

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

Date February 24, 1981

FORM IV-35
(Obverse)

Operator's
Well No. Geelhaar #2

[08-78]

WELL OPERATOR'S REPORT 27
OF

API Well No. 47 - 017 - 292
State County Permi

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1110' 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 January 5, 1981 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: Devonian Shale Depth 5328 feet
Depth of completed well, 5494 feet Rotary / Cable Tools
Water strata depth: Fresh, 60 feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced January 12, 1981, and completed January 17, 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					1171'	1171'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2						5390'	320 sks
Tubing								Depths set
Liners								Perforations:
								Top Bottom

OIL & GAS DIVISION
DEPT. OF MINES

OPEN FLOW DATA
Producing formation Benson Pay zone depth ⁵⁰⁰⁵ 5008 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 ⁵³²⁸ 5328 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 603,000 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, 10 hours
Static rock pressure, 1550 psig (surface measurement) after 24 hours shut in

MAR 23 1981

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

Fractured January 28, 1981

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
2300 lb. breakdown
490 bbls. water
24 BPM at 2300 lb.

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
1800 lb. breakdown
485 bbls. water
17 BPM at 1600 lb.

Perforations - 5269 - 5328, 6 holes.

Perforations - 5005 - 5008, 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			27	83	Water at 60'
Sand & Shale			83	915	
Coal			915	920	
Sand & Shale			920	1115	
Sand & Shale			1115	2092	
Little Lime			2092	2097	
Gray Shale			2097	2104	
Blue Monday Sand			2104	2130	
Big Lime			2130	2193	
Big Injun Sand			2193	2268	
Gray Shale			2268	2336	
Weir Sand			2336	2434	
Gray Shale			2434	2544	
Gantz Sand			2544	2554	
Gray Shale			2554	5003	
Benson Sand			5003	5115	
Gray Shale			5115	5264	
Elk Sand			5264	5392	
Gray Shale			5392	5494	
Total Depth			5494		

(Attach separate sheets to complete as necessary)

Carson Petroleum Corporation

Well Operator

By

Lowell 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."



Geelhaar #

RECEIVED

JAN - 5 - 1981

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE January 2, 1981

Surface Owner John D. Geelhaar
Address St. Clair, WV
Mineral Owner Verna Haught
Address West Union, WV
Coal Owner Eastern Assoc. Coal Corp.
Address Kippers Building, Pittsburgh, PA
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. Two Elevation 1110'
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 9-8-81

INSPECTOR
TO BE NOTIFIED Steve Casey Carrett
ADDRESS Jane Lew, WV
PHONE 884-7470

Field
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 Corporation 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.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours, Carson Petroleum Corporation
(Sign Name) Lawell M. Johnson
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- 2929 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 Lawell M. Johnson

File

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: 5550' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

PROPOSED TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FEET
16"			
10"			
5/8"			
5/8"	1200'	1200'	To surface
		5550'	750 sks
			Perf. Top
			Perf. Bottom
			Perf. Top
			Perf. Bottom

PROXIMATE FRESH WATER DEPTHS 125 FEET _____ SALT WATER _____ FEET _____
 PROXIMATE 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 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.