



FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 100'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Top Knob 1800' NW of Location Elev. = 1207'

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 DECEMBER 12, 19 80
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47 - 017 - 2924
 STATE 47 COUNTY 017 PERMIT 2924

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 905' WATER SHED LITTLE BUCK RUN
 DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' 15 15 15' WC
 SURFACE OWNER LUTHERAN CHURCH, NEW MILTON, W.V. ACREAGE 3
 OIL & GAS ROYALTY OWNER LUTHERAN CHURCH, NEW MILTON, W.V. LEASE ACREAGE 3
 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 5350'
 WELL OPERATOR CARSON PETROLEUM DESIGNATED AGENT MR. LOWELL M. JOHNSON
 ADDRESS P.O. BOX 133 SAND FORK, W.V. 26430 ADDRESS P.O. BOX 133 SAND FORK, W.V. 26430

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

Date February 24, 1981

FORM IV-35
(Obverse)

Operator's
Well No. Lutheran Church #1

[08-78]

WELL OPERATOR'S REPORT 2/
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 17 - 017 - 2924
State County Permi

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

LOCATION: Elevation: 905 Watershed: Little Buck Run
District: Cove 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 5, 19 81 OIL & GAS INSPECTOR FOR THIS WORK:
Name Steve Casey
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Address Jane Lew, WV
_____, 19 _____ 884-7470

GEOLOGICAL TARGET FORMATION: Elk Depth 5104 feet
Depth of completed well, 5277 feet Rotary / 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 19, 19 81, and completed January 24, 19 81

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					1002'	1002'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2						5166'	160 sks
Tubing								Depths set
Liners								Perforations:
								Top Bottom

RECEIVED
FEB 27 1981
OIL & GAS DIVISION
DEPT. OF MINES

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4781-4783 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 5025-5104 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 572,000 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, 10 hours

Static rock pressure, 1500 psig (surface measurement) after 48 hours shut in

MAR 23 1981

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

Fractured February 6, 1981

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
2700 lb. breakdown
478 bbls. water
18.9 BPM at 2240 lb.

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
3200 lb. breakdown
575 bbls. water
20 BPM at 1700 lb.

Perforations - 5035 - 5104, 7 holes

Perforations - 4781 - 4783, 6 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
Sand & Shale			0	624	
Coal			624	629	
Sand & Shale			629	1867	
Little Lime			1867	1883	
Gray Shale			1883	1918	
Big Lime			1918	1976	
Big Injun			1976	2066	
Gray Shale			2066	2122	
Weir Sand			2122	2208	
Gray Shale			2208	2323	
Gantz Sand			2323	2334	
Gray Shale			2334	4778	Gas at 2498'
Benson Sand			4778	4788	
Gray Shale			4788	5033	
Elk Sand			5033	5113	
Gray Shale			5113	5277	
Total Depth			5277		

(Attach separate sheets to complete as necessary)

Carson Petroleum Corporation
Well Operator

By

Lewell 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."

COPY



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JAN - 5 1981

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 2, 1981

Surface Owner Lutheran Church

Company Carson Petroleum Corporation

Address New Milton, WV

Address P O Box 133, Sand Fork, WV 26430

Mineral Owner Lutheran Church

Farm Lutheran Church Acres 3

Address New Milton, WV

Location (waters) Little Buck Run

Coal Owner N/A

Well No. One Elevation 905'

Address

District Cove County Doddridge

Coal Operator N/A

Quadrangle New Milton

Address

PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22, the W. Va. Code, the location is hereby approved drilling. This permit shall expire if operations have not commenced by 9-6-81

INSPECTOR

TO BE NOTIFIED Steve Casey

ADDRESS Jane Lew, WV

PHONE 884-7470

J. E. Muzzy
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 August 4 1980 by Lutheran Church Trustees made to Carson Petroleum Corporation and recorded on the 29th day of October 1980 in Lease County, Book 117 Page 249

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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

OFFICE OF OIL AND GAS
615 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) *Lowell M. Pluman*
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.

BLANKET BOND

47-017- 2924

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.

Lowell M. Pluman

Jan 5

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

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Union Drilling, Inc. NAME Lowell M. Johnson
 ADDRESS Drawer 40, Buckhannon, WV 26201 ADDRESS P O Box 133, Sand Fork, WV 26430
 TELEPHONE 472-4610 TELEPHONE 462-7009
 ESTIMATED DEPTH OF COMPLETED WELL: 5350' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

PROPOSED CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN W/LL	CEMENT FILL UP OR SACKS - CUBIC FT.
16			
10			
8			
8	1100'	1100'	To surface
		5350'	750 sks
			Perf. Top
			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 65 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS N/A _____
 COAL BEING MINED IN THE AREA? No BY WHOM? _____

DRILL:
 SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT

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.

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 of _____

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 _____