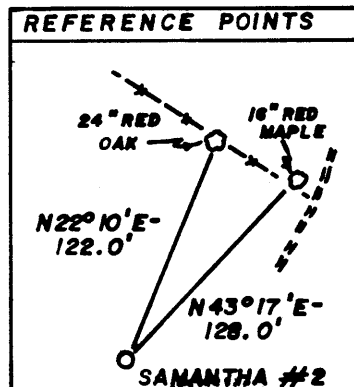
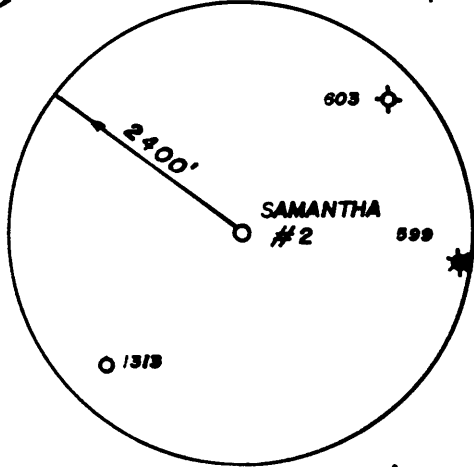
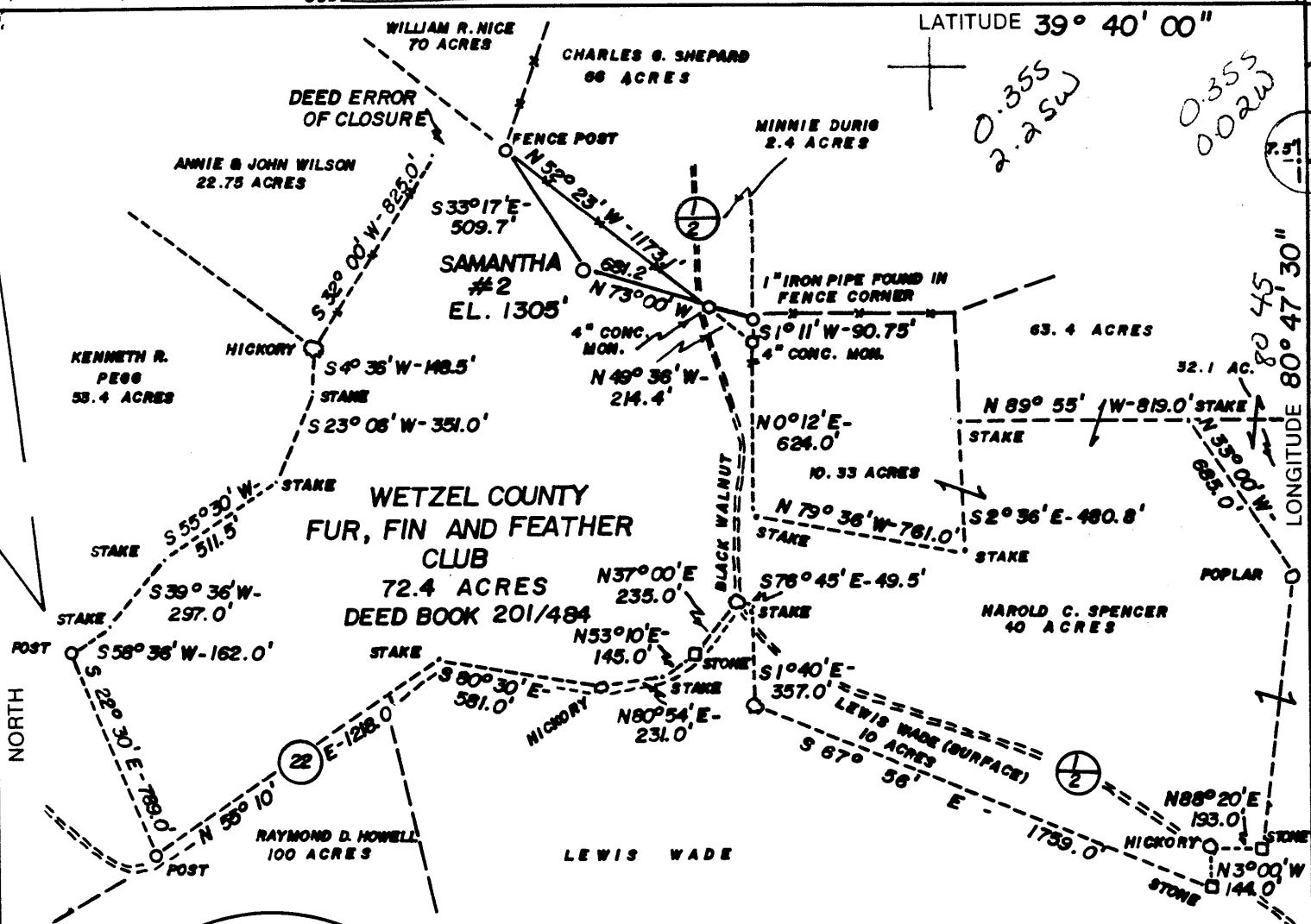


NORTH

LONGITUDE 80° 47' 30"



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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 600'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION  
1326'

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 January 24, 19 85  
 OPERATOR'S WELL NO. Samantha #2  
 API WELL NO. 103 - 1324  
47 - 103 - 1324  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1305' WATER SHED HAYNES RUN  
 DISTRICT MAGNOLIA 6 501 COUNTY WETZEL  
 QUADRANGLE NEW MARTINSVILLE 7.5 & 15'  
 SURFACE OWNER WETZEL CO. FUR, FIN, FEATHER CLUB ACREAGE 72.4 OF 122.4 AC.  
 OIL & GAS ROYALTY OWNER ROXANA HAFER et al LEASE ACREAGE 122.4 ACRES  
 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 MARCELLUS SHALE ESTIMATED DEPTH 5995' 6-0 unnamed (6)  
 WELL OPERATOR CLAY RESOURCES INC. DESIGNATED AGENT ANDY BROWN  
 ADDRESS 204 UNION SQUARE ADDRESS BOX 32  
172 MARIETTA OHIO 45750 READER, WV 26167

MAR 25 1985

FORM IV-6 (8-78)

H.T. HALL

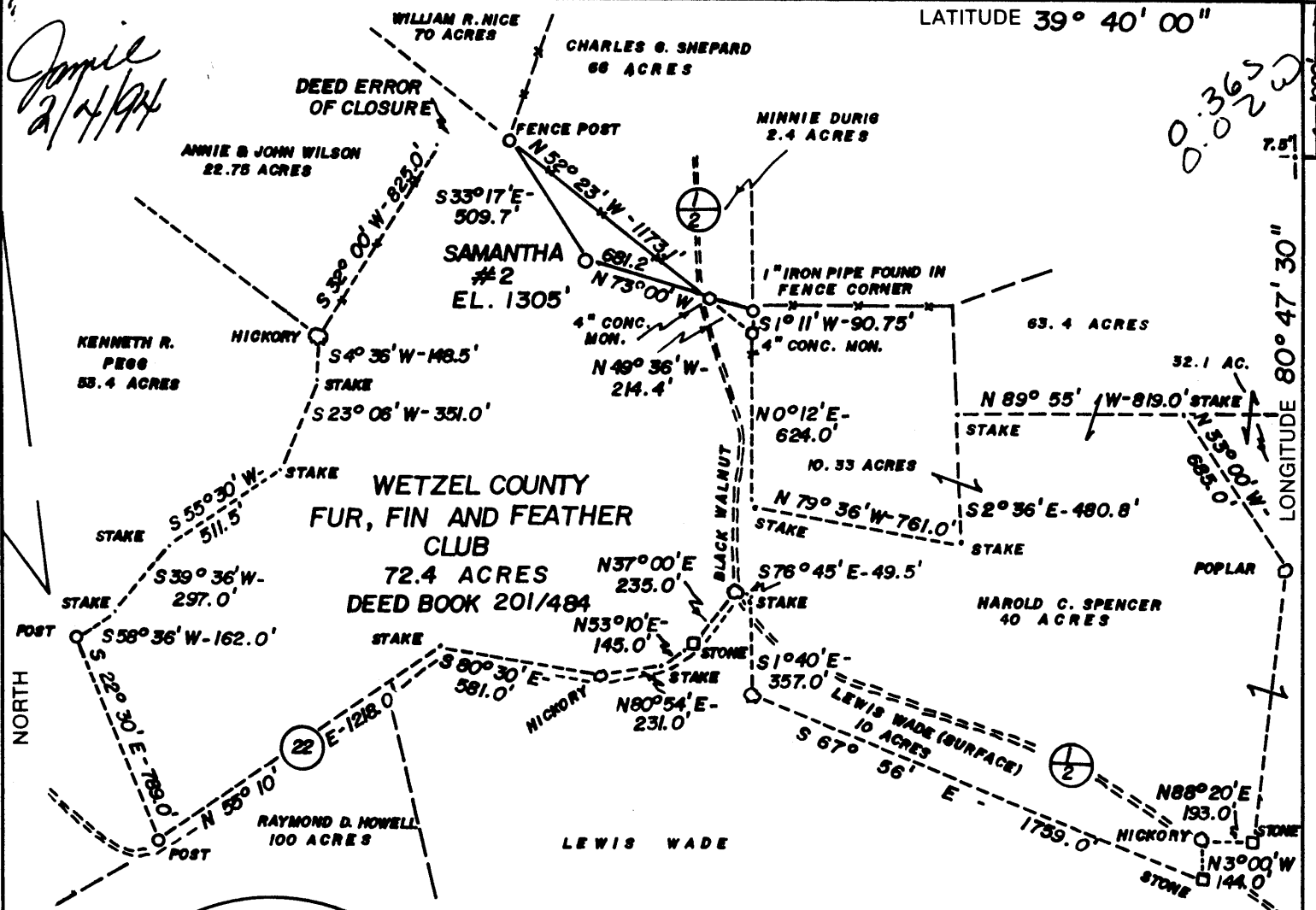
COUNTY NAME

PERMIT

1324

177-2 2/28/85

80'

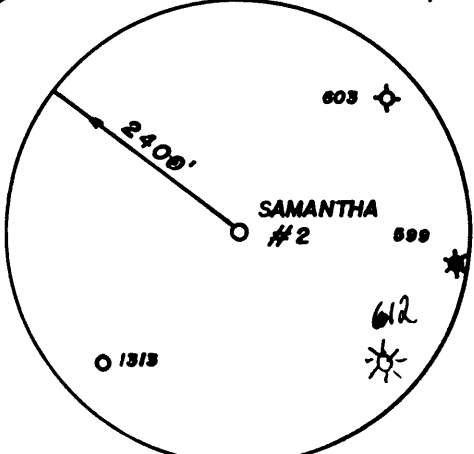


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0.02

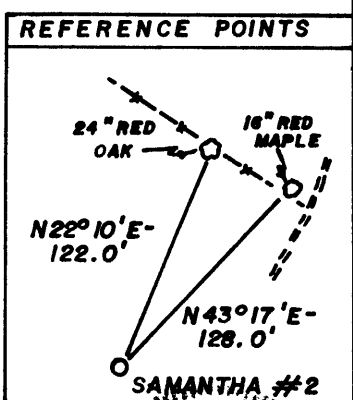
NORTH

LATITUDE 39° 40' 00"

LONGITUDE 80° 47' 30"



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



0.36  
2.24

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 600'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION  
1326'

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 January 24, 19 85  
 OPERATOR'S WELL NO. Samantha #2  
 API WELL NO. 103 - 1324 - F  
47 - 103 - ~~1324~~  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1305' WATER SHED HAYNES RUN  
 DISTRICT MAGNOLIA COUNTY WETZEL  
 QUADRANGLE NEW MARTINSVILLE 7.5' EC  
 SURFACE OWNER WETZEL CO. FUR, FIN, FEATHER CLUB ACREAGE 72.4 OF 122.4 AC.  
 OIL & GAS ROYALTY OWNER ROXANA HAFER et al LEASE ACREAGE 122.4 ACRES

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) \_\_\_\_\_  
frac New formation - Berea, Miss, Big Spring, Roanoke  
 PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 5995' 3100'

WEL Cobham Gas Industries, Inc. E Alan Anderson  
 ADC P.o. Box 1293 A Same Address  
 Bridgeport, wva. 26330-1293 PH: 304-842-9256

S632

WETZEL COUNTY NAME PERMIT 1324

FORM IV-6 (8-78) H.T. HALL

DEPARTMENT OF ENERGY  
OIL AND GAS



WR-35

FEB 21 1986

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date February 18, 1986  
Operator's Well No. Samantha #2  
Farm Fur, Fin, Feather Club  
API No. 47 - 103 - 1324

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: 1305 6 Watershed Haynes Run  
District: Magnolia County Wetzel Quadrangle New Martinsville 7.5'

COMPANY Clay Resources, Inc.  
ADDRESS 204 Union Square, Marietta, OH 45750  
DESIGNATED AGENT Andy Brown  
ADDRESS Box 32, Reader, WV 26167  
SURFACE OWNER Wetzel County, Fur, Fin, Feather Club  
ADDRESS 350 Pike Street, New Martinsville, WV  
MINERAL RIGHTS OWNER Roxana Hafer, et al  
ADDRESS Rt. #1, Box 94, Proctor, WV 26055  
OIL AND GAS INSPECTOR FOR THIS WORK Robert  
General Delivery  
Lowther ADDRESS Middlebourne WV 26149  
PERMIT ISSUED March 11, 1985  
DRILLING COMMENCED August 17, 1985  
DRILLING COMPLETED August 25, 1985  
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		1284	310 sx.
7			
5 1/2			
4 1/2		3100	200 sx.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 3200 feet  
Depth of completed well 3100 feet Rotary X / Cable Tools  
Water strata depth: Fresh feet; Salt 2285 feet  
Coal seam depths: 2895 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 3070-3073 feet  
Gas: Initial open flow 30 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 20 Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 72 hours  
Static rock pressure 320 psig (surface measurement) after 72 hours shut in  
(If applicable due to multiple completion--)  
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)

MAR 3 1986

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

PERFORATED: 13 shots: 3071 to 3074

FRAC'D: 9-18-85 : Gelled H<sub>2</sub>O: Broke @ 2200#: ISP 1560#: 40,000# 20/40:  
100 Gal. 15% HCL

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	580	
shale & limestone			580	1364	
shale, limestone, redrock			1364	1430	
shale & limestone			1430	2180	
shale			2180	2580	
sand & shale			2580	2630	
sand			2630	2780	
sand & shale			2780	2830	Berea: 2824-2832
shale			2830	<u>3100</u>	Gordon: 3070-3073 <i>et.</i>

(Attach separate sheets as necessary)

CLAY RESOURCES, INC.

Well Operator

By: Sandra L. Schaffer V. Pres. Operations

Date: February 18, 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

1031324 Fm

Issued 02/14/94

- 1) Well Operator: COBHAM GAS INDUSTRIES, INC. 10195 <sup>5632</sup> (6) 509
- 2) Operator's Well Number: SAMANTHA #2 3) Elevation: 1305 <sup>Expires 02/14/96</sup>
- 4) Well type: (a) Oil X / or Gas X /  
(b) If Gas: Production X / Underground Storage      /  
Deep      / Shallow X / <sup>395</sup>
- Proposed Target Formation(s): BEREA, WEIR, BIG INJUN, KEENER
- Proposed Total Depth: 3100 feet
- Approximate fresh water strata depths: N/A
- 8) Approximate salt water depths: 2285
- 9) Approximate coal seam depths: 1095
- 10) Does land contain coal seams tributary to active mine? Yes      / No X /
- 11) Proposed Well Work: RUN BOND LOG, PERFORATE AND FRAC UPHOLE ZONES THAT ARE BEHIND PIPE WITH CEMENT COVERAGE ACROSS AND ABOVE THE ZONES. Remove temporary Plug Comingle with CASING AND TUBING PROGRAM <sup>London production</sup>

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			1284	1284	310 SKS
Intermediate						
Production	4 1/2			3100	3100	200 SKS
Tubing						
Liners						

PACKERS : Kind       
 Sizes       
 Depths set     

For Division of Oil and Gas Use Only

125 3/4  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond (D) Blanket Agent

18635

125  
3/4  
S. J. [Signature]

1) Date: JANUARY 10, 1994  
2) Operator's well number  
SAMANTHA #2  
3) API Well No: 47 - 103 - 1324-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 FUR, FIN & FEATHER CLUB  
Address 350 PIKE STREET  
NEW MARTINSVILLE, WV 26155  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector RANDAL MICK  
Address \_\_\_\_\_  
MANNINGTON, WV 26582  
Telephone (304)- \_\_\_\_\_

5) (a) Coal Operator:  
Name CONSOLIDATION COAL CO.  
Address 1800 WASHINGTON RD.  
PITTSBURGH, PA 15241  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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

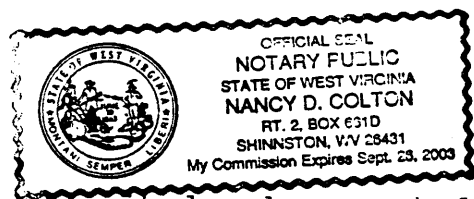
\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

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:

- X 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 COHAM 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 10<sup>th</sup> day of January, 1994

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

**RECEIVED**

FEB 11 1985

**OIL & GAS DIV.  
DEPT. OF MINES**



1) Date: February 7, 1985  
 2) Operator's Well No. Samantha #2  
 3) API Well No. 47 - 103 - 1324  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, 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: 1305' Watershed: Haynes Run  
 District: Magnolia County: Wetzel Quadrangle: New Martinsville 7.5'
- 6) WELL OPERATOR Clay Resources Inc.  
 Address 204 Union Square  
Marietta, Ohio 45750 10025
- 7) DESIGNATED AGENT Andrew C. Brown, Jr.  
 Address Box 32  
Reader, W. Va. 26167
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Robert Lowther  
 Address General Delivery  
Middlebourne, W. Va. 26149
- 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, Marcellus Shale
- 12) Estimated depth of completed well, 5000' feet
- 13) Approximate trata depths: Fresh, 550 feet; salt, 500 feet.
- 14) Approximate coal seam depths: 900-1000 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										Kinds
Fresh water	<u>8-5/8</u>					<u>1300'</u>	<u>1300'</u>	<u>CTS</u>		<u>Per rule 15.05</u>
Coal										Sizes
Intermediate										
Production	<u>4-1/2</u>					<u>5000</u>	<u>5000</u>	<u>500+ sks</u>		<u>Per rule 15.01</u>
Tubing										
Liners										Perforations:
										Top Bottom

**OFFICE USE ONLY  
DRILLING PERMIT**

Permit number 47-103-1324 Date March 11, 19 85

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 11, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>38</u>	<u>MM</u>	<u>MM</u>	<u>MM</u>	<u>105</u>

*Permit stop order on this bond 2/19/85*

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

*Margaret J. Hase*  
 Administrator, Office of Oil and Gas

File

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