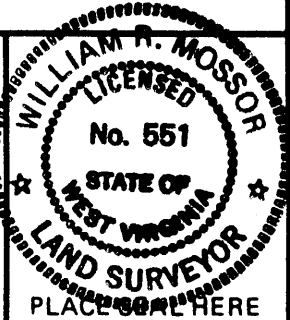


FILE NO. MB8-7
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INT. 1326' 6250' SE OF LOC.

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 MINES.
 (SIGNED) William R. Mossor
 R.P.E. _____ L.L.S. 551



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



DATE 4 MAY 19 86
 OPERATOR'S WELL NO. SCHUPBACH #2
 API WELL NO. _____
47 - 103 - 1401-F
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1353' WATER SHED HAYNES RUN
 DISTRICT MAGNOLIA COUNTY WETZEL
 QUADRANGLE NEW MARTINSVILLE 712' EL
 SURFACE OWNER DAVID SCHUPBACH ACREAGE 114
 OIL & GAS ROYALTY OWNER DAVID SCHUPBACH LEASE ACREAGE 114
 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):
Fracture New Formations Berea, Main, Big Spring, Keener
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION GORDON ESTIMATED DEPTH 3100' 3200'

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

5632
 Alan Anderson
 Same Address
 PH: 304-842-9256

10521
1750
LONGITUDE 80° 47' 30"
LATITUDE 39° 40'
WEST 1401

RECEIVED
 WV Division of
 Environmental Protection

JAN 06 1995

16-Feb-94
 API # 47-103-01401 F

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: SCHUPBACH, DAVID Operator Well No.: SCHUPBACH #2

LOCATION: Elevation: 1,353.00 Quadrangle: NEW MARTINSVILLE

District: MAGNOLIA County: WETZEL
 Latitude: 1750 Feet South of 39 Deg. 40Min. Sec.
 Longitude 5480 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: 02/16/94
 Well work Commenced: 4/25/94
 Well work Completed: 7/29/94
 Verbal Plugging
 Permission granted on:
 Rotary Cable Rig
 Total Depth (feet) 3200'
 Fresh water depths (ft) 150'

Salt water depths (ft) 1628'

Is coal being mined in area (Y/N)? Y
 Coal Depths (ft): 1143

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"		1530'	
4 1/2"		3160'	

OPEN FLOW DATA

Producing formation Weir Pay zone depth (ft) 2632
 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 150 Hours
 Static rock Pressure 500 psig (surface pressure) after 72 Hours

Second producing formation Big Injun Pay zone depth (ft) 2333
 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 150 Hours
 Static rock Pressure 500 psig (surface pressure) after 72 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: C. D. Anderson - Capt
 Date: 12/31/94

Perforations: Weir - 27 shots from 2632' to 2688'

Big Injun - 22 shots from 2333' to 2356'

Fracturing: Weir: 36,600 gal. of H₂O and 10,000 lbs. of sand

Big Injun: 1,000 gal. of 10% HCL and H₂O

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

20 perfs Gordon
3062-3075 .49 diameter

40,000 Lb Sand Foam Frac

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 MAY 04 1987

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Sand & Shale			0	2269	
Injun			2269	2327	
Sand & Shale			2327	2630	
Weir			2630	2686	
Sand & Shale			2686	2826	
Berea			2826	2830	
Sand & Shale			2830	3050	
✓ Gordon			3050	3076	
Sand & Shale			3076	3200	
TD			<u>3200</u>		

(Attach separate sheets as necessary)

Clay Resources, Inc.

Well Operator

By:

Sandra L. Schaefer

Date:

April 30, 1987

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."



1) Date: May 20, 1986
 2) Operator's Well No. D. Schupbach # 2
 3) API Well No. 47 103-1401
 State County Permit

RECEIVED
 JUN - 2 1986

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
 5) LOCATION: Elevation: 1353 Watershed: Haynes Run
 District: Magnolia County: Wetzel Quadrangle: New Martinsville 7.5'
 6) WELL OPERATOR Clay Resources, Inc 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 Mike Underwood 9) DRILLING CONTRACTOR:
 Name Don Blinn Name Unknown
 Address 2604 Crab 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
 12) Estimated depth of completed well, 3100 feet
 13) Approximate trata depths: Fresh, 225 feet; salt, 1903 feet.
 14) Approximate coal seam depths: 2143 1014 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	8 5/8					1300	1300	CTS	per rule 15.05
Coal									Sizes
Intermediate									
Production	4 1/2					3100	3100	500+SKS	Depths set Per rule 15.01
Tubing									
Lin.									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-103-1401 Date June 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 June 5, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
	<u>ALB</u>	<u>AS</u>	<u>AS</u>	<u>2283</u> <u>114</u>	<u>AS</u>	<u>AS</u>	

John H. Johnston
 Director, Division of Oil and Gas

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

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

File Margaret J. Hask

5279

14 94

Permitting

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION 103 1461 Fro

- 1) Well Operator: COBHAM GAS INDUSTRIES, INC. 10195 (6) 509
2) Operator's Well Number: D. SCHUBBACH #2 3) Elevation: 1353
4) Well type: (a) Oil X / or Gas X /
(b) If Gas: Production X / Underground Storage / Deep / Shallow X /
Proposed Target Formation(s): BEREA, WEIR, BIG INJUN, KEENER
Proposed Total Depth: 3200 feet
Approximate fresh water strata depths: 150
Approximate salt water depths: 1628
9) Approximate coal seam depths: 1143
10) Does land contain coal seams tributary to active mine? Yes / No X /

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. Remove Plus Commise with existing London CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), and CEMENT (Fill-up (cu. ft.)). Rows include Conductor, Fresh Water, Coal (8 5/8, 1530), Intermediate, Production (4 1/2, 3160), Tubing, and 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 [] Agent (Type)

RECEIVED
JAN 14 94

1) Date: JANUARY 10, 1994
2) Operator's well number D. SCHUPRACH #2
3) API Well No: 47 - 103 - 1401
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

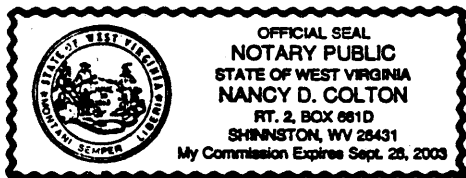
4) Surface Owner(s) to be served:
(a) Name DAVID SCHUPRACH
Address ROUTE #1, BOX 23
NEW MARTINSVILLE, WV 26155
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector RANDAL MICK
Address _____
MANNINGTON, WV, 26582
Telephone (304)- 986-3324

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 _____

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

Nancy D. Colton Notary Public
My commission expires September 25, 2003