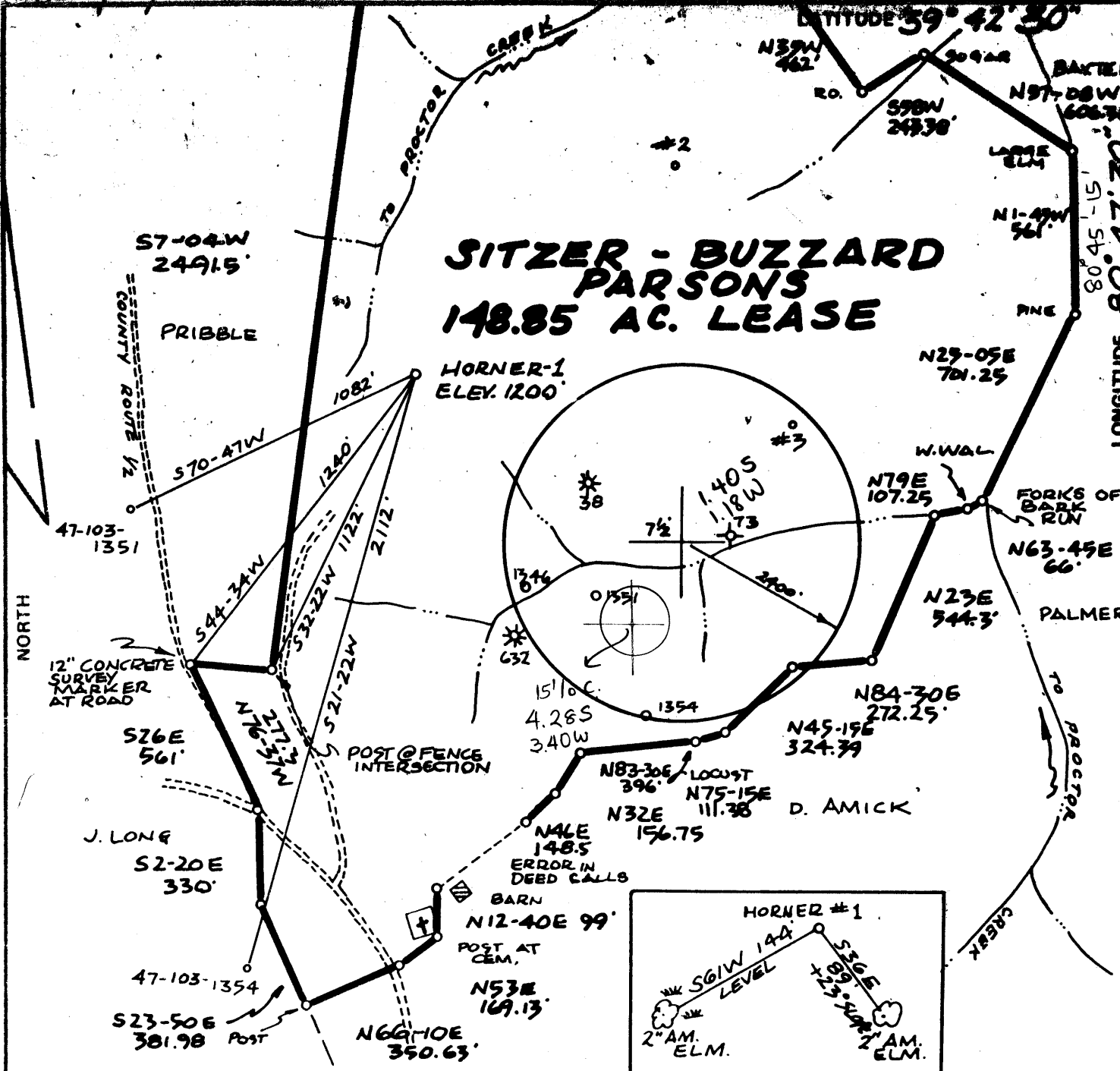


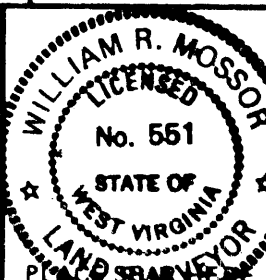
DS 1/07/85

6240' 39 45-15"



FILE NO. MB 6-9, 7-2  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION R.R. TRESSEL ELEV 655'

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 17 DECEMBER 19 85  
 OPERATOR'S WELL NO. HORNER-1  
 API WELL NO. 47-103-1383  
 STATE 47 COUNTY 103 PERMIT 1383

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 1200' WATERSHED PROCTOR CREEK  
 DISTRICT PROCTOR COUNTY WETZEL  
 QUADRANGLE NEW MARTINSVILLE 75+15' NE  
 SURFACE OWNER W.A. HORNER - MARY HORNER ACREAGE 148.85  
 OIL & GAS ROYALTY OWNER WILMA M. STIBER - 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 DESIGNATED AGENT ANDY BROWN  
 ADDRESS 204 UNION SQUARE ADDRESS BOX 32  
MARIETTA, OHIO 45750 READER, WVA 26167

OCT 20 1985

10/24/85

**RECEIVED**  
AUG 21 1986



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. Horner#1  
Farm W. Horner  
API No. 47 - 103 - 1383

**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: 1200 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 Woodrow Horner  
ADDRESS P.O. Box 3, Proctor, WV 26055  
MINERAL RIGHTS OWNER Same  
ADDRESS      
OIL AND GAS INSPECTOR FOR THIS WORK Don Ellis  
2804 Crab Apple Lane  
ADDRESS Fairmont, WV 26554  
PERMIT ISSUED 2/10/86  
DRILLING COMMENCED 4/16/86  
DRILLING COMPLETED 4/28/86  
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	1456	1456	330SKS
7			
5 1/2			
4 1/2	2995	2995	200SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 3100 feet  
Depth of completed well 3000 feet Rotary X / Cable Tools      
Water strata depth: Fresh     feet; Salt 2180 feet  
Coal seam depths: 990 Is coal being mined in the area? NO

OPEN FLOW DATA  
Producing formation Gordon Pay zone depth 2764-2808 feet  
Gas: Initial open flow 35 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow (30) 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 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)

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

Perf: 20 shots 2768-2788

Frac: 1 Stage Foam; Brake @ 3100; ISP-1250; 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, Red Rock			0	2300	
Sand, Sandstone			2300	2400	Squaw-2330-2340 Wfer-2376-2384
Sand, Shale			2400	2600	Berea-2524-2530
Shale			2600	2800	
Shale			2800	3000	Gordon
				TD	

(Attach separate sheets as necessary)

Clay Resources, Inc.  
Well Operator  
By: Gene Kettering  
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 all encountered in the drilling of a well."

**RECEIVED**  
JAN 3 1986



1) Date: December 27, 1985  
 2) Operator's Well No. Horner #1  
 3) API Well No. 47 103-1383  
 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: 1200' Watershed: Proctor Creek  
 District: Proctor 172 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 Robert Lowther DON ELLIS  
 Address General Delivery FAIRMONT, WV  
Middlebourne, WV 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, Gordon 418
- 12) Estimated depth of completed well, 3100' feet
- 13) Approximate strata depths: Fresh, ~450' Fresh H<sub>2</sub>O map; salt, 2179' 1384' feet.
- 14) Approximate coal seam depths: 410' 823' Is coal being mined in the area? Yes \_\_\_\_\_ / No   
\*FROM PERMIT # 103-0038
- 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						* 480'	* 480'	CTS Per Rule	Sizes 15.05
Fresh water	8 5/8					1400'	1400'	CTS	Per rule 15.05
Coal									Sizes
Intermediate									
Production	4 1/2					3100' appr.	3100' appr.	500 + SKS	Depths set Per rule 15.01
Tubing									
Lin...									Perforations:
									Top Bottom

\* ONLY TO BE RUN IF FRESH WATER IS ENCOUNTERED

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-103-1383 Date February 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 February 10, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>FB</u>	Plat: <u>BS</u>	Casing: <u>MS</u>	Fee: <u>1462</u>	WPCP: <u>MS</u>	S&E: <u>MS</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.