



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1 inch = 500 feet  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION USGS BM S of Loc.  
 Elev. = 888'

I 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.

*Mark C. Echard*  
 (SIGNED) MARK C. ECHARD  
 R.P.E. \_\_\_\_\_ L.L.S. 490

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)

DATE JANUARY 16, 1981  
 OPERATOR'S WELL NO. ONE  
 API WELL NO. 47-017-2955  
 STATE 47 COUNTY 017 PERMIT 2955

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 1035' WATER SHED BUCK RUN  
 DISTRICT COVE COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 7.5' Var 15' WC

SURFACE OWNER EDMUND COLE ACREAGE 202  
 OIL & GAS ROYALTY OWNER EDMUND COLE, et al LEASE ACREAGE 202  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5500'  
 WELL OPERATOR CARSON PETROLEUM CORP DESIGNATED AGENT MR. LOWELL M. JOHNSON / MR. JERRY MASONER  
 ADDRESS BOX 133 ADDRESS BOX 133  
SAND FORK, W.V. 26430 SAND FORK, W.V. 26430

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

Date April 28, 1981

FORM IV-35  
(Obverse)

Operator's  
Well No. VanWerth #1

[08-78]

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 017 - 2955  
State County Perm

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal  /  
(If "Gas", Production  / Underground storage  / Deep  / Shallow  /)

LOCATION: Elevation: 1035' Watershed: Big Buck Run  
District: New Milton County: Doddridge Quadrangle: New Milton

WELL OPERATOR Carson Petroleum Corporation DESIGNATED AGENT Lowell M. Johnson  
Address P O Box 133 Address P O Box 133  
Sand Fork, WV 26430 Sand Fork, WV 26430

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Redrill  / Fracture or stimulate   
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON January 20, 1981 OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED \_\_\_\_\_) Name Steve Casey  
Address Jane Lew, WV  
884-7470

GEOLOGICAL TARGET FORMATION: Elk Depth 5374 feet  
Depth of completed well, 5494 feet Rotary  / Cable Tools   
Water strata depth: Fresh, 107 feet; salt, \_\_\_\_\_ feet.  
Coal seam depths: None Is coal being mined in the area? No  
Work was commenced February 7, 1981, and completed February 12, 1981

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								Kinds
Fresh water	8 5/8					1131'	1131'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2					5469'	160 sks	Depth set
Tubing								
Liners								Perforations:
								Top Bottom

OPEN FLOW DATA

Producing formation Benson Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, 0 Bbl/d  
Final open flow, \_\_\_\_\_ Mcf/d Final open flow, 0 Bbl/d  
Time of open flow between initial and final tests, \_\_\_\_\_ hours  
Static rock pressure, \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in  
[If applicable due to multiple completion--]  
Second producing formation Alexander Pay zone depth 5341-5374 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, 0 Bbl/d  
Final open flow, 762 Mcf/d Final open flow, 0 Bbl/d  
Time of open flow between initial and final tests, 14 hours  
Static rock pressure, 1280 psig (surface measurement) after 24 hours shut in

MAY 21 1981

[08-78]

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

Fractured April 27, 1981

Elk - 10,000 lb. 80/100 sand  
30,000 lb. 20/40 sand  
20.2 BPM at 2100 lbs.  
465 bbls water

Benson - 10,000 lb. 80/100 sand  
30,000 lb. 20/40 sand  
21.2 BPM at 1950 lbs.  
575 bbls. water  
3000 lb. breakdown

Perforations - 5347 - 5374, 9 holes

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Red Rock, Sand, Shale		1	0	2094	Water at 107'
Pencil Cave Shale			2094	2123	
Blue Monday			2123	2150	
Big Lime			2150	2215	
Big Injun			2215	2293	
Gray Shale			2293	2360	
Weir Sand			2360	2477	
Gray Shale			2477	2568	
Gantz Sand			2568	2583	
Gray Shale			2583	5043	
Benson Sand			5043	5054	
Gray Shale			5054	5162	
Leopold Sand			5162	5186	
Gray Shale			5186	5315	
Elk Sand			5315	5419	
Gray Shale			5419	5494	
Total Depth			5494		

(Attach separate sheets to complete as necessary)

Carson Petroleum Corporation  
Well Operator  
By L. M. Johnson  
Its Agent

**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."



VanWerth #1

RECEIVED

JAN 20 1981

COPY

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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 January 16, 1981

Surface Owner Edmond Cole  
Address New Milton, WV  
Mineral Owner Edmond Cole  
Address New Milton, WV  
Coal Owner N/A  
Address \_\_\_\_\_  
Coal Operator N/A  
Address \_\_\_\_\_

Company Carson Petroleum Corporation  
Address P O Box 133, Sand Fork, WV 26430  
Farm Van Werth Acres 202  
Location (waters) Big Buck Run  
Well No. One Elevation 1035'  
District New Milton County Doddridge  
Quadrangle New Milton

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 9-21-81.

INSPECTOR  
TO BE NOTIFIED Steve Casey

ADDRESS Jane Lew, WV

PHONE 884-7470

*[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 January 14 1981 by Triangle  
Oil Co. made to Carson Petroleum Corporation and recorded on the \_\_\_\_\_ day of \_\_\_\_\_  
19, in NOT OF RECORD County, Book \_\_\_\_\_ Page \_\_\_\_\_

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:

OFFICE OF OIL AND GAS  
1615 Washington Street, East  
Charleston, West Virginia  
Area Code 304 -348-3092 348-3096

Address  
of  
Well Operator

P O Box 133 Street  
Sand Fork City or Town  
West Virginia 26430 State

Very truly yours, Carson Petroleum Corporation  
(Sign Name) *[Signature]*  
Well Operator

\*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.

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 *[Signature]*

47-017- 2955 PERMIT NUMBER

