

FILE NO. MB9-1

DRAWING NO. \_\_\_\_\_

SCALE 1" = 500'

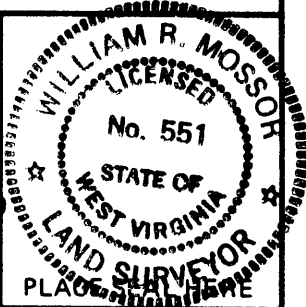
MINIMUM DEGREE OF ACCURACY 1:200

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) William R. Moss

R.P.E. \_\_\_\_\_ L.L.S. 551



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

FORM IV-6 (8-78)



DATE 12 APRIL, 19 86

OPERATOR'S WELL NO. BOHRER #2 (REVISED)

API WELL NO. \_\_\_\_\_

47-103-1395-F

STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

According to SEP

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

LOCATION: ELEVATION 635' WATER SHED OHIO RIVER  
DISTRICT PROCTOR COUNTY WETZEL  
QUADRANGLE NEW MARTINSVILLE 712' 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) \_\_\_\_\_

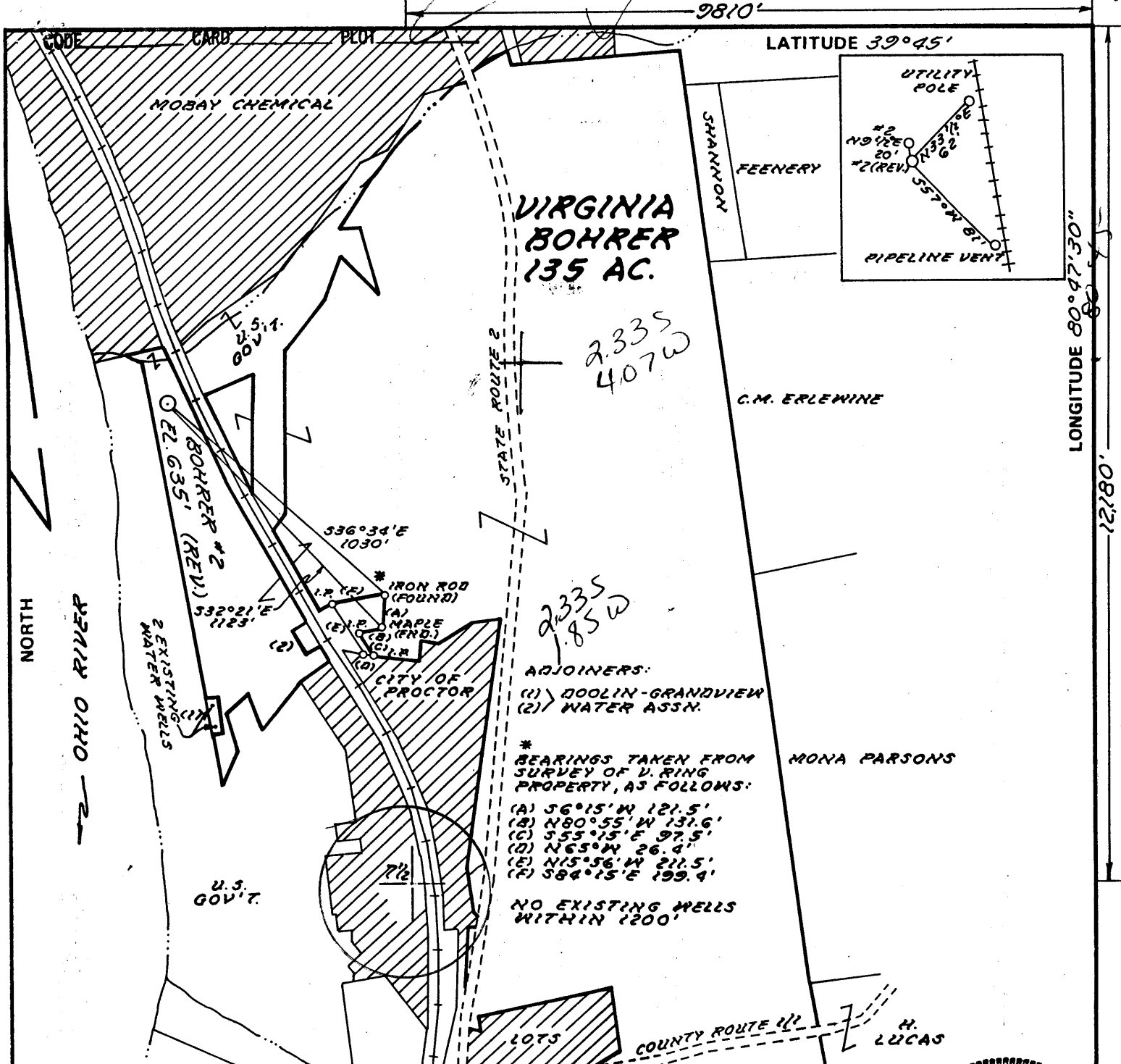
PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_

TARGET FORMATION GORDON ESTIMATED DEPTH 3100'

DESIGNATED AGENT Alan Anderson  
ADDRESS: Same Address  
PH: 304-842-9256

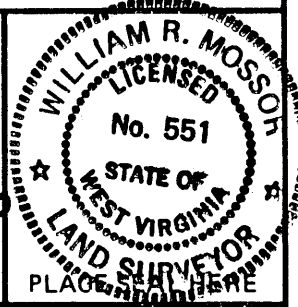
Cobham GAs Industries, Inc.  
P.o. Box 1293  
Bridgeport, wVa. 26330-1293

Wetzel 1395



FILE NO. MB9-1  
 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) William R. Moss  
 R.P.E. \_\_\_\_\_ L.L.S. 551



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



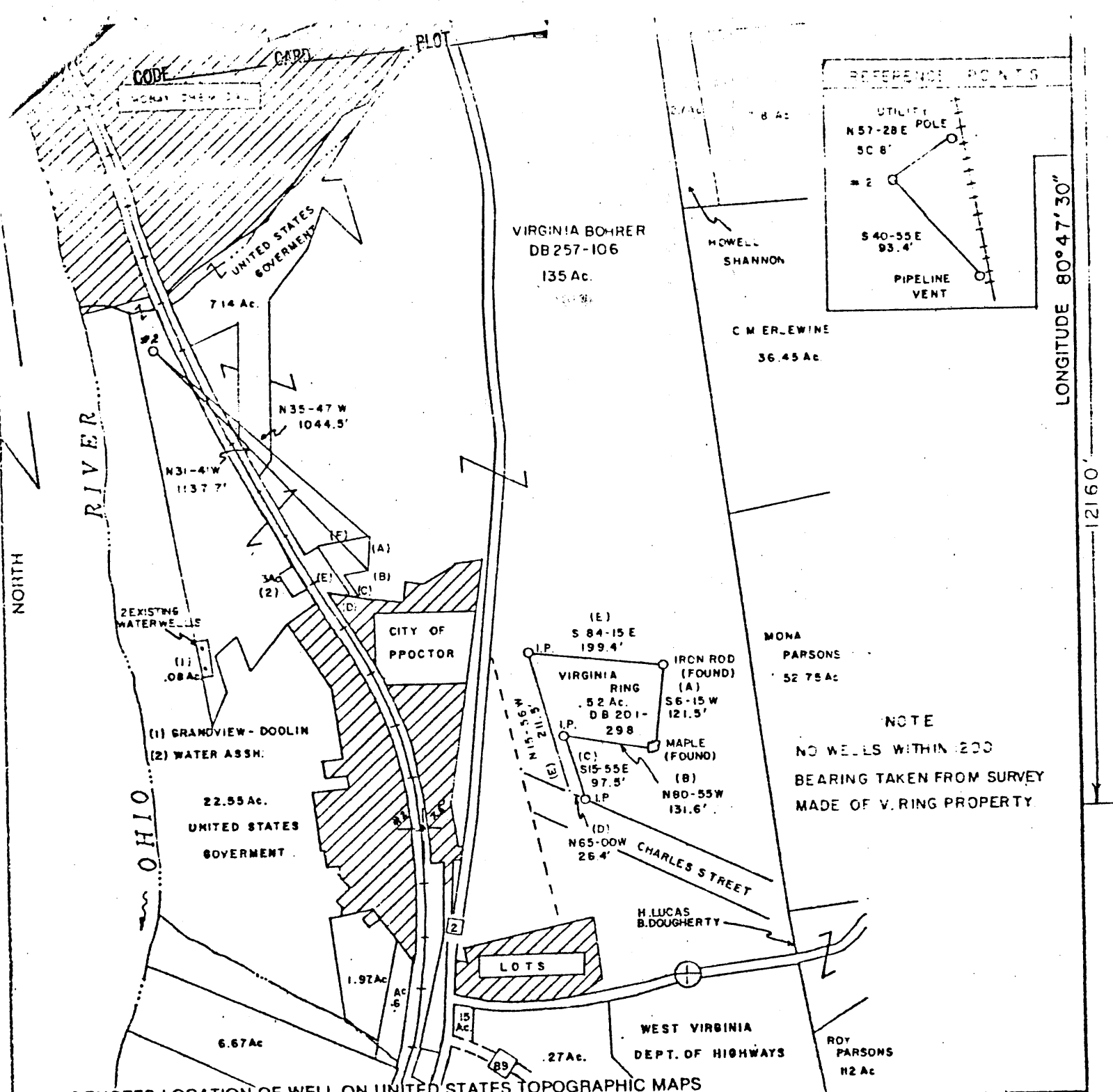
DATE 12 APRIL, 1986  
 OPERATOR'S WELL NO. BOHRER #2  
 API WELL NO. (REVISED)  
47 - 103 - 1395  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

Was: 1387

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 635' WATER SHED OHIO RIVER  
 DISTRICT PROCTOR 7 COUNTY WETZEL  
 QUADRANGLE NEW MARTINSVILLE 712' 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 3100'  
 WELL OPERATOR CLAY RESOURCES DESIGNATED AGENT ANDY BROWN  
 ADDRESS 286 FRONT ST. MARIETTA, OHIO 45750 ADDRESS PO. BOX 32 READER, WV 26167

MAY 12 1986



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 1985  
 OPERATOR'S WELL NO. BOHRER # 2  
 API WELL NO. 47-103-1387-R

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

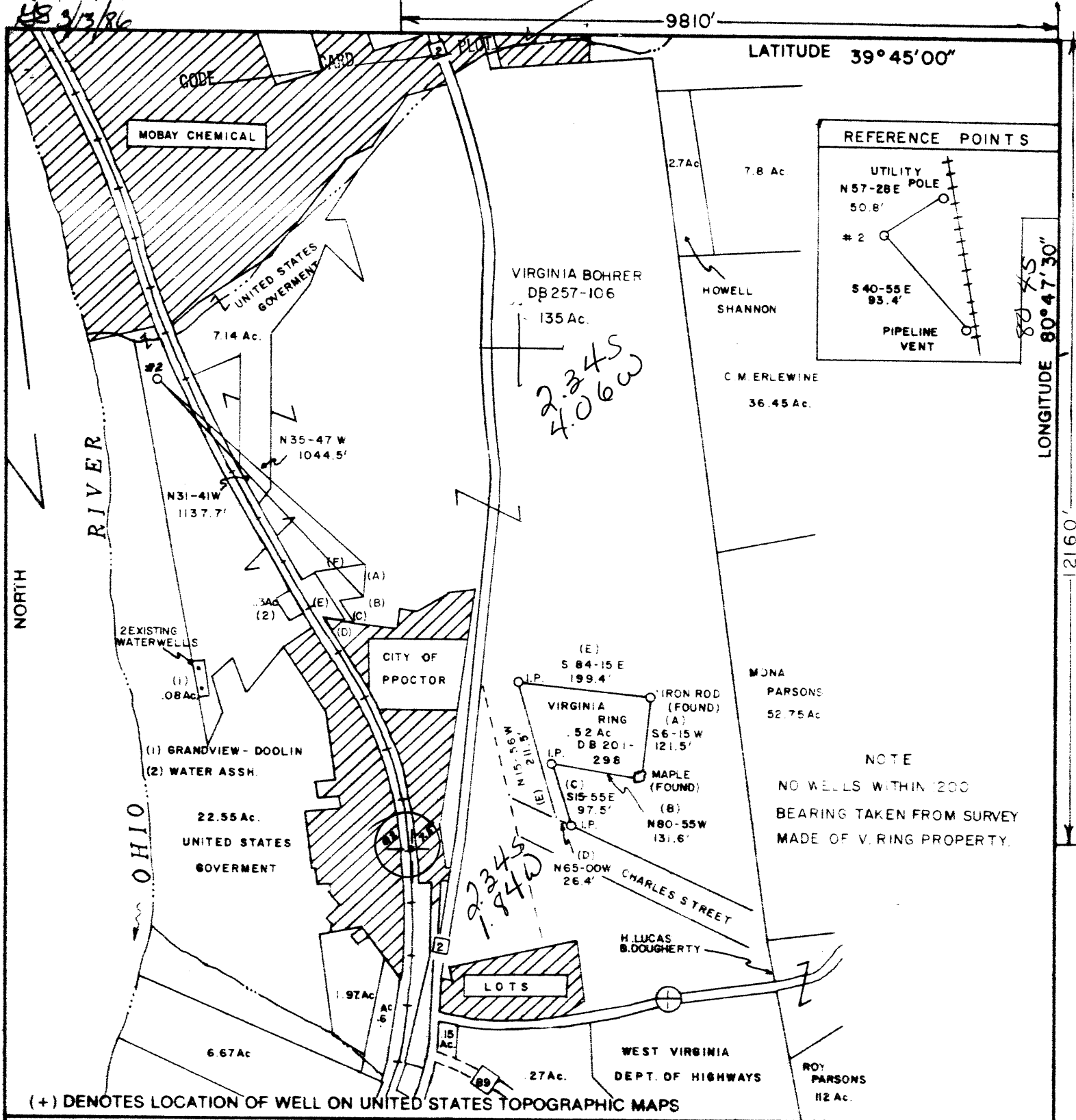
LOCATION: ELEVATION 635' WATERSHED OHIO RIVER  
 DISTRICT PROCTOR COUNTY WETZEL  
 QUADRANGLE NEW MARTINSVILLE 7.5'

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 3300  
 WELL OPERATOR CLAY RESOURCES DESIGNATED AGENT ANDY BROWN  
 ADDRESS 204 UNION SQUARE ADDRESS P.O. BOX 32  
MARIETTA, OHIO 4570 READER, W.V. 26167

MAY 12 1986



(+) 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 1985  
 OPERATOR'S WELL NO. BOHRER # 2  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS.") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 635' WATERSHED OHIO RIVER

DISTRICT PROCTOR 7 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 3300

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

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

JAN 06 1995

Well Operator's Report of Well Work

Permitting  
 Office of Oil & Gas

BOHRER, VIRGINIA

Operator Well No.: BOHER 2-A

LOCATION: Elevation: 635.00      Quadrangle: NEW MARTINSVILLE

District: PROCTOR      County: WETZEL  
 Latitude: 12180 Feet South of 39 Deg. 45Min.      Sec.  
 Longitude 9810 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: 1/28/94  
 Well work Completed: 5/14/94

Verbal Plugging  
 Permission granted on: \_\_\_\_\_

Rotary \_\_\_\_\_ Cable \_\_\_\_\_ Rig \_\_\_\_\_  
 Total Depth (feet) 2475  
 Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) 1615'

Is coal being mined in area (Y/N)? Y  
 Coal Depths (ft): 435

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"		1647	250 SKS
4 1/2"		2420	140 SKS

OPEN FLOW DATA

Producing formation Berea/Weir      Pay zone depth (ft) 1753'  
 Gas: Initial open flow 20 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 480 Hours  
 Static rock Pressure 620 psig (surface pressure) after 480 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.

For: COBHAM GAS INDUSTRIES, INC.

By: A. D. Anderson  
 Date: 12/31/94

Perforations: 30 shots from 1753' to 1963'

Fracturing: Treated with 33,000 gal. of water and 7,000 lbs. of sand



**RECEIVED**  
AUG 21 1986

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 8/19/86  
Operator's Well No. Bohrer 2-A  
Farm Virginia Bohrer  
API No. 47 - 103 - 1395

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

COMPANY Clay Resources, Inc.  
ADDRESS 286 Front Street, 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  
2604 Crab Apple Lane  
ADDRESS Fairmont, WV 26554  
PERMIT ISSUED 5/5/86  
DRILLING COMMENCED 5/6/86  
DRILLING COMPLETED 5/31/86  
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 Cood.			
13-10"			
9 5/8			
8 5/8	1647	1647	250SKS
7			
5 1/2			
4 1/2	2420	2420	140SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 3100 feet  
Depth of completed well 2475 feet Rotary     / Cable Tools X  
Water strata depth: Fresh     feet; Salt 1615 feet  
Coal seam depths: 435 Is coal being mined in the area? NO

**OPEN FLOW DATA**

Producing formation Gordon Pay zone depth     feet  
Gas: Initial open flow 25 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 300 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.**

Perf: 20 Holes-2260-2300 Gordon

Frac: 1 Stage Foam: Brake @ 3000; ISP-2450: 400SKS-20/40 Sand N2-483,000SCF

**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	1650	
Limestone, Shale			1650	1800	Squaw-1743-1758
Sandstone, Shale			1800	1900	Wier-1832-1838
Sandstone, Sand			1900	2000	
Sand, Shale			2000	2200	Fifty-Foot-2122-2172
Shale			2200	<u>2475</u> T.D.	Gordon- <u>2264-2308</u>

(Attach separate sheets as necessary)

Clay Resources, Inc.  
Well Operator

By: Jean Ketting

Date: August 19, 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 detailed logging of a well."



JAN 14 94

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

WELL WORK PERMIT APPLICATION

103 1395 Fra  
Issued 01/27/96

Permitting  
Division of Oil & Gas

Operator: COBHAM GAS INDUSTRIES, INC. 10195 ⑦ 509

Operator's Well Number: VIRGINIA BORER #2A 3) Elevation: 635

Well type: (a) Oil  / or Gas  /

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

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

- 6) Proposed Total Depth: 2475 feet
- 7) Approximate fresh water strata depths: N/A
- 8) Approximate salt water depths: 1615
- 9) Approximate coal seam depths: 435
- 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) 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			1647	1647	250 SKS
Intermediate						
Production	4 1/2			2420	2420	140 SKS
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

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)

18616

130/3

RECEIVED

JAN 14 94

- 1) Date: JANUARY 10, 1994
- 2) Operator's well number, VIRGINIA BOHRER #2A
- 3) API Well No: 47 - 103 - 1395 - F  
State - County - Permit

Permitting  
Office of Oil & Gas 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 \_\_\_\_\_  
(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  
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

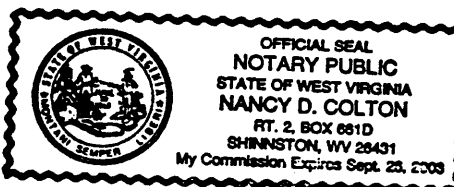
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

- \_\_\_\_\_ 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 10<sup>th</sup> day of JANUARY, 1994

My commission expires September 24, 2003 Nancy D. Colton Notary Public



1) Date: April 22, 1986  
 2) Operator's Well No. Bohrer # 2-A  
 3) API Well No. 47 103-1395  
 State County Permit

**RECEIVED**  
MAY - 2 1986

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

- 4) WELL TYPE: A Oil X / Gas X  
 B (If "Gas", Production X / Underground storage      / Deep      / Shallow X)  
 5) LOCATION: Elevation: 635' Watershed: Ohio River  
 District: Proctor County: Wetzel Quadrangle: New Martinsville 7.5'  
 6) WELL OPERATOR Clay Resources CODE: 10025 7) DESIGNATED AGENT Andy Brown  
 Address 286 Front Street Address Box 32  
Marietta, OH 45750 Reader, WV 26167  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Don Ellis 9) DRILLING CONTRACTOR: Name Talkington-Brady, Inc.  
 Address 2604 Crab Apple Lane Address Rt. #5, Box 398  
Fairmont, WV 26554 Buckhannon, WV 26201  
 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  
 12) Estimated depth of completed well, 3100' feet  
 13) Approximate trrata depths: Fresh,      feet; salt, 1614' feet.  
 14) Approximate coal seam depths: 435' Is coal being mined in the area? Yes      / No X

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	For drilling	Left in well		
Conductor	11 5/8	8-Drive or set	30'	below water gravel	90'	if set CTS	Class A neat cement, 5% Cal. seal per sack
Fresh water	8 5/8			835'	835'	CTS	Per rule 15.05
Coal							Sizes
Intermediate							
Production	4 1/2			3100' appr.	3100' appr.	500 + SKS	Depths set Per rule 15.01
Tubing							
Lin.							Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-103-1395 Date May 5 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 May 5, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>AS</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>N/R</u>	Seal: <u>AS</u>	WPCP: <u>1257</u>	S&E: <u>AS</u>	Other: <u>    </u>
---	------------------	-----------------	-------------------	-----------------	-----------------	-------------------	----------------	--------------------

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

John A. Johnston by Margaret J. Hesse  
 Director, Division of Oil and Gas File

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

7/85

**RECEIVED**  
MAR 13 1986



1) Date: February 18, 1986  
2) Operator's Well No. Bohrer #2  
3) API Well No. 47 103-1387  
State County Permit

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

- 4) WELL TYPE: A Oil  / Gas   
B (If "Gas", Production  / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow \_\_\_\_\_)
- 5) LOCATION: Elevation: 635' 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 Name Don Ellis Address 2604 Crab Apple Lane Fairmont, WV 26554  
9) DRILLING CONTRACTOR: Name Unknown Address \_\_\_\_\_
- 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, 1614' feet.  
14) Approximate coal seam depths: 435' Is coal being mined in the area? Yes \_\_\_\_\_ / No
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor	11 5/8	Drive or set	30'			bellow water gravel	90'	Class A neat cement, 3/4 Cal. chi. 1/2 lb. flow seal per sack
Fresh water	8 5/8					835'	835'	CTS Per rule 15.05
Coal								Sizes
Intermediate								
Production	4 1/2					3100' appr.	3100' appr.	500 + SKS Depths set Per rule 15.01
Tubing								
Lin...								Perforations: Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-103-1387

March 13 1986  
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: AS	Casing: AS	Fee: 1982	WPCP: AS	S&E: AS	Other:
---	--	----------	------------	-----------	----------	---------	--------

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.