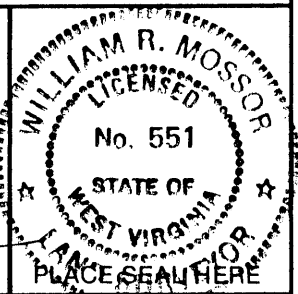


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. MB7-11  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1:200  
PROVEN SOURCE OF ELEVATION HIGH PT. 1334' 2000' SE OF LOC.

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 ENERGY  
(SIGNED) William R. Mossor  
R.P.E. \_\_\_\_\_ L.I.S. 551



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

DATE 24 NOVEMBER, 19 86  
OPERATOR'S WELL NO. RAY BLAKE #2  
API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 1214' WATER SHED CAMP RUN  
DISTRICT MAGNOLIA COUNTY WETZEL  
QUADRANGLE NEW MARTINSVILLE 7 1/2' 504 091 EC6

SURFACE OWNER RAY BLAKE ACREAGE 107.75  
OIL & GAS ROYALTY OWNER RAY BLAKE LEASE ACREAGE 125.75  
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 3500'  
WELL OPERATOR CLAY RESOURCES DESIGNATED AGENT ANDY BROWN  
ADDRESS 286 FRONT STREET MARIETTA, OHIO 45750 ADDRESS P.O. BOX 32 READER, WV 26170

COUNTY NAME  
PERMIT

RECEIVED  
MAY 28 1987



State of West Virginia

DEPARTMENT OF ENERGY  
Oil and Gas Division

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date May 26, 1987  
Operator's  
Well No. Blake # 2  
Farm Ray Blake  
API No. 47-103-1416

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: 1214' Watershed Camp Run  
District: Magnolia County Wetzel Quadrangle    

COMPANY Clay Resources, Inc.

ADDRESS 286 Front St., Marietta, Ohio 45750

DESIGNATED AGENT Andy Brown

ADDRESS Box 32, Reader, WVa. 26167

SURFACE OWNER Ray Blake

ADDRESS Rt 1, Box 88, New Martinsville, WV 26155

MINERAL RIGHTS OWNER Same

ADDRESS    

OIL AND GAS INSPECTOR FOR THIS WORK    

ADDRESS    

PERMIT ISSUED 47-103-1416

DRILLING COMMENCED 3/23/87

DRILLING COMPLETED 3/27/87

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"			
9 5/8			
8 5/8	1456'	1456'	CTS
7			
5 1/2			
4 1/2		3053'	200
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 3100' feet

Depth of completed well 3080 feet Rotary X / Cable Tools    

Water strata depth: Fresh 614 feet; Salt 1489 feet

Coal seam depths: 1004' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Weir Pay zone depth 2566-2625 feet

Gas: Initial open flow     Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 7 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests     hours

Static rock pressure     psig (surface measurement) after     hours shut in.

(If applicable due to multiple completion--)

Second producing formation Gordon Pay zone depth 2960-3024 feet

Gas: Initial open flow     Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow     Mcf/d Oil: Final open flow 0 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)

JUN 08 1987

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

10 perfs 2566-2581 .49 diameter  
 10 perfs 2608-2625 .49 diameter

40,000 lbs. sand - water sand frac

GORDON 5 perfs 2960-2966 .49 diameter

FOUNTAIN 15 perfs 3006-3022 .49 diameter

800 MCF N<sub>2</sub> Gordon

**RECEIVED**  
 MAY 28 1987

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

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	2130	
Injun Sand			2130	2188	
Sand & Shale			2188	2550	
Weir			2550	2635	
Sand & Shale			2635	2780	
<del>Berea</del>			2780	2786	
Sand & Shale			2786	2960	
Gordon			2960	2966	
Sand & Shale			2966	3006	
2nd. Gordon			3006	3022	
Sand & Shale			3022	3080	
TD			3080		

(Attach separate sheets as necessary)

Clay Resources, Inc.  
 Well Operator

By: Sandra L. Schaefer

Date: 5/22/87

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

Expires 02/16/96  
 509

18639

- Well Operator: COBHAM GAS INDUSTRIES, INC. 10195 6 509
- Operator's Well Number: RAY BLAKE #2 3) Elevation: 1214'
- Well type: (a) Oil X / or Gas X /
- (b) If Gas: Production X / Underground Storage    /  
 Deep    / Shallow X /
- Proposed Target Formation(s): BEREA<sup>395</sup>, BIG INJUN, KEENER
- Proposed Total Depth: 3080 feet (PRESENTLY)
- Approximate fresh water strata depths: 614
- Approximate salt water depths: 1489
- Approximate coal seam depths: 1004'
- Does land contain coal seams tributary to active mine? Yes    / No X /

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 *Remove plugs & cement with Gordon & Wein.*

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			1456'	1456'	To SURFACE
Intermediate						
Production	4 1/2			3053'	3053'	200 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 Blanket CD Agent     
 (Type)

1) Date: JANUARY 10, 1994  
2) Operator's well number  
RAY BLAKE # 2  
3) API Well No: 47 - 103 - 1416 - 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 RAY BLAKE  
Address ROUTE 1, BOX 88  
NEW MARTINSVILLE, WV 26155  
(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 \_\_\_\_\_  
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:

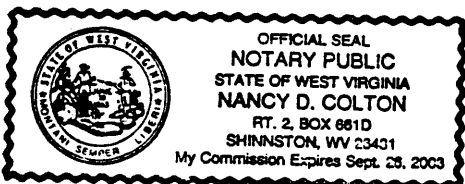
- \_\_\_\_\_ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

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  
Its: 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 26, 2003 Nancy D. Colton Notary Public

RECEIVED  
JAN 08 1987



1) Date: December 4, 1986  
 2) Operator's Well No. Ray Blake #2  
 3) API Well No. 47 103 1416  
 State County Permit

STATE OF WEST VIRGINIA  
 DIVISION OF OIL & GAS 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: 1214' Watershed: Camp Run  
 District: Magnolia 6172 County: Wetzel 103 Quadrangle: New Martinsville 7 1/2'  
 6) WELL OPERATOR Clay Resources, Inc. CODE: 10025 7) DESIGNATED AGENT Andy Brown  
 Address 286 Front Street Address Box 32  
 Marietta, Ohio 45750 Reader, WV 26167  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Mike Underwood Name N/A  
 Address Route 2, Box 135 Address  
 Salem, WV 26426  
 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 strata depths: Fresh, --- feet; salt, 2193 feet.  
 14) Approximate coal seam depths: 1014' Is coal being mined in the area? Yes  / No

15) CASING AND TUBING PROGRAM sec 103-1397

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor								Kinds
Fresh water	8 5/8					1050	1050	CTS Per Rule 15.05
Coal								Sizes
Intermediate								
Production	4 1/2					3100 Approx	3100 Approx	Depths set per rule 15.01
Tubing								
Lin.								Perforations:
								Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-103-1416 Date January 26, 1987

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 January 26, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <i>AS</i>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: 4233 165	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.

*John H. Johnston*  
 Director, Division of Oil and Gas  
 By *Margaret J. Hesse* File

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