

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 # 3
 API WELL NO. 47-103-1388-F
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 643' WATERSHED 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. _____

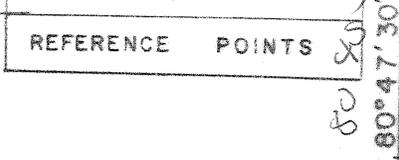
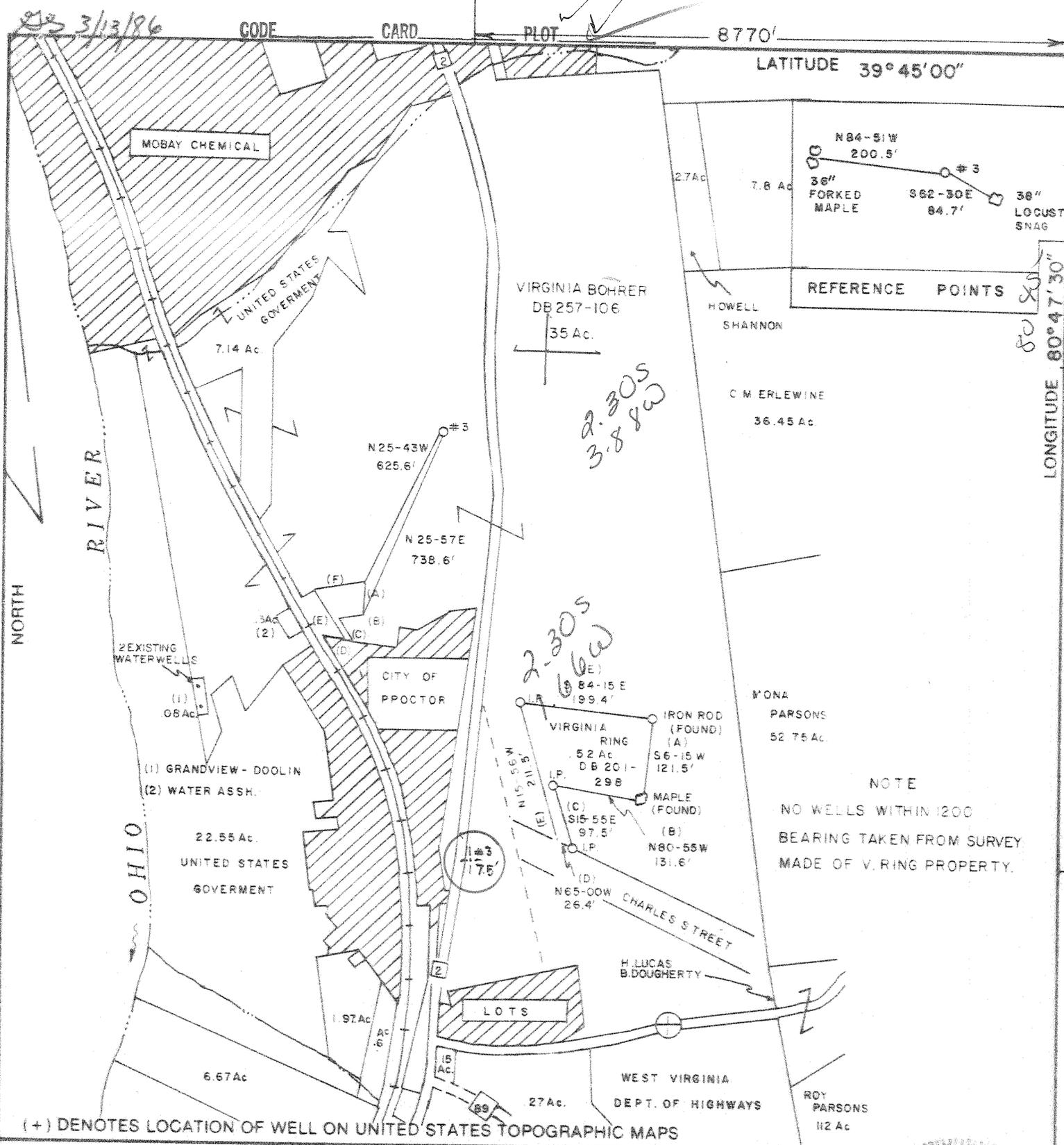
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
Possible squeeze job - frac new formations, Berea, Main, Big Antrim, Keokuk, Coningale
which Gordon production

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION GORDON ESTIMATED DEPTH 3500

W Cobham Gas Industries, Inc. DESIGNATED AGI
 A P.o. Box 1293 ADDRESS P.O.
 Bridgeport, wVa. 26330-1293 Alan Anderson
 Same Address
 PH: 304-842-9256

JAN 6 1 1984
 JAN 8 1 1984

FOI... 10-0 (0-0) DRAFT CO., INC. 00000



NOTE
NO WELLS WITHIN 1200'
BEARING TAKEN FROM SURVEY
MADE OF V. RING PROPERTY.

FILE NO. _____
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(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 # 3
API WELL NO. _____
47 - 103 - 1388
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS.") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
LOCATION: ELEVATION 643' WATERSHED OHIO RIVER
DISTRICT PROCTOR 1 COUNTY WETZEL
QUADRANGLE NEW MARTINSVILLE 7.5' 509 091 NE3
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 3000
WELL OPERATOR CLAY RESOURCES DESIGNATED AGENT ANDY BROWN
ADDRESS 204 UNION SQUARE ADDRESS PO BOX 32
MARIETTA, OHIO 4570 6-6 Cameron-Garner READER, W.V. 26167

MAR 17 1986

COUNTY NAME
PERMIT

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 #3

LOCATION: Elevation: 643.00 Quadrangle: NEW MARTINSVILLE

District: PROCTOR County: WETZEL
Latitude: 12190 Feet South of 39 Deg. 45Min. Sec.
Longitude 8770 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: 2/4/94
Well work Completed: 6/3/94
Verbal Plugging
Permission granted on:
Rotary Cable Rig
Total Depth (feet) 2416
Fresh water depths (ft) -

Salt water depths (ft) 1623'

Is coal being mined in area (Y/N)?
Coal Depths (ft): 433

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"		914	265 SKS
4 1/2"		2352'	200 SKS

OPEN FLOW DATA

Producing formation Berea/Weir Pay zone depth (ft) 1752'
Gas: Initial open flow 25 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 10 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 550 psig (surface pressure) after 72 Hours

Second producing formation Big Injun/Keener Pay zone depth (ft) 1372'
Gas: Initial open flow 70 MCF/d Oil: Initial open flow 5 Bbl/d
Final open flow 160 MCF/d Final open flow 15 Bbl/d
Time of open flow between initial and final tests 240 Hours
Static rock Pressure 615 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: Ced. Al - hst
Date: 12/31/94

JAN 06 1995

Perforations: Berea/Weir - 39 shots from 1752' to 1968'

Big Injun/Keener - 32 shots from 1372' to 1450'

Fracturing: Berea/Weir - Treated with 24,000 gal. H₂O and 7,500 lbs. of sand

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

IV-35
(Rev 8-81)

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 Well No. Bohrer #3
Farm Virginia Bohrer
API No. 47 - 103 - 1388

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

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

LOCATION: Elevation: 643 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 3-21-86
DRILLING COMPLETED 4-22-86
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	914	914	265 cks.
7			
5 1/2			
4 1/2	2352	2352	200 cks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 3100 feet
Depth of completed well 2450 feet Rotary X / Cable Tools X
Water strata depth: Fresh ___ feet; Salt 1623 feet
Coal seam depths: 433 Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 2329-2368 feet
Gas: Initial open flow 30 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 25 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

(Continue on reverse side)

SEP 2 1986

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

Perforated: 20 shots: 2269 to 2309 Gordon

Frac'd: Foam: Broke ! 2500: ISP 1620: 400 Sks 20/40 Sand: 483,000 SCF 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 & SHALE			0	1250	
SAND & LIMESTONE			1250	1330	
SAND			1330	1604	Big Injun
SAND & SHALE			1604	1800	Squaw 1754-1770
SAND, SHALE, LIMESTONE			1800	1950	Weir - 1864-1874 1st Berea - 1952-1960 2nd Berea - 1960-1968
SAND & SHALE			2100	2300	Gordon - 2278-2320
SHALE			2300	2416	

(Attach separate sheets as necessary)

CLAY RESOURCES, INC.

Well Operator

By:

Juan Ketting

Date:

August 1, 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 coal, encountered in the drilling of a well."

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

Issued 01/27/96

18613
Well Operator's Well Number: VIRGINIA BOHRER #3

1) Well Operator: COBHAM GAS INDUSTRIES, INC. 10195 (7) 509
Operator's Well Number: VIRGINIA BOHRER #3 3) Elevation: 643

Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage ___ /
Deep ___ / Shallow /

Proposed Target Formation(s): ³⁹⁵ BEREA, WEIR, BIG INJUN, KEENER

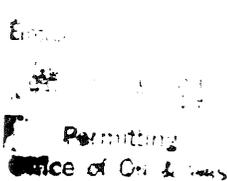
- 6) Proposed Total Depth: 2450 feet
- 7) Approximate fresh water strata depths: N/A
- 8) Approximate salt water depths: 1623
- 9) Approximate coal seam depths: 433
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No /
- 11) Proposed Well Work: RUN BOND LOG, PERFORATE AND FRACTURE UP HOLE ZONES THAT ARE BEHIND PIPE WITH CEMENT COVERAGE ACROSS AND ABOVE THE ZONES.
- 12) 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	8 5/8					
Coal			914	914	265 SKS	
Intermediate						
Production	4 1/2		2352	2352	200 SKS	
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

130/3
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond CD Agent
(Type)



1) Date: JANUARY 10, 1994
2) Operator's well number VIRGINIA BOHRER #3
3) API Well No: 47 - 103 - 1388 - 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
PROCTOR, 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 _____
Name _____
Address _____

6) Inspector RANDAL MICK
Address _____
MANNINGTON, WV, 26582
Telephone (304)- 986-3324

(c) Coal Lessee with Declaration
Name N/A
Address _____

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)

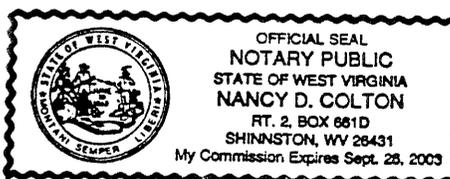
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- _____ 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
Title: 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

7/85

RECEIVED
MAR 13 1988



1) Date: February 18, 1986
 2) Operator's Well No. Bohrer #3
 3) API Well No. 47 103 -1388
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: 643' Watershed: Ohio River
 District: Proctor County: Wetzel Quadrangle: New Martinsville 7.5'
- 6) WELL OPERATOR Clay Resources 172 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 9) DRILLING CONTRACTOR:
 Name Don Ellis Name Unknown
 Address 2604 Carb Apple Lane Address _____
 Fairmont, WV 26554
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate
 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, 1622' feet.
- 14) Approximate coal seam depths: 443' Is coal being mined in the area? Yes _____ / No

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	Drive or set				water, sand 90'	843'	if set, CTS	Class A neat cement. 3% Cal. Chl. 1/2 lb. Kinds flow seal per sack
Fresh water	8 5/8					843'	843'	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 47-103-1388

March 13 19 86
 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. 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: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: 1882	WPCP: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
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NOTE: Keep one copy of this permit posted at the drilling location.

Director, Division of Oil and Gas

File

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