



Source of Elevation WELL #1 (1003)

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

Chet Waterman

Company **ROBERT P. EVANS DBA BAY STATE ENERGIES**
 Address **49 BROOMFIELD ST. BOSTON, MASS.**
 Farm **OSTEN E. FREEMAN ETUX**
 Tract **Acres 185** Lease No. _____
 Well (Farm) No. **4** Serial No. _____
 Elevation (Spirit Level) **1202'**
 Quadrangle **CENTERPOINT** *SC*
 County **DODDRIDGE** District **GREENBRIER**
 Engineer **CHET WATERMAN**
 Engineer's Registration No. **3788**
 File No. **76003-361** Drawing No. _____
 Date **8/30/76** Scale **1" = 40P**

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

WELL LOCATION MAP
 FILE NO **DOD-1832**

Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing. **47-017**



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle _____
Permit No. DOD-1832

Company <u>Bay State Energies</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>c/o Mr. Robert Evans, 49 Bromfield St. Boston, Ma 02108</u>				
Farm <u>Osten E. Freeman</u> Acres <u>185</u>				
Location (waters) <u>Long Run of Greenbrier Creek</u>	Size			
Well No. <u>four</u> Elev. <u>1202</u>	<u>20-16</u>			
District <u>Greenbrier</u> County <u>Doddridge</u>	Cond.			
The surface of tract is owned in fee by <u>Michael J. Jozwich, Sr.</u>	<u>13-10"</u>			
Address _____	<u>9 5/8</u>			
Mineral rights are owned by <u>Osten E. Freeman</u>	<u>8 5/8</u>	<u>453</u>	<u>453</u>	<u>255</u> sks Halliburton
<u>Etux</u> Address _____	<u>7</u>			
Drilling Commenced <u>4-12-77</u>	<u>5 1/2</u>			
Drilling Completed <u>4-17-77</u>	<u>4 1/2</u>		<u>2425</u>	<u>100</u> sks Halliburton
Initial open flow <u>show</u> cu. ft. _____ bbls.	<u>3</u>			
Final production <u>250,000</u> cu. ft. per day _____ bbls.	<u>2</u>			
Well open <u>12</u> hrs. before test <u>250</u> RP.	Liners Used			

40/10 W-2

Well treatment details:

Attach copy of cementing record.

Fraced by Halliburton 4-27-77 using 800 bbl. water, 500 gal. acid
25,000lbs. sand.

Coal was encountered at 360 Feet 36" Inches
Fresh water none Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth Perforate 20 holes 2340-2370 ft

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			0	110		
Slate & Shells			110	220		
Red Rock			220	360		
Coal			360	363		
Slate & Shells			363	1110		
Sand			1110	1160		
Slate & Shells			1160	1350		
Sand			1350	1440		
Slate & Shells			1440	1790		
Sand			1790	1900		
Slate			1900	1965		
Sand			1965	2010		
Slate & Red Rock			2010	2220		
Little Lime			- 2220	2230		
Slate			2230	2240		
Big Lime			- 2240	2316		
Big Injun Sand			2316	2375		
Slate			2375	2430		
T. D.			2430 ft.			

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

SEP 7 1976

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE September 3, 1976
 Surface Owner Michael J. Joswich, Sr. Company Robert F. Evans DBA Day State Energies
 Address _____ Address 27 Bromfield St. Boston, Mass. 02108
 Mineral Owner Osten E. Freeman Etux Farm Osten E. Freeman Acres 185
 Address _____ Location (waters) Long Run of Greenbrier Creek
 Coal Owner not-operating Well No. four (4) Elevation 1202'
 Address _____ District Greenbrier County Doddridge
 Coal Operator not-operating Quadrangle Centerpoint
 Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 1-7-77.

INSPECTOR
 TO BE NOTIFIED Paul Garrett
 ADDRESS 321 Beech St.,
Clarksburg, WV 26301
 PHONE 622-3871

[Signature]
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated November 14 19 60 by O.E. Freeman made to National Producers, Inc and recorded on the _____ day of _____ 19 60 in Doddridge County, Book 66 Page 370
 NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
 _____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours, DAY STATE ENERGIES
 BY: Warren R. Haught
 (Sign Name) _____ Well Operator

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
 P. O. BOX 879
 MORGANTOWN, WEST VIRGINIA 26505
 AC-304 - 292-6331

Address _____ Street _____
 of _____
 Well Operator Smithville,
 City or Town _____

"I have read and understand the reclamation West Virginia 26178 requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."
 State _____

SIGNED BY: Warren R. Haught

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

DODD-1832 PERMIT NUMBER

BLANKET BOND

47-017

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Glenn L. Haught & Sons NAME Warren R. Haught
 ADDRESS Smithville, WV 26178 ADDRESS Smithville, WV 26178
 TELEPHONE 304-477-5555 TELEPHONE 304-477-2211 Home
 ESTIMATED DEPTH OF COMPLETED WELL: 2300' ROTARY X 304-477-5555 Office CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Big Injun
 TYPE OF WELL: OIL _____ GAS * COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	200' 870'	200' 870'	Fill to surface
7			
5 1/2			
4 1/2	2300'	2300'	500 ft. fill up
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 140 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS ~~834'~~ 834' - 84'
 IS COAL BEING MINED IN THE AREA? _____ BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title