

LONGITUDE : 80 - 40 - 00

FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 1000 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION USGS BM on Brdg. Abut. over BUCK RUN 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

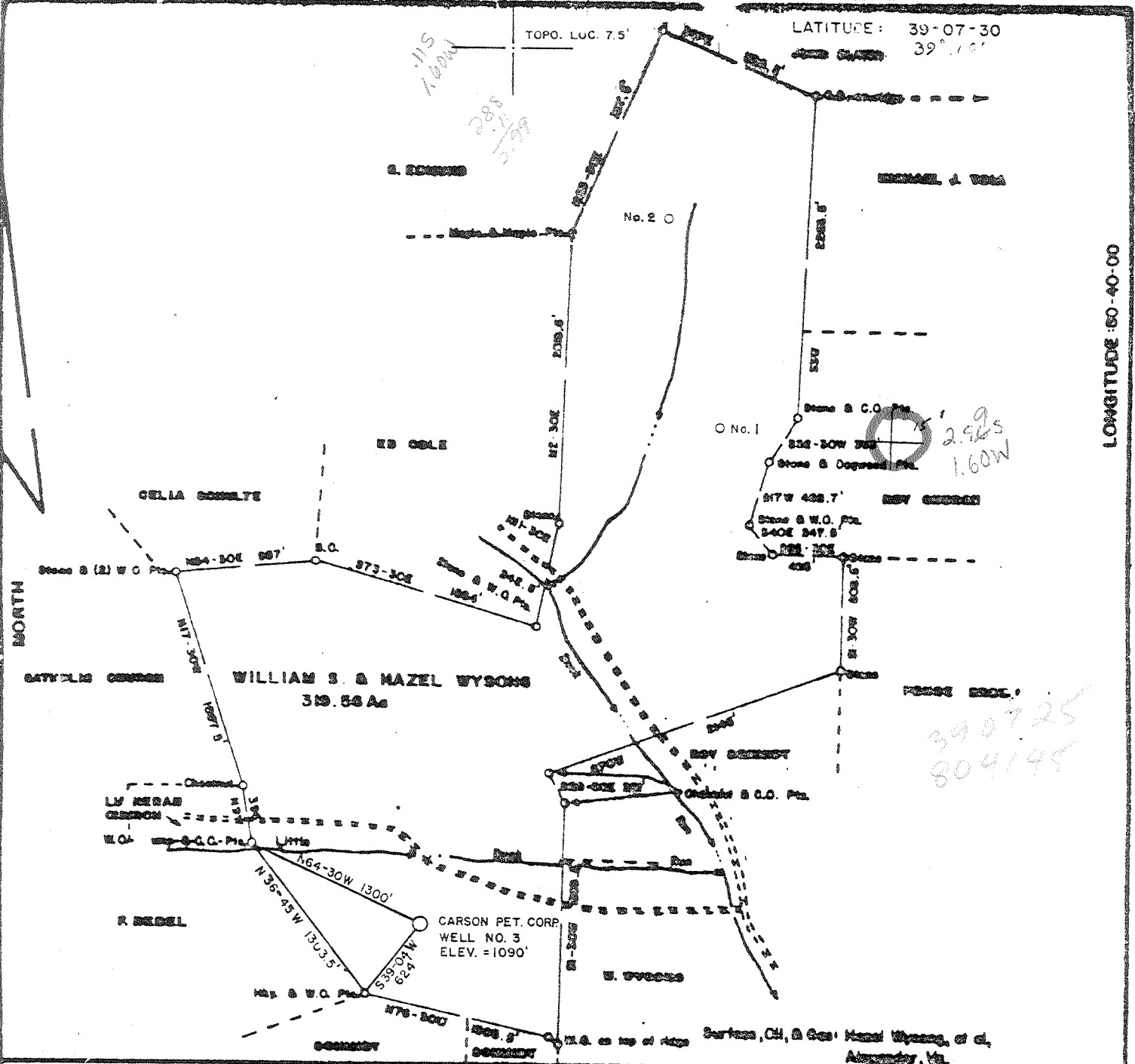
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE DECEMBER 3, 1980
 OPERATOR'S WELL NO. "REVISED" No. THREE
 API WELL NO. 47 - 017 - 2889-Rev.
 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 1005' WATER SHED LITTLE BUCK RUN
 DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE VADIS 75' 415' WC
 SURFACE OWNER WILLIAM S. & HAZEL WYSONG ACREAGE 319.56
 OIL & GAS ROYALTY OWNER HAZEL WYSONG, et al LEASE ACREAGE 319.56
 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 5400'
 WELL OPERATOR CARSON PETROLEUM CORP DESIGNATED AGENT MR. LOWELL M. JOHNSON / MR. JERRY MASONER
 ADDRESS P.O. BOX 133 ADDRESS P.O. BOX 133
SAND FORK, W.V. 26430 SAND FORK, W.V. 26430



FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 1000 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION USGS BM. on Big. Abut.
near Buck Run Elev. = 828'

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.
 (SIGNED) Mark C. Echard
 MARK C. ECHARD
 R.P.E. _____ L.L.S. 480

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FC PM IV-8
 (178)



DATE NOVEMBER 15 1980
 OPERATOR'S WELL NO. THREE
 AP WELL NO. _____
47 - 017 - 2889
 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 1090' WATER WED LITTLE BUCK RUN
 DISTRICT COVE COUNTY BOONVILLE
 QUADRANGLE VADIS 7.5' 15 W C
 SURFACE OWNER WILLIAM S. WYSONG ACREAGE 319.56
 OIL & GAS ROYALTY OWNER WILLIAM S. WYSONG LEASE ACREAGE 319.56
 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. JONES
 ADDRESS P.O. BOX 133 ADDRESS P.O. BOX 133
SAND FORK, W.V. 26430 SAND FORK, W.V. 26430

JAN 2 1981

6-6 New Milton South (307)

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

Date: February 24, 1980

FORM IV-35
(Obverse)

Operator's
Well No. Wysong #3

[08-78]

WELL OPERATOR'S REPORT (1)
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 017 - 288
State County Permi

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas", Production / Underground storage / Deep / Shallow /)
LOCATION: Elevation: 1090 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 / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

PERMIT ISSUED ON November 24, 19 80 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 5959 feet
Depth of completed well, 5445' 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 December 9, 19 80, and completed December 13, 19 80

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	Left in well		
Conductor									Kinds
Fresh water	8 5/8					1119'	1119'	To surface	
Coal									Sizes
Intermediate									
Production	4 1/2						5365'	160 sks	Depths set
Tubing									
liners									Perforations:
									Top Bottom
									4947 4959
									5230 5315

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4947-4959 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--] 5230-5315
Second producing formation Elk Pay zone depth _____ feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 706,000 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, 8 hours
Static rock pressure, 1720 psig (surface measurement) after 48 hours shut in

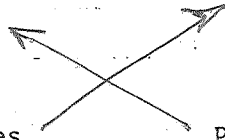
MAR 23 1981

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

Fractured December 29, 1980

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
2300 lb. breakdown
499 bbls. water
25 BPM at 2200 lb.

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
3000-lb. breakdown
479 bbls. water
17 BPM at 1400 lb.



Perforations - ~~5957~~ - ~~5959~~, 6 holes

Perforations - 5230 - 5315; 8 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, Red Rock			0	2044	
Little Lime			- 2044	2060	
Pencil Cave Shale			2060	2090	
Big Lime			-2090	2157	
Big Injun			2157	2246	
Gray Shale			2246	2290	
Weir Sand			2290	2390	
Gray Shale			2390	4950	
Benson Sand			- 4950	4967	
Gray Shale			4967	5223	
Elk Sand A			5223	5340	
Gray Shale			5340	5445	
Total Depth →		<i>Brallier</i>	5445		

Note: probably Alexander at this depth, this field, not Elk.

5445
4967
478 expl. ft.

(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

NOV 24 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 November 21, 1980
Company Carson Petroleum Corporation
Address P O Box 133, Sand Fork, WV 26430
Farm Wysong Acres 319.56
Location (waters) Little Buck Run
Well No. Three Elevation 1090'
District Cove County Doddridge
Quadrangle Vadis

Surface Owner William S. Wysong
Address Alexander, VA
Mineral Owner William S. Wysong
Address Alexander, VA
Coal Owner N/A
Address _____
Coal Operator N/A
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 7-25-81.

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

Paul Garrett
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 September 23 1980 by Triangle Oil Company 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:

Very truly yours, CARSON PETROLEUM CORPORATION
(Sign Name) Lowell M. Johnson (etc)
Well Operator

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

47-017-2889 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 Lowell M. Johnson (etc)

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: 5500' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ 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	1100'	1100'	To surface
7			
5 1/2			
4 1/2		5500'	750 sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS N/A
 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