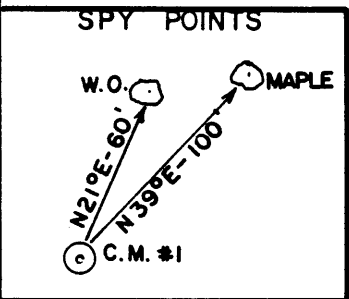
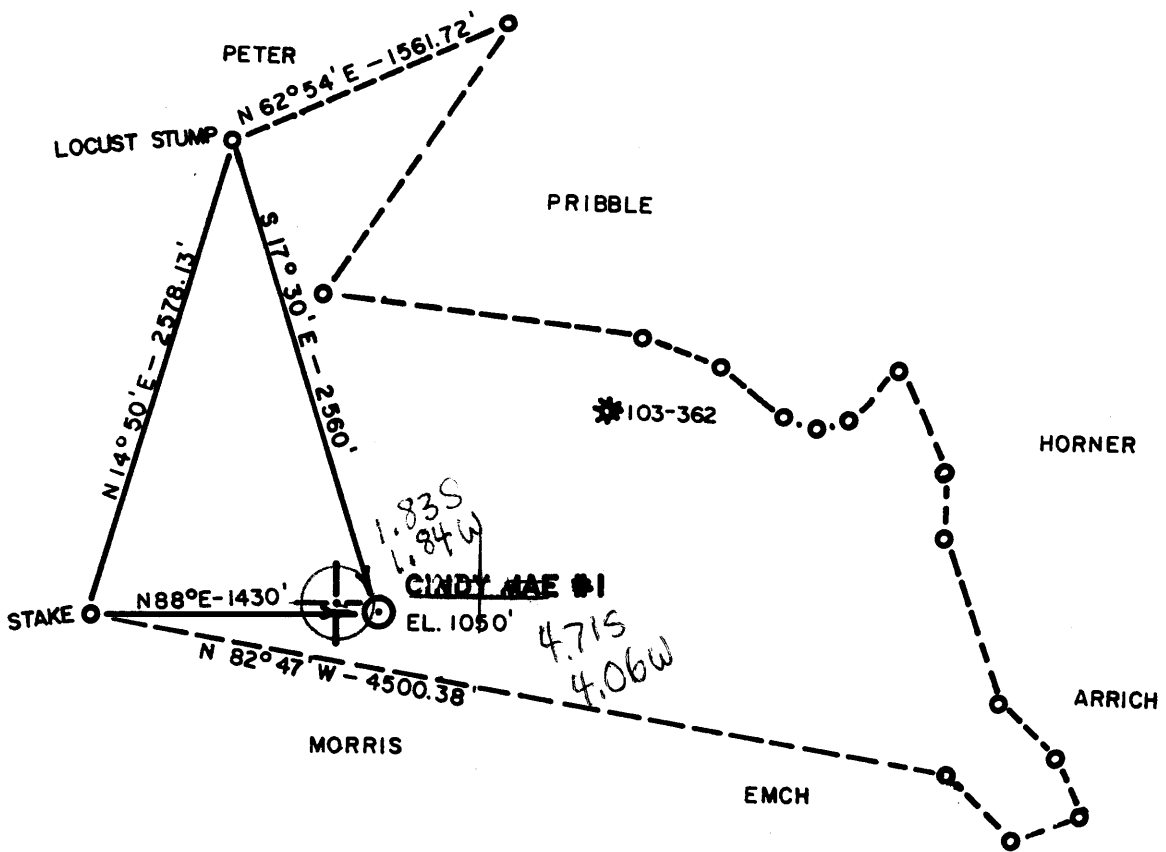


NORTH



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

FILE NO. 84-651  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1/200'  
 PROVEN SOURCE OF ELEVATION WELL #1 (1309')

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) Cher Watson  
 R.P.E. 3788 L.L.S. \_\_\_\_\_



**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF MINES  
**OIL AND GAS DIVISION**

DATE 11/5, 19 84  
 OPERATOR'S WELL NO. CINDY MAE #1  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_\_\_ GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_

LOCATION: ELEVATION 1050 WATERSHED HAYNES RUN  
 DISTRICT PROCTOR 7 509 COUNTY WETZEL  
 QUADRANGLE NEW MARTINSVILLE 7.5' & 1569/NE 3

SURFACE OWNER JUDY M. LONG ACREAGE 200  
 OIL & GAS ROYALTY OWNER HARRY L. NICE LEASE ACREAGE 200  
 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 5990' **DEC 17 1984**

WELL OPERATOR CLAY RESOURCES, INC. 172 DESIGNATED AGENT STEVE KUHL  
 ADDRESS 204 UNION SQUARE MARIETTA, OH 45750 ADDRESS 1004 - 41ST ST. VIENNA, WV 26105

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

COUNTY NAME  
 PERMIT

# RECEIVED

JUN 13 1985

OIL & GAS DIVISION

IV-35 DEPT. OF MINES  
(Rev 8-81)



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date May 24, 1985  
Operator's  
Well No. Cindy Mae #1  
Farm Judy Long  
API No. 47 - 103 - 1323

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil     / Gas X / Liquid Injection     / Waste Disposal     /  
(If "Gas," Production X / Underground Storage     / Deep     / Shallow     /)

LOCATION: Elevation: 1050' Watershed Haynes Run  
District: Proctor County Wetzel Quadrangle New Martinsville 7.5'

COMPANY Clay Resources Inc.  
ADDRESS 204 Union Square, Marietta, Ohio 45750  
DESIGNATED AGENT Andrew C. Brown, Jr.  
ADDRESS Box 32, Reader, W. Va.  
SURFACE OWNER Judy M. Long  
ADDRESS 230 Lang Drive, New Martinsville, W. Va.  
MINERAL RIGHTS OWNER Harry Nice  
ADDRESS 912 Highland Avenue, New Martinsville, W. Va.  
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther  
ADDRESS General Delivery Middlebourne, W. Va. 26149  
PERMIT ISSUED 11/30/84  
DRILLING COMMENCED December 10, 1985  
DRILLING COMPLETED April 15, 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"	500'	0	
9 5/8			
8 5/8	1370'	1370'	CTS
7	1681'	1681'	
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 3000' feet  
Depth of completed well 2680 feet Rotary     / Cable Tools XX  
Water strata depth: Fresh     feet; Salt N/A feet  
Coal seam depths: 400 - 405 745 - 750 Is coal being mined in the area? NO

OPEN FLOW DATA  
Producing formation Gordon Pay zone depth 2680' <sup>2610 -</sup> feet  
Gas: Initial open flow 300 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 180 Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 3 ~~hours~~ <sup>weeks</sup>  
Static rock pressure 550 psig (surface measurement) after 24 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation N/A 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.

No perforations, fractures, stimulations etc. Natural well.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Yellow Clay			0	9	Water
Gray Shale			9	35	
Red Shale			35	63	
Gray Shale			63	131	
Limestone			131	138	
Red Shale			138	141	
Gray Shale			141	150	
Red Shale			150	160	
Gray Shale			160	163	
Red Shale			163	180	
Gray Shale			180	185	
Sandstone			185	191	
Gray Shale			191	193	
Red Shale			193	195	
Gray Shale			195	210	
Red Shale			210	216	
Gray Shale			216	250	
Red Shale			250	263	
Gray Shale			263	284	
Red Shale			284	310	
Gray Shale			310	317	
Sandstone			317	325	
Red Shale			325	340	
Gray Shale			340	343	
Sandstone			343	352	
Gray Shale			352	373	
Limestone			373	376	
Gray Shale			376	400	
Coal			400	405	
Gray Shale			405	470	
Dark Gray Shale			470	473	
Gray Shale			473	577	
Red Shale			577	587	
Gray Shale			587	600	
Sandstone			600	615	
Gray Shale			615	653	
Red Shale			653	660	
Gray Shale			660	745	

(See Attached)

(Attach separate sheets as necessary)

Clay Resources, Inc.  
Well Operator  
By: Sandra L. Schafar  
Date: 6/11/85

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."

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Coal			745	750	
Gray Shale			750	890	
Red Shale			890	911	
Gray Shale			911	953	
Red Shale			953	1023	
Gray Shale			1023	1110	
Limestone			1110	1113	
Gray Shale			1113	1134	
Sandstone			1134	1143	
Gray Shale			1143	1180	
Sandstone			1180	1194	
Gray Shale			1194	1250	
Red Shale			1250	1295	
Gray Shale			1295	1310	
Sandstone			1310	1340	
Limestone			1340	1380	
Sandstone			1380	1400	
Dark Gray Shale			1400	1402	
Gray Shale			1402	1430	
Sandstone			1430	1473	
Dark Gray Shale			1473	1590	
Sandstone			1590	1605	
Dark Gray Shale			1605	1628	
Sandstone			1628	1700	
Gray Shale			1700	1785	
Sandstone			1785	1793	
Gray Shale			1793	1850	
Limestone			1850	1920	
Sandstone			1920	1940	
Sandstone			1940	2030	Engine - water
Slate Blk			2030	2033	
Sandstone			2033	2085	
Gray Shale			2085	2270	
Sandstone			2270	2280	
Slate & Shale			2280	2400	
Brown Shale			2400	2465	
Blue Shale			2465	2570	

(Attach separate sheets as necessary)

Clay Resources, Inc.  
Well Operator

By: Sandra L. Schaffer

Date: 6/11/85

JUN 21 1985

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sandy Shale			2570	2590	
Gray Shale			2590	2610	
Sandy Shale			2600	2610	
Blue Shale			2610	2680	Gordon - Gas
				TD.	

(Attach separate sheets as necessary)

Clay Resources, Inc.  
Well Operator

By: Sandra L. Schaefer  
Date: 6/11/85



1) Date: November 6, 19 84  
 2) Operator's Well No. #1 Cindy Mae  
 3) API Well No. 47 - 103 - 1323  
 State                      County                      Permit                     

**RECEIVED**  
1984

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
**APPLICATION FOR A WELL WORK PERMIT**

- OIL & GAS DIVISION**  
**DEPT. OF MINES**
- 4) WELL TYPE: A Oil  Gas   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )
- 5) LOCATION: Elevation: 1050' Watershed: Haynes Run  
 District: Proctor County: Wetzel Quadrangle: New Martinsville 7.5'
- 6) WELL OPERATOR Clay Resources, Inc.  
 Address 204 Union Square  
Marietta, Ohio 45750 *10025*
- 7) DESIGNATED AGENT Steve Kuhl  
 Address 1004 41st Street  
Vienna, W. Va.
- 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>1000'</u>	<u>1000'</u>	<u>CTS</u>	<u>Per rule 15.05</u>
Coal								<u>CTS by rule 15.05</u>	
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 47-103-1323 Date November 30, 19 84

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 November 30, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>30</u>	<u>le</u>	<u>M10</u>	<u>MH</u>	<u>468</u>

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

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

File

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