



FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION U.S.G.S.

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. #550

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. 47-103-1257
 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 994' WATER SHED FISHING CREEK
 DISTRICT GREEN COUNTY WETZEL
 QUADRANGLE PORTERS FALLS 7.5' New Martinsville 15' SE
 SURFACE OWNER S. L. MORGAN WADSWORTH BROS. ACRES 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 _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUS AND ABANDON _____ CLEAN OUT AND REPLUS _____
 TARGET FORMATION GORDON & 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 MAR 29 1982
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

IV-35
(Rev 8-81)

RECEIVED

MAY 11 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date April 27, 1982
Operator's
Well No. Paramount #1
Farm Morgan heirs
API No. 47 - 103 - 1257

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: 994 Watershed Fishing Creek
District: Green County Wetzell Quadrangle Porter Falls

COMPANY The Coastal Corporation
ADDRESS 3501 Emerson Avenue, Suite 4B, Pksg., WV
DESIGNATED AGENT William E. Carpenter, Jr.
ADDRESS 3501 Emerson Ave., #4B, Parkersburg, WV
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, WV 26149
PERMIT ISSUED February 23, 1982
DRILLING COMMENCED March 15, 1982
DRILLING COMPLETED March 23, 1982
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON N/A

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 113/4 20-16 Cond.	358	358	Surface
13-10"			
9 5/8			
8 5/8	2160	2160	Surface
7			
5 1/2			
4 1/2		4050	Top 1636
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon & Speechley Depth 3900 feet
Depth of completed well 4044 feet Rotary XX / Cable Tools
Water strata depth: Fresh 150 feet; Salt feet
Coal seam depths: 350 & 1020 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation ~~Shale~~ ^{Spch Bth} Shale Pay zone depth ~~3700~~ ³⁸²⁵⁻³⁹⁸⁶ feet
Gas: Initial open flow 1.2 M Mcf/d Oil: Initial open flow Oil Show Ebl/d
Final open flow 800 ~~1.2 M~~ Mcf/d Final open flow Oil Mist Ebl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 1100 psig (surface measurement) after 12 hours shut in
(If applicable due to multiple completion--) N/A
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Ebl/d
Final open flow Mcf/d Oil: Final open flow Ebl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

MAY 17 1982

(Continue on reverse side)

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

PERFS. - .39 select Fire Shot 28 Perfs between ^{Spch → Bltn} 3825' and 3986'

FOAM FRACKED with 671,000 SCF N2 and 30,000 #20/50 sand. and 160 bbls sand lader foam.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
WEIR			2330	2392	Show of oil and gas
BEREA 1st			2524	2532	Some Oil and Gas
BEREA 2nd			2542	2546	Some Oil and Gas
GORDON STRAY			2728	2744	GOOD OIL AND GAS
WARREN SHALE ZONE			3464	3492	Show of Oil and Good Gas
<u>TIONIA SHALE ZONE</u>			3834	3867	Some Oil and Gas
					T.O. <u>4050</u> probably in the drill TD on log 4221

4050
2800
1250 expl. #8

4050
2546
1504' ← Berea

(Attach separate sheets as necessary)

THE COASTAL CORPORATION
Well Operator

By: _____

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."

Form 17 -
(Reverse)

RECEIVED

P-1

(Revised 1-31)

MAR 04 1982

Farm S. L. Morgan
No. 47-103-1257
Date _____

PARAMOUNT **OIL AND GAS DIVISION**
N.W. DEPARTMENT OF MINES



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: 994 Watershed: Fishing Creek
District: Green County: Wetzel Quadrangle: Porters 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, 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 and Speechley

Estimated depth of completed well 3,999 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	20.00	XX		1200'	1200'	Surf. 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: