



H. BROWN, Sr. 3907 35  
8041 35

Note: Shown is a 48.5Ac. portion of a 110 Ac. lease.

TOPO. LOC. 7.5' SERIES

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1 inch = 500 feet  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION U.S.G.S. BM 700' NE of Location, Elev. = 877'

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 SEPTEMBER 1, 19 80  
OPERATOR'S WELL NO. FIVE  
API WELL NO. 47 - 017 - 2902  
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 1020' WATER SHED BIG BUCK RUN  
DISTRICT COVE \_\_\_\_\_ COUNTY DODDRIDGE  
QUADRANGLE NEW MILTON 7.5' 15WVC, VADIA  
SURFACE OWNER J.H. SCHMIDT, Hrs ACREAGE 48.5  
OIL & GAS ROYALTY OWNER GLENN G. SCHMIDT LEASE ACREAGE 110  
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

6-6 FINE CREEK (300) 283 JAN 21 1981

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

Date January 13, 1980

FORM IV-35  
(Obverse)

Operator's  
Well No. R. Schmidt #5

[08-78]

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

API Well No. 47 - 017 - 2902  
State County Permi

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

LOCATION: Elevation: 1020' Watershed: Big 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 December 15, 1980

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Steve Casey  
Address Jane Lew, WV  
884-7470

GEOLOGICAL TARGET FORMATION: Elk Depth 5191 feet

Depth of completed well, 5360 feet Rotary  / Cable Tools

Water strata depth: Fresh, 178 feet; salt, \_\_\_\_\_ feet.

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

Work was commenced December 19, 1980, and completed December 28, 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					1208'	1208'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2					5223'		sks
Tubing								Depths set
Liners								Perforations:
								Top Bottom

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4889 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 5191 feet

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

Final open flow, 730 Mcf/d Final open flow, 0 Bbl/d

Time of open flow between initial and final tests, 10 hours

Static rock pressure, 625 psig (surface measurement) after 48 hours shut in

FEB 13 1981

[08-78]

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

Fractured January 9, 1981

*ALEX*  
Elk - 20,000 lb. 80/100 sand  
40,000 lb. 20/40 sand  
432 bbls. water  
2400 lb. breakdown  
17.2 BPM at 2300 lb.

Benson - 20,000 lb. 80/100 sand  
40,000 lb. 20/40 sand  
450 bbls. water  
2000 lb. breakdown  
19.5 BPM at 1950 lb.

Perforations - 5191 - 5014, 6 holes

Perforations - 4887.5 - 4889.5, 5 holes

WELL LOG

FORMATION	Color	Hard or Soft	27		Remarks Including indication of all fresh and salt water, coal, oil and gas
			Top Feet	Bottom Feet	
Surface			0	12	
Red Rock, Sand, & Shale			12	1933	Water 178', 1770'
Little Lime			1933	1950	
Pencil Cave			1950	1960	
Blue Monday Sand			1960	2002	
Big Lime			2002	2048	
Big Injun Sand			2048	2140	
Sand & Shale			2140	2396	
Gantz Sand			2396	2420	
Sand & Shale			2420	4883	
Benson Sand			4883	4899	
Sand & Shale			4899	5158	
Elk Sand <i>ALEX</i>			5158	5185	
Shale			5185	5360	
Total Depth			5360		

(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."



R. Schmidt #5

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

DEC 15 1980

COPY

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 December 12, 1980  
Company Carson Petroleum Corporation  
Address P O Box 133, Sand Fork, WV 26430  
Farm R. Schmidt Acres 110  
Location (waters) Big Buck Run  
Well No. Five Elevation 1020'  
District Cove County Doddridge  
Quadrangle New Milton

Surface Owner J. H. Schmidt Hrs.  
Address Route 2, Roanoke, WV  
Mineral Owner Glenn G. Schmidt  
Address Route 2, Roanoke, WV  
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 8-19-81.

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

J. H. 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 December 6 1978 by Glenn G. Schmidt made to Rockwell Petroleum Co. and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ 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) 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- 2902 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

Survey

**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:  Benson   
 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.
10 - 16			
8 - 10			
6 - 5/8			
4 - 5/8	800'	800'	To surface
3 - 1/2			
2 - 1/2		5500'	750 sks <i>or as reqd.</i> Perf. Top <i>by well log</i> Perf. Bottom
2 - 1/2			Perf. Top
2 - 1/2			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS  120  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 hereof.

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