



80°45'-15"

LONGITUDE 80°47'30"(7 1/2')

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) [Signature]
 R.P.E. _____ L.L.S. _____

PLACE SEAL HERE

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



DATE _____, 19____
 OPERATOR'S WELL NO. _____
 API WELL NO. 47-103-1256
 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 1022 WATER SHED FISHING CREEK
 DISTRICT GREEN COUNTY WETZEL
 QUADRANGLE PORTERS FALLS New Martinsville 15'SE
 SURFACE OWNER S. L. MORGAN WADSWORTH BROTHERS 211
 OIL & GAS ROYALTY OWNER PETRO-ENERGY, INC. S.L. MORGAN HEIRS LEASE ACREAGE 211
 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) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION GLORIAN & SPEECHLEY ESTIMATED DEPTH 4000'
 WELL OPERATOR THE COASTAL CORP. DESIGNATED AGENT E. J. ANDERSON
 ADDRESS 3501 EMERSON AVE, 4-B ADDRESS 3501 EMERSON AVE, 4-B
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

RECEIVED

DEC 15 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date 11/15/82
Operator's P-2
Well No.
Farm S. L. Morgan heirs
API No. 47 - 103 - 1256

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

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

LOCATION: Elevation: 1027 KB Watershed Fishing Creek
District: Green County Wetzel Quadrangle Porters Falls 7.5 min.

COMPANY The Coastal Corporation
ADDRESS 3501 Emerson Ave. S-4b Parkersburg W. Va. 26102
DESIGNATED AGENT W. E. Carpenter, Jr.
ADDRESS 3501 Emerson Ave. S-4b Parkersburg W. Va. 26102
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 Robert Lowther
ADDRESS Middlebourne, W. Va. 26149
PERMIT ISSUED 2/23/82

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	300'	300'	to surface
9 5/8			
8 5/8	2248'	2248'	to surface
.7			
5 1/2			
4 1/2	4168'	4168'	to 2200'+
3			
2			
Liners used			

DRILLING COMMENCED 4/4/82
DRILLING COMPLETED 4/11/82 Not fracked until 11/82
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Speechley Depth 4100'+ feet
Depth of completed well 4258' feet Rotary x / Cable Tools
Water strata depth: Fresh N/A feet; Salt N/A feet
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Gordon Stray Pay zone depth 2810-2828 feet
Gas: Initial open flow 350 Mcf/d Oil: Initial open flow good show Bbl/d
Final open flow 150 Mcf/d Final open flow 5 Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 1100 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)

Second producing formation Speechley Pay zone depth 3773-4075 feet
Gas: Initial open flow 200 Mcf/d Oil: Initial open flow Trace Bbl/d
Final open flow Dry N/A ? Mcf/d Oil: Final open flow N/A ? Bbl/d

*Two Stage Frac Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours *Two Stage Frac
Static rock pressure 1200 psig (surface measurement) after 12 hours shut in

(Continue on reverse) DEC 27 1982

DEC 27 1982

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

Perforations
 Stage 1 40 .39 perforations from 3773' - 4075'
 Stage 2 15 .39 perforations from 2810' - 2828'

Stimulations
 Stage 1 (Speechley) Nitrogen Frac w/ 800 mscf n₂
 breakdown 3550 psi, initial shut-in 1800 psi.
 Stage 2 (Gordon Stray) Foam Frac w/ 125 barrels treated water, 25
 mlbs 20-40 mesh sand, and 720 mscf n₂

WELL LOG breakdown 3500 psi, initial shut-in 1400 psi

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Base Big Injun Siltstone & shale			2250 2250	2250 2414	
Weir Sandstone Siltstone & shale			2414 2481	2481 2609	interbedded; show gas
First Berea Siltstone & shale			2609 2615	2615 2628	show gas
Second Berea Siltstone & shale			2628 2631	2631 2808	
Gordon Stray Siltstone & shale			2808 2829	2829 3542	show gas
Warren Siltstone Siltstone & shale			3542 3578	3578 4258	estimated Speechley Interval 3943' - 4103' T.D. <u>Logger 4258'</u> <i>unknown</i>

4258
2631

1627 (Berea)

2615
1158

(Attach separate sheets as necessary)

The Coastal Corporation

Well Operator

By: *Benjamin Smeltzer*
Benjamin Smeltzer, Petroleum Geologists

Date: 11/15/82

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 ... encountered in the drilling of a well."

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, 100 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									Sizes
Intermed.	8 5/8	ERW	20.1b	XX		1200'	1200'	surface 160sks.	
Production	4 1/2"	ERW	9.50	XX		4000'	4000'	350 sks	Depths set
Tubing									
Liners									Perforations: 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 regulations.

Date: , 19

By:

Its:

RECEIVED
FEB 23 1982

OIL AND GAS DIV
WV DEPARTMENT OF



Farm S. L. Morgan
API # 47 - 103 - 1256
Date _____

PARAMOUNT WELL NO. 2

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: 1022 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 26155
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, 19 82, 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 J. Carpenter
Its: President