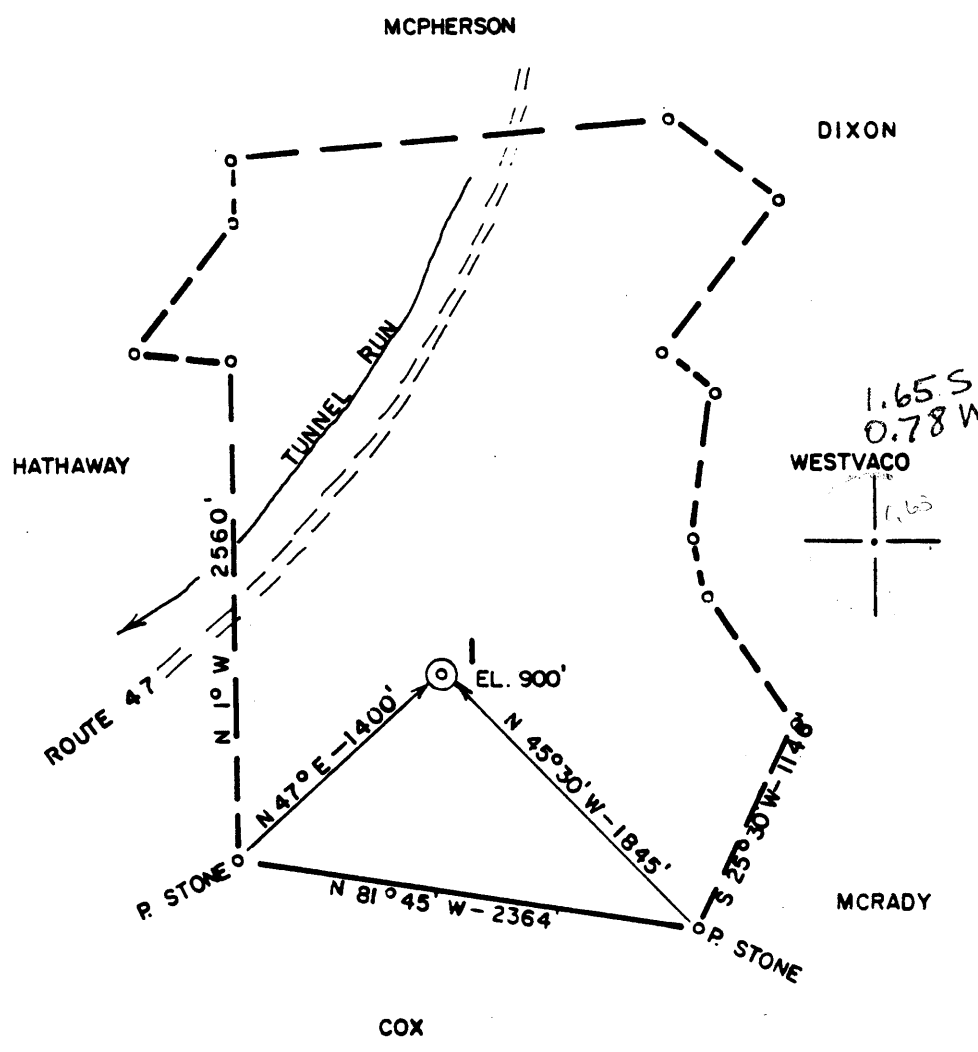


4100' WEST

LATITUDE 39° 12' 30"
39° 15'

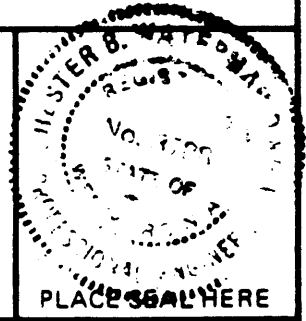
LONGITUDE 81° 25' 00"
8700' SOUTH

NORTH



FILE NO. 82-398
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200'
 PROVEN SOURCE OF ELEVATION KNOB (945')

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) *Robert L. Murdock*
 R.P.E. 3788 L.L.S. _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 10/26, 1982
 OPERATOR'S WELL NO. 1
 API WELL NO. _____
47 - 107 - 1232
 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 900' WATER SHED TUNNEL RUN
 DISTRICT CLAY COUNTY WOOD
 QUADRANGLE KANAWHA 7.5' Elizabeth 15' NW
 SURFACE OWNER WESTVACO ACREAGE 233.50'
 OIL & GAS ROYALTY OWNER A. B. WOLFE LEASE ACREAGE 233.50'
 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) _____
 8 1982

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5800'
 WELL OPERATOR RIMROCK PROD. CORP. DESIGNATED AGENT ROBERT L. MURDOCK 3-3
 ADDRESS 4424 "B" EMERSON AVE ADDRESS SAME

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

- 1st. Stage - ^{TO 3} 4510-5090 W/24 holes - 680,000 SCF N₂ - 336 gal. acid. *Angola + Rhinestreet*
- 2nd. Stage - 3830-4460 W/24 holes - 680,000 SCF N₂ - 294 gal. acid. *AURON*
- 3rd. Stage - 3330-3780 W/15 holes - 600,000 SCF N₂ - 294 gal. acid. *~~4460~~ U.D. Underliff*
- 4th. Stage - 2600-3280 W/27 holes - 830,000 SCF N₂ - 100 gal. acid. *Up Dev. underliff.*

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Soil			0	15	
Sandstone & Shale			15	50	
Sandstone & Shale			50	100	
Sandstone			100	200	
Silty Sandstone			200	300	
Silty Sandstone			300	400	
Sandstone & Silty Sandstone			400	500	
Sandstone & Shale			500	600	
Sandstone & Shale			600	700	
Sandstone & Shale			700	800	
Silty Sandstone			800	900	
Silty Sandstone			900	1000	
Sandstone & Shale			1000	1100	
Silty Sandstone			1100	1200	
Sandstone & Silty Sandstone			1200	1300	
Sandstone & Silty Sandstone			1300	1400	
Sandstone & Silty Sandstone			1400	1500	
Sandstone & Lime			1500	1600	
Silty Sandstone			1600	1700	
Sandstone & Lime			1700	1800	
Greenbrier			1800	1921	
Big Injun			1921	1972	
Sandy Siltstone			1972	2100	
Sandy Siltstone			2100	2200	
Siltstone			2200	2373	
Berea			2373	2375	
Sandy Siltstone			2375	2600	
Sandy Siltstone			2600	2735	
Fifth Sand			2735	2745	
Shale			2745	3000	
Shale			3000	3500	
Shale			3500	4000	
Shale			4000	4500	
Shale			4500	5000	
Shale			5000	5085	

$$\begin{array}{r} 4460 \\ 2375 \\ \hline 2085 \end{array}$$

$$\begin{array}{r} 5085 \\ 2375 \\ \hline 2710 \text{ expl. Hg.} \end{array}$$

Rhinestreet @ T.D. 5090

(Attach separate sheets as necessary)

Rimrock Production Corporation
Well Operator

By: Kay C. McKinnon -Agent
Date: January 10, 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 ... in the drilling of a well."



1) Date: October 28, 1982, 19
 2) Operator's Well No. A.B. Wolfe #1
 3) API Well No. 47 - 107 - 1232
 State _____ County _____ Permit _____

DRILLING CONTRACTOR:

STATE OF WEST VIRGINIA
 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: 900' / Watershed: Tunnel Run / District: Clay / County: Wood / Quadrangle: Kanawha 7.5'

6) WELL OPERATOR: Rinrock Production Corp. / 11) DESIGNATED AGENT: Robert L. Mardock
 Address: 442A "B" Emerson Ave. / Address: 442A "B" Emerson Ave.
Parkersburg, WV 26104 / Parkersburg, WV 26104

7) OIL & GAS ROYALTY OWNER: Jean H. Brady & Helen K. Vogel (Trustees)
 Address: 805 1/2 Market Street
Parkersburg, WV 26101
 Acreage: 233.50

8) SURFACE OWNER: Wesvaco
 Address: P.O. Box 577
Rupert, WV 25984
 Acreage: 233.50

9) FIELD SALE (IF MADE) TO: unknown

12) COAL OPERATOR: N/A

13) COAL OWNER WITH DECLARATION ON RECORD: N/A

14) COAL LESSEE WITH DECLARATION ON RECORD: N/A

10) OIL & GAS INSPECTOR TO BE NOTIFIED: Samuel N. Hersman
 Name: Samuel N. Hersman / Address: P.O. Box 66
Smithville, WV 26170

RECEIVED
 OCT 29 1982

OIL & GAS DIVISION
 DEPT. OF MINES

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

16) GEOLOGICAL TARGET FORMATION: Devonian Shale

17) Estimated depth of completed well, 1800' feet

18) Approximate water strata depths: Fresh, 200' feet; salt, 450' 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	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENTING OR GRouting (C/G)	LOGGERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	3 7/8"					250'			
Intermediate	7"					2000'			
Production	4 1/2"					to T.D.			
Tubing									
Liners									

21) EXHAUSTION 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 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 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: Key C. McArthur
 My Commission Expires: 10/28/82 Its: 10/28/82

OFFICE USE ONLY
 DRILLING PERMIT

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

Permit expires July 3, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:
				1499

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 _____