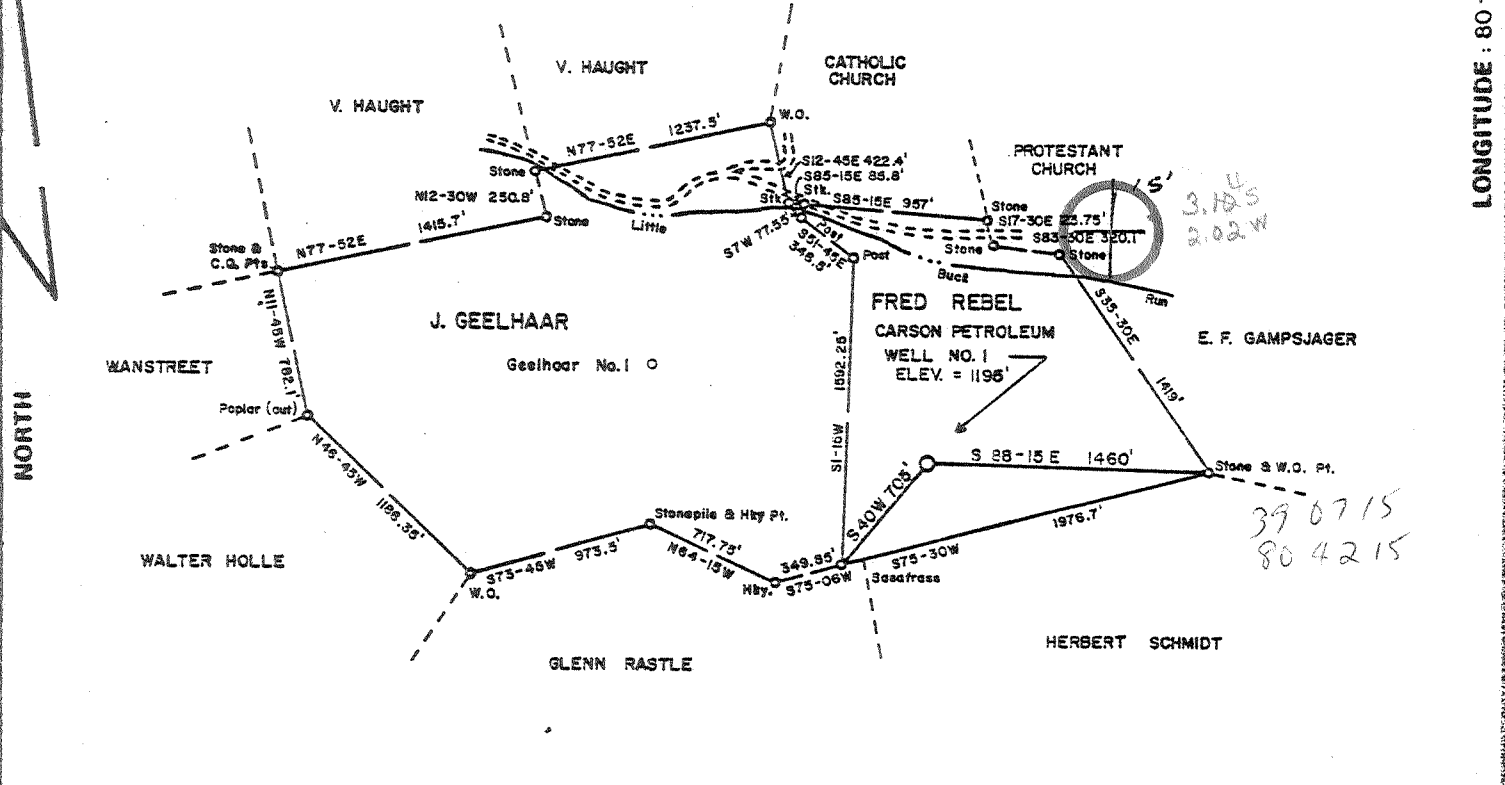


0.205
2.00W
2.10
3.10

3.105
2.00W

39 07 15
80 42 15



SURFACE : FREDERICK A. REBEL , Rt. 1 BOX 153, New Milton, W.V. 26411
OIL & GAS : VERNA HAUGHT
COAL : EASTERN ASSOCIATED COAL CORP. , KOPPERS BLDG. , PITTSBURG, PA.

FILE NO. _____
DRAWING NO. _____
SCALE 1 inch = 1000 feet
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION Top Knob 1400' W 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-6 (8-78)



DATE OCTOBER 23, 1980
OPERATOR'S WELL NO. ONE
API WELL NO. 47-017-2906
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 1195' WATER SHED Little Buck Run
DISTRICT Cave COUNTY Doddridge
QUADRANGLE VADIS 75' *w/c Vadis*
SURFACE OWNER FREDERICK A. REBEL ACREAGE 54
OIL & GAS ROYALTY OWNER VERNA HAUGHT LEASE ACREAGE 54
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 5650'
WELL OPERATOR CARSON PETROLEUM CORP DESIGNATED AGENT MR. LOWELL M. JOHNSON
ADDRESS BOX 133 SAND FORK, W.V. 26430 ADDRESS 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. V. Haught #1

[08-78]

WELL OPERATOR'S REPORT 23
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47-017-2906
State County Permit

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

LOCATION: Elevation: 1195' 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) _____

OIL & GAS DIVISION
DEPT. OF MINES

PERMIT ISSUED ON December 22, 1980

OIL & GAS INSPECTOR FOR THIS WORK:

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED

Name Paul Garrett
Address Clarksburg, WV 26301
622-3871

GEOLOGICAL TARGET FORMATION: Elk Depth 5353 feet

Depth of completed well, 5600 feet Rotary / Cable Tools

Water strata depth: Fresh, 910 feet; salt, _____ feet.

Coal seam depths: None Is coal being mined in the area? No

Work was commenced December 23, 1980, and completed January 1, 1981

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					1248'	1248'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2						5429'	320 sks
Tubing								Deaths set
Packers								Perforations:
								Top Bottom

OPEN FLOW DATA

Producing formation Benson Pay zone depth 5035-5037 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 Alexander Pay zone depth 5305-5353 feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 Bbl/d

Final open flow, 400,000 Mcf/d Final open flow, 0 Bbl/d

Time of open flow between initial and final tests, 8 hours

Static rock pressure, 1750 psig (surface measurement) after 24 hours shut in

MAR 23 1981

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

Fractured January 19, 1981

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
2500 lb. breakdown
20.4 BPM at 2250 lb.
490 bbls. water

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
2900 lb. breakdown
18 BPM at 1500 lb.
485 bbls. water

Perforations - 5305 - 5353, 6 holes

Perforations - 5035 - 5037, 5 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			0	205	
Coal			205	208	
Sand & Shale			208	780	
Sand, Shale & Red Rock			780	1204	Water at 910'
Sand			1204	1266	
Sand & Shale			1266	2116	
Little Lime			- 2116	2129	
Shale			2129	2154	
Blue Monday Sand			2154	2170	
Big Lime			- 2170	2229	
Big Injun Sand			2229	2317	
Gray Shale			2317	2358	
Weir Sand			2358	2478	
Gray Shale			2478	2577	
Gantz Sand			- 2577	2588	
Gray Shale			2588	3107	
Fifth Sand			3107	3117	
Gray Shale			3117	5032	
Benson Sand			- 5032	5042	
Gray Shale			5042	5294	
Elk Sand			5294	5430	
Gray Shale			5430	5600	
Total Depth			5600		

(Attach separate sheets to complete as necessary)

Carson Petroleum Corporation
Well Operator
By Lawell 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

DEC 22 1980

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION OF MINES

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

DATE December 22, 1980

Surface Owner Frederick A. Rebel

Company Carson Petroleum Corporation

Address New Milton, WV 26411

Address P O Box 133, Sand Fork, WV 26430

Mineral Owner Verna Haught

Farm V. Haught Acres 54

Address West Union, WV

Location (waters) Little Buck Run

Coal Owner N/A

Well No. One Elevation 1195'

Address

District Cove County Doddridge

Coal Operator N/A

Quadrangle Vadis

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 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 19 80 by Consolidated Gas Supply Corp. made to Carson Petroleum Corp. and recorded on the day of 9, 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) *Dwight M. Pearson*
Well Operator

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

*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- 2906 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 *Dwight M. Pearson*

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

PROPOSED WORK ORDER TO 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: _____ ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: _____
 TYPE OF WELL: OIL _____ GAS COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

PROPOSED CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	DEPTH IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
16			
10			
5/8			
5/8	1100'	1100'	To surface
		5650'	750 sks
			Perf. Top
			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 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 fee.

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