



CERTIFICATE

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and show 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 ULS#289

COMPANY CARL E. SMITH INC.
 ADDRESS SANDYVILLE, WEST VIRGINIA
 FARM EDWARD BUMGARNER
 MAP _____ ACRES 149 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. _____
 ELEVATION (SPIRIT LEVEL) 603.13
 QUAD/PANGLE RAVENSWOOD NW
 COUNTY MASON DISTRICT GRAHAM
 POINT OF PROVEN ELEVATION USGS BM H-841943 EL. 578
 FILE NO. _____ DRAWING NO. _____
 DATE JUNE 16, 1975 SCALE 1" = 1000 FT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. **MAS-137**

+ 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



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Ravenswood

Permit No. Mas: 137

Company CARL E. SMITH, INC.
Address P.O. Box 4, Sandyville, W.Va.
Farm Edward Bumgarner Acres 308
Location (waters) Ohio River
Well No. 1 (Serial #118) Elev. 603.13'
District Graham County Mason
The surface of tract is owned in fee by Edward M. Bumgarner
Address Rt. 1, Letart, W.Va.
Mineral rights are owned by Same
Address _____
Drilling Commenced 2-10-76
Drilling Completed 2-16-76 (Plug Back-2-17-76)
Initial open flow 15,000 cu. ft. _____ bbls.
Final production 80,000 cu. ft. per day _____ bbls.
Well open 24 hrs. before test 720# 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" | 1936' | 1936' | |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | | | |
| 2 2 3/8" | 3867' | 3867' | |
| 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 2900' to 3730'

| Formation | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|----------------|-------|--------------------------|----------|-------------|-------------------|-----------------------|
| Surface | | | 0 | 5 | | |
| Shale | | <u>TOPS FROM KB 613'</u> | 5 | 200 | | |
| Red Rock | | | 200 | 250 | | |
| Slate & Shells | | | 250 | 580 | | <u>PLUG BACK</u> |
| Sand | | | 580 | 610 | | |
| Shale | | | 610 | 686 | | 5220' to 5120'-Cement |
| Sand | | | 686 | 700 | | 5120' to 4100'-Gel |
| Shale | | | 700 | 736 | | 4100' to 3900'-Cement |
| Sand | | | 736 | 746 | | |
| Slate & Shells | | | 746 | 756 | | |
| Sand | | | 756 | 792 | | |
| Slate & Shale | | | 792 | 1190 | | |
| Sand | | | 1190 | 1230 | | |
| Shale | | | 1230 | 1260 | | |
| Sand | | | 1260 | 1340 | | |
| Shale | | | 1340 | 1808 | | |
| Coffee Shale | | | 1808 | 1820 | | |
| Berea | | | 1820 | 1842 | | Salt Water |
| Shale | | | 1842 | 2900 | | |
| Brown Shale | | | 2900 | 3730 | | |
| Lime | | | 3730 | 4732 | | Plug Back - 3900' |
| Shale | | | 4732 | 5030 | | |
| Packer Shell | | | 5030 | 5036 | | |
| Shale | | | 5036 | 5059 | | |

GR log - el. 613 RT,
H 2818
J 3288
A 3408
Rd 3553
On 3730

(over)

* Indicates Electric Log tops in the remarks section.

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| Formation | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|-------------------|-------|--------------|----------|-------------|-------------------|-----------|
| Clinton | | | 5059 | 5111 | | |
| Shale | | | 5111 | 5180 | | |
| Medina | | | 5180 | 5190 | | |
| Martinsburg Shale | | | 5190 | 5220 | T.D. | |
| <i>TRR</i> | | | | | | |

Date October 17, 19 77

APPROVED CARL E. SMITH, INC. Owner

By *[Signature]*
(Title) Land Agent



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

~~JUL 16~~ 1975
December 15,
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 July 14, 1975

Surface Owner Edward M. Bumgarner
Address Route 1, Letart, West Virginia
Mineral Owner Same
Address _____
Coal Owner Same
Address _____
Coal Operator None
Address _____

Company CARL E. SMITH, INC.
Address P.O. Box 4, Sandyville, W. Va. 25275
Farm Edward M. Bumgarner Acres 308
Location (waters) Ohio River
Well No. 1 (Serial #118) Elevation 603.13'
District Graham County Mason
Quadrangle Ravenswood

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 4-16-76

[Signature]

Deputy Director - Oil & Gas Division

Inspector to be notified: Kenneth Butcher
Ph: 736-4885 Address: Barboursville, W. Va.

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 August 1 1973 by Edward M. and Lethia Bumgarner made to CARL E. SMITH, INC. and recorded on the 26 day of December 1973 in Mason County, Book 37 Page 696

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, CARL E. SMITH, INC.
(Sign Name) *[Signature]*
Well Operator

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:
West Virginia Geological and Economic Survey
P. O. Box 879
Martinsburg, W. Va. 26505
Tel. 304-296-4461

Address
of
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 BOND

MAS-135 Expired - Reissued as:
MAS-137 PERMIT NUMBER
47-053

**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 (304) 273-9314 TELEPHONE (304) 273-9314
 ESTIMATED DEPTH OF COMPLETED WELL: 5000' 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 | | | |
| 14" 14" 14" | 180' | 180' | |
| 9 - 5/8 | | | |
| 8 - 5/8 | 1900' | 1900' | |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | 5000' | 5000' | |
| 3 | | | |
| 2 | | | Perf. Top |
| Liners | | | Perf. Bottom |
| | | | Perf. Top |
| | | | 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 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