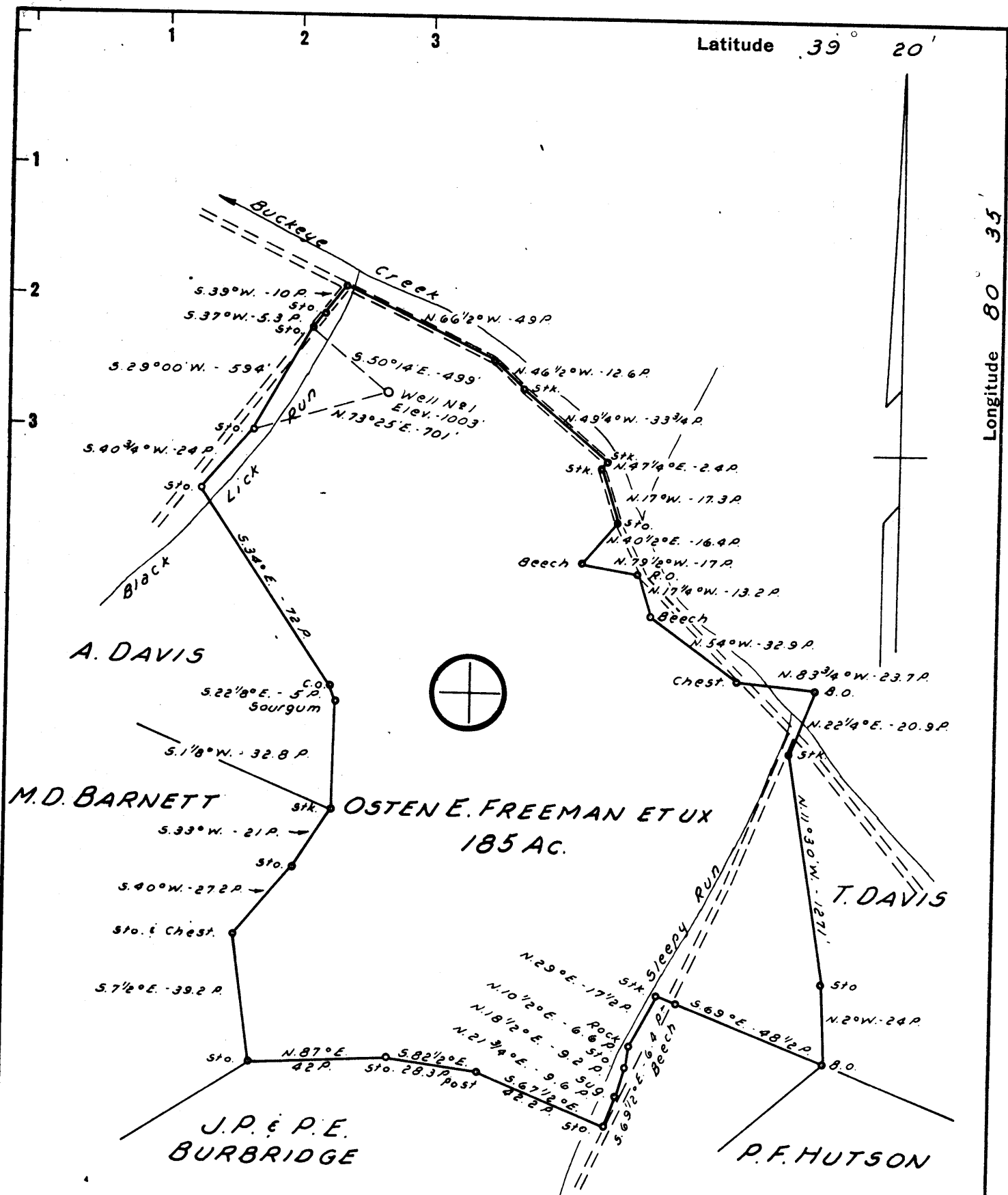


Latitude 39° 20'

Longitude 80° 35'



FRAC - 8/25/76~
 New Location REVIS^d: This replaces Plats dated Sept. 10 & Sept. 18, 1960
 Drill Deeper NOTE:
 Abandonment Osten E. Freeman et ux owns in Fee.

Company Robert P Evans dba Bay State Energias
 Address 89 Broomfield St Boston, Mass 02108
 Farm OSTEN E. FREEMAN ET UX
 Tract _____ Acres 185 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1003'
 Quadrangle CENTERPOINT SC
 County DODDRIDGE District GREENBRIER
 Engineer JOHN W. HAMILTON
 Engineer's Registration No. 2274
 File No. _____ Drawing No. _____
 Date OCT. 12, 1960 Scale 1" = 40 POLES

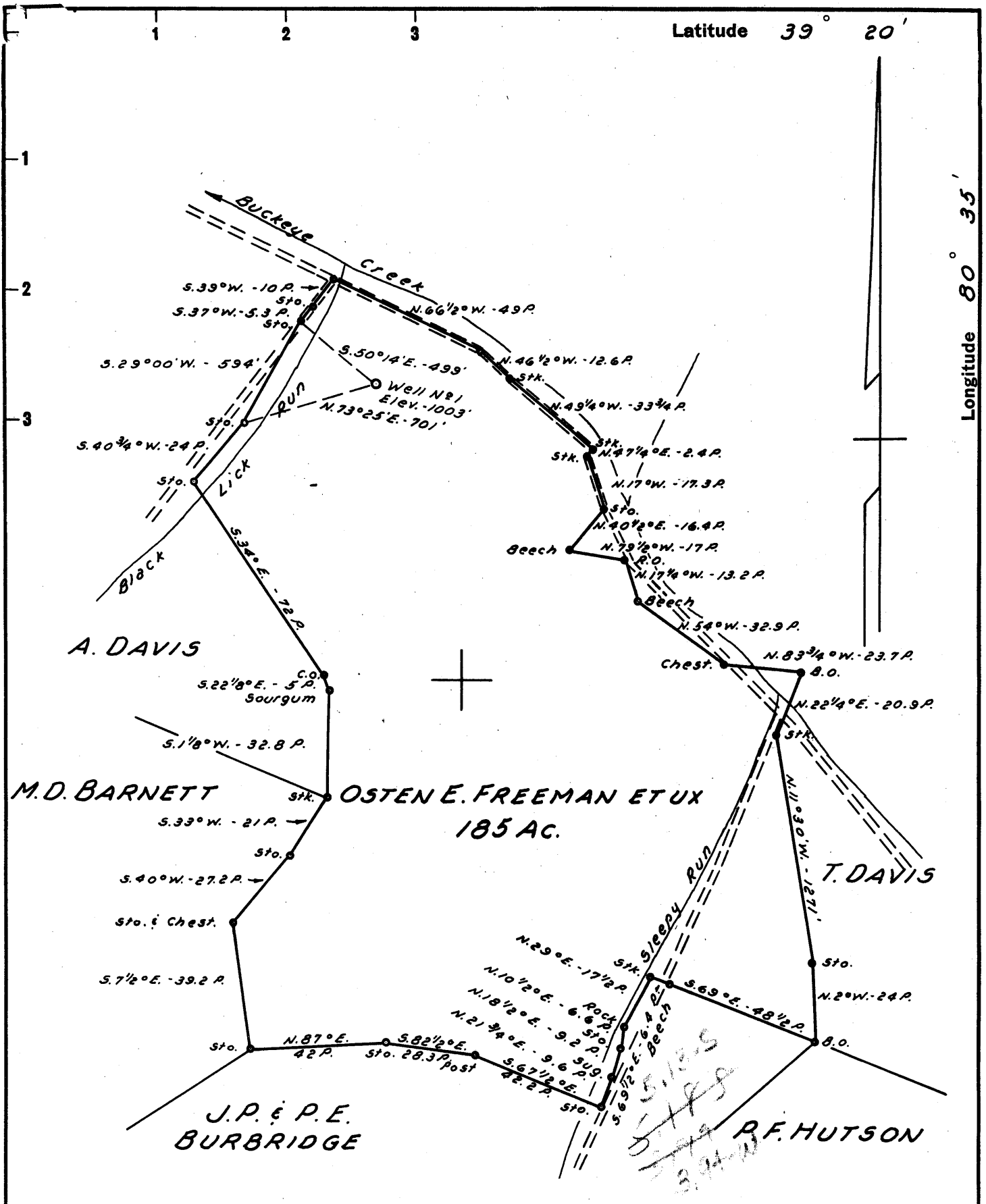
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. **DOD-464-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 AUG 30 1976



New Location REVISED: This replaces Plats dated Sept. 10 & Sept. 18, 1960
 Drill Deeper NOTE:
 Abandonment 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. 1 Serial No. _____
 Elevation (Spirit Level) 1003'
 Quadrangle CENTERPOINT SC
 County DOODRIDGE District GREENBRIER
 Engineer JOHN W. HAMILTON
 Engineer's Registration No. 2274
 File No. _____ Drawing No. _____
 Date OCT. 12, 1960 Scale 1" = 40 POLES

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

WELL LOCATION MAP
 FILE NO. DOD-464-REVISED

+ 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.



RECEIVED

FEB 28 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-464 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>Austin Freeman</u> Acres <u>185</u>	Size			
Location (waters) <u>Long Run of Greenbrier Creek</u>	20-16			
Well No. <u>one</u> Elev. <u>906' 1003</u>	Cond.			
District <u>Greenbrier</u> County <u>Doddridge</u>	13-10"			
The surface of tract is owned in fee by <u>Michael J. Jozwich, Sr.</u>	9 5/8			
Address _____	8 5/8			
Mineral rights are owned by <u>Osten E. Freeman</u>	7			
<u>Et ux</u> Address _____	5 1/2			
Drilling Commenced _____	4 1/2			
Drilling Completed _____	3			
Initial open flow <u>MLF</u> cu. ft. _____ bbls.	2			
Final production <u>110,000</u> ft. per day _____ bbls.	Liners Used			
Well open <u>8</u> hrs. before test <u>185</u> RP.				

Well treatment details:

Attach copy of cementing record.

Cleaned out to T. D. of 2047.

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 2022

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
<u>TD BIGINJUN</u>			<u>2047</u>			

(over)

* Indicates Electric Log tops in the remarks section.



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

Quadrangle Centerpoint

Permit No. DOD-464

WELL RECORD

Oil or Gas Well Oil and Gas
(KIND)

Company National Producers Inc.
Address Box 184, Marietta, Ohio
Farm Osten E. Freeman Acres 185
Location (waters) Buckeye Creek 1003-75'
Well No. 1 Elev. 963'
District Greenbrier County Doddridge
The surface of tract is owned in fee by Osten E. Freeman
Address Salem, W. Va.
Mineral rights are owned by Osten E. Freeman
Address Salem, W. Va.
Drilling commenced October 8, 1960
Drilling completed November 4, 1960
Date Shot _____ From _____ To _____
With _____
Open Flow 30 /10ths Water in _____ Inch
2 /10ths Merc. in _____ Inch
Volume 1,000,000 Cu. Ft.
Rock Pressure 640 lbs. 24 hrs.
Oil 50 bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	16'	16'	
18			
10	275'		Size of
8 1/4	1113'		
6 5/8	1997'	1997'	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 6 5/8 SIZE 1997 No. Ft. _____ Date _____
12 sks. Cement - 4 sks. Aquagel
Lawson Cementing Company
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED Yes - 600 bbls. 24,000 lbs. Sand

RESULT AFTER TREATMENT Good

ROCK PRESSURE AFTER TREATMENT 640 lbs.

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil	Yellow	Soft	0	12			16' Conductor
Sand	Grey	Hard	12	20			
Slate	White	Med.	20	40			
Sand	White	Med.	40	60			
Slate	White	Med.	60	125			Hole full water
Red Rock	Red	Med.	125	135			90'
Slate	White	Med.	135	155			
Sand	White	Hard	155	210			
Shells	White	Med.	210	315			
Lime	Red	Hard	315	375			276' 10" Pipe
Slate	White	Med.	375	515			
Sand	White	Med.	515	540			
Slate	Dark	Soft	540	550			
Shells	White	Med.	550	590			
Sand	White	Med.	590	620			
Slate	Dark	Med.	620	650			
Slate	White	Med.	650	715			
Rock	Red	Med.	715	765			
Slate	White	Med.	765	800			Show of water
Rock	Red	Med.	800	815			780'
Slate	White	Med.	815	880			
Rock	Red	Med.	880	920			
Slate	White	Med.	920	960			
Rock	Red	Med.	960	995			
Slate	White	Med.	995	1020			
Shells	Black	Med.	1020	1060			
Rock	Red	Soft	1060	1070			Depthometer
Slate	White	Med.	1070	1180			Run 1113'
Gas Sand	White	Med.	1180	1210			8" Pipe

Formation	Color	Hard or Soft	Top 5	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	Black	Soft	1210	1220			
Sand	White	Med.	1220	1260			
Slate	Black	Med.	1260	1310			
Sand	White	Hard	1310	1330			
Slate	Black	Soft	1330	1340			
1st. Salt Sand	White	Med.	1340	1375			
Slate	Black	Med.	1375	1465			
2nd. Salt Sand	Dark	Hard	1465	1540			
Slate	Black	Med.	1540	1605			
3rd. Salt Sand	Grey	Hard	1605	1660			
Slate	Black	Med.	1660	1680			
Lime	Black	Hard	1680	1730			
Slate	Black	Med.	1730	1840			Depthometer Run 1724'
Little Lime	Dark	Hard	1840	1870			
Slate	Dark	Soft	1870	1885			
Big Lime	Dark	Hard	1885	1933			
Sand	Grey	Hard	1933	1936			
Big Lime	Grey	Hard	1936	1963			
Keener	White	Very Hard	1963	1994			
Big Injun Sand	Grey	Hard	1994	2022			
Slate	White	Soft	2022	2047			1997' 7" Casing
TOTAL DEPTH		2047'					

Date _____, 19____

APPROVED _____, Owner

By _____ (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

AUG 24 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.

Surface Owner _____
Address _____
Mineral Owner _____
Address _____
Coal Owner _____
Address _____
Coal Operator _____
Address _____

DATE August 24, 1976
Company Robert P. Evans dba/
BAY STATE ENERGIES
Address 49 Bromfield St.
Boston, Mass. 02108
Farm Austin Freeman Acres _____
Location (waters) Long Run of Greenbrier Creek
Well No. 1 Elevation 906'
District Greenbrier County Doddridge
Quadrangle _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

Provisions being in accordance with Chapter 22,
the W. Va. Code, the location is hereby approved
for fracturing. This permit shall expire if
operations have not commenced by 12-24-76.

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

Robert P. Evans
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 _____ 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.

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

✓ 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

Street
Smithville, W. va.
City or Town
26178
State

*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 BOND

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 K. Haught,**
 ADDRESS **Smithville, W.Va. 26178** ADDRESS **Smithville, W. Va. 26178**
 TELEPHONE **477-5555** TELEPHONE **477-5555**
 ESTIMATED DEPTH OF COMPLETED WELL: **2047** 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		1997'	10 Sacks
5 1/2			
4 1/2			
3			Perf. Top
2		2047	Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS **780** 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