

LATITUDE 39° 17' 30"  
(15') 39° 20'  
W 9550  
S 3750

N 85° 43' E 102.14'  
N 63° 32' E 406.2'  
S 26° 07' E 50.13'

S 41° 36' E 112.18'  
Worthington Creek  
40' to E Creek

950.27'  
0.725  
1.82 W

S 84° 29' W 1218.8'  
W.W. Johnson WELL #1  
15' R.O.

3.605  
4.05 W

James M. McCutcheon  
Deed Book 522, Pg. 268

PARKERSBURG CLAY

DIST. DIST.

81° 25'  
81° 27' 30"  
(15')  
LATITUDE

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1"=500'  
MINIMUM DEGREE OF ACCURACY 1' in 500'  
PROVEN SOURCE OF ELEVATION U.S.G.S BENCH

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) Paul K. Marshall  
R.P.E. \_\_\_\_\_ L.L.S. 580



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
FORM IV-6  
(8-78)



DATE \_\_\_\_\_, 19\_\_\_\_  
OPERATOR'S WELL NO. 7  
API WELL NO. 47-107-1008  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
( IF "GAS", PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 611 WATER SHED Worthington Creek  
DISTRICT CLAY COUNTY Wood  
QUADRANGLE VALLEY MILLS, W.Va.-Ohio MARIETTA 15' SW  
SURFACE OWNER W.W. Johnson ACREAGE 85  
OIL & GAS ROYALTY OWNER CARBONIT EXPLORATION, Inc. LEASE ACREAGE 86  
LEASE NO. \_\_\_\_\_  
PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL  FRACTURE OR STIMULATE \_\_\_ PLUS OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUS \_\_\_  
TARGET FORMATION OHIO SHALE ESTIMATED DEPTH 5,000'  
WELL OPERATOR Carbonit Exploration, Inc. DESIGNATED AGENT Gerald W. Townsend  
ADDRESS 2190 North Loop West, Suite 401, Houston, Texas 77018 ADDRESS 5th and Green Streets, Parkersburg, West Virginia



DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.  
42 perforations from 2081' - 3736' water, 4,000 gal 15% HCl + 1,098,000 SCF N<sup>2</sup>  
+ 41,000 20-40 sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Injun			1474	1644	
Squaw			1654	1662	
Weir Sand			1696	1704	
Wells Stray Sand			1892	1899	
Berea Sand			1956	1960	
30 Foot Sand			2174	2180	
Gordon Sand			2273	2286	

(Attach separate sheets as necessary)

NEVA Petroleum Corp.\* (See Attached Memo)

Well Operator

By:

Date: June 15, 1982

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."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

MAY - 8 1980

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE May 8, 1980

Surface Owner W. W. Johnson, et al

Company Carbonit Exploration, Inc.

Address Rt. 2, Box 524, Parkersburg, West Va.

Address 2190 North Loop West, Suite 401

Mineral Owner W. W. Johnson, et al

Farm \_\_\_\_\_ Acres 209

Address Rt. 2, Box 524, Parkersburg, West Va.

Location (waters) Worthington Creek

Coal Owner None

Well No. #1 Elevation 611

Address \_\_\_\_\_

District Clay County Wood

Coal Operator None

Quadrangle Valley Mills, W. Va & Ohio

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 1-8-81.

INSPECTOR  
TO BE NOTIFIED K. Paul Goodnight

ADDRESS Smithville, West Virginia 26178

PHONE (304) 477-3660

Robert L. Murdock  
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 March 12 1980 by W. W. Johnson & Sylvia Ireland made to Carbonit Exploration, Inc. and recorded on the 14th day of April 1980, in Wood County, Book 735 & 736 Page 217 & 70

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 N/A 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,

(Sign Name) \_\_\_\_\_

<sup>Well Operator</sup>  
Carbonit Exploration, Inc.  
2190 North Loop West

Address  
of  
Well Operator

Street

Houston

City or Town

Texas 77018

State

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

\*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

47-107-1008

PERMIT NUMBER

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

Signed by Robert L. Murdock  
Robert L. Murdock, Drilling Supervisor

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

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN X FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME Gene Stalnaker, Inc. NAME Gerald W. Townsend  
 ADDRESS P. O. Box 178, Glenville, West Va. 26351 ADDRESS 5th and Green Street, Parkersburg,  
 TELEPHONE (304) 462-5701 TELEPHONE (304) 422-5449 West Va.  
 ESTIMATED DEPTH OF COMPLETED WELL: 5,000' ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Ohio Shale  
 TYPE OF WELL: OIL X GAS X 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 1600'	1600'	1600'	circ., cem. to surface
7			
5 1/2			
4 1/2 9.5# 5000'	5000'	5000'	150 sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET None SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS None  
 IS COAL BEING MINED IN THE AREA? No. BY WHOM? N/A

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