



1) Date: May 8, 19 84  
 2) Operator's Well No. #2 Kines  
 3) API Well No. 47 001 2057  
 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: 1590' Watershed: Sugar Creek  
 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
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Robert Stewart Name S.W. Jack Drilling, Company  
 Address P.O. Box 345 Address P.O. Box 48  
Jane Lew, WV 26378 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) \_\_\_\_\_
- 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  No
- 15) CASING AND TUBING PROGRAM

**RECEIVED**  
 MAY 10 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINES

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									Sizes
Coal									Depths set
Intermediate	8 5/8	J-55	23	X		1,000'	1,000'	to surface	
Production	4 1/2	K-55	10.5	X		5,400'	5,400'	600 feet	
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 47-001-2057

Date May 11 19 84

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 11, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <b>BLANKET</b>	Agent: <u>LS</u>	Plat: <u>TS</u>	Casing: <u>TS</u>	Fee: <u>114</u>
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*[Signature]*  
 Administrator, Office of Oil and Gas

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

File

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

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	Don Kines, et al	Beckler Energy, Inc.	1/8	83	433
Assignment	Beckler Energy, Inc.	Mert Development, Inc.		83	536
Assignment	Mert Development, Inc.	Continental Reserves		98	304

1) Date: May 8, 19 84  
2) Operator's Well No. #2 Kines  
3) API Well No. 47 001 2057  
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 Don Kines  
Address 115 N. Main Street  
Philippi, WV 26416  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR N/A  
Address \_\_\_\_\_

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Hillman Coal Company  
Address 1900 Grant Building  
Pittsburgh, Pa. 15219  
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.

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. Sanders,  
this 2 day of May, 1984.  
My commission expires 3/5, 1994.

Notary Public, \_\_\_\_\_ County,  
State of West Virginia

RECEIVED

MAY 10 1984

OIL & GAS DIVISION  
DEPT. OF MINES

WELL OPERATOR Continental Reserves Oil Co.  
By [Signature]  
Its Designated Agent  
Address P.O. Box 117  
Bridgeport, WV 26330  
Telephone 304 842-6236



1) Date: May 8, 19 84  
 2) Operator's Well No. 42 Kines  
 3) API Well No. 47 State 001 County 2057 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: 1590' Watershed: Sugar Creek  
 District: Glade County: Barbour Quadrangle: Nestorville
- 6) WELL OPERATOR Continental Reserves Oil Co.  
 Address P.O. Box 117 of W.Va., Inc. 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 S.W. Jack Drilling, Company  
 Address P.O. Box 88 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) \_\_\_\_\_
- 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 \_\_\_\_\_

RECEIVED  
 MAY 10 1984

OIL & GAS DIVISION  
 No. X  
 DEPT. OF MINES

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

May 11 84

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.

May 11, 1986  
 (For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: \_\_\_\_\_  
 By \_\_\_\_\_  
 Its \_\_\_\_\_ Date \_\_\_\_\_

Don Times Date: 5-9-84  
 (Signature)  
 \_\_\_\_\_ Date: \_\_\_\_\_  
 (Signature)

**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.

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

RECEIVED

DEC 18 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2057

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company CONTINENTAL RES.  
 Address BRIDGEPORT W.V.  
 Farm KINGS  
 Well No. 2  
 District GLADE County BARBOUR  
 Drilling commenced 12-13-84  
 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 3/4			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. N. Jones #21

Remarks: Spud

12-13-84  
DATE

[Signature]  
DISTRICT WELL INSPECTOR

DISTRICT WELL INSPECTOR



RECEIVED

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

DEC 27 1984

OIL & GAS DIVISION

DEPT. OF MINES  
INSPECTOR'S WELL REPORT

Permit No. 001-2057

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company CONTINENTAL RES

Address BRIDGEPORT W.V.

Farm Doc KINES

Well No. 2

District GLADE County BARBOUR.

Drilling commenced 12-13-84

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 5/8		1044	
6 5/8			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 8 5/8 SIZE 1044 No. FT. 12-13-84 Date

NAME OF SERVICE COMPANY Halliburton

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Drillers' Names S. W. Juck #21

Remarks: 3 Centralizers 2 Baskets 265 lbs Class A Cement,  
Plugged 9:00 A.M.

12-18-84  
DATE

[Signature]  
DISTRICT WELL INSPECTOR







RECEIVED  
SEP 17 1985

State of West Virginia  
Department of Mines  
Oil and Gas Division  
Charleston 25305

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
January 17, 1985

COMPANY Continental Reserves Oil Co.

PERMIT NO 001-2057 (5-11-84)

P. O. Box 117

FARM & WELL NO Don Kines #2

Bridgeport, West Virginia 26330

DIST. & COUNTY Glade/Barbour

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strenght	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

SIGNED *Donald R. Ellis*

DATE 9-13-85

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. L. ...*  
Administrator-Oil & Gas Division

September 19, 1985

DATE

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

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 - 001 - 2057 -															
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA															
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	3 Category															
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	4866 feet															
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.) (b) For OCS wells:	<div style="text-align: right; font-weight: bold; font-size: 1.2em;">RECEIVED</div> <div style="text-align: right; font-weight: bold;">JAN - 3 1985</div> <div style="text-align: right; font-weight: bold;">OIL &amp; GAS DIV DEPT. OF MINES</div>															
(c) Name and identification number of this well: (35 letters and digits maximum.)	Continental Reserves Oil Company Name P.O. Box 117 Street Bridgeport City WV State 26330 Zip Code															
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	Glade District Field Name Barbour County WV State															
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract:	N/A Area Name N/A Block Number Date of Lease: _____ Mo. Day Yr. N/A OCS Lease Number Kines #2 Devonian Shale															
(c) Estimated total annual production from the well:	_____ Million Cubic Feet															
7.0 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:15%;"></th> <th style="width:25%;">(a) Base Price</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices (Indicate (+) or (-))</th> <th style="width:10%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td>8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)</td> <td align="center">N/A</td> <td align="center">-----</td> <td align="center">-----</td> <td align="center">N/A</td> </tr> <tr> <td>9.0 Person responsible for this application:</td> <td align="center">5.902</td> <td align="center">-----</td> <td align="center">-----</td> <td align="center">5.902</td> </tr> </tbody> </table>		(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-))	(d) Total of (a), (b) and (c)	8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	N/A	-----	-----	N/A	9.0 Person responsible for this application:	5.902	-----	-----	5.902
	(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-))	(d) Total of (a), (b) and (c)												
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	N/A	-----	-----	N/A												
9.0 Person responsible for this application:	5.902	-----	-----	5.902												
Agency Use Only Received by Juris. Agency Received by FERC	Thomas P. Sanders Name Signature 1-3-85 Date Application is Completed Production Mgr. Title AC 304- 842-6236 Phone Number															

RC-121 (8-82)

JAN 30 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 1-3, 19 85

AGENCY USE ONLY

Applicant's Name: Continental Reserves Oil Company

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

Gas Purchaser Contract No. \_\_\_\_\_

Date of Contract \_\_\_\_\_  
(Month, day and year)

First Purchaser: Columbia Gas Trans. Corp.

Address: P.O. Box 1272  
(Street or P.O. Box)  
Charleston, WV 25325  
(City) (State) (Zip Code)

FERC Seller Code \_\_\_\_\_

WELL DETERMINATION FILE NUMBER  
850103 -107-001-2057  
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 Production Manager  
(Print) (Title)

Signature: [Signature]

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

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

- 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
- XX 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

AGENCY USE ONLY

Q  
**QUALIFIED**

**RECEIVED**

JAN - 3 1985

OIL & GAS DIV.  
DEPT. OF MINES

Date Received

Determination Date

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No.                      Kines #2

API Well No.                       
47 - 001 - 2057  
State County Permit

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

DESIGNATED AGENT Thomas Sanders

ADDRESS P.O. Box 117  
Bridgeport, WV 26330

LOCATION Elevation 1590'  
Watershed Sugar Creek

Dist. Blade 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 Columbia Gas Trans. Corp.  
ADDRESS P.O. Box 1273  
Charleston, WV 25325

\* \* \* \* \*

Date surface drilling began: 12-13-84

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

BHP= Pf = Pw e XGLS 1728#

AFFIDAVIT

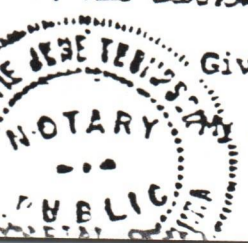
I, Thomas P. Sanders, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(1) or (3)(11)(A) has been filed, or as indicated by the report described in subparagraph (3)(11)(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 Marshall, TO-WIT:

Beale 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 9<sup>th</sup> day of Oct, 1984.  
My commission expires: March 5, 1984



DEVONIAN SHALE GAMMA RAY LOG ANALYSIS

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

Operator: Continental Reserves Oil Company Agent: Thomas Sanders

Type Determination being sought - 107 (Devonian Shale)

API Well No. : 47-001-2057 Well Name: Kines #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 = 126 \* API Units 0 - 200 Scale  
2. Remarks:

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

1. GR Value = 126 \* API Units  
2. Calculation:  $0.7 \text{ (GR Value at Base Line)}$   
 $0.7 \text{ ( } \underline{126} \text{ * )} = \underline{88}$  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		
1512'	5303'	3791'	152'

Total Devonian Interval 3791'

Total Less than 0.7 (Shale Base) 152'

Percentage Less Than 0.7 (Shale Base Line) =  $\frac{152}{3791} \times 100 = \underline{4.01} \%$

\* Marked on log included with analysis.

CALCULATION OF SHALE BASE LINE

Footage

API

Scale 0 - 200

1500 - 1600	120
1600 - 1700	130
1700 - 1800	130
1800 - 1900	120
1900 - 2000	115
2000 - 2100	105
2100 - 2200	130
2200 - 2300	130
2300 - 2400	130
2400 - 2500	135
2500 - 2600	130
2600 - 2700	140
2700 - 2800	140
2800 - 2900	135
2900 - 3000	130
3000 - 3100	125
3100 - 3200	120
3200 - 3300	130
3300 - 3400	125
3400 - 3500	120
3500 - 3600	120
3600 - 3700	125
3700 - 3800	130
3800 - 3900	125
3900 - 4000	125
4000 - 4100	130
4100 - 4200	135
4200 - 4300	130
4300 - 4400	120
4400 - 4500	125
4500 - 4600	125
4600 - 4700	130
4700 - 4800	120
4800 - 4900	120
4900 - 5000	125
5000 - 5100	125
5100 - 5200	130

4680 ÷ 37 = 126 API

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)  
(Sections 102, 103, 107 and 108)**

**GENERAL INSTRUCTIONS**

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 357-8585.

**SPECIFIC INSTRUCTIONS**

Use the codes in the table below for type of determination in item 2.

Section of NGPA (a)	Category Code (b)	Description (c)
102	1	New OCS lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1000 feet deep, test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS lease
103	-	New onshore production well
107	0	Deep (more than 15,000 feet) high-cost gas
107	1	Gas produced from geopressured brine
107	2	Gas produced from coal seams
107	3	Gas produced from Devonian shale
107	5	Production enhancement gas
107	6	New tight formation gas
107	7	Recompletion tight formation gas
108	0	Stripper well
108	1	Stripper well - seasonally affected
108	2	Stripper well - enhanced recovery
108	3	Stripper well - temporary pressure buildup
108	4	Stripper well - protest procedure

Enter the appropriate information regarding other Purchasers/Contracts.

Line No.	Contract Date (Mo, Da, Yr) (a)	Purchaser (b)	Buyer Code (c)
1			
2			
3			
4			
5			
6			

Remarks:



JAN 30 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: December 31, 19 84

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

850107 -103 -001 -2057

Use Above File Number on all  
Communications Relating to This Well

Applicant's Name: Continental Reserves Oil Company

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 \_\_\_\_\_

Designated Agent: Thomas P. Sanders

Address: 402 Orchard Street

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) Manager Oil & Gas Production (Title)

Signature: *Thomas P. Sanders*

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

2 New Natural Gas

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

3 New Onshore Production Well

- 103 New Onshore Production Well

7 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

QUALIFIED

RECEIVED

JAN - 7 1985

OIL & GAS DIV.  
DEPT. OF MINES

Received

Determination Date

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

Date December 31, 1984

Operator's Well No. #2

API Well No. 47 - 001 - 2057  
State County Permit

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL  
NGPA SECTION 103

DESIGNATED AGENT Thomas P. Sanders

ADDRESS 402 Orchard Street

Bridgeport, WV 26330

LOCATION: Elevation 1590'

Watershed Sugar Creek

Dist. Glade County Barbour Quad. Nestorville

WELL OPERATOR Continental Reserves Oil  
ADDRESS P.O. Box 117  
Bridgeport, WV 26330

GAS PURCHASER Columbia Gas  
ADDRESS P.O. Box 1273  
Charleston, WV 25325

Gas Purchase Contract No. \_\_\_\_\_

Meter Chart Code \_\_\_\_\_

Date of Contract \_\_\_\_\_

\* \* \* \* \*

Date surface drilling was begun: December 13, 1984

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

Ps - Pl = Pl (e GL/52.34T - 1)

Ps - Pl = Pl (1.2102 - 1)

Ps - Pl = 1650 (0.2102)

Ps - Pl = 346.83

BHP = 1996.83

Given:

Pl = 1650# PSI

L = 5,300'

T = 100° F

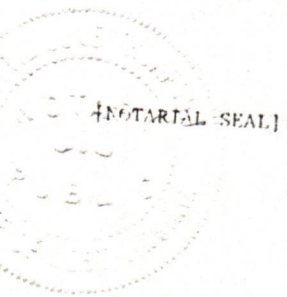
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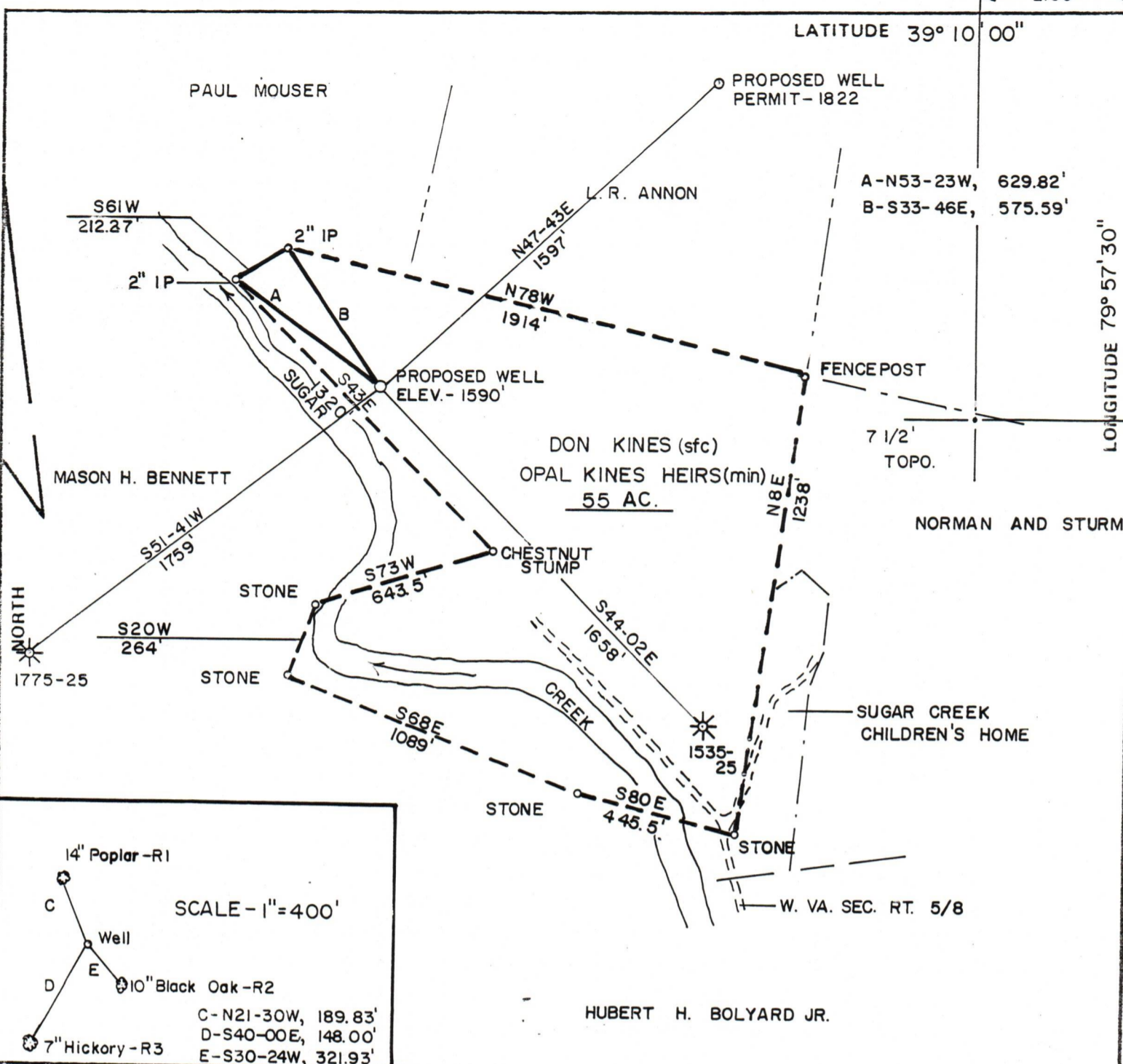
I, Thomas P. Sanders, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, 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.

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 31st day of December, 1984, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 31st day of December, 1984. My term of office expires on the 3rd day of March, 1994.

  
Notary Public



FILE NO. \_\_\_\_\_

DRAWING NO. \_\_\_\_\_

SCALE 1" = 500'

MINIMUM DEGREE OF ACCURACY 1 in 200

PROVEN SOURCE OF ELEVATION USGS BM-TACY-1693

USGS NESTORVILLE QUAD.

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) Raymond W. Podler

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. KINES-2

API WELL NO. \_\_\_\_\_

47 - 001 - 2057

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 1590' WATER SHED SUGAR CREEK

DISTRICT GLADE COUNTY BARBOUR

QUADRANGLE NESTORVILLE

SURFACE OWNER DON KINES ACREAGE 55

OIL & GAS ROYALTY OWNER OPAL KINES HEIRS LEASE ACREAGE 55

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-4 overty ESTIMATED DEPTH 5350'

WELL OPERATOR CONTINENTAL RESERVES OIL DESIGNATED AGENT THOMAS P SANDERS

ADDRESS P.O. BOX 117 of West Virginia, Inc. ADDRESS P.O. BOX 117

BRIDGEPORT, W. VA. 26330 BRIDGEPORT, W. VA. 26330