

FRAC 9/7/76

New Location

Drill Deeper

Abandonment

NOTE:

Osten E. Freeman et ux owns in Fee.

Company ROBERT P. EVANS DBA BAY STATE ENERGIES

Address 49 Bloomfield St. Boston. 02108

Farm OSTEN E. FREEMAN ET UX

Tract _____ Acres 185 Lease No. _____

Well (Farm) No. 2 Serial No. _____

Elevation (Spirit Level) 986'

Quadrangle CENTERPOINT SC

County DODDRIDGE District GREENBRIER

Engineer JOHN W. HAMILTON

Engineer's Registration No. 2274

File No. _____ Drawing No. _____

Date OCT. 13, 1960 Scale 1" = 40 POLES

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

WELL LOCATION MAP
FILE NO. DOD-484-FRAC

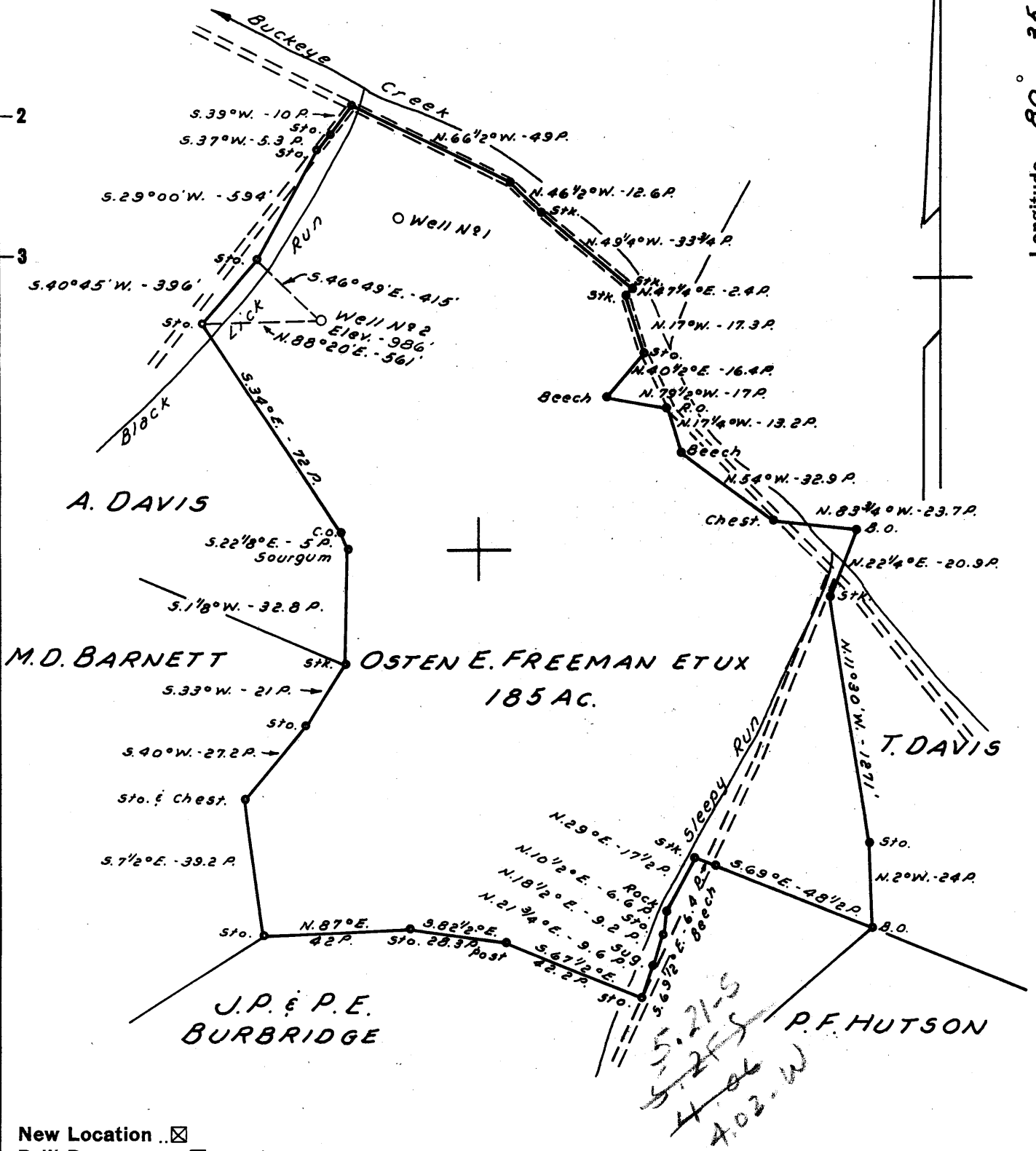
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-017

Latitude 39° 20'

Longitude 80° 35'



- New Location
- Drill Deeper
- Abandonment

NOTE: Osten E. Freeman et ux owns in Fee.

Company NATIONAL PRODUCERS INC.

Address BOX 184 MARIETTA, OHIO

Farm OSTEN E. FREEMAN ET UX

Tract _____ Acres 185 Lease No. _____

Well (Farm) No. 2 Serial No. _____

Elevation (Spirit Level) 986'

Quadrangle CENTERPOINT SC

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DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

FILE NO. DOD-484-F

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RECEIVED

FEB 26 1977

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS
DEPARTMENT

Oil and Gas Division

WELL RECORD

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

Quadrangle _____

Permit No. DODD-484 FRAC

Company <u>Robert P. Evans dba Bay State Energies</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>49 Bromfield St., Boston, Mass 02108</u>				
Farm <u>Oster E. Freeman</u> Acres <u>185</u>	Size			
Location (waters) <u>Long Run of Greenbrier Creek</u>	20-16			
Well No. <u>two</u> Elev. <u>986'</u>	Cond.			
District <u>Greenbrier</u> County <u>Doddridge</u>	13-10"			
The surface of tract is owned in fee by _____	9 5/8			
<u>Michael J. Joswich, Sr.</u>	8 5/8			
Address _____	7			
Mineral rights are owned by <u>Osten E. Freeman</u>	5 1/2			
<u>Et ux</u> Address _____	4 1/2			
Drilling Commenced _____	3			
Drilling Completed _____	2			
Initial open flow _____ cu. ft. _____ bbls.	Liners Used			
Final production <u>125,000</u> cu. ft. per day _____ bbls.				
Well open <u>8</u> hrs. before test <u>210</u> RP.				

Well treatment details:

Attach copy of cementing record.

Cleaned out to T. D. of 2276'

Well was acid fractured by Dowell with 1000 Gallons HCl

Coal was encountered at none Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Sand Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks

(over)

* Indicates Electric Log tops in the remarks section.

MAR 8 1977



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 5

Quadrangle Centerpoint

Permit No. DOD- 484

WELL RECORD

Oil or Gas Well O & G

Company National Producers Inc
Address Box 184 Mariette Ohio
Farm Osten Freeman Acres 185
Location (waters) Buckeye
Well No. 2 Elev. 986
District Greenbrier County Dodridge
The surface of tract is owned in fee by Osten Freeman Address Salem R.F.D. # 2
Mineral rights are owned by Osten Freeman Address _____
Drilling commenced Dec 5 1960
Drilling completed Jan 25 1961
Date Shot Feb 2 From 2222 To 2240
With Riverfrac
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 3000 30N Cu. Ft.
Rock Pressure 400 lbs. 24 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	16	16	
13			
10	290		Size of
8 3/4	1236	175	
6 3/4	2220	2220	Depth set 2220
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 5 1/2 SIZE No. Ft. 2220 Date 25
25 sacks cesmet & 10 sks. aquagel
Pawson Cementing Company
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED With 3 Allison

RESULT AFTER TREATMENT 3,000,000 700 - 24 hrs.

ROCK PRESSURE AFTER TREATMENT

Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil	Brown	Soft	00	15			16Ft Conducto
Sand	Brown	Med	15	25			
Red Rock	Red	Soft	25	75			290Ft 10"
Sand	Grey	Med	75	80			
Red Rock	White	Med	80	105			
Slate	Grey	Med	105	105			
Sand	Grey	Med	130	140			
Slate	Grey	Med	140	175			
Red Rock	Red	Soft	175	200			
Slate Shells	White	Med	200	280			
Lime	White	Hard	280	285			
Lime	Red	Hard	285	305			
Lime	White	Hard	305	350			
Red Rock	Red	Med	350	360			
Lime	White	Hard	360	380			
Sand	White	Hard	380	400			
Shells	White	Med	400	425			
Red Rock	Red	Med	425	440			
Slate Shells	White	Med	440	520			
Red Lime	Red	Hard	520	600			
Slate Shells	White	Med	600	725			
Sand	White	Hard	725	750			
Shale	Dark	Soft	750	757			
Shells	White	Med	757	795			
Sand	Hard	Hard	795	830			
Shells	White	Med	830	855			
Red Rock	Red	Soft	855	890			
Shells	White	Med	890	930			
Red Rock	Red	Soft	930	955			
Slate Shells	White	Med	955	1090			

Show of Water at 980Ft

Formation	Color	Hard or Soft	Top 5	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock	Red	Soft	1090	1150			
Slate	White	Soft	1150	1170			
Lime	Black	Hard	1170	1210			
Slate	Black	Soft	1210	1234			
Red Rock	Red	Hard	1234	1241			
Slate	Black	Soft	1241	1285			
Red Rock	Red	Med	1285	1290			
Slate Shells	White	Med	1290	1330			
Gas Sand	White	Med	1330	1355			
Slate	Black	Soft	1355	1365			
Sand	White	Hard	1365	1395			
Shells	White	Med	1395	1450			
Sand	White	Med	1450	1500			
Black Slate	Black	Soft	1500	1510			
1st Salt	White	Hard	1510	1545			
Slate Break	Black	Med	1545	1550			
Sand	Dark	Med	1550	1585			
Slate Shells	Black	Med	1585	1675			
2nd Salt	Dark	Med	1675	1760			
Slate Shells	Black	Med	1760	1840			
3rd Salt	Dark	Med	1840	1890			
Slate Shells	Black	Med	1890	1920			
Lime	Black	Med	1920	1985			
late Shells	Black	Med	1960	1985			
Waxton Sand	Dark	Med	1985	2000			
Slate	Black	Soft	2000	2030			
Little Lime	Grey	Hard	2030	2045			
Red Rock	Red	Soft	2045	2053			
Slate	Dark	Soft	2053	2070			
Big Lime	Grey	Hard	2070	2157			
Keener Sand	White	Hard	2157	2167			
Big Lime	Light	Hard	2167	2200			
Injun Sand	White	Med	2200	2215			
Slate	Black	Soft	2215	2218			
Sand	White	Med	2218	2250			
Slate	Black	Med	2250	2276	T.D.		2220ft 5 1/2 Pipe

Date March 15 1961, 19__

APPROVED National Producers Inc, Owner

By Thomas D. King
(Title) Pres



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 August 24, 1976
 Surface Owner Michael J. Jozwisch, Sr. Company Robert P. Evans DEA
BAY STATE ENERGIES
 Address 69 Bromfield St Address Boston, Mass. 02108
 Mineral Owner Osten E. Freeman Et ux Farm Osten E. Freeman Acres 185
 Address _____ Location (waters) Long Run of Greenbrier Creek
 Coal Owner _____ Well No. two (2) Elevation 986'
 Address _____ District Greenbrier County Doddridge
 Coal Operator _____ 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 fracturing. This permit shall expire if operations have not commenced by 1-8-77.

Robert P. [Signature]
Deputy Director - Oil & Gas Division

INSPECTOR
 TO BE NOTIFIED Paul Garrett
321 Beech St.,
 ADDRESS Clarksburg, WV 26301
 PHONE 622-3171

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 _____ 19____ by _____ made to _____ and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____
 _____ NEW WELL _____ DRILL DEEPER _____ REDRILL ~~XX~~ 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:

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

Address of Well Operator

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

Street 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.

BLANKET 3000

DOD-484 - FRAC. PERMIT NUMBER

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

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN _____ **XX** FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME **HAUGHT ENERGY CORPORATION** NAME **Warren R. Haught**
 ADDRESS **Smithville, WV 26178** ADDRESS **Smithville, WV 26178**
 TELEPHONE **477-5555** TELEPHONE **477-5555**
 ESTIMATED DEPTH OF COMPLETED WELL: **2276'** ROTARY _____ CABLE TOOLS **XX**
 PROPOSED GEOLOGICAL FORMATION: **Big Injun**
 TYPE OF WELL: OIL _____ GAS **XX** 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			
7			
5 1/2		2220	10 sacks
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS **140** FEET _____ SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS **none** _____
 IS COAL BEING MINED IN THE AREA? **no** 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