

FILE COPY
RECEIVED
DEC 10 1985



1) Date: December 9, 1985, 19__
2) Operator's Well No. Lang #3
3) API Well No. 47 -033-3282
State County Permit

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

- 4) WELL TYPE: A Oil / Gas XX /
B (If "Gas", Production XX / Underground storage / Deep / Shallow XX /)
- 5) LOCATION: Elevation: 1265 Watershed: Simpson Creek
District: Simpson 8 County: Harrison Quadrangle: Rosemont 7 1/2' 387
- 6) WELL OPERATOR Petroleum Deve. CODE: 38200 7) DESIGNATED AGENT Steven R. Williams
Address P. O. Box 26 Address P. O. Box 26
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
Name Stephen Casey Name
Address Rt. #2, Box 232-D Address
Jane Lew, WV 26378
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper / Redrill / Stimulate X /
Plug off old formation / Perforate new formation /
Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Benson
- 12) Estimated depth of completed well, 5000 feet
13) Approximate trata depths: Fresh, 45 300 feet; salt, 1456 feet.
14) Approximate coal seam depths: 568 Is coal being mined in the area? Yes / No XX /

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	H-40	42#	X		30	-	-	Kinds	
Fresh water										
Coal									Sizes	
Intermediate	8 5/8	J-55	20#	X		1125	1125	neat c.t.s.		
Production	4 1/2	J-55	10.5#	X		5000	5000	450 sks	Depths set	
Tubing										
Lin...									Perforations:	
									Top Bottom	

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-033-3282 Date December 10 19 85

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 December 10, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u> </u>	Agent: <u> </u>	Plat: <u> </u>	Casing <u> </u>	Fee <u> </u>	WPCP <u> </u>	S&E <u> </u>	Other <u> </u>
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NOTE: Keep one copy of this permit posted at the drilling location.

John H. Johnston by Margaret
Director, Division of Oil and Gas

12/29/2023 File

WW-9



DATE December 9, 1985

Rec'd. (WF-560)
DEC 9 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
State of West Virginia
Department of ENERGY
Oil and Gas Division

WELL NO. Lang No. 3
API NO. 47-033-3282

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Petroleum Development Corp. DESIGNATED AGENT Steven Williams
Address P.O. Box 26, Bridgeport, WV 26330 Address P.O. Box 26, Bridgeport, WV 26330
Telephone 842-6256 Telephone 842-6256
LANDOWNER Lloyd L. Lang et al SOIL CONS. DISTRICT West Fork
Revegetation to be carried out by _____ Seeding Contractor _____ (Agent)

This plan has been reviewed by West Fork SCD. All corrections and additions become a part of this plan: 12/10/85 (Date)

Kenneth E Knight
(SCD Agent)

ACCESS ROAD

LOCATION

Structure <u>Culvert with rip-rapped outlet (A)</u> drains	Structure <u>Diversion ditch</u> (1)
Spacing <u>(according to O&G manual) (at natural)</u>	Material <u>earth</u>
Page Ref. Manual <u>2.7</u>	Page Ref. Manual <u>2.12</u>
Structure <u>Drainage ditch</u> (B)	Structure <u>Rip-rap</u> (2)
Spacing <u>inside road cuts</u>	Material <u>stone</u>
Page Ref. Manual <u>2.12</u>	Page Ref. Manual <u>2.14</u>
Structure <u>Cross drains with rip-rapped</u> outlets (C)	Structure <u>Sediment Barrier</u> (3)
Spacing <u>as noted on back section of this plan</u>	Material <u>Staked Hay Bales</u>
Page Ref. Manual <u>2.1</u>	Page Ref. Manual <u>2.16</u>

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.

Woods

REVEGETATION

Woods

Treatment Area I

Treatment Area II

** Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Seed* Orchard grass 12 lbs/acre
Landino clover 3 lbs/acre
_____ lbs/acre

** Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Seed* Orchard grass 12 lbs/acre
Landino clover 3 lbs/acre
_____ lbs/acre

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

** Lime according to pH test

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

PLAN PREPARED BY David L. Jackson

ADDRESS P.O. Box 969
Buckhannon, WV 26201

PHONE NO. 472-9369

12/29/2023

1) Date: December 9, 1985
Operator's
2) Well No. Lang #3
3) API Well No. 47 - 033 - 3282
State County Permit

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

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

(i) Name Lloyd L. Lang
Address 213 Grand Avenue
Bridgeport, WV. 26330
(ii) Name James R. Lang
Address 324 W. Philadelphia Avenue
Bridgeport, WV. 26330
(iii) Name _____
Address _____

5 (i) COAL OPERATOR
Address _____

5 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____

Name Lloyd L. & James R. Lang
Address 213 Grand Ave.
Bridgeport, WV. 26330

5 (iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
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 WW-2(B) 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 WW-6, and
- (3) The Construction and Reclamation Plan on Form WW-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 WW-2(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B 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 Director of the Division of Oil and Gas, with respect to a well at the location described on attached Application and depicted on attached Form WW-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 Director of the Division of Oil and Gas.

6) EXTRACTION RIGHTS

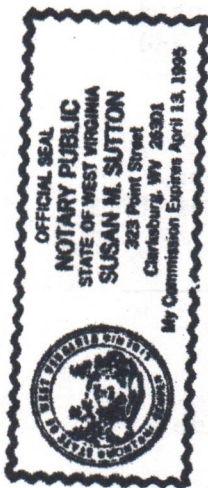
Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22B-1-8(c)(1) through (4). (see reverse side for specifics.)

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 WW-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.



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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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

Steven R. Williams,
his 9th day of December, 1985,
My commission expires April 13, 1995.
Susan M. Sutton
Notary Public, Harrison County,
State of West Virginia

WELL OPERATOR Petroleum Development Corporation
By [Signature]
Its President
Address P.O. Box 26,
Bridgeport, WV. 26330
Telephone 304/842-6256

12/29/2023

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 Division 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 §22B-1-9(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 §22B-1-36.
- 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 §22B-1-6 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 §22B-1-2C and the reclamation required by Code §22B-1-30 and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code §22B-1-2(c) and 22B-1-29, and (v) if applicable, the consent required by Code §22B-1-21 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 § § 22B-1-9, 22B-1-13 and 22B-1-14.

INFORMATION SUPPLIED UNDER CODE §22B-1-8(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:

Grantor, lessor, etc.

Grantee, lessee, etc.

Royal 12/29/2023 page



1) Date: December 9, 1985, 19
2) Operator's Well No. Lang #3
3) API Well No. 47
State _____ County _____ Permit _____

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

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas XX /
B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 1265 Watershed: Simpson Creek
District: Simpson County: Harrison Quadrangle: Rosemont 7 1/2'
- 6) WELL OPERATOR Petroleum Deve. CODE 38200 7) DESIGNATED AGENT Steven R. Williams
Address P. O. Box 26 Address P. O. Box 26
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
Name Stephen Casey Name _____
Address Rt. #2, Box 232-D Address _____
Jane Lew, WV 26378
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate X /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) Benson
- 11) GEOLOGICAL TARGET FORMATION, _____
- 12) Estimated depth of completed well, 5000 feet
- 13) Approximate strata depths: Fresh, 45 300 feet; salt, 1456 feet.
- 14) Approximate coal seam depths: 568 Is coal being mined in the area? Yes _____ / No XX

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		
Conductor	<u>11 3/4</u>	<u>H-40</u>	<u>42#</u>	<u>X</u>		<u>30</u>	<u>-</u>	Kinds
Fresh water								
Coal								Sizes
Intermediate	<u>8 5/8</u>	<u>J-55</u>	<u>20#</u>	<u>X</u>		<u>1125</u>	<u>1125</u>	<u>neat c.t.s.</u>
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5#</u>	<u>X</u>		<u>5000</u>	<u>5000</u>	<u>450 sks</u>
Tubing								Depths set
Liners								Perforations
								Top Bottom

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 22B-1-15,16, or 17 must be filed with the Department of Energy 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 22B-1-36 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: December 9, 19 85
By: James R Lang
Glenn R Lang
Its: Owners 12/29/2023



1) Date: December 9, 1985, 19____
 2) Operator's Well No. Lang #3
 3) API Well No. 47 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas XX /
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Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Stephen Casey Name _____
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Jane Lev, WV 26378
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
- 12) Estimated depth of completed well, 5000 feet
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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		Top	Bottom
Conductor	<u>11 3/4</u>	<u>H-40</u>	<u>42#</u>	<u>X</u>		<u>30</u>	<u>-</u>	<u>-</u>		Kinds
Fresh water										
Coal										Sizes
Intermediate	<u>8 5/8</u>	<u>J-55</u>	<u>20#</u>	<u>X</u>		<u>1125</u>	<u>1125</u>	<u>neat c.t.s</u>		
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5#</u>	<u>X</u>		<u>5000</u>	<u>5000</u>	<u>450 sks</u>		Depths set
Tubing										
Liners										Perforations:

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, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form WW-2(A), (2) an Application for a Well Work Permit on Form WW-2(B), (3) a survey plat on Form WW-6, and (4) a Construction and Reclamation Plan on Form WW-9, all for proposed well work on my surface land as described therein.

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

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: _____

By _____

Its _____ Date _____

James R Lang
 (Signature) Date 12/9/85
Raymond P Lang
 (Signature) Date 12/9/85

12/29/2023

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 22B, Article 1 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 Director of the Division of Oil and Gas in the West Virginia Department of Energy immediately.

NOTE : YOU ARE NOT REQUIRED TO FILE ANY COMMENT AT ALL.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION :

Director, Division of Oil and Gas
West Virginia Department of Energy
1615 Washington Street, East
Charleston, West Virginia 25311-2192
(304) - 348 - 3500

Who may file comments? If you wish to file comments, you must be an owner of record of (1) and 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 over 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 Director'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 Director's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Director 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 Director.

List of Water Testing Laboratories. The Director 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 Director's office or an Oil and Gas Inspector to obtain a copy of the list.

RECEIVED
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SITE REGISTRATION APPLICATION FORM
STATE OF WEST VIRGINIA/NPDES GENERAL PERMIT FOR OIL AND GAS
DRILLING PIT WASTE DISCHARGE

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1. Company Name Petroleum Development Corporation
2. Mailing Address P.O. Box 26, Bridgeport, WV. 26330
3. Telephone 304/842-6256 street city state zip
4. Well Name Lang #3
5. Latitude 39-20-00N Longitude 80-12-30W
6. NPDES # WV0073343 7. Dept. Oil & Gas Permit NO. 47-033-3282
8. County Harrison 9. Nearest Town Bridgeport
10. Nearest Stream Peddlers Run 11. Tributary of Simpson Creek
12. Will Discharge be Contracted Out? yes XX no
13. If Yes, Proposed Contractor PKC, Inc.
Address 44 Baltimore Street, Westover, WV. 26505
Telephone 292-1265
14. Proposed Disposal Method: UIC Land application XX
Off Site Disposal Reuse Centralized Treatment
Thermal Evaporation Other
15. Attach to this application a topographic map (a duplicate of the one submitted to the Office of Oil and Gas) showing the outline of the facility, location of wells, springs, rivers and other surface water bodies, and drinking water wells known to the applicant in the area of the lease that may be impacted by any land application.

Nothing in the general permit shall be deemed in any way to create new, or enlarge existing, rights of riparian owners or others. Neither does anything in the general permit create new, or enlarge existing, obligations or duties of an operator pursuant to the requirements of W. Va. Code S22-4-1 et seq. The issuance of the general permit does not convey any property rights of any sort. Nor shall the issuance of the general permit give rise to any presumptions of law or findings of fact inuring to or for the benefit of persons other than the State of West Virginia.



WR-35

JAN 17 1986

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date _____
Operator's #3
Well No. _____
Farm LANG BROTHERS
API No. 47 - 033 - 3282

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

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

LOCATION: Elevation: 1265' Watershed SIMPSON CREEK
District: SIMPSON County HARRISON Quadrangle ROSEMONT 7 1/2'

COMPANY PETROLEUM DEVELOPMENT CORPORATION
ADDRESS PO BOX 26, BRIDGEPORT, WV 26330
DESIGNATED AGENT STEVEN R. WILLIAMS
ADDRESS PO BOX 26, BRIDGEPORT, WV 26330
SURFACE OWNER LLOYD L. LANG
213 GRAND AVE, BRIDGEPORT, WV 26330
ADDRESS JAMES R. LANG
324 W. PHILADELPHIA AVE, BRIDGEPORT, WV 26330
MINERAL RIGHTS OWNER SAME AS SURFACE OWNERS
ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK STEPHEN
CASEY ADDRESS RT 2 BOX 232-D
JANE LEW, WV 26378
PERMIT ISSUED 12/10/85
DRILLING COMMENCED 12/17/85
DRILLING COMPLETED 12/22/85

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"	30'		
9 5/8			
8 5/8	1092'	1902'	220 sks.
7			
5 1/2			
4 1/2	4604'	4604'	530 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON Depth 5000 feet
Depth of completed well 4625 feet Rotary xx / Cable Tools _____
Water strata depth: Fresh 63 feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? no.

OPEN FLOW DATA
Producing formation BENSON Pay zone depth 4443.5-46.5 feet
Gas: Initial open flow not taken Mcf/d Oil: Initial open flow _____ Ebl/d
Final open flow 561 Mcf/d Final open flow _____ Ebl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1925 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth 12/29/2023 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Ebl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Ebl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

HARR 3282

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

	PERFS	ACID	80/100 SAND	20/40 SAND	NITROGEN	SLF-BBL
BENSON	4443.5-46.5	500 gal.	15,000 lb.	50,000 lb.	74,000 scf	638

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
KB - GL			0	10	
sand, shale, RR			10	1306	1/4" stream fresh H2O @ 63'
Little Lime			1306	1322	
sand, shale			1322	1362	
Big Lime			1362	1456	
sand, shale			1456	1460	
Big Injun			1460	1514	gas check @ 1506' 6/10 - 1" H2O
sand, shale			1514	1867	gas check @ 1630' 10/10 - 2" H2O
Gantz			1867	1877	
sand, shale			1877	1884	
50 ft			1884	1930	
sand, shale			1930	1953	
30 ft			1953	1998	
sand, shale			1998	2023	gas check @ 2006' 40/10 - 2" H2O
Gordon Stray			2023	2042	
sand, shale			2042	2046	
Gordon			2046	2094	
sand, shale			2094	2218	
4th			2218	2260	gas check @ 2255' 20/10 - 2" H2O
sand, shale			2260	2268	
4th-A			2268	2307	
sand, shale			2307	2399	
5th			2399	2439	
sand, shale			2439	2926	gas check @ 2506' 20/10 - 2" H2O
Upper Speechley			2926	3022	
sand, shale			3022	3046	gas check @ 3038' 20/10 - 2" H2O
Speechley			3046	3175	
sand, shale			3175	3236	gas check @ 3222' 20/10 - 2" H2O
Balltown			3236	3517	
sand, shale			3517	3585	
Bradford			3585	3616	
sand, shale			3616	4156	gas check @ 3813' 20/10 - 2" H2O
Riley			4156	4282	
sand, shale			4282	4419	gas check @ 4407' 16/10 - 2" H2O
Benson			4419	4482	gas check @ 4471' 24/10 - 2" H2O
sand, shale			4482	4625	Driller TD
				4630	Logger TD

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION

Well Operator

By:

Date:

1/16/86

12/29/2023

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."

1R-26
Obverse

RECEIVED
INSPECTOR'S PERMIT SUMMARY FORM
DEPARTMENT OF ENERGY
OIL AND GAS

12-10-85

WELL TYPE _____ API# 47- 033 - 3282
ELEVATION 1265 OPERATOR ~~CNCR~~ PPC
DISTRICT Simpson JUN 11 1986 TELEPHONE _____
QUADRANGLE Rosemont FARM _____
COUNTY Harrison WELL # Lang 3

SURFACE OWNER Lang, Lloyd COMMENTS _____ TELEPHONE _____
TARGET FORMATION _____ DATE APPLICATION RECEIVED _____
DATE STARTED _____
LOCATION 12-16-85 NOTIFIED DRILLING COMMENCED 12-18-85

WATER DEPTHS 63 , _____ , _____ , _____
COAL DEPTHS 237-241 , _____ , _____ , _____

CASING

Ran 1092 feet of 8 5/8 "pipe on 12-19-85 with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up

TD _____ feet on _____

PLUGGING

Type	From	To	Pipe Removed

Pit Discharge date: _____ Type _____
Field analysis ph _____ fe _____ cl _____
Well Record received _____

Date Released 6-6-86

Steve Casey 12/29/2023
Inspector's signature

API# 47 33 - 325E

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1	12-16-85		Inspect const.	
2	12-18		" rig	
3	12-19		" 8 5/8	
4	12-20		"	Comm. around 8 5/8
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes

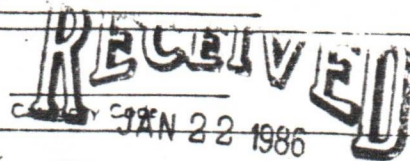
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

1.0 API well number:
(If not assigned, leave blank. 14 digits.)

47-033-3282

2.0 Type of determination being sought:
(Use the codes found on the front of this form.)

103
Section of NGPA



3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)

4446

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)

Petroleum Development Corporation

Name
P.O. Box 26, 103 East Main Street

Street
Bridgeport WV 26330
City State Zip Code

5.0 Location of this well: [Complete (a) or (b).]

UNNAMED

(a) For onshore wells
(35 letters maximum for field name.)

Field Name
HARRISON WV
County State

(b) For OCS wells:

Area Name Block Number

Date of Lease:

Mo. Day Yr.

OCS Lease Number

(c) Name and identification number of this well: (35 letters and digits maximum.)

LANG BROTHERS #3

(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)

BENSON

6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)

HOPE GAS INC / UNION CARBIDE
Name Buyer Co

(b) Date of the contract:

PENDING

Mo. Day Yr.

(c) Estimated total annual production from the well:

25

Million Cubic Feet

	(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU PENDING	-----	-----	-----
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU Section	104 + Taxes	-----	-----

9.0 Person responsible for this application:

Steven R. Williams

President

Name Title

Signature
1/16/86
Date Application is Completed

(304) 842-6256
Phone Number

Agency Use Only
Date Received by Juris. Agency JAN 22 1986
Date Received by FERC

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

840408-79

FEB 15 1986

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 1/16, 1986 38200

Applicant's Name: Petroleum Development Corporation

Address: P.O. Box 26
Bridgeport, WV 26330

Gas Purchaser Contract No. PENDING

Date of Contract: _____
(Month, day and year)
1986

First Purchaser: HOPE GAS INC / UNION CARBIDE

Address: 445 W. MAIN P.O. Box 2170
(Street or P.O. Box)
CLARKSBURG, WV 26301 CLARKSBURG, WV 26301
(City) (State) (Zip Code)

FERC Seller Code 014902 FERC Buyer Code _____

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER
860122 -1030-033 -32

Use Above File Number on all Communications Relating to This Application

Designated Agent: Steven R. Williams
Address: _____
P.O. Box 26
Bridgeport, WV _____

FERC Buyer Code _____

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

Name: Steven R. Williams President
(Print) (Title)

Signature: [Signature]

Address: P.O. Box 26
(Street or P.O. Box)
Bridgeport, WV 26330
(City) (State) (Zip Code)

Telephone: (304) 842-3597
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

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

- 108 108 Stripper Well Natural Gas
 - 108- Stripper Well
 - 108-1 Seasonally Aff
 - 108-2 Enhanced Recov
 - 108-3 Temporary Pres

AGENCY USE ONLY

12/29/2023

QUALIFIED

RECEIVED

JAN 22 1986

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

Date 1/16 1986

Operator's Well No. LANG BROS #3

API Well No. 47 State 033 County 3282 Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT Petroleum Development Corporation
ADDRESS 103 East Main Street
Bridgeport, WV 26301

WELL OPERATOR Petroleum Development Corp.
ADDRESS 103 East Main Street
Bridgeport, WV 26301

LOCATION: Elevation 1265
Watershed PEEDLER'S RUN
Dist. SIMPSON County HARRISON Quad. ROSEMONT

GAS PURCHASER HOPE GAS INC / UNION CARBIDE
ADDRESS 445 W. MAIN P.O. Box 2170
CLARMSBURG, WV CLARMSBURG, WV
26301 26301

Gas Purchase Contract No. PENDING
Meter Chart Code _____
Date of Contract _____

* * * * *

Date surface drilling was begun: 12/17/85

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

$P_{ws} = P_{ts} (e) \frac{0.01875 GH}{2T}$

- P_{ws} = Static Bottom Hole Pressure = 2199 psia
- P_{ts} = Static Wellhead Pressure = 1925 psia
- Bottom Hole Temperature = 99 OF
- G = Specific Gravity of Gas = .61
- H = Well Depth to Center Perfs. = 4444
- Z = Compressibility Factor at Arithmetic Mean Temperature & Pressure = .71
- T = Arithmetic Mean Temperature FFIDAVIT 537

I, STEVE WILLIAMS, 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, Deborah Alessio, a Notary Public in and for the state and county aforesaid, do certify that Steve Williams whose name is signed to the writing above, bearing date the 16th day of January, 1986, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 16th day of January, 1986.

My term of office expires on the 6th day of August, 1992.

Deborah Alessio
Notary Public



12/29/2023

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 - 033 - 3282 -			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA		RECEIVED JAN 22 1986 feet DIVISION OF OIL & GAS DEPARTMENT OF ENERGY	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4446			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Petroleum Development Corporation Name P.O. Box 26, 103 East Main Street Street Bridgeport City WV State 26330 Zip Code			
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	UNNAMED Field Name HARRISON County WV State			
(b) For OCS wells:	Area Name Block Number Date of Lease: Mo. Day Yr. OCS Lease Number			
(c) Name and identification number of this well: (35 letters and digits maximum.)	LANG BROTHERS #3			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	BENSON			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	HOPE GAS INC / UNION CARBIDE Name Buyer C			
(b) Date of the contract:	PENDING Mo. Day Yr.			
(c) Estimated total annual production from the well:	25 Million Cubic Feet			
	(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	PENDING	-----	-----
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	Section	104 + Taxes	-----
9.0 Person responsible for this application:	Steven R. Williams Name President Title Signature 1/7/86 Date Application is Completed (304) 842-6256 Phone Number			

FERC-121 (8-82)

12/29/2023

Rosemont

DEPARTMENT OF MINES, OIL AND GAS DIVISION
840408-79

FEB 15 1986

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 1/16, 1986 38200

AGENCY USE ONLY

Applicant's Name: Petroleum Development Corporation

WELL DETERMINATION FILE NUMBER

Address: P.O. Box 26
Bridgeport, WV 26330

860122 -1076 -033 -3282

Purchaser Contract No. PENDING

Use Above File Number on all
Communications Relating to This Well

Date of Contract _____
(Month, day and year)

First Purchaser: HOPE GAS INC / UNION CARBIDE

Designated Agent: Steven R. Williams

Address: 445 W. MAIN P.O. Box 2170
(Street or P.O. Box)
CLARKSBURG, WV 26301 CLARKSBURG, WV 26301
(City) (State) (Zip Code)

Address: _____
P.O. Box 26
Bridgeport, WV 26330

FERC Seller Code 014902

FERC Buyer Code _____

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

Name: Steven R. Williams President
(Print) _____ (Title)

Signature: *[Signature]*

Address: P.O. Box 26
(Street or P.O. Box)
Bridgeport, WV 26330
(City) (State) (Zip Code)
Telephone: (304) 842-3597
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 02 New Natural Gas
 - 102-2 2.5 Mile Test
 - 102-3 1000 Foot Deeper Test
 - 102-4 New Onshore Reservoir
- 03 New Onshore Production Well
 - 103 New Onshore Production Well
- 07 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 Recombination Tight Formation

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

AGENCY USE ONLY

Rosemont

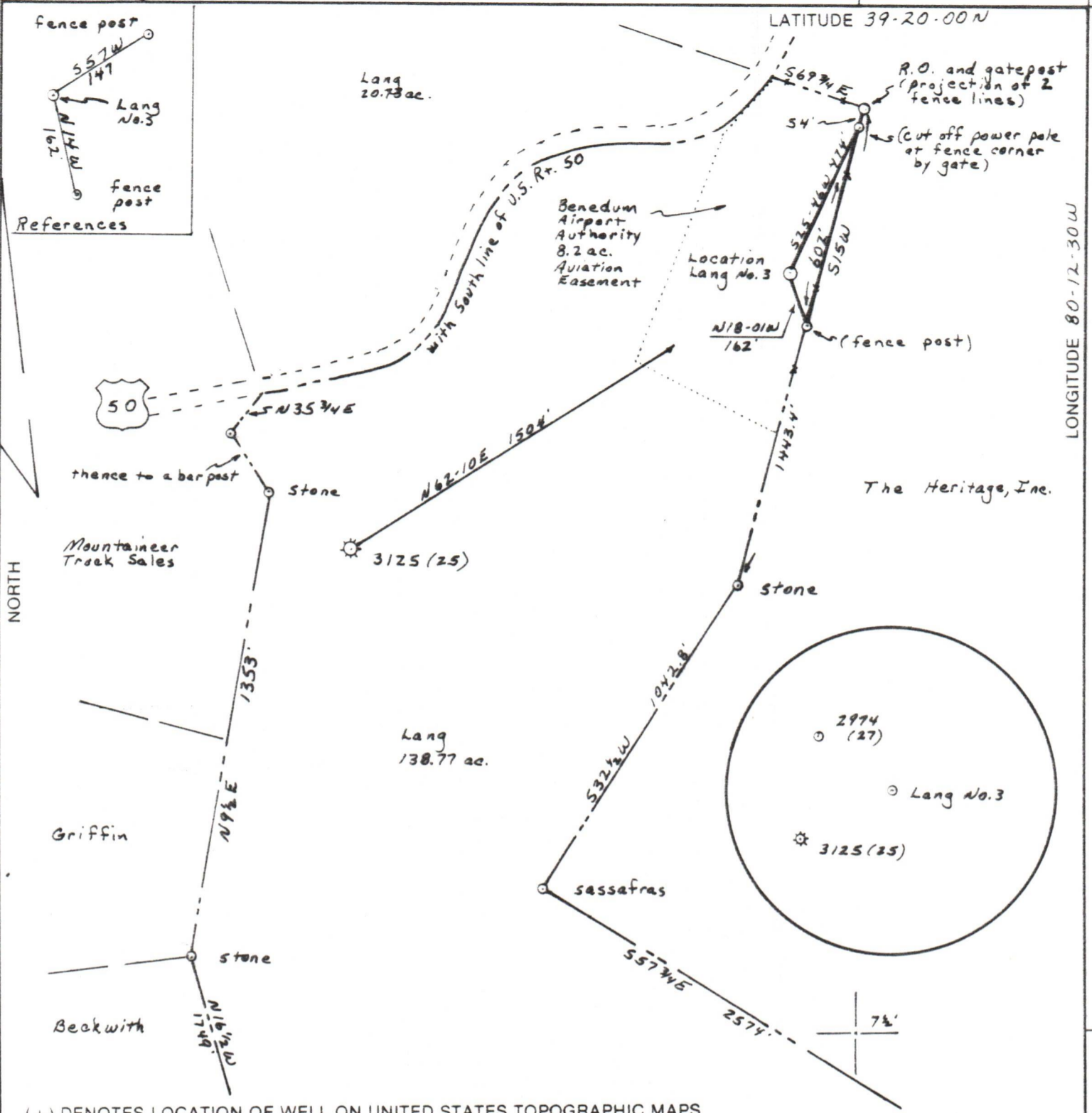
RECEIVED
JAN 22 1986

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

12/29/2023
QUALIFIED

177 U 12/10/85

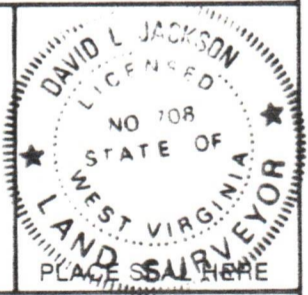
3325



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

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Hilltop 194' south of Location; elev. 1308

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) David L. Jackson
 R.P.E. _____ L.L.S. 708



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE May 13, 1985
 OPERATOR'S WELL NO. Lang No. 3
 API WELL NO. _____

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

LOCATION: ELEVATION 1265 WATER SHED Simpson Creek
 DISTRICT Simpson COUNTY Harrison
 QUADRANGLE Rosemont 7 1/2'

SURFACE OWNER Lloyd L. Lang et al ACREAGE 138.77
 OIL & GAS ROYALTY OWNER Lloyd L. Lang et al LEASE ACREAGE 138.77 **12/29/2023**
 LEASE NO. 378400

PROPOSED WORK: DRILL X 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 Benson ESTIMATED DEPTH 5000
 WELL OPERATOR Petroleum Development Corp. DESIGNATED AGENT Steven Williams
 ADDRESS P.O. Box 26, Bridgeport, WV 26330 ADDRESS P.O. Box 26, Bridgeport, WV 26330

FURM IV-B (8-78)

COUNTY NAME PERMIT