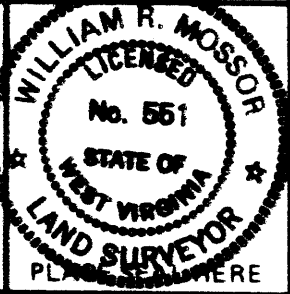


FILE NO. MB 7
 DRAWING NO. _____
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION R. R. TRESSEL
ELEV. 635'

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)
 WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS.") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1263' WATER SHED PROCTOR CREEK
 DISTRICT PROCTOR 1 COUNTY WETZEL
 QUADRANGLE NEW MARTINSVILLE 509 091 NE3
 SURFACE OWNER WA. HORNER - MARY HORNER ACREAGE 148.85
 OIL & GAS ROYALTY OWNER WILMA M. SITZER-MARY BUZZARD LEASE ACREAGE 148.85
 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, INC DESIGNATED AGENT ANDY BROWN
 ADDRESS 204 UNION SQUARE MARIETTA, OHIO 45750 ADDRESS BOX 32 READER, W.VA. 26167

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION
 DATE 2 FEBRUARY 19 86
 OPERATOR'S WELL NO. HORNER - 4
 API WELL NO. 47-103-1386
 STATE COUNTY PERMIT

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

PERFORATED: 20 Holes: 2817 - 2837 Gordon

FRAC: 75% FOAM: Broke @ 2200# : ISP 2200#: 20/40 sand 400 SKS:
N₂ 424,000 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, Sandstone, Limestone			0	1900	
Sandstone			1900	2200	Big Injun
Sand, Shale			2200	2550	
Sand			2550	2650	1st Berea: 2584-2593 2nd Berea: 2598-2604
Shale, Sandstone			2650	2750	
Shale			2750	<u>2956</u>	<u>Gordon: 2832-2846</u>

(Attach separate sheets as necessary)

CLAY RESOURCES, INC.

Well Operator

By:

John Kettinger

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 those encountered in the drilling of a well."

7/85

RECEIVED
FEB 24 1986



1) Date: February 18, 1986
 2) Operator's Well No. Horner #4
 3) API Well No. 47 103-1386
 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: 1263' Watershed: Proctor Creek
 District: Proctor County: Wetzel Quadrangle: New Martinsville
- 6) WELL OPERATOR Clay Resources 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 strata depths: Fresh, _____ feet; salt, 2242' feet.
- 14) Approximate coal seam depths: 1063' 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>1463'</u>	<u>1463'</u>	<u>CTS</u>	<u>Per rule 15.05</u>
Coal									Sizes
Intermediate									
Production	<u>4 1/2</u>					<u>3100' appr.</u>	<u>3100' appr.</u>	<u>500 + SKS</u>	<u>Depths set Per rule 15.01</u>
Tubing									
Line									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-103-1386

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: <u>AS</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>1797</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.

[Signature]
 Director, Division of Oil and Gas

File

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