

LATITUDE: 39-07-30

39° 07' 30" Topo. Loc. 7.5'

50' W

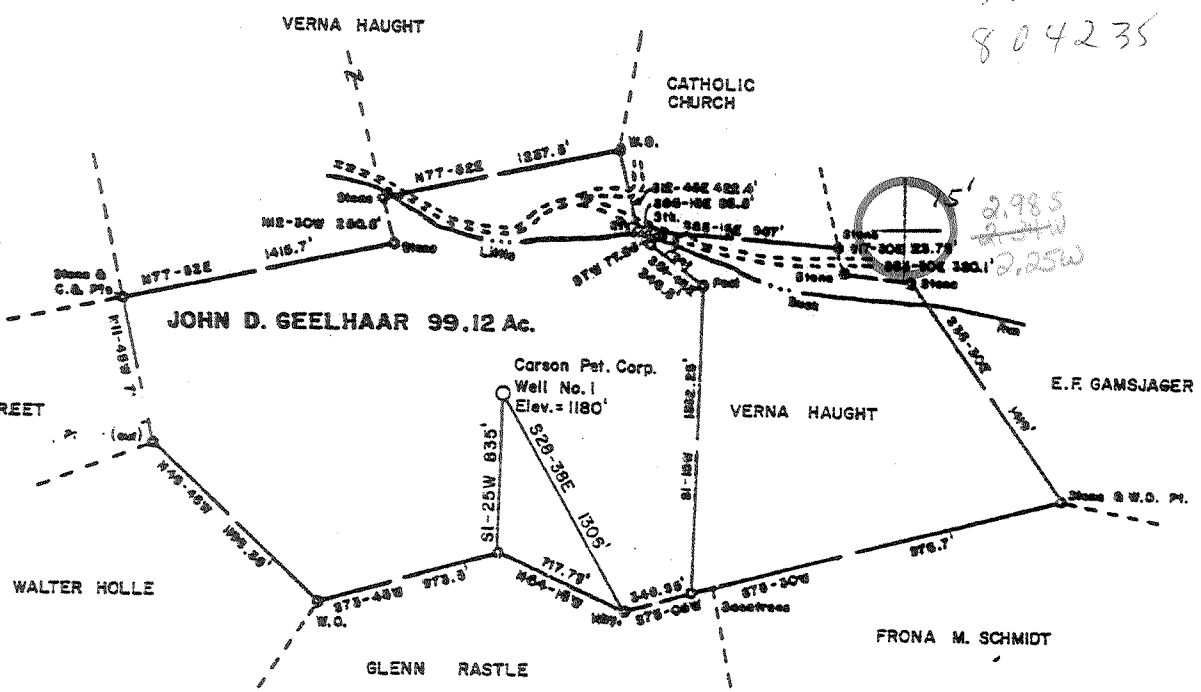
LONGITUDE: 80-42-30

80° 42' 30"

0.095  
0.025W

39 07 25  
80 42 35

2.985  
2.25W



Coal: Eastern Associated Coal Corp., Koopers Bldg., Pittsburgh, Pa.

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1 inch = 1000 feet  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION Top Knob 800' S of Location. Elev. 1297'

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-3 (3-78)



DATE AUGUST 26, \_\_\_\_\_, 19 80  
 OPERATOR'S WELL NO. ONE  
 API WELL NO. \_\_\_\_\_  
 47 - 017 - 2907  
 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 1180' WATER SHED LITTLE BUCK RUN  
 DISTRICT COVE COUNTY DODDRIDGE  
 QUADRANGLE VADIS 7.5' *W.C. Vadis*  
 SURFACE OWNER JOHN D. GEELHAAR ACREAGE 99.12  
 OIL & GAS ROYALTY OWNER VERNA HAUGHT, et al LEASE ACREAGE 99.12  
 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 DEPT 5620'  
 WELL OPERATOR CARSON PETROLEUM CORP. DESIGNATED AGENT MR. CLAY JOHNSON  
 ADDRESS 90X 133 SAND FORK, W.V. 26430 ADDRESS 90X 133 SAND FORK, W.V. 26430

6-6 New Milton South (307)

DATE 21 1980

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

Date: February 24, 1981

FORM IV-35  
(Obverse)

Operator's  
Well No. Geelhaar #1

[08-78]

WELL OPERATOR'S REPORT 24  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 017 - 2907  
State County Permit

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

LOCATION: Elevation: 1180' Watershed: Little Buck Run  
District: Cove County: Doddridge Quadrangle: Vadis

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

PERMIT ISSUED ON December 22, 19 80 OIL & GAS INSPECTOR FOR THIS WORK:  
Name Paul Garrett  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Address Clarksburg, WV 26301  
\_\_\_\_\_, 19 \_\_\_\_\_ 622-3871

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 5384 feet  
Depth of completed well, 5574 feet Rotary X / Cable Tools \_\_\_  
Water strata depth: Fresh, \_\_\_ feet; salt, \_\_\_ feet.  
Coal seam depths: None Is coal being mined in the area? No  
Work was commenced January 2, 19 81, and completed January 11, 19 81

LOGGING AND TUBING PROGRAM

LOGGING 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					1215'	1215'	To surface
Coal								Sizes
Intermediate								Depths set
Production	4 1/2					5456'	320' sks	Depths set
Tubing								Perforations:
Packers								Top Bottom

OPEN FLOW DATA

Producing formation Benson Pay zone depth 5081-5084 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 Elk Alex Pay zone depth 5105-5384 feet  
Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, 0 Bbl/d  
Final open flow, 582,000 Mcf/d Final open flow, 0 Bbl/d  
Time of open flow between initial and final tests, 10 hours  
Static rock pressure, 1390 psig (surface measurement) after 24 hours shut in

MAR 23 1981

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

Fractured January 26, 1981

*Celox*  
Elk - 40,000 lb. 20/40 sand  
20,000 lb. 80/100 sand  
2700 lb. breakdown  
490 bbls. water  
23 BPM at 1900 lb.

Benson - 20,000 lb. 80/100 sand  
40,000 lb. 20/40 sand  
2700 lb. breakdown  
485 bbls. water  
17 BPM at 1300 lb.

Perforations - 5210 - 5384, 7 holes

Perforations - 5081 - 5084, 6 holes

L LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	244	
Coal			244	249	
Sand & Shale			249	2161	
Little Lime			2161	2175	
Pencil Cave			2175	2183	
Blue Monday Sand			2183	2208	
Gray Shale			2208	2211	
Big Lime			2211	2270	
Big Injun Sand			2270	2359	
Gray Shale			2359	2411	
Weir Sand			2411	2539	
Gray Shale			2539	2620	
Gantz Sand			2620	2631	Gas check at 2617', no show
Gray Shale			2631	5078	
Benson Sand			5078	5091	
Gray Shale			5091	5345	
Elk Sand			5345	5470	
Gray Shale			5470	5574	
Total Depth			5574		

(Attach separate sheets to complete as necessary)

Carson Petroleum Corporation  
Well Operator  
By *Lawell M. Johnson*  
Its Agent

**OTE:** 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."



Geelhaar #1

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

DEC 22 1980

OIL AND GAS WELL PERMIT APPLICATION  
OIL & GAS DIVISION  
DEPT. OF MINES

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

DATE December 22, 1980

Surface Owner John D. Geelhaar  
Address St. Clair, WV  
Mineral Owner Verna Haught  
Address West Union  
Coal Owner N/A  
Address  
Coal Operator N/A  
Address

Company Carson Petroleum Corporation  
Address P O Box 133, Sand Fork, WV 26430  
Farm Geelhaar Acres 99.12  
Location (waters) Little Buck Run  
Well No. One Elevation 1180'  
District Cove County Doddridge  
Quadrangle Vadis

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 8-23-81

INSPECTOR  
TO BE NOTIFIED Paul Garrett  
ADDRESS Clarksburg, WV 26301  
PHONE 622-3871

*J. J. Murray*  
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 October 1980 by Consolidated Gas Supply Corp. made to Carson Petroleum Corp. and recorded on the day of 19 in NOT OF RECORD County, Book Page

X 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.

Very truly yours, Carson Petroleum Corporation  
(Sign Name) *Lawrence M. Anderson*  
Well Operator

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

\*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

47-017-2907 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 *Lawrence M. Anderson*

