



1) Date: May 2, 19 84
 2) Operator's Well No. #1 Annon
 3) API Well No. 47 - 001 - 2062
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1723' Watershed: Sugar Creek
 District: Glade County: Barbour Quadrangle: Nestorville
- 6) WELL OPERATOR Continental Reserves Oil Co. of W. Va. Inc. Address P.O. Box 117 Bridgeport, WV 26330
 7) DESIGNATED AGENT Thomas P. Sanders Address 402 Orchard Street Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Stewart Address P.O. Box 345 Jane Lew, WV 26378
 9) DRILLING CONTRACTOR: Name Phil Tracy 636-8798 Address Box 388 Elkview, WV 25071
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Haverty
- 12) Estimated depth of completed well, 5400 feet
- 13) Approximate trata depths: Fresh, 200 feet; salt, 900 feet.
- 14) Approximate coal seam depths: 50'-500' Is coal being mined in the area? Yes No

RECEIVED
 MAY 4 - 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling			Left in well
Conductor	11 3/4	ERW	42	X		50'	50'	To surface	Kinds
Fresh water									
Coal						<u>850'</u>	<u>850'</u>		Sizes
Intermediate	8 5/8	J-55	23	X		<u>1,000'</u>	<u>1,000'</u>	To surface	<u>NEAT</u>
Production	4 1/2	K-55	10.5	X		5,400'	5,400'	600	<u>OR AS REG. BY</u>
Tubing	1 1/2	J-55	2.75	X			5,200'		<u>RULE 15.01</u>
Liners									Perforations:
									Top 4200' Bottom 5300'

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-001-2062 Date May 23, 1984

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires May 23, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>109</u>
----------------------	---------------------------	--------------------------	----------------------------	-----------------

[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) LOCATION: District: _____ Elevation: _____ Well No.: _____

2) WELL OPERATOR: Name: _____ Address: _____

3) DRILLING CONTRACTOR: Name: _____ Address: _____

4) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: _____ Address: _____

5) PROPOSED WELL WORK: Description: _____

6) GEOLOGICAL TARGET FORMATION: _____

7) APPROXIMATE TIE-IN DEPTH: _____

8) APPROXIMATE COAL SEAM DEPTHS: _____

9) ESTIMATED DEPTH OF COMPLETED WELL: _____

Casing or Tubing Size	Casing or Tubing Weight	Casing or Tubing Grade	Tubing Intervals		Tubing Intervals	Casing or Tubing Intervals	Casing or Tubing Intervals
			From	To			
8 1/2" O.D.	26.0	API 5L X 52	50'	50'	50'	50'	50'
6" O.D.	19.5	API 5L X 52	50'	50'	50'	50'	50'

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

Date	Date(s)
Application received	Follow-up inspection(s)
Well work started	"
Completion of the drilling process	"
Well Record received	"
Reclamation completed	"

OTHER INSPECTIONS

Reason: _____

Reason: _____

Blanket	Agent	Plant	Casing	Fee
---------	-------	-------	--------	-----

1) Date: May 1, 19 84
2) Operator's Well No. #1 Annon
3) API Well No. 47 - 001 - 2067
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Wanda & Elbert Annon
Address Box 49

Philippi, WV 26416

(ii) Name Lisa Renee Annon, an infant, by Legal
Address Guardian, Elbert Annon

Box 49, Philippi, WV 26416

(iii) Name _____
Address _____

5(i) COAL OPERATOR None
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name See Attached Paper

Address _____

Name _____

Address _____

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name None

Address _____

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

Thomas P. Sander
this 2nd day of May, 19 84.
My commission expires 3/5, 19 94.

Robert Thompson
Notary Public, _____ County,
State of West Virginia

WELL

OPERATOR Continental Reserves Oil Company
of West Virginia, Inc.

By Thomas P. Sander
Its Designated Agent

Address P.O. Box 117, Bridgeport, WV 26330
304 842-6236

Telephone _____

RECEIVED
MAY 4 - 1984
OIL & GAS DIVISION
DEPT. OF MINES

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

	<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book</u>	<u>Page</u>
Lease	Elbert & Wanda Annon Elbert Annon As Legal Guardian for Lisa Annon	Beckler Energy, Inc.	1/8th	99	620
Assignment	Beckler Energy, Inc.	Continental Reserves Oil Company		100	219



1) Date: May 2, 19 84
 2) Operator's Well No. #1 Annon
 3) API Well No. 47 State 001 County 001 Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1723' Watershed: Sugar Creek
 District: Glade County: Barbour Quadrangle: Nestorville
- 6) WELL OPERATOR Continental Reserves Oil Co. of W. Va. Inc. 7) DESIGNATED AGENT Thomas P. Sanders
 Address P.O. Box 117 Bridgeport, WV 26380 Address 402 Orchard Street Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Stewart Name Clint Hurt & Associates, Inc.
 Address P.O. Box 345 Jane Lew, WV 26378 Address Box 388 Elkview, WV 25071
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Haverty
- 12) Estimated depth of completed well, 5400 feet
- 13) Approximate strata depths: Fresh, 200 feet; salt, 900 feet.
- 14) Approximate coal seam depths: 50'-500' Is coal being mined in the area? Yes _____ / No X /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	<u>11 3/4</u>	<u>ERW</u>	<u>42</u>	<u>X</u>		<u>50'</u>	<u>50'</u>	<u>To surface</u>	Kinds
Fresh water									Sizes
Coal									Depths set
Intermediate	<u>8 5/8</u>	<u>J-55</u>	<u>23</u>	<u>X</u>		<u>1,000'</u>	<u>1,000'</u>	<u>To surface</u>	
Production	<u>4 1/2</u>	<u>K-55</u>	<u>10.3</u>	<u>X</u>		<u>5,400'</u>	<u>5,400'</u>	<u>600</u>	
Tubing	<u>1 1/2</u>	<u>J-55</u>	<u>2.75</u>	<u>X</u>			<u>5,200'</u>		
Liners									Perforations: Top <u>4200'</u> Bottom <u>5300'</u>

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The 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 the receipt of this Application by the Department.

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 the filing of the Application.

WAIVER

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 _____

Coal Owner



1) Date: May 2, 19 84
 2) Operator's Well No. #1 Annon
 3) API Well No. 47 001
 State County Permit

**STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1723' Watershed: Sugar Creek
 District: Glade County: Barbour Quadrangle: Nesterville
- 6) WELL OPERATOR Continental Reserves Oil Co. 7) DESIGNATED AGENT Thomas P. Sanders
 Address P.O. Box 117 Address 402 Orchard Street
Bridgeport, WV 26380 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Stewart Name Clint Hurt & Associates, Inc.
 Address P.O. Box 345 Address Box 388
Jane Lew, WV 26378 Elkview, WV 25071
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Haverty
- 12) Estimated depth of completed well, 5400 feet
- 13) Approximate trata depths: Fresh, 200 feet; salt, 900 feet.
- 14) Approximate coal seam depths: 50'-500' Is coal being mined in the area? Yes

RECEIVED
 MAY 4 - 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling			Left in well
Conductor	<u>11 3/4</u>	<u>ERW</u>	<u>42</u>	<u>X</u>		<u>50'</u>	<u>50'</u>	<u>To surface</u>	Kinds
Fresh water									
Coal									Sizes
Intermediate	<u>8 5/8</u>	<u>J-55</u>	<u>23</u>	<u>X</u>		<u>1,000'</u>	<u>1,000'</u>	<u>To surface</u>	
Production	<u>4 1/2</u>	<u>K-55</u>	<u>10.5</u>	<u>X</u>		<u>5,400'</u>	<u>5,400'</u>	<u>600</u>	Depths set
Tubing	<u>1 1/2</u>	<u>J-55</u>	<u>2.75</u>	<u>X</u>			<u>5,200'</u>		
Liners									Perforations:
									Top <u>4200'</u> Bottom <u>5300'</u>

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: _____

Elbert Annon Date: 5/2/84
 (Signature)

By _____

Manda L. Annon Date: 5/2/84
 (Signature)

Its _____ Date _____

**INSTRUCTIONS TO SURFACE OWNERS
AND
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT
ON OIL AND GAS WELL WORK PERMIT**

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (**NOTE:** If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas
West Virginia Department of Mines
1615 Washington Street East
Charleston, West Virginia 25311
(304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

May 1, 1984
#1 Annon Well

Coal Owners:

Sarah Mellon Scaife Foundation
c/o Mr. Richard Lorry
P.O. Box 268
Pittsburgh, Pa. 15230

Eastern Associated Coal Corporation
Koppers Building
Pittsburgh, Pa. 15219

The Charleston National Bank, As Trustee
P.O. Box 1113
Charleston, WV 25324
Attn: Barbara Hively

RECEIVED
MAY 4 - 1984
OIL & GAS DIVISION
DEPT. OF MINES

P 405 254 403
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Sarah Nealon Scarfe Franklin
 410 Mrs Richard Larey
 Special and No Box 268
 P.O. State and ZIP Code
 Pittsburgh, Pa 15230

Postage	\$ 20
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	60
Return Receipt Showing Date, and Address to whom, Sdsn	
TOTAL Postage and Postmark	155

BRIDGEPORT, PA MAY 2 1984

Answer #1 + 2 Coal Notice

P 405 254 405
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Barbara Hively
 One Westas National Bank
 Special and No Box 113
 P.O. State and ZIP Code
 Charleston W Va 25324

Postage	\$ 20
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	60
Return Receipt Showing Date, and Address to whom, Sdsn	
TOTAL Postage and Postmark	155

BRIDGEPORT, PA MAY 2 1984

Answer #1 + 2 Coal Notice

RECEIVED
 MAY 4 - 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

P 405 254 401
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Eastern Associated Coal Corp
 Street and No.
 Logans Building
 P.O. State and ZIP Code
 Pittsburgh, Pa 15219

Postage	\$ 20
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	60
Return Receipt Showing Date, and Address to whom, Sdsn	
TOTAL Postage and Postmark	155

BRIDGEPORT, PA MAY 2 1984

Answer #1 + 2 Coal Notice

RECEIVED
MAY 11 1910
DIVISION OF OIL & GAS
DEPT. OF MINES

RECEIVED
MAY 11 1910
DIVISION OF OIL & GAS
DEPT. OF MINES



State of West Virginia Department of Mines Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Continental Reserves Oil Company DESIGNATED AGENT Thomas P. Sanders

Address P.O. Box 117, Bridgeport, WV 26330

Telephone 304 842-6236

SOIL CONS. DISTRICT Tygarts Valley

Telephone 304 842-6236

Revegetation to be carried out by

Dave Miller

(Agent)

and additions become a part of this plan:

4/28/84

(SCD Agent)

RECEIVED

MAY 4 - 1984

OIL & GAS DIVISION

DEPT. OF MINES

ACCESS ROAD

Structure Road Culvert

Spacing .1 each at entrance

Page Ref. Manual Sec 4.0 Page 2-7

Structure Drainage Ditch

Spacing along access Road

Page Ref. Manual Sec. 6.0 Page 2-12

Structure Cross Drain

Spacing 1 each

Page Ref. Manual Sec. 2.0 Page 2-1

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Time 3 Tons/acre

or correct to pH 6.5

Fertilizer 500 lbs/acre

(10-20-20 or equivalent)

Mulch 1.5 - 2.5 Tons/acre

Seed* Orchard Grass 12 lbs/acre

Brassica 30 lbs/acre

Clover 8 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

NOTES: Please request landowner cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

PLAN PREPARED BY

Thomas P. Sanders

Address P.O. Box 117

Bridgeport, WV 26330

PHONE NO. 304 842-6236

Treatment Area II Lime Same as Area I or correct to pH Fertilizer (10-20-20 or equivalent) Mulch Seed* Tons/acre lbs/acre

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

HOWCO Four Stage Foam Frac on 7/2/84; 3,764-5215 with 61 holes. Total 837 bbl treated water
1,939 MSCF N₂; 1,100 Sx 20/40 sd.

Stage I - Haverty - 5,175-5,215 w/16 holes; BD 2,550#, ATP 4,000#, ATR 25bpm; 60% quality foam,
21 MSCF/min; Total 282 Bbl treated H₂O, 466 MSCF N₂; 300 Sx 20/40 sd;
ISICP 3,300#.

Stage II-III&IV Elks - 4,625-4,893 with 14 holes; BD 3,700#; ATP 4,000#; ATR 24bpm; 75 quality
foam; 23,000 SCF/min; Total 192 bbl H₂O; 553,000 SCF N₂; 300 Sx 20/40 sd
ISICP 3,250#.

See Attached Sheet for continuation of perforation.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top Soil	Sand		0	72	
Coal			72	76	
Sandy Shale			76	115	
Coal			115	118	
Sand			120	231	
Coal			231	235	
Sand			235	260	
Sandy Shale			260	290	
Sand			290	525	
Sandy Shale			525	735	
Red Rock			735	765	
Sand			765	770	
Red Rock			770	780	
Sandy Shale			780	815	
Red Rock			815	835	
Sand			835	1,050	
Sandy Shale & Red Rock			1,050	1,160	
L. Lime			1,160	1,175	
B. Lime			1,175	1,275	
Sand			1,275	1,400	
Sandy Shale			1,400	2,285	
Sand			2,285	2,355	
Sandy Shale			2,355	3,165	
Sand			3,165	3,180	
Sandy Shale			3,180	4,550	
Sand			4,550	4,635	
Sandy Shale (TD)			4,635	5,506	

(Attach separate sheets as necessary)

Well Operator _____

By: _____

Date: _____

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
minerals, encountered in the drilling of a well."

IV-35
(Rev 8-81)



Date July 23, 1984
Operator's
Well No. #1
Farm Annon
API No. 47 - 001 - 2062

State of West Virginia
Department of Mines
Oil and Gas Division

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

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

LOCATION: Elevation: 1723' Watershed Sugar Creek
District: Glade County Barbour Quadrangle Nestorville

COMPANY Continental Reserves Oil Company
ADDRESS P.O. Box 117, Bridgeport, WV 26330
DESIGNATED AGENT Thomas P. Sanders
ADDRESS P.O. Box 117, Bridgeport, WV 26330
SURFACE OWNER Elbert & Wanda Annon
ADDRESS Box 49, Philippi, WV 26416
MINERAL RIGHTS OWNER Elbert & Wanda Annon
ADDRESS Box 49, Philippi, WV 26416
OIL AND GAS INSPECTOR FOR THIS WORK Phil Tracy
P.O. Box 2536
Elkins, WV 26241
PERMIT ISSUED May 23, 1984
DRILLING COMMENCED June 18, 1984
DRILLING COMPLETED June 24, 1984

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11 3/4	21'	21'	----
9 5/8			
8 5/8	1136.9	1136.9'	300 sacks
7			
5 1/2			
4 1/2	5496.5	5496.5'	630 sacks
3			
1 1/2		4826.20'	
Liners used			

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

GEOLOGICAL TARGET FORMATION Haverty Depth 5175-5215 feet
Depth of completed well 5512 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 100 feet; Salt 1,100 feet
Coal seam depths: 72-76; 115-118; 231-235 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Haverty-Elks-Benson-Riley Pay zone depth 3764-5215 feet
Gas: Initial open flow NETG Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 263 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 68 1/2 hours
Static rock pressure 1,450 psig (surface measurement) after 120 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.

Stage III - I & II Elks - 4,122-4,432 with 13 holes; BD 3,650#; ATP 3,800#; ATR 24 bpm; 75% quality foam; 23,000 SCF/min; Total 150 bbl treated H₂O; 200 Sx 20/40 sand; 484,000 SCF N₂, ISICP 3,075#.

Stage IV - Benson & Riley - 3,764-3,934 with 16 holes; BD 3,400#; ATP 3,300#; ATR 24 bpm; 75% quality foam; 24,000 SCF/min; Total 175 bbl treated H₂O and 38 bbl displacement; 436,000 SCF N₂; 300 SX 20/40 sand; ISICP 1,900#.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Electric Log Tops:					
Big Lime			1,176	1,318	Slight gas odor
Big Injun			1,318	1,404	
Weir			1,508	1,568	
Berea SS			1,590	1,600	
Devonian:			1,600	5,512	
Gantz A			1,690	1,704	
Fifty Foot			1,820	1,848	
Thirty Foot			1,916	1,919	
Gordon Stray			2,000	2,014	
Gordon			2,077	2,172	
Fourth Sand			2,269	2,258	
Fifth			2,258	2,300	
Bayard			2,454	2,494	
Balltown			2,806	2,842	2/10" with 1" H ₂ O
Riley			3,758	3,808	
Benson			3,950	4,016	
I - Elk			4,116	4,176	
II - Elk			4,364	4,042	1/10" with 1" H ₂ O
III - Elk			4,614	4,714	
IV - Elk			4,824	4,880	
Haverty			5,174	5,237	12/10" with 1" H ₂ O
Log Total Depth				5,512	
Driller Total Depth				5,506	

(Attach separate sheets as necessary)

Continental Reserves Oil Company

Well Operator

By: Thomas P. Sanders
Thomas P. Sanders - Designated Agent

Date: July 30, 1984

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

JUN 21 1984

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

RECEIVED

JUN 2 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

Permit No. 001-2062 DEPT. OF MINES

OIL & GAS DIVISION
Oil or Gas Well (KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>J & J</u>	Size			
Address	16			Kind of Packer
Farm <u>Ammon -</u>	13			
Well No.	10			Size of
District _____ County <u>001</u>	8 1/4			
Drilling commenced	6 5/8			Depth set
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top
Volume _____ Cu. Ft.				Perf. bottom
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES	_____ FEET _____ INCHES	_____ FEET _____ INCHES	_____ FEET _____ INCHES

Drillers' Names S.W. JACK RIG #1

Remarks: 1. No. 01

6/18/84
DATE

RC Beall
DISTRICT WELL INSPECTOR

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

RECEIVED

JUN 21 1984

INSPECTOR'S WELL REPORT

Permit No. 001-2062

Oil or Gas Well
(KIND)
DEPT. OF MINES

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>CONTINENTAL Reserve</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>ELMER ANNION -</u>	13			
Well No. _____	10			Size of _____
District _____ County _____	8 1/4			
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names JACIE - Rig #11

Remarks:

Check to see how much fresh water Rig was carrying -

6/19/84
DATE

[Signature]
DISTRICT WELL INSPECTOR

6/20/84
DATE

[Signature]
DISTRICT WELL INSPECTOR

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

INSPECTOR'S WELL REPORT

Permit No. 001-2062

Oil or Gas Well _____
(KIND)

Company <u>Cont. Reserve</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>ANNON</u>	16			Kind of Packer _____
Well No. _____	13			
District _____ County <u>001</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

RECEIVED
OCT 9 1984
OIL & GAS DIVISION
DEPT. OF MINES

Drillers' Names _____

Remarks: Issued final - GRASS WEAR IN SPOTS, Road excellent

10/4/84
DATE

R.G. Pease
DISTRICT WELL INSPECTOR

AUG 30 1984

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 8/3, 1984

Applicant's Name: Continental Reserves Oil Co.

Address: P.O. Box 117
Bridgeport, WV 26330

Gas Purchaser Contract No. _____

Date of Contract _____
(Month, day and year)

First Purchaser: Columbia Gas

Address: P.O. Box 1273
(Street or P.O. Box)
Charleston WV 25325
(City) (State) (Zip Code)

FERC Seller Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: Thomas P. Sanders

Signature: *Thomas P. Sanders*
(Print) _____

Address: P.O. Box 117
(Street or P.O. Box)
Bridgeport, WV 26330
(City) (State) (Zip Code)

Telephone: 304 842-6236
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
 - 102-2 2.5 Mile Test
 - 102-3 1000 Foot Deeper Test
 - 102-4 New Onshore Reservoir

- 103 New Onshore Production Well
 - XXX 103 New Onshore Production Well

- 107 High Cost Natural Gas
 - 107-0 Deep (more than 15,000 feet)
 - 107-1 Geopressured Brine
 - 107-2 Coal Seams
 - 107-3 Devonian Shale
 - 107-5 Production enhancement
 - 107-6 New Tight Formation
 - 107-7 Recompletion Tight Formation

- 108 Stripper Well Natural Gas
 - 108- Stripper Well
 - 108-1 Seasonally Affected
 - 108-2 Enhanced Recovery
 - 108-3 Temporary Pressure Buildup

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

840807-103-001-2062

Use Above File Number on all
Communications Relating to This Well

Designated Agent: Thomas P. Sanders

Address: P.O. Box 117
Bridgeport, WV 26330

FERC Buyer Code _____

Manager Oil & Gas Production
(Title)

AGENCY USE ONLY

1500' Radius
001-2047
001-2041
001-2118 Qualifiers

APPROVED

SEP -4 1984

AUG 30 1984

Determination Date

RECEIVED

AUG -7 1984

OIL & GAS DIVISION
DEPT. OF MINES

Date Received

API well number: (If not available, leave blank. 14 digits.)	47-001-2062												
Type of determination being sought (Use the codes found on the front of this form.)	107 Section of NGPA												
Depth of the deepest completion location (Only needed if sections 103 or 107 in 2.0 above.)	5506 feet												
Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)	Continental Reserves, Inc. OIL & GAS DIV. Name P. O. Box 117 DEPT. OF MINES Street Bridgeport WV 26330 City State Zip Code												
Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.) (b) For OCS wells	Sugar Creek Field Name Barbour WV County State Area Name Block Number Date of Lease: Mo. Day Yr. OCS Lease number												
(c) Name and identification number of this well (35 letters and digits maximum.)	Annon #1												
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	_____												
(a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Name Buyer Code												
(b) Date of the contract	Mo. Day Yr.												
(c) Estimated annual production	_____ MMcf.												
Contract price: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> <tr> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	---	---	---	---	---	---	---	---
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)										
---	---	---	---										
---	---	---	---										
Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> <tr> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	---	---	---	---	---	---	---	---
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)										
---	---	---	---										
---	---	---	---										
Person responsible for this application	Name _____ Title _____ Signature <i>Thomas C. ...</i> December 18, 1984 (304) 842-6236 Date Application is Completed Phone Number												

RECEIVED

DEC 20 1984

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: Continental Reserves, Inc. Agent: Tom Sanders

Type Determination being sought - 107 (Devonian Shale)

API Well No. : 47-001-2062 Well Name: Annon #1

West Virginia office of Oil & Gas County: Barbour

References: SJA File No.

Vol. _____ Page _____ Line _____

I. Note: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 129 * API Units
2. Remarks: 0 - 200 Scale

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 129 * API Units
2. Calculation: $0.7 \text{ (GR Value at Base Line)}$
 $0.7 \text{ (} \underline{129} \text{ *)} = \underline{90}$ API Units

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From	To		
1604'	5512'	3908'	169'

Total Devonian Interval

3908'

Total Less than 0.7 (Shale Base)

169'

Percentage Less Than 0.7 (Shale Base Line) = $\frac{169}{3908} \times 100 = \underline{\underline{4.32}} \%$

* Marked on log included with analysis.

CALCULATION OF SHALE BASE LINE

Footage

API

0 - 200

1600 - 1700	105
1700 - 1800	130
1800 - 1900	125
1900 - 2000	120
2000 - 2100	120
2100 - 2200	125
2200 - 2300	120
2300 - 2400	140
2400 - 2500	135
2500 - 2600	140
2600 - 2700	140
2700 - 2800	135
2800 - 2900	140
2900 - 3000	145
3000 - 3100	140
3100 - 3200	135
3200 - 3300	125
3300 - 3400	120
3400 - 3500	130
3500 - 3600	125
3600 - 3700	120
3700 - 3800	130
3800 - 3900	140
3900 - 4000	135
4000 - 4100	130
4100 - 4200	120
4200 - 4300	125
4300 - 4400	140
4400 - 4500	120
4500 - 4600	125
4600 - 4700	125
4700 - 4800	130
4800 - 4900	125
4900 - 5000	125
5000 - 5100	125
5100 - 5200	130
5200 - 5300	130
5300 - 5400	135
5400 - 5500	135

5040 ÷ 39 = 129 Shale Base Line

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No. Annon #1

API Well No. 47 - 001 - 2062
State County Permit

WELL CLASSIFICATION FORM
HIGH COST GAS WELL - DEVONIAN SHALE
NGPA Section 107

DESIGNATED AGENT Thomas P. Sanders

ADDRESS P. O. Box 117
Bridgeport, W. Va. 26330

LOCATION Elevation 1723

WELL OPERATOR Continental Reserves Oil Co. Watershed Sugar Creek
ADDRESS P.O. Box 117 Dist. Glade County Barbour Quad. Nestorville
Bridgeport, W. Va. 26330

GAS PURCHASER Columbia Gas Transmission
ADDRESS P.O. Box 1273
Charleston, WV

Gas Purchase Contract No. _____

Meter Chart Code _____

Date of Contract _____

* * * * *
Date surface drilling began: June 18, 1984

Indicate the bottom hole pressure of the well and explain how this was calculated.

XGLS

$BHP = Pf = Pw e$

1525#

AFFIDAVIT

I, Thomas P. Sanders, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(1) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

Thomas P. Sanders

STATE OF West Virginia
COUNTY OF Harrison, TO-WIT:

Bette June Thompson, a Notary Public in and for the state and county aforesaid, do certify that Thomas P. Sanders whose name is signed to the writing above, has acknowledged the same before me, in the county aforesaid.

Given under my hand this 9th day of Oct, 1984.
My commission expires: March 5, 1984



Bette June Thompson

JAN 15 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 12/18, 19 84

Applicant's Name: Continental Reserves Oil Co.

Address: P. O. Box 117
Bridgeport, Wva 26330

Gas Purchaser Contract No. _____

Date of Contract _____
(Month, day and year)

First Purchaser: Columbia Gas Transmission Corp.

Address: P.O. Box 1273
(Street or P.O. Box)
Charleston, WV 25325
(City) (State) (Zip Code)

FERC Seller Code _____

AGENCY USE ONLY *Dew*
WELL DETERMINATION FILE NUMBER
841220-107-001-2062
Use Above File Number on all
Communications Relating to This Well

Designated Agent: Thomas P. Sanders
Address: P. O. Box 117
Bridgeport, WV 26330

FERC Buyer Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: Thomas P. Sanders
(Print) _____ (Title) _____

Signature: *Thomas P. Sanders*

Address: P. O. Box 117
(Street or P.O. Box)
Bridgeport, WV 26330

Telephone: (City) (State) (Zip Code)
304) 842-6236
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
- 102-2 2.5 Mile Test
 - 102-3 1000 Foot Deeper Test
 - 102-4 New Onshore Reservoir
- 103 New Onshore Production Well
- 103 New Onshore Production Well
- 107 High Cost Natural Gas
- 107-0 Deep (more than 15,000 feet)
 - 107-1 Geopressured Brine
 - 107-2 Coal Seams
 - 107-3 Devonian Shale
 - 107-5 Production enhancement
 - 107-6 New Tight Formation
 - 107-7 Recompletion Tight Formation

- 108 Stripper Well Natural Gas
- 108- Stripper Well
 - 108-1 Seasonally Affected
 - 108-2 Enhanced Recovery
 - 108-3 Temporary Pressure Buildup

AGENCY USE ONLY
Q
QUALIFIED

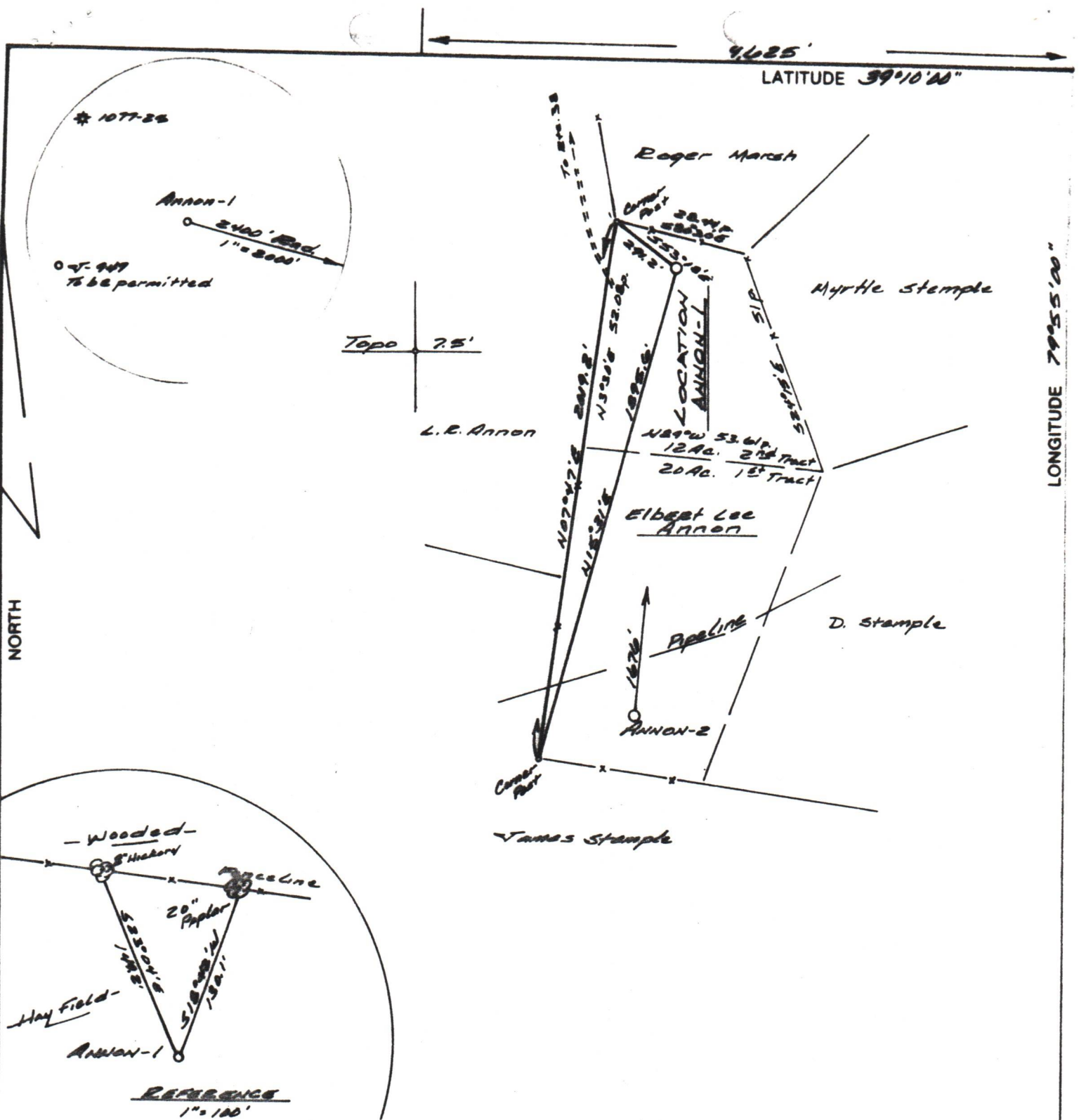
RECEIVED

DEC 20 1984

OIL & GAS DIV.
DEPT OF MINES

Date Received

Determination Date



9,625' LATITUDE 39°10'00"

LONGITUDE 79°55'00"

NORTH

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 678.01
 DRAWING NO. 34-1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION BM-1643
at Top.

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) Byford L. Ostrowski
 R.P.E. Buckhannon, WV 26201 L.L.S. 555

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE 28 April, 19 84
 OPERATOR'S WELL NO. ANNON-1
 API WELL NO. 47-001-2062
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1728' WATERSHED Sugar Creek
 DISTRICT Glade COUNTY Barbour
 QUADRANGLE Hasterville

SURFACE OWNER Elbert C. Annon et al ACREAGE 12
 OIL & GAS ROYALTY OWNER Elbert C. Annon et al LEASE ACREAGE 32
 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 Haverly ESTIMATED DEPTH 5400'
 WELL OPERATOR CONTINENTAL RESERVES OIL Co. DESIGNATED AGENT Thomas P. Sanders
 ADDRESS P.O. Box 117 ADDRESS P.O. Box 117
Bridgeport, WV 26330 Bridgeport, WV 26330

COUNTY NAME
 PERMIT

FORM IV-3 (6-78)

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

Date August 3, 1984
Operator's Well No. #1
API Well No. 47 State 001 County 2062 Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA SECTION 103

DESIGNATED AGENT Thomas P. Sanders
ADDRESS P.O. Box 117, Bridgeport, WV 26330

WELL OPERATOR Continental Reserves Oil Co LOCATION: Elevation 1723'
ADDRESS P.O. Box 117 Watershed Sugar Creek
Bridgeport, WV 26330 Dist. Glade County Barbour Quad. Nestorville
GAS PURCHASER Columbia Gas Gas Purchase Contract No. _____
ADDRESS P.O. Box 1273 Meter Chart Code _____
Charleston, WV 25325 Date of Contract _____

* * * * *

Date surface drilling was begun: June 18, 1984

Indicate the bottom hole pressure of the well and explain how this was calculated:
Ps - Pl = Pl (e GL/52.34T - 1) Given:
Ps - Pl = Pl (1.2102 - 1) Pl = 1450# PSI
Ps - Pl = 1450 (0.2102) L = 5,500'
Ps - Pl = 304.79 T = 100° F
BHP = 1754.79

AFFIDAVIT

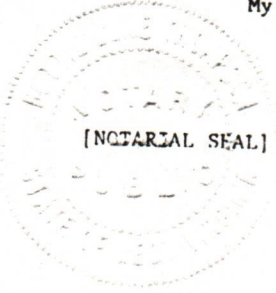
I, Thomas P. Sanders, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

Thomas P. Sanders

STATE OF WEST VIRGINIA,

COUNTY OF Harrison, TO WIT:

I, Bettie June Thompson, a Notary Public in and for the state and county aforesaid, do certify that Thomas P. Sanders, whose name is signed to the writing above, bearing date the 3rd day of August, 1984, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 3rd day of August, 1984. My term of office expires on the 5th day of March, 1984.



Bettie June Thompson
Notary Public