

**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

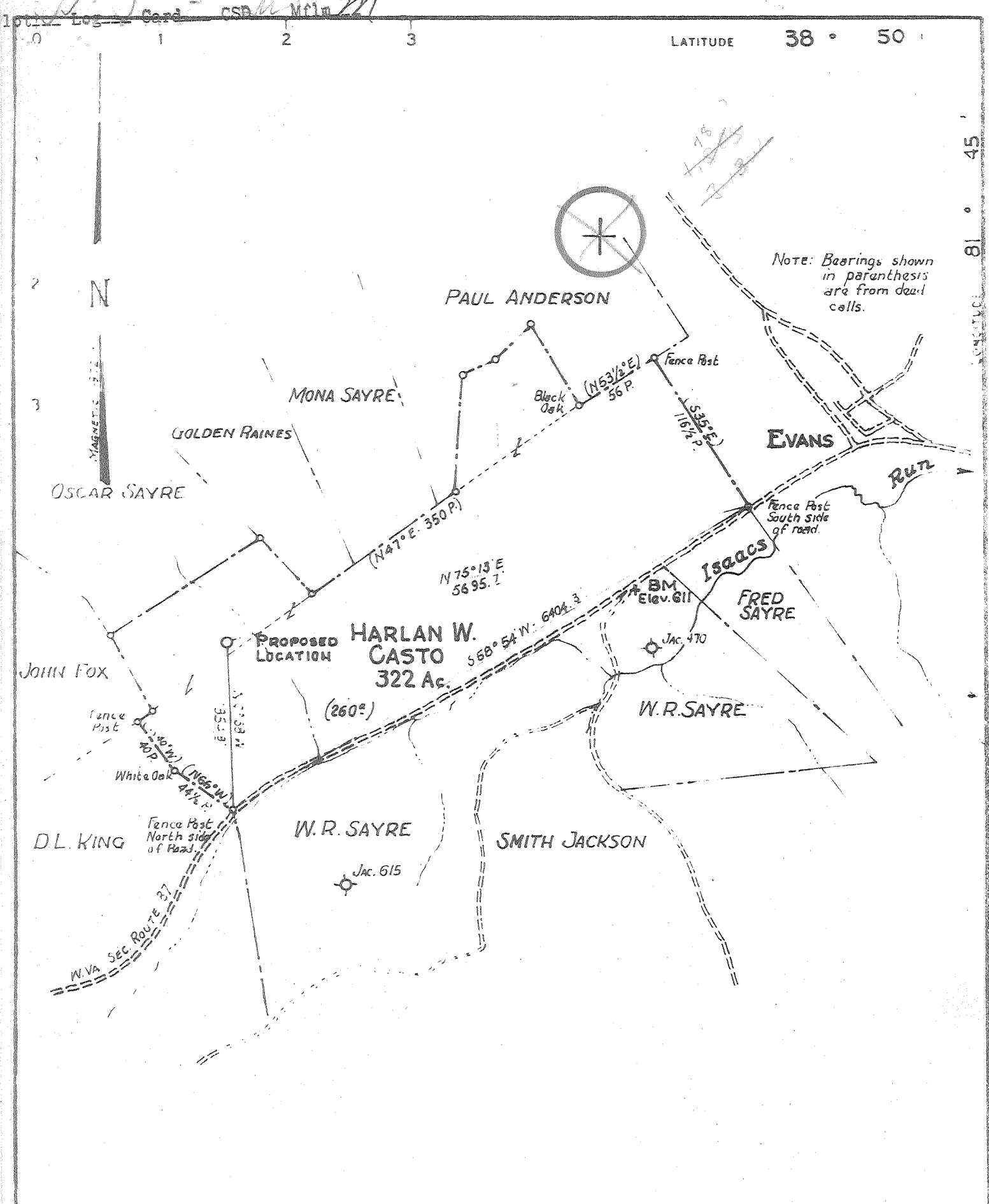
Signed *William S. Crasby* L.L.S. #116

N.B. No. 111 Pg. 88

COMPANY CARL E. SMITH INC.  
 ADDRESS Box 4 SANDYVILLE, W.VA. 25276  
 FARM HARLAN W. CASTO  
 MAP \_\_\_\_\_ ACRES 322 LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. 1 SERIAL NO. 75  
 ELEVATION (SPRINT LEVEL) 663.2  
 QUADRANGLE RAVENSWOOD S.E.  
 COUNTY JACKSON DISTRICT RIPLEY-Union  
 POINT OF PROVEN ELEVATION U.S.G.S. BM - See Above

FILE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_  
 DATE SEPT. 5, 1972 SCALE 1" = 1520'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. Jac-1341  
Corrected Topo. Loc.  
 \* DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC  
 MAPS SCALE 1 TO 62 500. LATITUDE AND LONGITUDE LINES  
 BEING REPRESENTED BY BORDER LINES AS SHOWN.  
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.



**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 4 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 *William S. Grady* L.L.S. #116

N.B. No. III Pg. 58

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY	CARL E. SMITH INC.		
ADDRESS	Box 4 SANDYVILLE, W.VA. 25275		
FARM	HARLAN W. CASTO		
MAP	ACRES	LEASE NO.	
	322		
WELL (FARM) NO.	SERIAL NO.		
1	75		
ELEVATION (SPIRIT LEVEL)	663.3'		
QUADRANGLE	RAVENSWOOD S.E.		
COUNTY	DISTRICT		
JACKSON	RIPLEY UNION		
POINT OF PROVEN ELEVATION	U.S.G.S. BM - See Above		
FILE NO.	DRAWING NO.		
GATE	SCALE		
SEPT. 5, 1972	1" = 1320'		

STATE OF WEST VIRGINIA	
DEPARTMENT OF MINES	
OIL AND GAS DIVISION	
CHARLESTON	
WELL LOCATION MAP	
FILE NO.	Jac - 1341
+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS SCALE 1 TO 62 500 LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING	

5-5 unnamed Deep Well SEP 18 1972 (Orisk)  
 (5-1331 disc)



RECEIVED

MAR 12 1973

STATE OF WEST VIRGINIA DEPARTMENT OF MINES & GAS DIVISION OIL AND GAS WELLS

- Rotary [X] Spudder [ ] Cable Tools [ ] Storage [ ]

Quadrangle Ravenswood S E Permit No. Jac 1341

WELL RECORD

Oil or Gas Well Gas (KIND)

Company Carl E. Smith, Inc. Address P. O. Box 4, Sandyville, W. VA. Harland W. Casto Area 322 Location (waters) Isaacs Run Well No. # 1 (#75) Elev. 663.26 District Union County Jackson Surface of tract is owned in fee by Harlon W. Casto Address Rt. 1 Evans, W. Va. Mineral rights are owned by Same Address Same Drilling commenced 9-7-72 Drilling completed 9-27-72 Date of Perf. From 4526 To 4553 With 29, 1/2 Holes Open Flow 1000 MCF /10ths Water in 10ths Merc. in Volume Cu. Ft. Rock Pressure 1600 lbs. 72 hrs. Well Acidized (DETAILS) Well Fractured (DETAILS) 28000 20[40 Sand, 1000 gals. of 15% Acid 720 bbls. water Result After Treatment (Initial open Flow or bbls.) 500, MCF Rock Pressure After Treatment 1600 HOURS 72 Fresh Water Feet Salt Water Feet Producing Sand Oriskany Depth 4526-4553

Table with columns: Casing and Tubing, Used in Drilling, Left in Well, Packers. Includes rows for tubing sizes (3/8, 5/8, 3/16, 4 1/2, 3, 2 (Tube)) and packer details (Kind of Packer, Size of, Depth set, Perf. top/bottom).

Attach copy of cementing record. CASING CEMENTED 5 1/2 SIZE 4660 No. Ft. 9-28-72 Date 9-23-72 Amount of cement used (bags) 300, Bags 125 Bags Name of Service Co. Halliburton COAL WAS ENCOUNTERED AT FEET INCHES FEET INCHES FEET INCHES

Main well log table with columns: Formation, Color, Hard or Soft, Top, Bottom, Oil, Gas or Water, Depth, Remarks. Includes handwritten notes like 'Oriskany', 'Helderberg', and '485'.

(over)

MAR 19 1973



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
SEP 7 1972  
OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Harlan W. Casto  
Address Rt. 1, Evans, W. Va. 25241  
Mineral Owner "  
Address \_\_\_\_\_  
Coal Owner "  
Address \_\_\_\_\_  
Coal Operator None  
Address "

DATE September 6, 1972  
Company Carl E. Smith, Inc.  
Address P. O. Box 4, Sandyville, W. Va.  
Farm Harlan W. Casto Acres 325.322  
Location (waters) Isaacs Run  
Well No. 1 (Serial 75) Elevation 663.26  
District Union and Ripley County Jackson  
Quadrangle Ravenswood, SE

INSPECTOR TO BE NOTIFIED Mr. Fred Burdette  
Box 190 PH: 9849263  
Cameron Route  
Sissonville, W. Va. 25185

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 1-1-73.

Robert L. Fouse  
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 June 8 19 72 by Harlan W. Casto, etal made to Carl E. Smith, Inc. and recorded on the 9 day of June 19 72 in Jackson County, Book 121 Page 504  
 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.

Very truly yours,  
(Sign Name) Carl E. Smith, Inc.  
Well Operator Land Manager  
Address P. O. Box 4  
of \_\_\_\_\_ Street  
Well Operator Sandyville,  
City or Town  
W. Va.  
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

Jac. - 134 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:   Carl E. Smith, Inc.    
 NAME   Carl E. Smith, Inc.   NAME   Same    
 ADDRESS   P. O. Box 4, Sandyville, W. Va.   ADDRESS   "    
 TELEPHONE   273-4261   TELEPHONE   "    
 ESTIMATED DEPTH OF COMPLETED WELL:   5270'   ROTARY   X   CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION:   Newburg    
 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' <b>13 3/8</b>	<b>160'</b>	<b>160'</b>	<b>150 bags</b>
9 - 5/8			
8 - 5/8			
<del>8 - 5/8</del>	<b>2025'</b>	<b>2025'</b>	<b>450 bags</b>
5 1/2			
4 1/2	<b>5220'</b>	<b>5220'</b>	<b>100 bags</b>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ 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