



OUR PROJECT 82-1798

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1:2500  
 PROVEN SOURCE OF ELEVATION USGS

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) Kathleen [Signature]  
 R.P.E. \_\_\_\_\_ L.L.S. 4550

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



DATE \_\_\_\_\_, 19\_\_\_\_  
 OPERATOR'S WELL NO. 4-1  
 API WELL NO. 47-103-1258  
 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 1040' WATER SHED FISHING CREEK  
 DISTRICT GREEN COUNTY WETZEL  
 QUADRANGLE PORTERS FALLS 7.5' N 2nd meridian suite 15' S 1  
 SURFACE OWNER S.L. MORGAN WADSWORTH & OTHERS 211  
 OIL & GAS ROYALTY OWNER PETRO-ENERGY, INC. S.L. MORGAN HEIRS. LEASE ACRES 211  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION WETZEL & SPEECHLEY ESTIMATED DEPTH 4000' MAR 29 1982  
 WELL OPERATOR THE COASTAL CORP. DESIGNATED AGENT E.L. ANDERSON  
 ADDRESS 3501 EMERSON AVE., 4-B ADDRESS 3501 EMERSON AVE., 4-B  
PARKERSBURG, WV 26101 ADDRESS PARKERSBURG, WV 26101



IV-35  
(Rev 8-81)



Date April 27, 1982

**RECEIVED**  
JUL 15 1982  
OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

**State of West Virginia**

**Department of Mines  
Oil and Gas Division**

Operator's  
Well No. Paramount #4

Farm Morgan heirs

API No. 47 - 103 - 1258

**WELL OPERATOR'S REPORT  
OF**

**DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE**

WELL TYPE: Oil XX / Gas XX / Liquid Injection     / Waste Disposal     /  
(If "Gas," Production     / Underground Storage     / Deep     / Shallow     /)

LOCATION: Elevation:                      Watershed Fishing Creek  
District: Green County Wetzel Quadrangle Porter Falls

COMPANY THE COASTAL CORPORATION  
ADDRESS 3501 EMERSON AVENUE, SUITE 4B  
DESIGNATED AGENT WILLIAM E. CARPENTER, JR.  
ADDRESS 3501 EMERSON AVENUE, SUITE 4B  
SURFACE OWNER Wadsworth Brothers  
ADDRESS Alma, West Virginia  
MINERAL RIGHTS OWNER S. L. Morgan heirs  
ADDRESS New Martinsville, West Virginia  
OIL AND GAS INSPECTOR FOR THIS WORK                       
ADDRESS                     

PERMIT ISSUED February 23, 1982  
DRILLING COMMENCED March 24, 1982  
DRILLING COMPLETED April 4, 1982

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

| Casing<br>Tubing                            | Used in<br>Drilling | Left<br>in Well | Cement<br>fill up<br>Cu. ft. |
|---|---------------------|-----------------|------------------------------|
| Size <u>11 3/4</u><br><u>20-16</u><br>Cond. | <u>347</u>          | <u>347</u>      | To<br>Surface                |
| <u>13-10"</u>                               |                     |                 |                              |
| <u>9 5/8</u>                                |                     |                 |                              |
| <u>8 5/8</u>                                | <u>2131</u>         | <u>2131</u>     | To<br>Surface                |
| <u>7</u>                                    |                     |                 |                              |
| <u>5 1/2</u>                                |                     |                 |                              |
| <u>4 1/2</u>                                |                     | <u>4050</u>     | To<br>Casing                 |
| <u>3</u>                                    |                     |                 |                              |
| <u>2</u>                                    |                     |                 |                              |
| Liners<br>used                              |                     |                 |                              |

GEOLOGICAL TARGET FORMATION Devonian Shale (Speechley) Depth 4200 feet  
Depth of completed well 4047 feet Rotary XX / Cable Tools                       
Water strata depth: Fresh 250 feet; Salt N/A feet  
Coal seam depths: 300 & 1020 Is coal being mined in the area? NO

**OPEN FLOW DATA**

Producing formation Speechley Slst. Pay zone depth 3526-4010 feet  
Gas: Initial open flow 800 Mcf/d Oil: Initial open flow show Bbl/d  
Final open flow 250 Mcf/d Final open flow 2 Bbl/d  
Time of open flow between initial and final tests 12 hours  
Static rock pressure 1050 psig (surface measurement) after 12 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation                      Pay zone depth                      feet  
Gas: Initial open flow                      Mcf/d Oil: Initial open flow                      Bbl/d  
Final open flow                      Mcf/d Oil: 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

(Continue on reverse side)

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

Perfed at 3526-4010 with 40 holes of .39 size select fire.

Fracked with foam frack of 50,000# 20/40 sand and 960,000 SCF N<sub>2</sub> and 160 BBLs sand leder foam.

Warren sd. to Speechley sd. - ("Huron shale", upper part)

WELL LOG

| FORMATION | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS<br>Including indication of all fresh and salt water, coal, oil and gas                                   |
|-----------|-------|--------------|----------|-------------|--|
| INJUN     |       |              | 2050     | 2150        | Show oil and gas & Salt Water  |
| SQUAW     |       |              | 2224     | 2254        | Show oil and gas   |
| WIER      |       |              | 2410     | 2480        | Show oil and gas   |
| BEREA     |       |              | 2604     | 2610        | Show oil and gas   |
| 30'       |       |              | 2802     | 2822        | Show oil and gas   |
| GORDON    |       |              | 3050     | 3070        | Show oil and gas   |
|           |       |              |          | 4047 TD     | in "Huron shale" (upper part)<br>below Speechley (prob. east of Huron black facies)<br>drilled TD on log<br>4201 |

4047  
2610  
1437 ✓ Berea

(Attach separate sheets as necessary)

The Coastal Corporation

Well Operator

By: William E. Carpenter Jr.

Date: April 27, 1982

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."

RECEIVED  
FEB 23 1982

FEB 23 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES



Farm S.L. Morgan  
API # 47 - 103 - 1258  
Date February 18, 1982

PARAMOUNT NO. 4

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil \_\_\_ / Gas XX /

(If "Gas", Production XX / Underground storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /

LOCATION: Elevation: 1040 Watershed: Fishing Creek  
District: Green County: Wetzel Quadrangle: Porter Falls

WELL OPERATOR The Coastal Corporation  
Address 3501 Emerson Avenue, Suite 4B  
Parkersburg, WV 26101

DESIGNATED AGENT E. J. Anderson  
Address 3501 Emerson Avenue, Suite 4B  
Parkersburg, WV 26101

OIL AND GAS ROYALTY OWNER S. L. Morgan Heirs  
Address 309 Clark Street  
New Martinsville, WV  
Acreage 211 Acres

COAL OPERATOR N/A  
Address \_\_\_\_\_

SURFACE OWNER Wadsworth Brothers  
Address Alma, West Virginia  
Acreage 211 Acres

COAL OWNER(S) WITH DECLARATION ON RECORD:  
NAME N/A  
Address \_\_\_\_\_  
NAME \_\_\_\_\_  
Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
NAME \_\_\_\_\_  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
NAME N/A  
Address \_\_\_\_\_

OIL AND GAS INSPECTOR TO BE NOTIFIED:  
NAME Phillip Tracy  
Address Route 23  
Alma, WV  
Telephone 758-4573

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_ / lease \_\_\_ / other contract XX / dated Jan. 18, 1982, to the undersigned well operator from Petro-Energy.

(If said deed, lease, or other contract has been recorded:)

Recorded on \_\_\_\_\_, 19\_\_\_\_, in the office of the Clerk of County Commission of \_\_\_\_\_ County, West Virginia, in \_\_\_\_\_ Book at page \_\_\_\_\_. A permit is requested as follows:

PROPOSED WORK: Drill XX / Drill Deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate \_\_\_ / Plug off old formation \_\_\_ / Perforate new formation \_\_\_ / Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1613 WASHINGTON ST., E.  
CHARLESTON, WV 25311  
Telephone - 304/348-3092

BLANKET BOND

THE COASTAL CORPORATION  
Well Operator

By: William E. Carpenter

Its: PRESIDENT

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) WARREN HAUGHT

Address SMITHVILLE, WV

GEOLOGICAL TARGET FORMATION GORDON & SPEECHLEY

Estimated depth of completed well 3999 feet. Rotary XX / Cable tools      /  
Approximate water strata depths: Fresh, 200 feet; salt, 700 feet.  
Approximate coal seam depths: 900  
Is coal being mined in this area: Yes      / No XX /

CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS |       |               |     |      | FOOTAGE INTERVALS |              | CEMENT FILL-UP OR SACKS Cubic ft. | PACKERS                     |
|-----------------------|----------------|-------|---------------|-----|------|-------------------|--------------|-----------------------------------|-----------------------------|
|                       | Size           | Grade | Weight per ft | New | Used | For Drill-ling    | Left in Well |                                   |                             |
| Conductor             | 16             |       |               |     | XX   | 45'               | 45'          | To Surface                        | Kinds                       |
| Fresh water           |                |       |               |     |      |                   |              |                                   |                             |
| Coal                  |                |       |               |     |      |                   |              |                                   |                             |
| Intermed.             | 8 5/8          | ERW   | 20.00         | XX  |      | 1200'             | 1200'        | Surface                           | 160sks<br>Sizes             |
| Production            | 4 1/2          | ERW   | 9.50          | XX  |      | 4000'             | 4000'        | 350 sks                           | Depths set                  |
| Tubing                |                |       |               |     |      |                   |              |                                   |                             |
| Liners                |                |       |               |     |      |                   |              |                                   | Perforations:<br>Top Bottom |

**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.  
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,  
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY  
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE  
IF OPERATIONS HAVE NOT COMMENCED BY 11-12-82.  
BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator      / owner      / lessee      / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date:     , 19    .

By:     

Its: