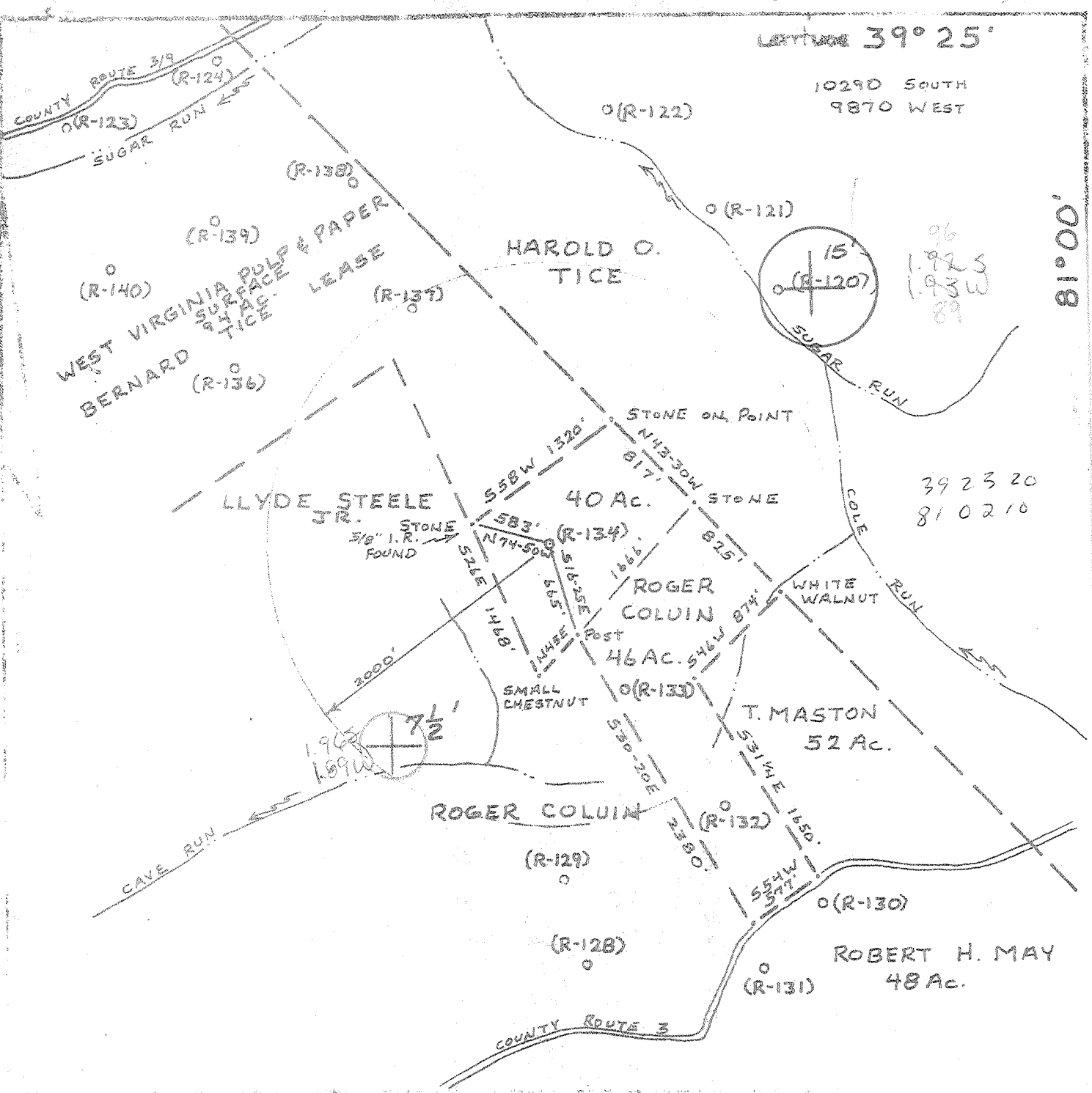


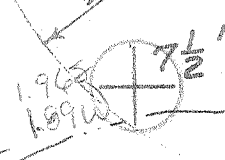
Latitude 39° 25'

10290 SOUTH  
9870 WEST

81° 00'



39 23 20  
81 02 10



1" = 1000'

11200

ELEVATION ROAD ELEV. 1022'

THE ABOVE DESCRIBED LAND IS THE PROPERTY OF THE STATE OF WEST VIRGINIA AND IS BEING SURVEYED FOR THE PURPOSES OF THE SURFACE LEASE TO THE WEST VIRGINIA PULP & PAPER COMPANY. THE SURFACE LEASE IS FOR A TERM OF YEARS AND IS SUBJECT TO THE PROVISIONS OF THE SURFACE LEASE AGREEMENT. THE SURFACE LEASE IS FOR THE PURPOSES OF THE SURFACE LEASE TO THE WEST VIRGINIA PULP & PAPER COMPANY. THE SURFACE LEASE IS FOR A TERM OF YEARS AND IS SUBJECT TO THE PROVISIONS OF THE SURFACE LEASE AGREEMENT.

*William H. Moore*  
-55-

DATE 20 APRIL 79  
OPERATOR'S WELL R-134  
API WELL NO. 47 073 0750  
STATE OF WEST VIRGINIA

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

AND GAS DIVISION

THIS SURVEY IS A PART OF THE SURFACE LEASE TO THE WEST VIRGINIA PULP & PAPER COMPANY. THE SURFACE LEASE IS FOR A TERM OF YEARS AND IS SUBJECT TO THE PROVISIONS OF THE SURFACE LEASE AGREEMENT. THE SURFACE LEASE IS FOR THE PURPOSES OF THE SURFACE LEASE TO THE WEST VIRGINIA PULP & PAPER COMPANY. THE SURFACE LEASE IS FOR A TERM OF YEARS AND IS SUBJECT TO THE PROVISIONS OF THE SURFACE LEASE AGREEMENT.

WATER & GAS CAVE RUN  
LAFAYETTE COUNTY PLEASANTS  
ST. Marys 15' EC  
ACREAGE 40  
OWNER ROGER COLUIN  
LEASE ACREAGE 86

UPPER DEVONIAN  
C.W. RIGGS, INC.  
Box 358, ST. MARYS, W.VA. 26170

3130'  
C.W. RIGGS  
Box 358, ST. MARYS  
W.VA. 26170

6-6 Shawnee (87) Shiloh-wick (86)

MAY 22 1979



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division  
WELL RECORD

*Handwritten:* 112650740

FEB 22 1980

OIL & GAS DIVISION  
DEPT. OF MINES

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

Quadrangle Beals Run  
Permit No. 47-073-0750

Company C. W. Pigg, Inc  
Address Box 358, St. Marys, W.Va.  
Farm COLVIN Acres 8.6  
Location (waters) COLE RUN  
Well No. R-134 Elev 1102  
District LAFAYETTE County PLEASANT  
The surface of tract is owned in fee by ROGER COLVIN  
Address Rt 39, St. Marys, W.Va.  
Mineral rights are owned by SAME  
Address SAME  
Drilling Commenced 6-5-77  
Drilling Completed 6-12-79  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production 44,000 cu. ft. per day 4 bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

| Casing and Tubing | Used in Drilling | Left in Well | Cement fill up Cu. ft. (Sks.) |
|-------------------|------------------|--------------|-------------------------------|
| Size 20-16        |                  |              |                               |
| Cond. 13-10"      | 250              | 250          |                               |
| 9 5/8             |                  |              |                               |
| 8 5/8             | 1088             | 1088         |                               |
| 7                 |                  |              |                               |
| 5 1/2             |                  |              |                               |
| 4 1/2             |                  | 3202         | 470 sks.                      |
| 3                 |                  |              |                               |
| 2                 |                  |              |                               |
| Liners Used       |                  |              |                               |

Well treatment details:

Attach copy of cementing record.

PERFORATIONS 2796-3036 26 SHOTS

480 + 44 MCF

FRACTURE TREATMENT

1500 BBL H<sub>2</sub>O, 100,000# SAND, 135,000 SCF N<sub>2</sub>

Coal was encountered at N/A Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water N/A Feet \_\_\_\_\_ Salt Water N/A Feet \_\_\_\_\_  
Producing Sand 30 Feet Gordon, 4th Sand Depth 2749 - 3038  
2749-81 2952-73 3021-38 3

| Formation   | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks    |
|-------------|-------|--------------|----------|-------------|-------------------|--------------|
| 1ST SALT    |       |              | 1411     | 1468        |                   | TOP LOGGED * |
| 2ND SALT    |       |              | 1501     | 1551        |                   |              |
| 3RD SALT    |       |              | 1624     | 1678        |                   |              |
| MAXON       |       |              | 1781     | 1814        |                   |              |
| BIG LIME    |       |              | 1929     | 2020        |                   |              |
| KEENER      |       |              | 2021     | 2060        |                   |              |
| INJUN       |       |              | 2061     | 2168        |                   |              |
| SQUAW       |       |              | 2169     | 2189        |                   |              |
| WELCH STRAY |       |              | 2466     | 2493        |                   |              |
| BERER       |       |              | 2537     | 2543        |                   |              |
| 50 FOOT     |       |              | 2656     | 2695        |                   |              |
|             |       |              |          | 3202        |                   |              |

(over)

\* Indicates Electric Log tops in the remarks section.

MAR 10 1980

| Formation    | Color | Hard or Soft | Top Feet <sup>56</sup> | Bottom Feet | Oil, Gas or Water | Remarks |
|--------------|-------|--------------|------------------------|-------------|-------------------|---------|
| 30 FOOT      |       |              | 2749                   | 2781        | GAS               |         |
| GORDON STRAY |       |              | 2885                   | 2915        | GAS               |         |
| GORDON       |       |              | 2952                   | 2973        | GAS & OIL         |         |
| 4TH SAND     |       |              | 3021                   | 3038        | GAS               |         |
| 5TH SAND     |       |              | 3111'                  | 3120        |                   |         |

Date FEB 1, 1980

APPROVED C. W. Riggs, Jr., Owner

By [Signature]



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
APR 27 1979

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 Roger Colvin  
Address Rt. 39, St. Marys, W. Va.  
Mineral Owner Roger Colvin  
Address Rt. 39, St. Marys, W. Va.  
Coal Owner Roger Colvin  
Address Rt. 39, St. Marys, W. Va.  
Coal Operator None  
Address \_\_\_\_\_

DATE 4-26-79  
Company C. W. Riggs, Inc.  
Address Box 358, St. Marys, W. Va.  
Farm Colvin Acres 86  
Location (waters) Cave Run  
Well No. R-134 Elevation 1102'  
District Lafayette County Pleas.  
Quadrangle Bens Run, W. Va.

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 12-30-79.

Deputy Director - Oil & Gas Division

INSPECTOR  
TO BE NOTIFIED Philip Tracy  
ADDRESS Middlebourne, W. Va.  
PHONE 758-4573

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 March 2 1979 by Roger Colvin made to Frank Pethel and recorded on the 7th day of March 1979, in Pleasants County, Book 151 Page 353

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, WEST VIRGINIA 26505  
AC-304 - 292-6331

Very truly yours,  
(Sign Name) C. W. Riggs  
Well Operator

Address Box 358  
of \_\_\_\_\_ Street  
Well Operator St. Marys  
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

**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  Little Swiss Drilling  NAME  C. W. Riggs, Inc.   
 ADDRESS  Buchannon, W. Va.  ADDRESS  St. Marys, W. Va.   
 TELEPHONE  472-6396  TELEPHONE  684-3974   
 ESTIMATED DEPTH OF COMPLETED WELL:  3225'  ROTARY  X  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION:  Upper Devonian   
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB.  X  STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

| CASING AND TUBING SIZE | USED FOR DRILLING | LIFT IN WELL | CEMENT LIFT UP OR SACKS CUBIC FT. |
|------------------------|-------------------|--------------|-----------------------------------|
| 20 - 16                |                   |              |                                   |
| 13 - 10                |                   |              |                                   |
| 9 - 5/8                |                   |              |                                   |
| 8 - 5/8                |                   | 250'         | cement top-bottom                 |
| 7                      |                   |              |                                   |
| 5 1/2                  |                   |              |                                   |
| 4 1/2                  |                   | 3225'        | 200 sks.                          |
| 3                      |                   |              | Perf. Top                         |
| 2                      |                   |              | Perf. Bottom                      |
| Liners                 |                   |              | Perf. Top                         |
|                        |                   |              | Perf. Bottom                      |

APPROXIMATE FRESH WATER DEPTHS  105  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