



SURFACE, OIL & GAS: Herbert J. & Thelma Schmidt, St. Clair, W.V.
 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 Junction of Roads 800'
S of Location Elev. = 839'

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 AUGUST 26, 19 80
 OPERATOR'S WELL NO. TWO
 API WELL NO. _____
47 - 017 - 2865
 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 980' WATER SHED SAND FORK
 DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE VADIS 7.5' WC
 SURFACE OWNER HERBERT J. & THELMA SCHMIDT ACREAGE 305.35
 OIL & GAS ROYALTY OWNER HERBERT J. & THELMA SCHMIDT LEASE ACREAGE 305.35
 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 BENSON ESTIMATED DEPTH 5500'
 WELL OPERATOR CARSON PETROLEUM CORP. DESIGNATED AGENT MR. CLAY JOHNSON
 ADDRESS BOX 133 SAND FORK, W.V. 26430 ADDRESS BOX 133 SAND FORK, W.V. 26430

6 to Counties (307) 442

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

Date December 18, 1980

FORM IV-35
(Obverse)

Operator's
Well No. H. Schmidt #2

[08-78]

WELL OPERATOR'S REPORT 7
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 017 - 2865
State County Permit

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

LOCATION: Elevation: 920' Watershed: Sand Fork
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 October 31, 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 5164 feet

Depth of completed well, 5270 feet Rotary / Cable Tools

Water strata depth: Fresh, 740 feet; salt, _____ feet.

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

Work was commenced December 1, 1980, and completed December 6, 1980

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					1127'	1127'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2					5196	320 sks	Depths set
Tubing								
Liners								Perforations:
								Top Bottom

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DEC 22 1980

OIL & GAS DIVISION
DEPT. OF MINES

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4821 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 Pay zone depth 5164 feet

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

Final open flow, 327 Mcf/d Final open flow, 0 Bbl/d

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

Static rock pressure, 1600 psig (surface measurement) after 48 hours shut in

JAN 21 1981

[08-78]

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

Fractured December 12, 1980

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
23.6 BPM at 2000 lb.
2000 lb. breakdown
495 bbls. water

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
20.2 BPM at 1900 lb.
1700 lb. breakdown
605 bbls. water

Perforations - 5164 - 5076, 8 holes

Perforations - 4818 - 4821, 6 holes

WELL LOG

FORMATION	Color	Hard or Soft	7 Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	274	
Red Rock & Shale			274	450	
Sand & Shale			450	553	
Coal			553	558	
Sand			558	871	Water 740'
Coal			871	873	
Sand & Shale			873	1900	
Little Lime			-1900	1918	
Pencil Cave			1918	1928	
Blue Monday Sand			1928	1986	
Big Lime			-1986	2026	
Big Injun Sand			2026	2118	
Sand & Shale			2118	2363	
Gantz Sand			2363	2381	
Sand & Shale			2381	4816	
Benson Sand			-4816	4826	Gas 4818'
Sand & Shale			4826	5090	
Elk Sand <i>ALEX</i>			5090	5170	
Shale			5170	5270	
Total Depth			5270		

(Attach separate sheets to complete as necessary)

Lowell M. Johnson
Well Operator

Carson Petroleum Corporation

By

Agent

Its

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

OCT 31 1980

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE October 10, 1980

Surface Owner Herbert Schmidt

Company Carson Petroleum Corporation

Address St. Clara, WV

Address P O Box 133, Sand Fork, WV 26430

Mineral Owner Herbert Schmidt

Farm H. Schmidt Acres 305.35

Address St. Clara, WV

Location (waters) Sand Fork

Coal Owner None

Well No. Two Elevation 920'

Address _____

District Cove County Doddridge

Coal Operator None

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 7-5-81

INSPECTOR
TO BE NOTIFIED Mr. Paul Garrett

ADDRESS Clarksburg, WV 26301

PHONE 622-3871

[Signature]
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 February 8 1980 by Herbert J. Schmidt made to Rockwell Petroleum Company and recorded on the 2nd day of April 1980 in Doddridge County, Book 114 Page 295

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, *[Signature]*
(Sign Name) Carson Petroleum Corp
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

47-017-2865 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 *[Signature]*

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: 5400' ROTARY X CABLE TOOLS

PROPOSED GEOLOGICAL FORMATION: Benson-Elk

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		5400'	
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET SALT WATER FEET

APPROXIMATE COAL DEPTHS None

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