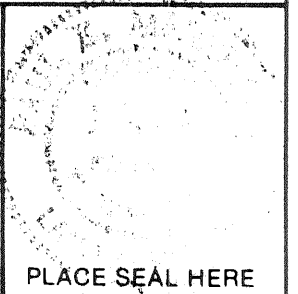


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION CONCRETE BRIDGE (CITY OF PROCTOR) 640'

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) Paul K. Marshall
 R.P.E. _____ L.L.S. 580



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE SEPT. 26 19 85
 OPERATOR'S WELL NO. BOHRER # 4
 API WELL NO. 47-103-1389-F
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 642' WATER SHED OHIO RIVER
 DISTRICT PROCTOR COUNTY WETZEL
 QUADRANGLE NEW MARTINSVILLE 7.5' NE

SURFACE OWNER VIRGINIA BOHRER ACREAGE 135
 OIL & GAS ROYALTY OWNER VIRGINIA BOHRER LEASE ACREAGE 135
 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) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION GORDON ESTIMATED DEPTH 3100

V
 A Cobham Gas Industries, Inc.
 P.O. Box 1293
 Bridgeport, wva. 26330-1293

DESIGNATED ADDRESS Alan Anderson
 Same Address
 PH: 304-822-9256

1985

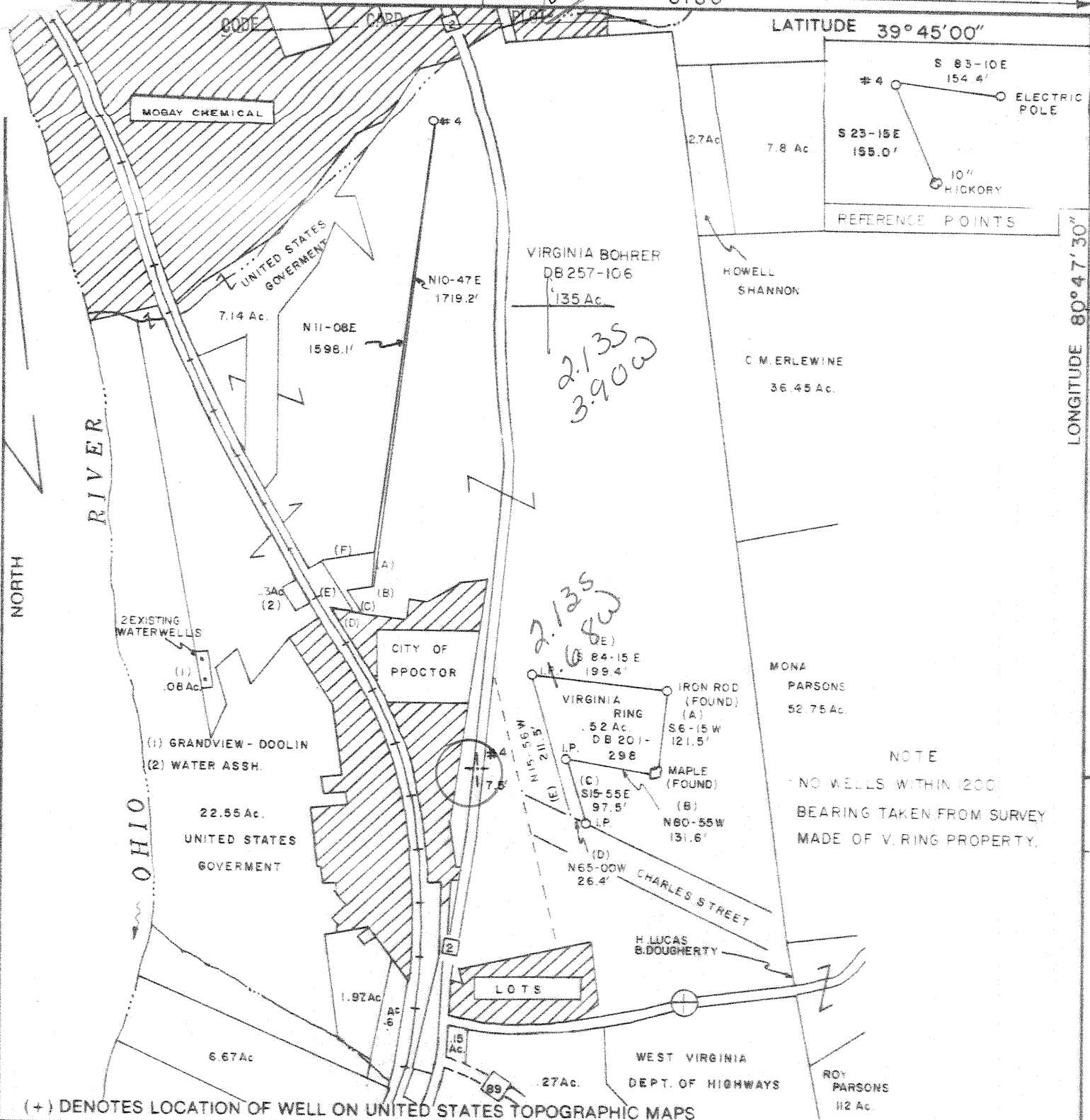
COUNTY NAME WETZEL
 PERMIT 1389

3/13/86

8780'

LATITUDE 39°45'00"

LONGITUDE 80°47'30"



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION CONCRETE BRIDGE (CITY OF PROCTOR) 640'

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) Paul K. Marshall
 R.P.E. _____ L.L.S. 580

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE SEPT. 26 19 85
 OPERATOR'S WELL NO. BOHRER # 4
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 642' WATERSHED OHIO RIVER
 DISTRICT PROCTOR 1 COUNTY WETZEL
 QUADRANGLE NEW MARTINSVILLE 7.5' 509 091 NE 3
 SURFACE OWNER VIRGINIA BOHRER ACREAGE 135
 OIL & GAS ROYALTY OWNER VIRGINIA BOHRER LEASE ACREAGE 135
 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) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION GORDON ESTIMATED DEPTH 3800
 WELL OPERATOR CLAY RESOURCES DESIGNATED AGENT ANDY BROWN
 ADDRESS 204 UNION SQUARE ADDRESS P.O. BOX 32
MARIETTA, OHIO 4570 172 READER, W.V. 26167

COUNTY NAME PERMIT

MAR 17 1985

JAN 06 1995

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

Permitting
 Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: BOHRER, VIRGINIA Operator Well No.: BOHRER #4

LOCATION: Elevation: 642.00 Quadrangle: NEW MARTINSVILLE

District: PROCTOR County: WETZEL
 Latitude: 1180 Feet South of 39 Deg. 45Min. Sec.
 Longitude 8780 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: COBHAM GAS INDUSTRIES, IN
 23210
 BRIDGEPORT, WV 26330-0000

Agent: A. D. ANDERSON

Inspector: RANDAL MICK
 Permit Issued: 01/27/94
 Well work Commenced: 2/8/94
 Well work Completed: 6/3/94

Verbal Plugging
 Permission granted on:
 Rotary Cable Rig
 Total Depth (feet) 2525'
 Fresh water depths (ft) -
 2055'

Salt water depths (ft) 432

Is coal being mined in area (Y/N)?
 Coal Depths (ft):

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"		938	325 SKS
4 1/2"		3525'	300 SKS

OPEN FLOW DATA

Producing formation Berea/Weir Pay zone depth (ft) 1753'
 Gas: Initial open flow 10 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 5 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 240 Hours
 Static rock Pressure 615 psig (surface pressure) after 240 Hours

Second producing formation Big Injun/Keener Pay zone depth (ft) 1388'
 Gas: Initial open flow 10 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 5 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 240 Hours
 Static rock Pressure _____ psig (surface pressure) after 240 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.

For: COBHAM GAS INDUSTRIES, INC.

By: [Signature]
 Date: 12/31/94

JAN 14 1995

Perforations: Berea/Weir - 26 shots from 1753' to 1967'

Big Injun/Keener - 38 shots from 1388' to 1463'

Fracturing: Berea/Weir - Treated with 23,270 gal. H₂O.

Big Injun/Keener - Treated with 3000 gal. of 10% HCL and H₂O

RECEIVED
AUG 21 1986



State of West Virginia
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
Department of Mines
Oil and Gas Division

Date August 1, 1986
Operator's Bohrer #4
Well No. Bohrer #4
Farm Virginia Bohrer
API No. 47 - 103 - 1389

**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: 642 Watershed Ohio River
District: Proctor County Wetzel Quadrangle New Martinsville

COMPANY CLAY RESOURCES, INC.
ADDRESS 286 Front St., Marietta, OH 45750
DESIGNATED AGENT Andy Brown
ADDRESS Box 32, Reader, WV 26167
SURFACE OWNER Virginia Bohrer
ADDRESS Rt. 2, Box 3, Proctor, WV 26055
MINERAL RIGHTS OWNER SAME
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Don Ellis
ADDRESS 2604 Crab Apple Lane Fairmont, WV 26554
PERMIT ISSUED 3-13-86
DRILLING COMMENCED April 1, 1986
DRILLING COMPLETED April 29, 1986
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 Cord.			
13-10"			
9 5/8			
8 5/8	938	938	225 lbs
7			
5 1/2			
4 1/2	2525	2525	200 lbs
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 3100 feet
Depth of completed well 2525 feet Rotary / Cable Tools
Water strata depth: Fresh _____ feet; Salt 2055 feet
Coal seam depths: 432 Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Gordon Pay zone depth 2330-2368 feet
Gas: Initial open flow 35 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 30 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 72 hours
Static rock pressure 330 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completions--)
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

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

PERFORATED: 20 Shots: 2263 to 2305 Gordon

FRAC'D: Foam - Broke @ 2350: ISP - 1560: 400 SKS 20/40 sand: 300 Gal. 15% HCL:
483,000- N₂:

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
SAND & LIMESTONE			0	1300	
SANDSTONE			1300	1600	Big Injun
SAND & SHALE			1600	1800	squaw - 1752 - 1763
SAND			1800	2000	1st Berea
SAND & SHALE			2000	2525	<u>Gordon 2273-2304</u>

(Attach separate sheets as necessary)

CLAY RESOURCES, INC.

Well Operator

By:

Jan Ketting

Date:

August 15, 1986

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 ~~minerals~~, encountered in the drilling of a well."

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

1031389 Fr

Jan 14 94

Issued 01/27/94

5632

⑦ 509

1) Well Operator: COBHAM GAS INDUSTRIES, INC. 10195

2) Operator's Well Number: BOHRER # 4 3) Elevation: 642

18615

Well type: (a) Oil / or Gas /

(b) If Gas: Production / Underground Storage /
Deep / Shallow /

Proposed Target Formation(s): BEREA, WEIR, BIG INJUN, KEENER

Proposed Total Depth: 2525 feet (PRESENTLY)

Approximate fresh water strata depths: N/A

8) Approximate salt water depths: 2055

9) Approximate coal seam depths: 432

10) Does land contain coal seams tributary to active mine? Yes / No /

11) Proposed Well Work: RUN BOND LOG, PERFORATE AND FRACTURE UP HOLE ZONES THAT ARE BEHIND PIPE WITH CEMENT COVERAGE ACROSS AND ABOVE THE ZONES.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water						
Coal	8 5/8			938	938	225 SKS
Intermediate						
Production	4 1/2			2525	2525	200 SKS
Tubing						
Liners						

PACKERS : Kind
 Sizes
 Depths set

130/3 For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond CD Agent
 (Type)

Permitting
Office of Oil & Gas

- 1) Date: JANUARY 10, 1994
- 2) Operator's well number BOHRER # 4
- 3) API Well No: 47 - 103 - 1389-F
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name VIRGINIA BOHRER
Address ROUTE # 2 BOX 3
NEW MARTINSVILLE, WV 26055
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name N/A
Address _____
 - (b) Coal Owner(s) with Declaration
 - Name N/A
Address _____
 - (c) Coal Lessee with Declaration
 - Name N/A
Address _____
- 6) Inspector RANDAL MICK
Address _____
MANNINGTON, WV, 26582
Telephone (304)- 986-3324

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

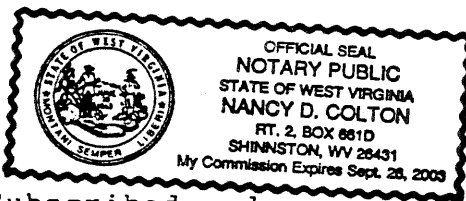
- _____ Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator COBHAM GAS INDUSTRIES INC.
 By: Alan D. Anderson ALAN D. ANDERSON
 Its: AGENT
 Address P.O. BOX 1293
BRIDGEPORT, WV 26330
 Telephone 304-842-9256



Subscribed and sworn before me this 10th day of JANUARY, 1994

My commission expires September 26, 2003 Nancy D. Colton Notary Public



1) Date: February 18, 1986
 2) Operator's Well No. Bohrer #4
 3) API Well No. 47 103-1389
 State County Permit

RECEIVED
 MAR 13 1986

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

APPLICATION FOR A WELL WORK PERMIT

DIVISION OF OIL & GAS

4) WELL TYPE: Oil / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow _____)
 5) LOCATION: Elevation: 642' Watershed: Ohio River
 District: Proctor 172 County: Wetzel Quadrangle: New Martinsville 7.5'
 6) WELL OPERATOR Clay Resources CODE: 10025 7) DESIGNATED AGENT Andy Brown
 Address 204 Union Square Address Box 32
Marietta, OH 45750 Reader, WV 26167
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Don Ellis
 Address 2604 Crab Apple Lane
Fairmont, WV 26554
 9) DRILLING CONTRACTOR: Name Unknown
 Address _____

10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Gordon 419
 12) Estimated depth of completed well, 3100' feet
 13) Approximate trata depths: Fresh, _____ feet; salt, 1621' feet.
 14) Approximate coal seam depths: 442' Is coal being mined in the area? Yes _____ / No X /

15) 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	For drilling	Left in well		
Conductor	11 5/8	B				Drive or set 30' below or gravel	90'	if set, CTS	Class A neat cement 37 Cal. Chi. 1/2 lb. Kinds flow seal per sack
Fresh water	8 5/8						842'	CTS	Per rule 15.05
Coal									Sizes
Intermediate									
Production	4 1/2					3100' apprx.	3100' apprx.	500 + SKS	Depths set Per rule 15.01
Tubing									
Lin...									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-103-1389 Date March 13 1986

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 March 13, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>1882</u>	WPCP: <u>AS</u>	S&E: <u>AS</u>	Other: _____
---	--	-----------------	-------------------	------------------	-----------------	----------------	--------------

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

[Signature]
 Director, Division of Oil and Gas File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.