

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

PERFORATED: 20 Shots: 2788-2798 Gordon

FRAC: N2 = 1,200,000 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 & shale			0	600	
shale & limestone			600	1284	
shale, limestone, redrock			1284	1350	
shale, limestone			1350	2100	✓ Injun: 2100 - 2198
shale			2100	2500	✓ Sqaaw: 2352-2368 ✓ Berea: 2448-2452
Sand & shale			2500	2600	
sand			2600	2700	
shale			2700	<u>2918</u>	Gordon: 2802-2812
				T.D.	

(Attach separate sheets as necessary)

CLAY RESOURCES, INC.

Well Operator

By: Sandra L. Schopf

V.Pres. Operations

Date: February 18, 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 coal, encountered in the drilling of a well."

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NOV 25 1985



1) Date: Nov. 21, 1985
 2) Operator's Well No. Baxter #5
 3) API Well No. 47 103 - 1373
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
 DIVISION OF OIL & GAS
 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: 1180' Watershed: Proctor Creek
 District: Proctor 172 County: Wetzel Quadrangle: New Martinsville
- 6) WELL OPERATOR Clay Resources, Inc 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
 Address General Delivery
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 49
- 12) Estimated depth of completed well, 3100' feet
- 13) Approximate strata depths: Fresh, 240' - 330' feet; salt, ~1495' feet. Gas sand at approx. 1250' see unit 53
- 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		
Conductor	<u>11 3/4</u>					<u>360'</u>	<u>360'</u>	<u>C.T.S. by rule 15.05</u>
Fresh water	<u>8 5/8</u>					<u>1380'</u>	<u>1380'</u>	<u>CTS Per rule 15.05</u>
Coal								Sizes
Intermediate								
Production	<u>4 1/2</u>					<u>3100'</u>	<u>3100'</u>	<u>500 + SKS Depths set Per rule 15.01</u>
Tubing								
Lin...								Perforations:
								Top Bottom

If 2-string casing program is desired, must run no more than 1200' of 8 5/8 Cirs. to surface

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-103-1373 Date December 10 19 85

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 December 10, 1987 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: <u>MU</u>	Casing <u>MU</u>	Fee <u>1323</u>	WPCP <u>MU</u>	S&E <u>MU</u>	Other <u>MU</u>
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
 Director, Division of Oil and Gas

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

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