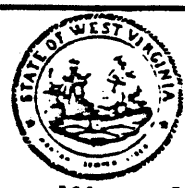


FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION Road Int. 689'

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.  
 (SIGNED) William P. Morgan  
 R.P.E. \_\_\_\_\_ L.L.S. \_\_\_\_\_

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-8  
 (8-73)



DATE 23 March, 1981  
 OPERATOR'S WELL NO Smith 1  
 API WELL NO. \_\_\_\_\_  
47 - 095 - 0907  
 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 645' WATER SHED Buffalo Run  
 DISTRICT Union COUNTY Tyler  
 QUADRANGLE Middlebourne, W. Va. 7 1/2' Quad Union WJ  
 SURFACE OWNER W. Sprigg Smith ACRES 336  
 OIL & GAS ROYALTY OWNER W. Sprigg Smith LEASE ACRES 336  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUS OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUS AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUS \_\_\_\_\_  
 TARGET FORMATION Ohio Shale ESTIMATED DEPTH 5500'  
 WELL OPERATOR Lauderman O+G DESIGNATED AGENT Phillip Morgan  
 ADDRESS Box 266 ADDRESS Box 266  
Paden City, W. Va. 26159 Paden City, W. Va. 26159

SPRIGG SMITH #1

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

Date February 24, 1981

FORM IV-35 (Obverse)

Operator's Well No. # 1

[08-78]

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

API Well No. 47-095 #09 State County Pe

WELL TYPE: Oil XX / Gas XX / Liquid Injection / Waste Disposal / (If "Gas", Production / Underground storage / Deep XX / Shallow /) LOCATION: Elevation: 645' Watershed: Buffalo Run District: Union Dist. County: Tyler Quadrangle: 7 1/2

WELL OPERATOR Lauderman Oil & Gas Address 311 South Fourth Ave. Paden City, WV 26159 DESIGNATED AGENT Phillip Morgan Address SAME

PERMITTED WORK: Drill XX / Convert / Drill deeper / Redrill / Fracture or stimulate Plug off old formation / Perforate new formation / Other physical change in well (specify)

PERMIT ISSUED ON 03/25, 19 81

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Robert Lowther

Address 3rd Street Middlebourne, WV

GEOLOGICAL TARGET FORMATION: Middle Devonian Depth 4500 feet

Depth of completed well, 4695 feet Rotary XX / Cable Tools

Water strata depth: Fresh, 85 feet; salt, 1650 feet.

Coal seam depths: No Coal Is coal being mined in the area? No

Work was commenced 4-8-, 19 81, and completed 4-16-, 19 81

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bot)

OPEN FLOW DATA

Producing formation Middle Devonian Pay zone depth 4500

Gas: Initial open flow, 750,000 Mcf/d Oil: Initial open flow, 10 Bbl/d

Final open flow, 325,000 Mcf/d Final open flow, 6 Bbl/d

Time of open flow between initial and final tests, 24 hours

Static rock pressure, 1250 psig (surface measurement) after 24 hours shut in.

[If applicable due to multiple completion--]

Second producing formation None Pay zone depth

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

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

Time of open flow between initial and final tests, hours

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

MAR 18 1982

[08-78]

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

- 3112-3120 - 6 Shots
- 3124-3128 - 2 Shots
- 3130-3138 - 5 Shots
- 3144-3150 - 6 Shots
- 3156-3158 - 1 Shot

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Berea Sand	-	-	2095	2105	
Gordon Stray	-	-	2340	2360	
Gordon Sand			2510	2525	
Middle Devonian	<i>DEMON</i> <i>Huron</i>		4360	4515	

$$\begin{array}{r} 4515 \\ 2200 \\ \hline 2315 \text{ EXPL FT.} \end{array}$$

(Attach separate sheets to complete as necessary)

Lauderman Oil & Gas Drilling  
Well Operator

By Rhett Wetzel *Rhett Wetzel*  
Its Asst. Service Coord.

**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."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

MAR 25 1981

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 3/23/81

Surface Owner W. Sprigg Smith

Company Lauderman Oil & Gas Drilling

Address RD #1, Sistersville, WV

Address P. O. Box 266, Paden City, WV

Mineral Owner SAME

Farm Sprigg Smith Acres 326

Address

Location (waters)

Coal Owner SAME

Well No. #1 Elevation

Address

District Union County Tyler

Coal Operator N/A

Quadrangle

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 11-25-81

INSPECTOR

TO BE NOTIFIED Phillip Tracy

ADDRESS Rt #23, Alma, WV 26320

PHONE 758-4573

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 3 27 1971 by W. Sprigg Smith made to Royal Resources Co. and recorded on the 14 day of May 19 71, in Tyler County, Book 188 Page 504

XXXXXXX 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:

OFFICE OF OIL AND GAS  
1615 Washington Street, East  
Charleston, West Virginia  
Area Code 304 -348-3092 348-3096

Address  
of  
Well Operator

311 S. Fourth Avenue  
Street

Paden City  
City or Town

West Virginia 26159  
State

Very truly yours,

(Sign Name)

Well Operator

\*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.

47-095-0907

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

*Lawson*

**THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO XXXXXXX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_

DRILLING CONTRACTOR: (If Known)

RESPONSIBLE AGENT:

NAME: UNKNOWN

NAME: \_\_\_\_\_

ADDRESS \_\_\_\_\_

ADDRESS \_\_\_\_\_

TELEPHONE \_\_\_\_\_

TELEPHONE \_\_\_\_\_

ESTIMATED DEPTH OF COMPLETED WELL: 4990'

ROTARY XXX CABLE TOOLS XXX

PROPOSED GEOLOGICAL FORMATION: \_\_\_\_\_

TYPE OF WELL: OIL XXXXX GAS XXXXXXXX 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	250' Surface, Cement Bottom to Surface,	Mud Rotary, 850' air rig	
7			
5 1/2			
4 1/2	10.5 TD of Well		<i>Rule 15-27</i>
3			Perf. Top
2	NOTE Will run approx. 1700 to 1800' 7" OD if water is encountered at the 1700' Level (Big INjun horizon)		Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER 1700 FEET

APPROXIMATE COAL DEPTHS N/A

IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ 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