



1) Date: May 8, 19 84
 2) Operator's Well No. #2 Mouser
 3) API Well No. 47 - 001 - 2074
 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: 1550' Watershed: Glade Run MT-21
 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 Address 402 Orchard Street
Bridgeport, WV 26330 Bridgeport, WV 26330
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Stewart Phillip Tracy Name S.W. Jack Drilling Company
 Address P.O. Box 345 PO Box 2536 Address P.O. Box 48
Jane Lew, WV 26378 Elkins, WV 26241 Buckhannon, WV 26201
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____

RECEIVED
 MAY 15 1984
 OIL & GAS DIVISION
 DEPT. OF MINES
 No.

- 11) GEOLOGICAL TARGET FORMATION, Haverty
 12) Estimated depth of completed well, 5350 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

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						870'	870'		Sizes
Intermediate	8 5/8	J-55	23	X		1,000'	1,000'	to surface	NEAT
Production	4 1/2	K-55	10.5	X		5,400'	5,400'	600 feet	Depths as req. by rule 15.01
Tubing	1 1/2	J-55	2.75	X			5,200'		Perforations:
Liners									Top 4,000' Bottom 5,300'

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-001-2074

June 6, 19 84
 Date

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 June 6, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing	Fee
<u>Blank</u>	<u>LD</u>	<u>MM</u>	<u>MM</u>	<u>115</u>

[Signature]
 Administrator, Office of Oil and Gas

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File



OFFICE USE ONLY

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

10) PROPOSED WELL WORK: Drill X, deeper, Potable new formation, Other physical change in well (specify):

11) GEOLOGICAL TARGET FORMATION: Estimated depth of completed well: 5350 feet, Approximate true depth: 5000 feet, Approximate coal seam depths: 501-507 feet, Is coal being mined in the area? Yes

12) Estimated depth of completed well: 5350 feet

13) Approximate true depth: 5000 feet

14) Approximate coal seam depths: 501-507 feet

15) CARING AND TUBING PROGRAM

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MAY 1 5 1984

DEPT. OF MINES
OIL & GAS DIVISION

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		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason:

Reason:

Port	Agent	Plat	Cause	Type

SURFACE OWNER'S COPY



1) Date: May 8, 19 84
 2) Operator's Well No. #2 Mouser
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 State County Permit

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

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 B (If "Gas", Production X / Underground storage / Deep / Shallow)
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 District: Glade County: Barbour Quadrangle: Nestorville
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 Address P.O. Box 117 Address 402 Orchard Street
Bridgeport, WV 26330 Bridgeport, WV 26330
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 Name Robert Stewart Name S.W. Jack Drilling Company
 Address P.O. Box 345 Address P.O. Box 49
Jane Lew, WV 26378 Buckhannon, WV 26201
 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)

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 MAY 15 1984
 OIL & GAS DIVISION
 DEPT. OF MINES
 PACKERS

11) GEOLOGICAL TARGET FORMATION, Haverty
 12) Estimated depth of completed well, 5350 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

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>1 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									
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>	Depths set
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>500 feet</u>	
Tubing	<u>1 1/2</u>	<u>J-55</u>	<u>2.75</u>	<u>X</u>			<u>5,200'</u>		Perforations:
Liners									Top <u>4,000'</u> Bottom <u>5,300'</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.)
 NAME:
 By
 Its Date

(For execution by natural persons)
Richard A. H. H. E. Laew Spence Date: 5/11/84
 (Signature)
Steven B. Mouser Date: 5/11/84
 (Signature)
John M. Mouser Date: 5/11/84
Jack Mouser Date: 5/11/84
Violet B. Mouser Date: 5/11/84
 Surface Owner

**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.

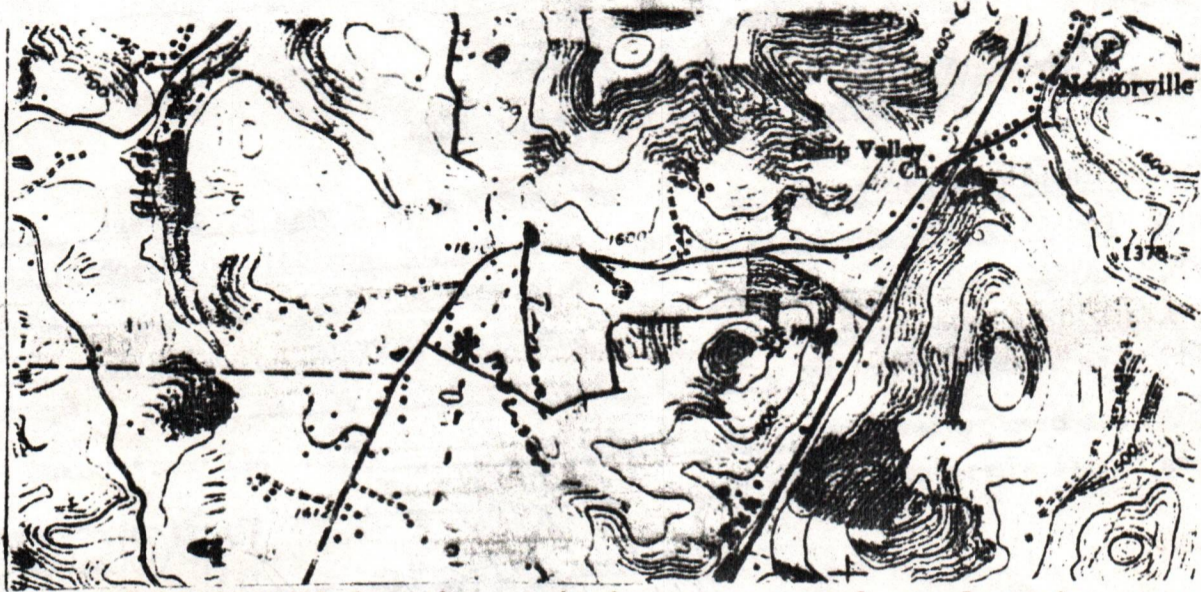
List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Nestorville 7.5 minute

LEGEND

Well Site ⊕

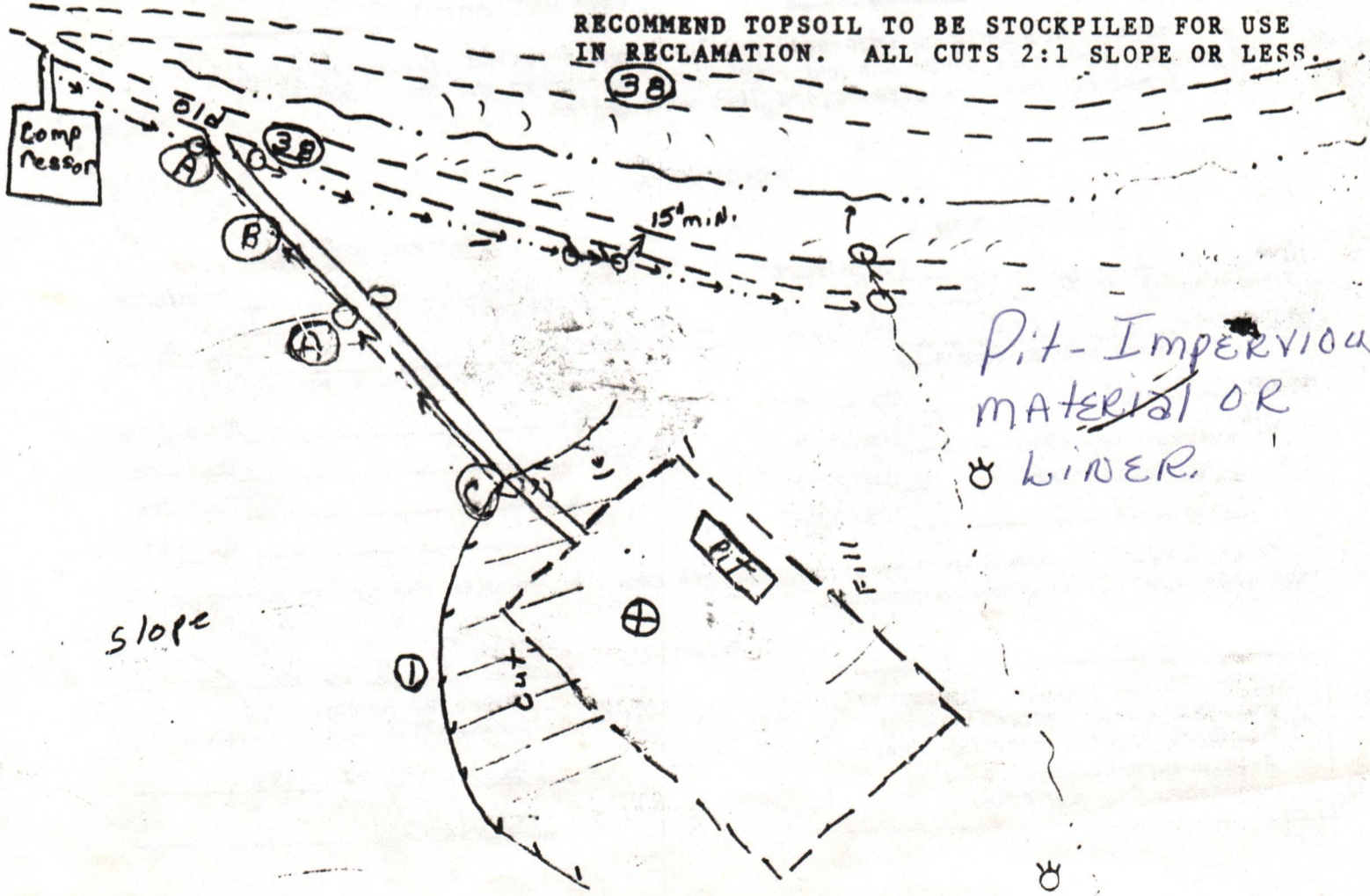
Access Road ———



Sketch to include well location, existing access road, roads to be constructed, wellsite drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

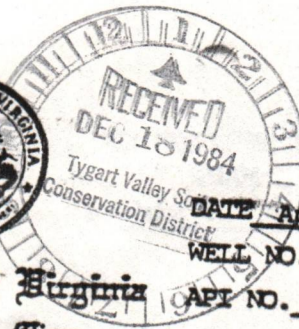
Property boundary ————	Diversion ————
Road = = = = =	Spring ○→
Existing fence —x—x—	Wet spot ♀
Planned fence —/—/—	Building ■
Stream ~~~~~	Drain pipe —○→○→
Open ditch ———→	Waterway ⇐≡≡≡



RECOMMEND TOPSOIL TO BE STOCKPILED FOR USE IN RECLAMATION. ALL CUTS 2:1 SLOPE OR LESS.

* Location is on relative flat terrain and in a pasture so no timber will be cut

IV-9
(Rev 8-81)



State of West Virginia
Department of Mines
Oil and Gas Division

DATE April 24, 1984
WELL NO. #2 Mouser *REVISED*
API NO. 47 - 001 - 2074

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Continental Reserves Oil Co. DESIGNATED AGENT Thomas P. Sanders
Address P.O. Box 117, Bridgeport, WV 26330 Address P.O. Box 117, Bridgeport, WV 26330
Telephone 304 842-6236 Telephone 304 842-6236
LANDOWNER W. Harold Mouser Heirs SOIL CONS. DISTRICT Tygart Valley
Revegetation to be carried out by Dave Miller (Agent)

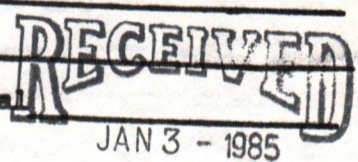
This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan: 4/29/84 (Date)

Jean Heenan
12-18-84
RECEIVED
MAY 15 1984
OIL & GAS DIVISION
DEPT. OF MINE

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

(A) Structure Diversion Ditch
Material Natural Soil
Page Ref. Manual Sec. 5.0 Page 2-12
(B) Structure _____ (2)
Material _____
Page Ref. Manual _____
(C) Structure _____ (3)
Material DEPT. OF MINES
Page Ref. Manual _____



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

Line 2-3 Tons/acre
or correct to pH 6.5
Fertilizer 500 600 lbs/acre
(10-20-20 or equivalent)
Mulch 1.5 - 2.5 Tons/acre
Seed* Orchard Grass 12 lbs/acre
Birdsfoot Trefoil 10 lbs/acre
Ky. 31 20 lbs/acre

Treatment Area II

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

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

PLAN PREPARED BY Thomas P. Sanders
ADDRESS Thomas P. Sanders
P.O. Box 117
Bridgeport, WV 26330
PHONE NO. 304 842-6236

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

1) Date: May 8, 19 84
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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 Lola & Richard Spotloe
Address 220 Maple Street
Philippi, WV 26416
 - (ii) Name Jack & Violet Mouser
Address Rt. 2
Philippi, WV 26416
 - (iii) Name Steve Mouser
Address Rt. 2
Philippi, WV 26416
 - (iv) Name John Mouser
Address Meadow Heights
Philippi, WV 26416

- 5(i) COAL OPERATOR N/A
Address _____
- 5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Grafton Coal Company
Address P.O. Box 2150
Clarksburg, WV 26301
Name _____
Address _____
- 5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
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.

RECEIVED
MAY 15 1984

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 specifications.)

OIL & GAS DIVISION
DEPT. OF MINES

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. Saunders
this 8th day of May, 19 84.
My commission expires 3/5, 19 94.
Notary Public, _____ County, State of West Virginia

WELL OPERATOR Continental Reserves Oil Company
By Thomas P. Saunders
Its Designated Agent
Address P.O. Box 117
Bridgeport, WV 26330
Telephone 304 842-6236

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	Marie Mouser, Erma Mouser, Jack Mouser, Violet Mouser, Steven Mouser & John Mark Mouser	Beckler Energy, Inc.	1/8	83	417
Lease	Lola Spotloe, Lola Spotloe committee for Erma Mouser & Richard Spotloe	Beckler Energy, Inc.	1/8	86	468
Assignment	Beckler Energy, Inc.	Mert Development, Inc.		86	577
Assignment	Mert Development, Inc.	Continental Reserves		98	282



1) Date: May 8, 19 84
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 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 X /)
- 5) LOCATION: Elevation: 1550' Watershed: Glade Run MT-21
 District: Glade County: Barbour Quadrangle: Nestorville
- 6) WELL OPERATOR Continental Reserves Oil Co. 7) DESIGNATED AGENT Thomas P. Sanders
 Address P.O. Box 117 of W.Va., Inc. Address 402 Orchard Street
Bridgeport, WV 26330 Bridgeport, WV 26330
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Jane Lew, WV 26378 Buckhannon, WV 26201
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 Other physical change in well (specify)
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15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
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Coal									
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Production	4 1/2	K-55	10.5	X		5,400'	5,400'	600 feet	Depths set <u>15' to 15.01'</u>
Tubing	1 1/2	J-55	2.75	X			5,200'		Perforations:
Liners									Top <u>4,000'</u> Bottom <u>5,300'</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

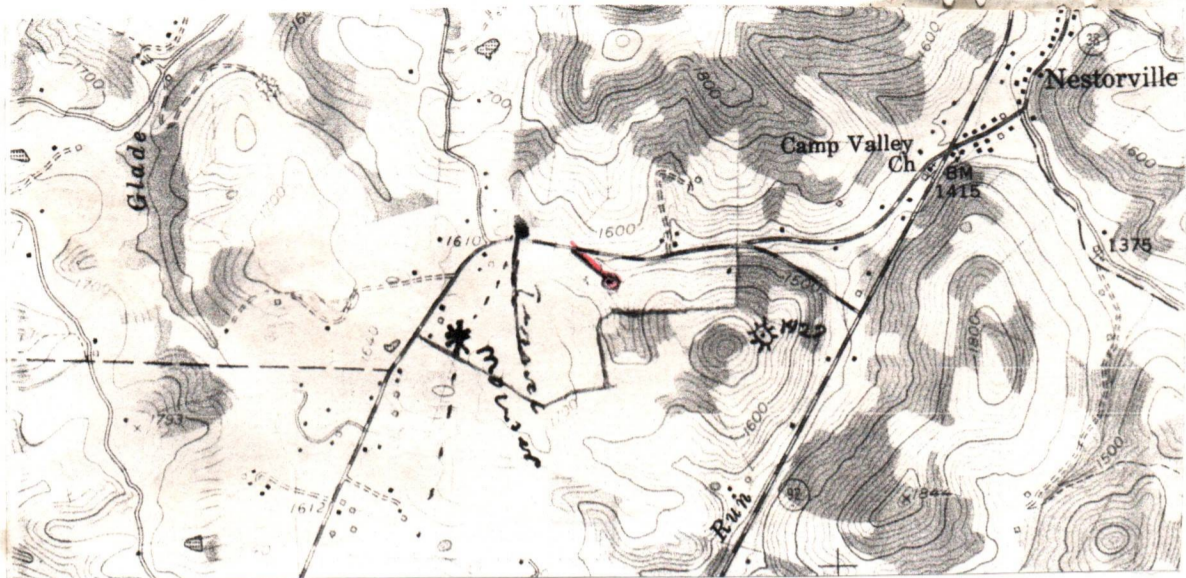
Coal Owner

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Nestorville 7.5 minute

LEGEND













Well Site 

Access Road 

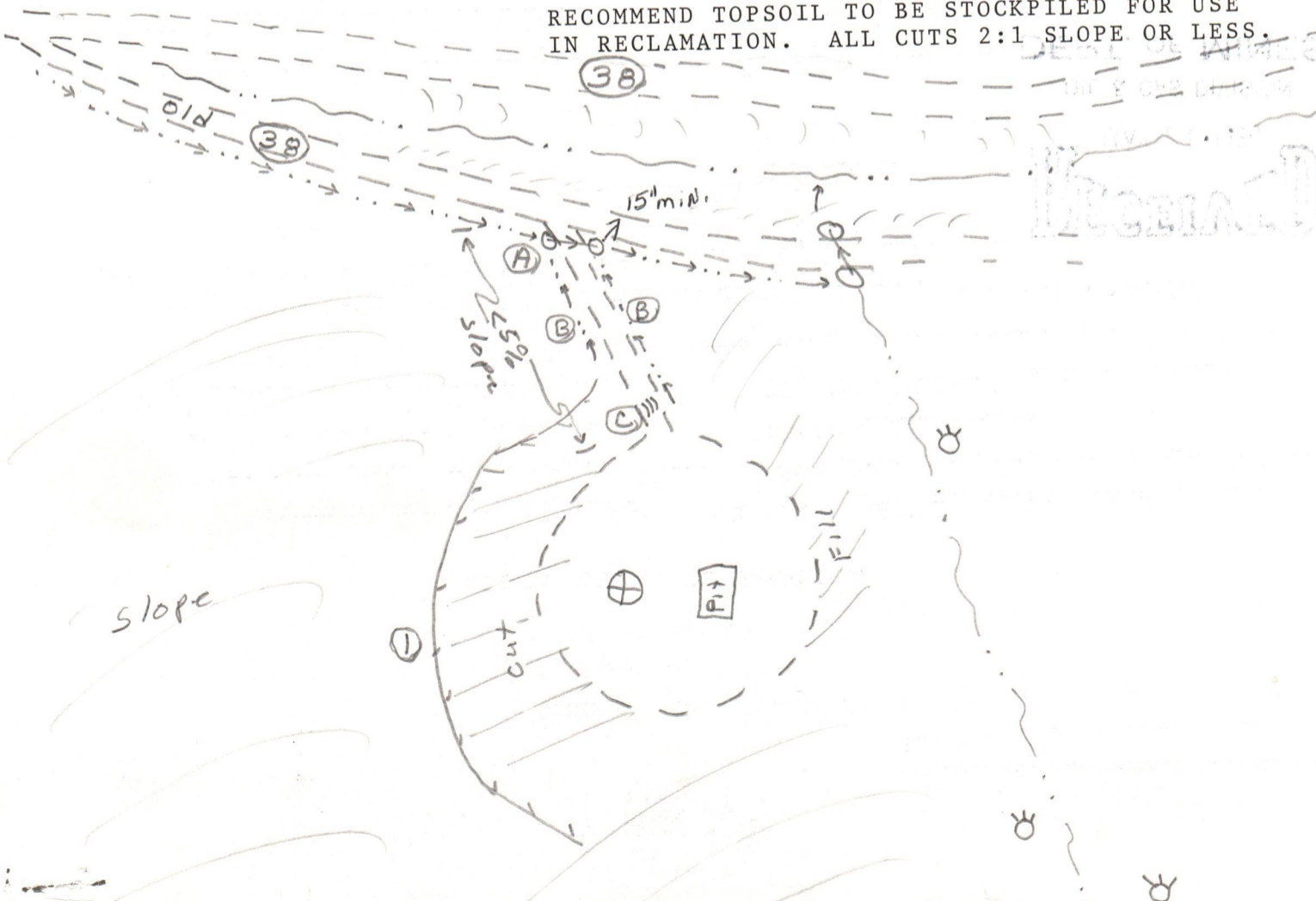


Sketch to include well location, existing access road, roads to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 

RECOMMEND TOPSOIL TO BE STOCKPILED FOR USE IN RECLAMATION. ALL CUTS 2:1 SLOPE OR LESS.



⊕ Location is on relative flat terrain and in a pasture so no timber will be cut.



DATE April 24, 1984
WELL NO. #2 Mouser
API NO. 47 - 001 - 2074

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Continental Reserves Oil Co.

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

Telephone 304 842-6236

LANDOWNER W. Harold Mouser Heirs

Revegetation to be carried out by

Dave Miller

(Agent)

SOIL CONS. DISTRICT Tygart Valley

Telephone 304 842-6236

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

DESIGNATED AGENT Thomas P. Sanders

and additions become a part of this plan:

4/29/84

(Date)

(SCD Agent)

RECEIVED
MAY 15 1984

OIL & GAS DIVISION

DEPT. OF MINES

Structure Road Culvert

Spacing 1 each at entrance

Page Ref. Manual Sec. 4.0 Page 2-7

(A)

Structure Drainage Ditch

Spacing along access road

Page Ref. Manual Sec. 6.0 Page 2-12

(B)

Structure Cross Drain

Spacing 1 each

Page Ref. Manual Sec. 2.0 Page 2-1

(C)

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

Lime 2-3 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

Birdfoot Trefoil 10 lbs/acre

ky 31 20 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 lbs/acre (10-20-20 or equivalent)

Mulch Tons/acre

Seed* lbs/acre

lbs/acre



January 2, 1985

West Virginia Department of Mines
Division of Oil and Gas
1615 Washington Street, East
Charleston, WV 25311

RECEIVED

JAN 3 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

Re: Mouser Well #2
47-001-2074

Dear Staff:

Attached hereto is a revised copy of our Construction and Reclamation Plan for the above captioned well.

Please note this revised copy has been approved by the Tygarts Valley Soil Conservation District and the surface owner.

Should you have any questions or need additional information, please feel free to contact our offices.

Thanks.

*Steve
Have send copies*

Sincerely,

CONTINENTAL RESERVES OIL COMPANY

Thomas P. Sanders
bt

Thomas P. Sanders
Manager Oil and Gas Production

TPS/bt

CC: Don Ellis
2604 Crab Apple Lane
Fairmont, WV 26554

Sam Perris
Department of Natural Resources
1304 Goose Run Road
Fairmont, WV 26554

Please file

The attached Construction and Reclamation Plan, has been revised and approved by the surface owners this 20 day of December, 1984.

Laura Spotted
Adminstrator of Bessie M. Mouser
Estate

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JAN 3 - 1985
OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED
JAN 3 1982
DEPT. OF MINES
OFFICE OF THE DIRECTOR

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

HOWCO four stage foam frac on 01/15 & 01/16/85. Totals - 1,600 sacks of 20/40 sand and 1,945,000 SCF nitrogen.

Stage I - Haverty

Perforate 5,106-5,148' with 16 holes. Frac with 300 sacks of 20/40 sand, 520 MCSF nitrogen, 60% quality foam, BD 2,700#, ATP 3,900 psi at 23 BPM down hole foam, ISICP 3,270#.

Stage II - III & IV Elks

Perforate 4,571-4,798' with 18 holes. Frac with 400 sacks of 20/40 sand, 555 MSCF nitrogen, 75% quality foam, BD 3,900#, ATP 3,800 psi at 25.7 BPM down hole foam, ISICP 2,750#.

SEE ATTACHED SHEET FOR CONTINUATION OF FOAM FRAC.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Fill			0	13	Water
Sand			13	50	1" stream of water @ 60'
Sand & Shale			50	160	
Shale			160	171	
Sand & Shale			171	225	
W. Sand			225	275	
Shale			275	280	
Shale and Sand			280	295	1 1/2" stream of water @ 291'
Coal			295	300	
Sand			300	350	
Coal			350	355	
Sand			355	564	
Dark Shale			564	658	
Sand			658	795	
Red Rock			795	845	
Sand			845	857	
Red Rock & Shale			857	900	
Sand			900	979	
Red Rock			979	1,011	
Sand & Shale			1,011	1,060	
Sand			1,060	1,107	
Sand & Lime			1,107	1,115	
Sand & Shale			1,115	1,145	
Lime			1,145	1,157	
Shale & Red Rock			1,157	1,189	
Lime			1,189	1,198	
Red Rock			1,198	1,203	
Big Lime & Injun			1,203	1,417	
Sand			1,417	1,435	
Shale			1,435	1,580	Hole wet @ 1,580-3" stream of water
Sand			1,580	1,690	Squeeze @ 1,680'
Shale & Sand			1,690	1,790	2" Stream @ 1,687 carried to T.D.
Red Rock & Shale			1,790	1,825	
Shale & Sand			1,825	1,840	
Red Rock & Shale			1,840	1,980	
Shale			1,980	2,225	
Sand			2,225	2,417	
Sand & Shale			2,417	2,460	

See Attached Sheet

(Attach separate sheets as necessary)

Continental Reserves Oil Company

Well Operator

By: 

Date: February 5, 1985

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."



IV-35
(Rev 8-81)

Date February 5, 1985
Operator's
Well No. #2
Farm Mouser
API No. 47 - 001 - 2074

RECEIVED
FEB 7 - 1985
OIL & GAS DIVISION
DEPT. OF MINES

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: 1,550' Watershed Glade Run
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 402 Orchard St., Bridgeport, WV 26330
SURFACE OWNER W. Harold Mouser Hrs.
ADDRESS Philippi, WV 26416
MINERAL RIGHTS OWNER W. Harold Mouser Hrs.
ADDRESS Philippi, WV 26416
OIL AND GAS INSPECTOR FOR THIS WORK Donald
Ellis ADDRESS 2604 Crab Apple Lane
Fairmont, WV 26554
PERMIT ISSUED June 6, 1984
DRILLING COMMENCED December 20, 1984
DRILLING COMPLETED January 6, 1985
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.	15'	None	N/A
13-10"			
9 5/8			
8 5/8	1240.10	1240.10	325 sks
7			
5 1/2			
4 1/2	5288.11	5288.11	500 sks
3			
2 1 1/2	4536.00	4536.00	
Liners used			

GEOLOGICAL TARGET FORMATION Haverty/Elks Depth 5,386 feet
Depth of completed well 5,386 feet Rotary X / Cable Tools
Water strata depth: Fresh 1580 feet; Salt 1800 feet
Coal seam depths: 295-300' & 350-355' Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Commingle
Haverty, Elks, Benson & Riley Pay zone depth 3,689-5,148 feet
Gas: Initial open flow N.E.T.G. Mcf/d Oil: Initial open flow N/A Bbl/d
Final open flow 407 Mcf/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 1450 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation Commingle with above 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

BAR 2074

3

Page 3

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

Stage III - I & II Elks

Perforate 4,107-4,411' with 18 holes. Frac with 400 sacks of 20/40 sand, 445 MSCF nitrogen, 75% quality foam, BD 2,500#, ATP 3,400 psi at 28 BPM down hole foam, ISICP 2,700#.

Stage IV - Benson & Riley

Perforate 3,689-3,926' with 12 holes. Frac with 500 sacks of 20/40 sand, 425 MSCF nitrogen, 75% quality foam, BD 3,200#, ATP 3,300 psi at 28 BPM down hole foam, ISICP 2,250#.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand			2,460	2,492	
Sand & Shale			2,492	2,557	
Red Rock & Shale			2,557	2,590	<u>ELECTRIC LOG TOPS</u>
Sand & Shale			2,590	2,890	
Red Rock & Shale			2,890	2,970	Big Lime 1300-1403
Sand & Shale			2,970	3,275	Big Injun 1403-1438
Sand			3,275	3,335	Weir 1552-1594
Shale			3,335	3,380	Devonian: 2152-5338
Sand & Shale			3,380	3,685	Gantz A 2152-2214
Shale			3,685	3,740	Fourth Sand 2256-2320
Sand			3,740	3,810	Bayard 2462-2485
Light Brown Sand			3,810	3,820	Balltown 2814-2876
Sand			3,820	3,890	Riley 3742-3772
Light Brown Sand			3,890	3,910	Benson 3898-3924
Sand			3,910	4,100	I Elk 4102-4172
Brown Sand			4,100	4,110	II Elk 4300-4412
Sand			4,110	4,303	III Elk 4546-4618
Sand & Shale			4,303	4,750	IV Elk 4714-4804
Brown Shale			4,750	4,770	Haverty 5102-5160
Shale			4,770	4,990	
Light Brown Shale			4,990	5,008	Log Total Depth 5338
Sand & Shale			5,008	5,120	Driller T.D. 5386
Brown Sand			5,120	5,160	
Shale			5,160	5,210	
Brown Sand			5,210	5,230	
Shale			5,230	5,386	

BAR 2074

(Attach separate sheets as necessary)

Continental Reserves Oil Company

Well Operator

By:



Date: February 5, 1985

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."



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date _____
Operator's Well No. _____
Farm _____
API No. _____

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

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

LOCATION: Elevation: _____ Watershed _____
District: _____ County _____ Quadrangle _____

COMPANY _____

ADDRESS _____

DESIGNATED AGENT _____

ADDRESS _____

SURFACE OWNER _____

ADDRESS _____

MINERAL RIGHTS OWNER _____

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK _____

ADDRESS _____

PERMIT ISSUED _____

DRILLING COMMENCED _____

DRILLING COMPLETED _____

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

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

GEOLOGICAL TARGET FORMATION _____ Depth _____ feet

Depth of completed well _____ feet Rotary _____ / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt _____ feet

Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation _____ Pay zone depth _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d 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

(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)

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

RECEIVED

JAN 3 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No 061-2074

Oil or Gas Well _____
(KIND)

Company CONTINENTAL RESERVE
 Address BRIDGEPORT W.V.
 Farm MOUSER.
 Well No. 2
 District GLADE County BARBOUR
 Drilling commenced 12-18-84
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names S.M. Jack #1

Remarks: DRUG DUST 1445'

12-27-84
DATE

[Signature]
DISTRICT WELL INSPECTOR

Form 26
2/16/82

RECEIVED
JAN 3 - 1982
OIL AND GAS DIVISION
DEPT. OF MINES

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location			Amount			Packer			Location					
PLUGS USED AND DEPTH PLACED						BRIDGES			CASING AND TUBING								
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST									

Drillers' Names _____

Remarks: _____

DATE _____ I hereby certify I visited the above well on this date.

[Handwritten signature]

DISTRICT WELL INSPECTOR

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

RECEIVED
JAN 3 - 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 001-2074

Oil or Gas Well _____
(KIND)

Company <u>CONTINENTAL RES</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address <u>BRIDGEPORT W.V.</u>	Size		
Farm <u>NOVSEK</u>	16			
Well No. <u>2</u>	13			Size of _____
District <u>GLADE</u> County <u>BARBOUR</u>	10			
Drilling commenced <u>12-18-84</u>	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6%			
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.				
Oil _____ bbls., 1st 24 hrs.				
Fresh water _____ feet _____ feet				
Salt water _____ feet _____ feet				

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names SW Jack #1

Remarks:
1664 ft Fresh water. SQUEEZE WATER OFF 1580' 3" stream water. SQUEEZED + CEMENTED 4 1/2 D.P. IN HOLE.

12-28-84
DATE

[Signature]
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

I hereby certify I visited the above well on this date.

DATE

DISTRICT WELL INSPECTOR

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

RECEIVED
JAN 7 - 1985
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2074

Oil or Gas Well _____
(KIND)

Company CONTINENTAL RESERVE
 Address BRIDGEPORT W. V.
 Farm MOUSER
 Well No. 2
 District GLADE County BARBOUR
 Drilling commenced 12-18-84
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			Kind of Packer _____
16			
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names S. W. Jacobs #1

Remarks: DRLG 2795 WAT

1-3-85
DATE

Douglas R. Ellis
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner _____ Location _____ Amount _____ Packer _____ Location _____

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

_____ DATE I hereby certify I visited the above well on this date.

DISTRICT WELL INSPECTOR

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

RECEIVED
NOV 17 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2074

Oil or Gas Well
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>CONTINENTAL RES.</u>	Size			
Address <u>BRIDGEPORT W.V.</u>	16			Kind of Packer
Farm <u>MOUSER</u>	13			
Well No. <u>2</u>	10			Size of
District <u>GLADE</u> County <u>BARBORA</u>	8 1/4			
Drilling commenced <u>12-18-84</u>	6%			Depth set
Drilling completed <u>1-5-85</u> Total depth <u>5386</u>	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 #1

Remarks:

1-7-85
DATE

[Signature]
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location	Amount	Packer	Location	
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST
				BARBON		18-18 84	
				282		18-22	

Drillers' Names _____

Remarks: _____

DATE _____ I hereby certify I visited the above well on this date.



DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OFFICE OF OIL AND GAS
CHARLESTON 25302
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

RECEIVED
JUL 30 1985

Company: CONTINENTAL RESERVES
Farm: W HAROLD HOUSER, HEIRE Well: HOUSER #2

Permit No. 47-1-2074
County: BARBOUR

6-06-84
1-2074

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	C	
25.04	Prepared before drilling to prevent waste	C	
25.03	High pressure drilling	C	
14.01	Required permits at wellsite	C	
15.03	Adequate Fresh Water Casing	C	
15.02	Adequate Casing Casing	C	
15.01	Adequate Production Casing	C	
15.04	Adequate Cement Strength	C	
15.05	Cement Type	C	
23.02	Maintained Access Roads	C	
25.01	Necessary Equipment to Prevent Waste	C	
23.04	Reclaimed Drilling Bits	C	
23.05	No Surface or Underground Pollution	C	
23.07	Requirements for Production & Gathering Pipelines	C	
7.01	Well Records on Site	C	
7.02	Well Records Filed	C	
7.05	Identification Markings	C	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED

SIGN: *Paul R. Belli*
DATE: 7-23-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2: the above well will remain under bond coverage for the life of the well.

T. H. ...
Administrator

August 6, 1985

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

RECEIVED

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 - 001 - 2074			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107	Dev		
	Section of NGPA	Category Code	FEB 11 1985	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5106' feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Continental Reserves Oil Co.			
	Name	P.O. Box 117		Seller Code
	Street	Bridgeport WV 26330		
	City	State	Zip Code	
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Glade District			
	Field Name	Barbour WV		
	County	State		
(b) For OCS wells:	Area Name	Block Number		
	Date of Lease: Mo. Day Yr.			
(c) Name and identification number of this well: (35 letters and digits maximum.)	Mouser #2			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Tennessee Gas Pipeline			
	Name	Buyer Code		
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated total annual production from the well:	Million Cubic Feet			
	(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-)]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMETU	-----	-----	-----
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/A:MBTU	-----	-----	-----
9.C Person responsible for this application:	Thomas P. Sanders			
Agency Use Only	Name	Production Mgr.		Title
Date Received by Juris. Agency	<i>Thomas P. Sanders</i>		Signature	
FEB 11 1985	2/8/85		(304) 842-6236	
Date Received by FERC	Date Application is Completed		Phone Number	

FEB 28 1985

FORM IV-48WC
(02-84)

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 2/8/85, 19

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: Tennessee Gas Pipeline

Address: 5500 Corporate Drive
(Street or P.O. Box)
Pittsburgh, PA 15237
(City) (State) (Zip Code)

FERC Seller Code

AGENCY USE ONLY *Dev.*

WELL DETERMINATION FILE NUMBER

850211-107-001-2074

Use Above File Number on all
Communications Relating to This Well

Designated Agent: Tom Sanders

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

FERC Buyer Code

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

Name: Thomas P. Sanders Production.Mgr.
(Print) (Title)

Signature: *Thomas P. Sanders*

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

Telephone:
(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
- xxx 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

Rejected - 3/11/85

Disqualifying Sands = 7.69%

RECEIVED

FEB 11 1985

OIL & GAS DIV.
DEPT. OF MINES

FEB 11 1985

Date Received

FEB 28 1985

Determination Date

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No. Mouser #2

API Well No.

47 - 001 - 2074 State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107

DESIGNATED AGENT Tom Sanders

ADDRESS P.O. Box 117 Bridgeport, WV 26330

LOCATION Elevation 1550' Watershed Glade Run

Dist. Glade County Barbour Quad. Nestorville

Gas Purchase Contract No.

Meter Chart Code

Date of Contract

WELL OPERATOR Continental Reserves Oil Co.

ADDRESS P.O. Box 117 Bridgeport, WV 26330

GAS PURCHASER Tennessee Gas Pipeline

ADDRESS 5500 Corporate Drive Pittsburgh, PA 15237

Date surface drilling began: 6/6/84

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

BHP = Pf where Pf = Pw e XLGS 1520#

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 (Signature)

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

I, Betie 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, 1994



Betie June Thompson (Signature)

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS

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

Operator: Continental Reserves Agent: Tom Sanders

Type Determination being sought - 107 (Devonian Shale)

API Well No. : 47-001-2074 Well Name: Mouser # 2

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 = 117 * API Units
2. Remarks:

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

1. GR Value = 117 * API Units
2. Calculation: $0.7 \text{ (GR Value at Base Line)}$
 $0.7 \text{ (} \underline{117} \text{ *)} = \underline{82}$ 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		
<u>2152</u>	<u>5338</u>	<u>3186</u>	<u>245</u>

Total Devonian Interval 3186

Total Less than 0.7 (Shale Base) 245

Percentage Less Than 0.7 (Shale Base Line) = $\frac{245}{3186} \times 100 = \underline{\underline{7.69}}\%$


* Marked on log included with analysis.

P 405 254 397

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Balfour Coal Co.	
Street and No. P.O. Box 2156	
P.O., State and ZIP Code Clarksburg, WVa 26301	
Postage	\$ 20
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Delivery	60
TOTAL Postage and Fees	\$ 1.51
Postmark 	

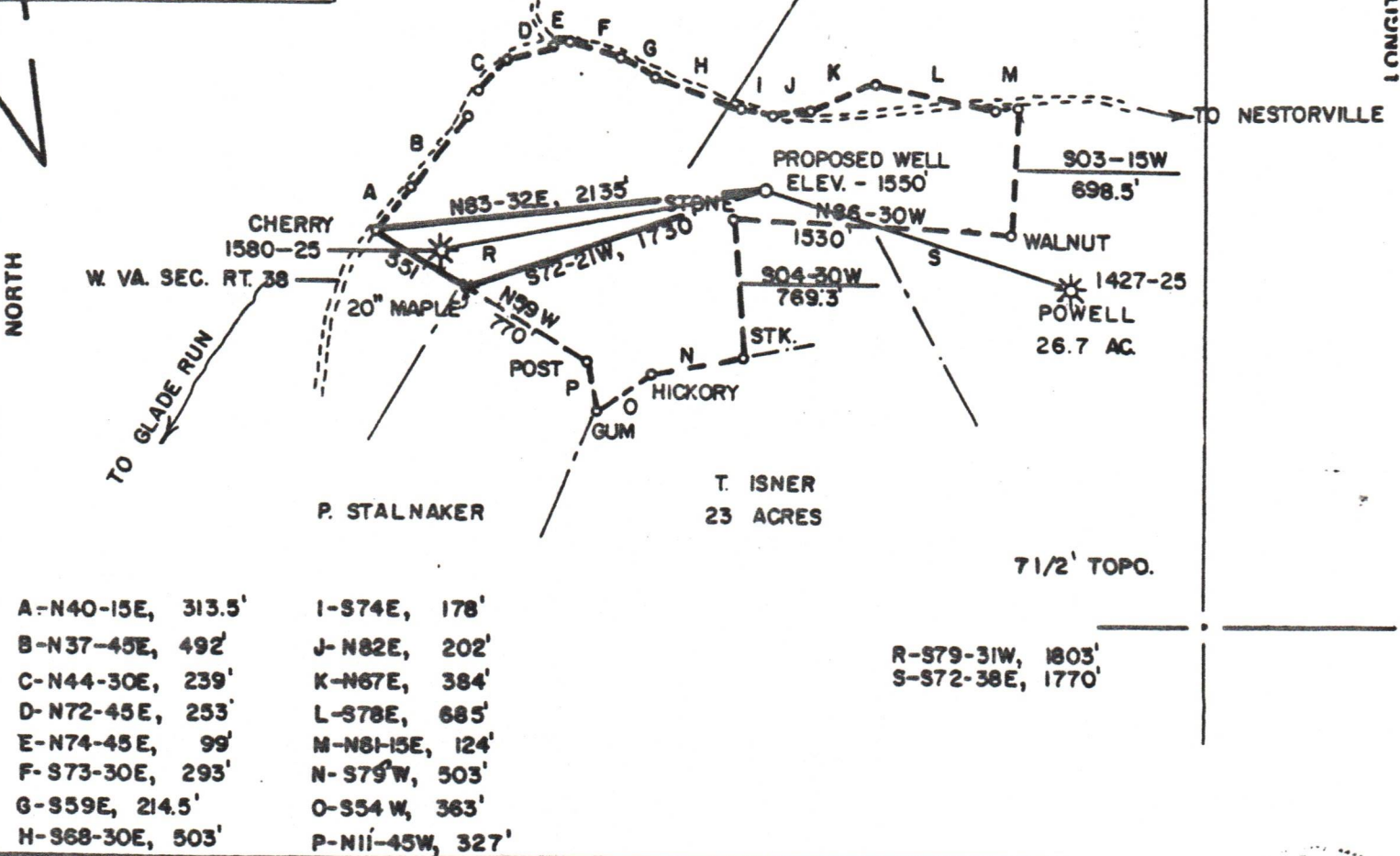
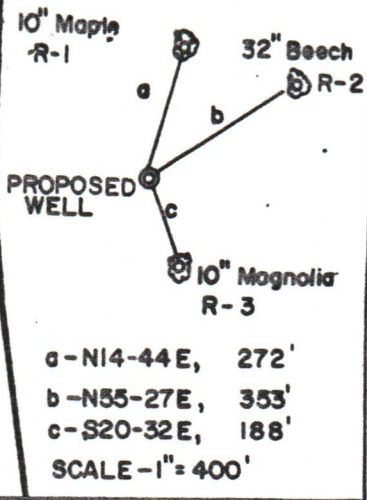
PS Form 3800, Feb. 1982

RECEIVED

MAY 15 1984

OIL & GAS DIVISION
DEPT. OF MINES

DEPT. OF MINES
OIL & GAS DIVISION
MAY 1931
RECEIVED



- A-N40-15E, 313.5'
- B-N37-45E, 492'
- C-N44-30E, 239'
- D-N72-45E, 253'
- E-N74-45E, 99'
- F-S73-30E, 293'
- G-S59E, 214.5'
- H-S68-30E, 503'
- I-S74E, 178'
- J-N82E, 202'
- K-N67E, 384'
- L-S78E, 685'
- M-N81-15E, 124'
- N-S79°W, 503'
- O-S54 W, 363'
- P-N11-45W, 327'

R-S79-31W, 1803'
S-S72-38E, 1770'

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION USGS BM-TACY-1693'
USGS NESTORVILLE 7 1/2' TOPO.

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. 624

Norton Surveys & Consulting, Inc.

PLACE SEAL HERE

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



DATE APRIL 27, 19 84
OPERATOR'S WELL NO. MOUSER-2
API WELL NO. _____
47 - 001 - 2077
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 1550' WATER SHED GLADE RUN
DISTRICT GLADE COUNTY BARBOUR
QUADRANGLE NESTORVILLE

SURFACE OWNER W. HAROLD MOUSER HEIRS ACREAGE 80
OIL & GAS ROYALTY OWNER W. HAROLD MOUSER HEIRS LEASE ACREAGE 80
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 ELK-Hawerty ESTIMATED DEPTH 5350'
WELL OPERATOR CONTINENTAL RESERVES OIL CO. DESIGNATED AGENT THOMAS P. SANDERS
ADDRESS P.O. BOX 117 ADDRESS P.O. BOX 117
BRIDGEPORT, W VA 26330 BRIDGEPORT, W VA 26330