

FILE NO. MB 8-4

DRAWING NO. _____

SCALE 1" = 500'

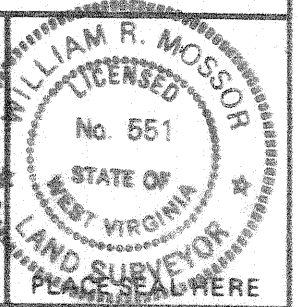
MINIMUM DEGREE OF ACCURACY 1:200

PROVEN SOURCE OF ELEVATION ROAD INT. ELEV. 675' IN MARSHALL CO.

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 20 MARCH 19 86

OPERATOR'S WELL NO. GLOVER #1

API WELL NO. 47-103-1393

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 640' WATER SHED PROCTOR CREEK
DISTRICT PROCTOR 7 COUNTY WETZEL
QUADRANGLE NEW MARTINSVILLE 7 1/2 509 091 NE3

SURFACE OWNER I.N. GLOVER ACREAGE 19

OIL & GAS ROYALTY OWNER I.N. GLOVER LEASE ACREAGE 19
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) _____

APR 14 1986

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____

TARGET FORMATION GORDON ESTIMATED DEPTH 3100'

WELL OPERATOR CLAY RESOURCES DESIGNATED AGENT ANDY BROWN

ADDRESS 286 FRONT STREET ADDRESS P.O. BOX 32
MARIETTA, OHIO 45750 112 READER, W.VA. 26167

RECEIVED
WV Division of
Environmental Protection
JUL 6 1997

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

Well Operator's Report of Well Work

Farm name: GLOVER, WILLIAM D.

Operator Well No.: GLOVER #1

LOCATION: Elevation: 640.00 Quadrangle: NEW MARTINSVILLE

District: PROCTOR County: WETZEL
Latitude: 1270 Feet South of 39 Deg. 42Min. 30 Sec.
Longitude 8040 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: COBHAM GAS INDUSTRIES, IN
231 DAVIS ST. P O BOX 1293
BRIDGEPORT, WV 00002-6330

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"		930'	250 sks
4 1/2"		2484'	250 sks

Agent: Richard Underwood

Inspector: RANDAL MICK
Permit Issued: 09/21/95
Well work Commenced: 10/2/95
Well work Completed: 10/6/95
Verbal Plugging
Permission granted on: _____
Rotary Cable Rig
Total Depth (feet) 2600'
Fresh water depths (ft) -

Salt water depths (ft) 1619'

Is coal being mined in area (Y/N)?
Coal Depths (ft): 440

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 1390-1500
Gas: Initial open flow 30 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 40 MCF/d Final open flow 1/2 Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 150 psig (surface pressure) after 12 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: Richard Underwood Agent
Date: 5/16/97

JUL 3 1997

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AUG 21 1986



IV-35
(Rev 8-81)

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
State of West Virginia
Department of Mines
Oil and Gas Division

Date 8/19/86
Operator's
Well No. Glover #1
Farm I.N. Glover
API No. 47 -103 -1393

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: 640 Watershed Proctor Creek
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 I.N. Glover
ADDRESS RT.#2 Box 00, 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 4/10/86
DRILLING COMMENCED 5/2/86
DRILLING COMPLETED 5/6/86
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	930	930	250SKS
7			
5 1/2			
4 1/2	2484	2484	250SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 3100 feet
Depth of completed well 2600 feet Rotary / Cable Tools ___
Water strata depth: Fresh ___ feet; Salt 1619 feet
Coal seam depths: 440 Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 2212-2234 feet
Gas: Initial open flow 20 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 30 Mcf/d Oil: 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-2214-2234 *Gordon*

Frac: 1Stage Foam:- Brake @ 3000; ISP-1650; 400SKS 20/40 sand;N2- 483,000 SCF

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	1300	
Limestone, Rock			1300	1600	Big Lime
Sand, Sandstone			1600	1750	
Sand, Shale,			1750	1850	Squaw-1756-1780 Wier-1806-1810
Sand, Limestone			1850	2000	
Sand, Shale			2000	2400	<u>Gordon-2212-2234</u>
Shale			2400	<u>2600</u>	

(Attach separate sheets as necessary)

Clay Resources, Inc.
Well Operator
By: *Jan Ketting*
Date: *Aug. 19, 1985*

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 those encountered in the drilling of a well."

SEP 20 1995

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

- 1) Well Permitting Operator: Cobham Gas Industries, Inc. 10195 (7) 509
- 2) Office of Oil & Gas
- 3) Operator's Well Number: GLOVER #1 3) Elevation: 640'
- 4) Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep / 371 Shallow
- 5) Proposed Target Formation(s): KEENER, BIG INJUN
- 6) Proposed Total Depth: 2607 feet
- 7) Approximate fresh water strata depths: 25' - 75'
- 8) Approximate salt water depths: 1619'
- 9) Approximate coal seam depths: 440'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: RUN BOND LOG, PERFORATE, FRACTURE KEENER THAT IS BEHIND PIPE (PROVIDED PROPER CEMENT COVERAGE, OR AFTER SQUEEZE CEMENTING), POSSIBLY TREAT UPPER BIG INJUN SECTION.
- 12) CASING AND TUBING PROGRAM

Issued 09/21/95
Expires 09/21/97

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	} 8 5/8			930'	930'	250 SKS
Coal						
Intermediate						
Production	4 1/2			2484'	2484'	250 SKS
Tubing						
Liners						

OK Remove any cement

Existing

from well records

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 Agent
(Type)

21189

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WV Division of Environmental Protection

SEP 20 1995

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

Page 1 of Form WW2-A (09/87) Surface Owner Copy

- 1) Date: June 29, 1995
2) Operator's well number GLOVER #1
3) API Well No: 47 - 103 - 1393 - F State - County - Permit

- 4) Surface Owner(s) to be served:
(a) Name IN. GLOVER & I.J. GLOVER
Address ROUTE 2 BOX 00 PROCTOR, WV 26055
(b) Name WILLIAM D. GLOVER
Address 83 GLOVIEW DRIVE NEW MARTINSVILLE, WV 26155
(c) Name Richard A. Glover
Address Rt. 1 Box 141 Proctor W.V. 26055
6) Inspector Randall Mick
Address Mannington, WV 26582
Telephone (304)-986-3324

- 5) (a) Coal Operator: Name N/A
(b) Coal Owner(s) with Declaration
(c) Coal Lessee with Declaration

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)

INSTRUCTIONS TO SURFACE OWNERS NAMED ABOVE

(Continued on Reverse)

The well operator named below is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22B of the West Virginia Code. Well work permits are valid for 24 months.

Well Operator Cobham Gas Industries, Inc.
By: ALAN D. ANDERSON
Its: Agent
Address PO Box 1293 Bridgeport, WV 26330
Telephone 304-842-9858

Subscribed and sworn before me this 24th day of June, 1995

Notary Public Rhoad J. Wharton My commission expires January 15, 2007

7/85

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MAR 26 1986



1) Date: March 25, 1986
 2) Operator's Well No. Glover #1
 3) API Well No. 47 103 - 1393
 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: 640' / Watershed: Proctor Creek
 District: Proctor / County: Wetzel / Quadrangle: New Martinsville 7.5'
 6) WELL OPERATOR Clay Resources, Inc CODE: 10025 7) DESIGNATED AGENT Andy Brown
 Address 286 Front St. / Address Box 32
Marietta, OH 45750 / Reader, WV 26167
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Don Ellis
 Address 2604 Carb 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 strata depths: Fresh, _____ feet; salt, 1619' feet.
 14) Approximate coal seam depths: 440' 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		
Conductor	11 5/8	Dive or			30'	below water, sand or gravel	90'	Class A neat cement Kinds 3% Cal. Chi. 1/4 lb flow seal per sac
Fresh water	8 5/8					840'	840'	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 47-103-1393 Date April 10 19 86

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 April 10, 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>1946</u>	WPCP: <u>AS</u>	S&E: <u>AS</u>	Other: _____
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NOTE: Keep one copy of this permit posted at the drilling location.

John W. Johnson 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.

5951