



**CERTIFICATE**

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in 200

Signed Frank H. Barker LL.S. #255

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY	CARL E. SMITH INC.		
ADDRESS	SANDYVILLE, WEST VIRGINIA		
FARM	RICHARD P. ROUSH		
ACRES	8 3/4 PT. OF 312 <sup>±</sup>	LEASE NO.	810
WELL (FARM) NO.	1	SERIAL NO.	117
ELEVATION (SPIRIT LEVEL)	761.49		
SECTION	RAVENSWOOD	CORNER	NW
TOWNSHIP	MASON	DISTRICT	GRAHAM
POINT OF PROVEN ELEVATION	Road Intersections Shown Above		
	Elevation 778		
DATE	MAR 11, 1975	DRAWING NO.	
		SCALE	1" = 500 FT.

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. **MAS-136**  
 FORMERLY MAS-130

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS SCALE 1 TO 62 500 LATITUDE AND LONGITUDE LINE BEING REPRESENTED BY BORDER LINES AS SHOWN

47.050  
 DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL MAP

G = 5100' Cluster 1-1 DEEP WELL 0  
 Unnamed SEP 12 1975



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

RECEIVED  
OCT 18 1977

OIL & GAS DIVISION  
DEPT. OF MINES

WELL RECORD 35

Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle Ravenswood

Permit No. Mas: 136

Company CARL E. SMITH, INC.  
Address P.O.Box 4, Sandyville, W.Va.  
Farm Richard P. Roush Acres 428  
Location (waters) Broad Run  
Well No. 1 (Serial #117) Elev. 761.49'  
District Graham County Mason  
The surface of tract is owned in fee by \_\_\_\_\_  
Richard P. Roush  
Address Rt.1, Box 169, Letart, W.Va.  
Mineral rights are owned by Same  
Address \_\_\_\_\_  
Drilling Commenced 1-8-76  
Drilling Completed 1-17-76  
Initial open flow 10,000 cu. ft. \_\_\_\_\_ bbls.  
Final production 70,000 cu. ft. per day \_\_\_\_\_ bbls.  
Well open 24 hrs. before test 740# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond.			
13-10" 14"	184'	184'	
9 5/8			
8 5/8 8 5/8"	1965'	1965'	
7			
5 1/2			
4 1/2			
3			
2 2 3/8"	3723'	3723'	
Liners Used			

Well treatment details:  
12,000# - 80% Gelatin

Attach copy of cementing record.

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Brown Shale Depth 2920' to 3660'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	10		
Shale			10	220		
Red Rock			220	270		
Slate & Shells			270	595		
Sand			595	620		
Shale			620	695		
Sand			695	711		
Shale			711	750		
Sand			750	765		
Slate & Shells			765	780		
Sand			780	825		
Slate & Shells			825	1250		
Sand			1250	1286		
Shale			1286	1304		
Sand			1304	1320		
Shale			1320	1330		
Sand			1330	1394		
Shale			1394	1850		
Coffee Shale			1850	1864		
Berea Sand			1864	1891		
Bedford Shale			1891	2920		
Brown Shale			2920	3660		
Lime			3660	4614		
Shale			4614	4880		

PLUG BACK  
5070' to 4930' - Cement  
4930' to 4090' - Gel  
4090' to 3890' - Cement

*SR log at 291 RP*  
H 2854  
J 3205  
A 3380  
Ry 3536  
Dn 3660

Salt Water

Plug Back - 3890'

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <sup>35</sup>	Bottom Feet	Oil, Gas or Water	* Remarks
Packer Shell			4880	4886		
Broken - Sand & Shale			4886	4972		
Shale			4972	5040		
Medina Sand			5040	5053		
<u>Martinsburg Shale</u>			5053	5089	T.D.	

*TRK*

Date October 17, 19 77

APPROVED CARL E. SMITH, INC Owner

By [Signature]  
(Title) Land Agent



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

SEP 8 - 1975

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE April 8, 1975

Surface Owner Richard P. Roush  
Address Route 1, Box 169, Letart, W. Va.

Company CARL E. SMITH, INC.  
Address P. O. Box 4, Sandyville, W. Va. 25275

Mineral Owner Same  
Address "

Farm Richard P. Roush Acres 83 1/4-Pt. of  
Location (waters) Broad Run 312ac.

Coal Owner "  
Address "

Well No. 1 (Serial #117) Elevation 761.49

Coal Operator None  
Address "

District Graham County Mason  
Quadrangle Ravenswood

Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

INSPECTOR TO BE NOTIFIED Kenneth Butcher  
PH: 736-4885 ADDRESS Barboursville  
WVA.

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 1-8-76.

Robert H. Bell  
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 April 12 1973 by Richard P. and Fannie V. Roush made to CARL E. SMITH, INC. and recorded on the 23 day of April 1973, in Mason County, Book 36 Page 383

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:

West Virginia Geological and Economic Survey  
P. O. Box 879  
Morgantown, W. Va. 26505  
AC 304-296-4461

Address  
of  
Well Operator

Very truly yours, CARL E. SMITH, INC.  
(Sign Name) [Signature]  
Well Operator  
P. O. Box 4  
Street  
Sandyville  
City or Town  
West Virginia 25275  
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 BOARD

Formerly:  
Mas-130

Mas-136  
47-053

PERMIT NUMBER

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 CARL E. SMITH, INC. NAME CARL E. SMITH, INC.  
 ADDRESS P. O. Box 4, Sandyville, W. Va. ADDRESS P. O. Box 4, Sandyville, W. Va.  
 TELEPHONE 273-4261 TELEPHONE 273-4261  
 ESTIMATED DEPTH OF COMPLETED WELL: 4600' 5100' ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Clinton  
 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			
<del>XXXXX</del> 14"	180'	180'	
9 - 5 8			
8 - 5 8	1850'	1850'	
7			
5 1/2	4600' - If Productive		
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 140 FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 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