

gss 10/8/87

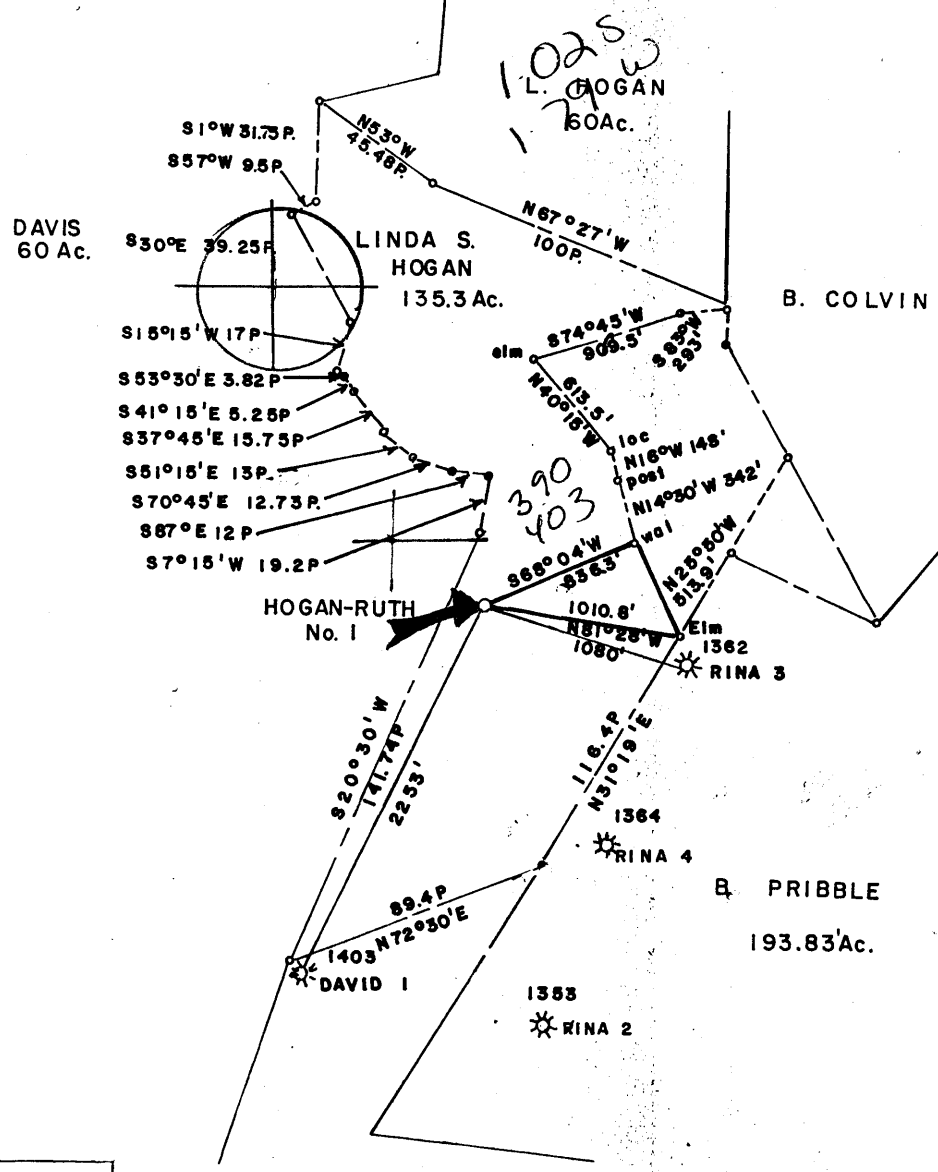
9500'

45

LATITUDE 39° 42' 30"

80° 47' 30"

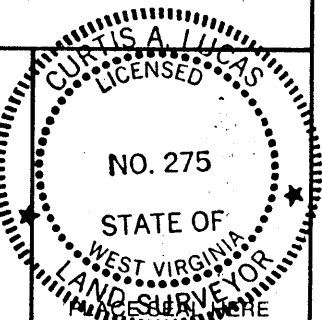
5400'



**LOCATION REFERENCE**  
 S46°45'W 121' v 8° Gum  
 N77°W 110' v 2° sm. tree in old fence

FILE NO. \_\_\_\_\_  
 MAP \_\_\_\_\_ SQS \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION RINA 3 (47-103-1362) EI 1282

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) Curtis A. Lucas  
 CURTIS A. LUCAS LLS 275



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



DATE AUG 14, 1987  
 FARM HOGAN-RUTH NO. 1  
 API WELL NO.

47 - 103 - 1422  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1246.5 WATER SHED HAYNES RUN  
 DISTRICT PROCTOR 7 COUNTY WETZEL  
 QUADRANGLE NEW MARTINSVILLE 7.5' 509 NE 3  
 SURFACE OWNER LINDA S. HOGAN ACREAGE 135.3  
 OIL & GAS ROYALTY OWNER LINDA S. HOGAN LEASE ACREAGE 230.5  
 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 3500'  
 WELL OPERATOR CLAY RESOURCES INC DESIGNATED AGENT ANDY BROWN  
 ADDRESS 204 UNION SQUARE MARIETTA OHIO 45750 ADDRESS P O BOX 32 6-6 Cameron-Garnor(23)  
 READER WV 26167

OCT 19 1987



Date March 9, 1988  
 Operator's  
 Well No. Hogan/Ruth #1  
 Farm Linda Hogan  
 API No. 47 - 103 - 1422

WR-35

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 MAR 11 1988

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

State of West Virginia  
 DEPARTMENT OF ENERGY  
 Oil and Gas Division

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: 1246.5 Watershed Haynes Run  
 District: Proctor County Wetzel Quadrangle New Martinsville 7.5'

COMPANY Clay Resources Inc.  
 ADDRESS P.O. Box 953, Marietta, Ohio 45750  
 DESIGNATED AGENT Andrew C. Brown, Jr.  
 ADDRESS Box 229, Piney Route, Pine Grove, W.Va.  
 SURFACE OWNER Linda Hogan  
 ADDRESS 1425 N. Penetaquit Ave. Bay Shore, N.Y.  
 MINERAL RIGHTS OWNER Same as above  
 ADDRESS \_\_\_\_\_  
 OIL AND GAS INSPECTOR FOR THIS WORK Mike  
Underwood ADDRESS Rt. 2, Box 135, Salem, W.Va.  
 PERMIT ISSUED October 14, 1987  
 DRILLING COMMENCED October 30, 1987  
 DRILLING COMPLETED November 3, 1987  
 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"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth \_\_\_\_\_ feet  
 Depth of completed well 2948' feet Rotary X / Cable Tools \_\_\_\_\_  
 Water strata depth: Fresh N/A feet; Salt 2226 feet  
 Coal seam depths: 1036' Is coal being mined in the area? NO

OPEN FLOW DATA  
 Producing formation Gordon Pay zone depth 2844-2860 feet  
 Gas: Initial open flow 50 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 48 hours  
 Static rock pressure 500 psig (surface measurement) after 48 hours shut in  
 (If applicable due to multiple completion--)  
 Second producing formation NONE 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)

MAR 18 1988

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

APR 11 1988  
 2:05 PM  
 4530701

Perforated at <sup>Gordon</sup> 2844-2860' - with 20 shots .49 diam.

Foam Frac 40,000 lbs sand, 212 BBLs water, rates as high as 24 BBL per minute.

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 & Shale			0	2164	
Injun			2164	2212	
Sand & Shale			2212	2394	
Weir			2394	2406	
Sand & Shale			2406	2588	
Berea			2588	2592	
Sand & Shale			2592	2844	
Gordon			2844	2860	
TD			2948		

(Attach separate sheets as necessary)

Clay Resources, Inc.

Well Operator

By: Sandy Schafer

*Sandy Schafer*

Date: March 9, 1988

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 during drilling of a well."

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1) Date: September 11, 1987  
 2) Operator's Well No. Hogan-Ruth # 1  
 3) API Well No. 47 -103-1422  
 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: 1246.5 Watershed: Haynes Run **508**  
 District: Proctor 17 J County: WETZEL 103 Quadrangle: New Martinsville 7.5'
- 6) WELL OPERATOR Clay Resources CODE: 10025 7) DESIGNATED AGENT Andy Brown  
 Address 286 Front St., Marietta, OH 45750 Address Box 229 Piney Route Pine Grove, WV 26419
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Mike Underwood Address Rt 2 Box 135 Salem, WV 26426  
 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, 3045 feet.  
 14) Approximate coal seam depths: 2035? 479-485 Is coal being mined in the area? Yes \_\_\_\_\_ / No \_\_\_\_\_
- 15) CASING AND TUBING PROGRAM 780-785-805-807 888 From 1362, 1364 Wetzzel

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					1400'	1400'	cts	per rule 15.05
Coal									Size <u>38 CSR 18-11.3</u>
Intermediate									<u>38 CSR 18-11.2.2</u>
Production	4 1/2					3100' approx	3100' approx	500+SKS	Depths <u>per rule 15.01</u>
Tubing									<u>38 CSR 18-11.1</u>
Lin...									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-103-1422 Date October 14 1987

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 October 14, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <u>233</u> <u>5140</u> <u>5145</u>	WP/CP: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
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NOTE: Keep one copy of this permit posted at the drilling location.  
John W. Johnston by Margaret J. Hess  
 Director, Division of Oil and Gas File

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