

FORM IV-2
(Reverse)

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) _____

Address _____

GEOLOGICAL TARGET FORMATION Marcellus Shale

Estimated depth of completed well 5600 feet. Rotary XX / Cable tools /

Approximate water strata depths: Fresh, 80 feet; salt, feet.

Approximate coal seam depths: N/A

Is coal being mined in this area: Yes / No XX /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL- UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill- ling	Left in Well		
Conductor	10"	RL	40.5#	XX		250	250	To Surface	Kinds
Fresh water									
Coal									Sizes
Intermed.	8 5/8	RL	23#	XX		1200	1200	To Surface	
Production	4 1/2	RL	10.5#	XX		5600	5600	By rule 1501	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling **. THIS PERMIT SHALL EXPIRE**

IF OPERATIONS HAVE NOT COMMENCED BY 1-25-83 **.**

BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under 08/18/2023 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.

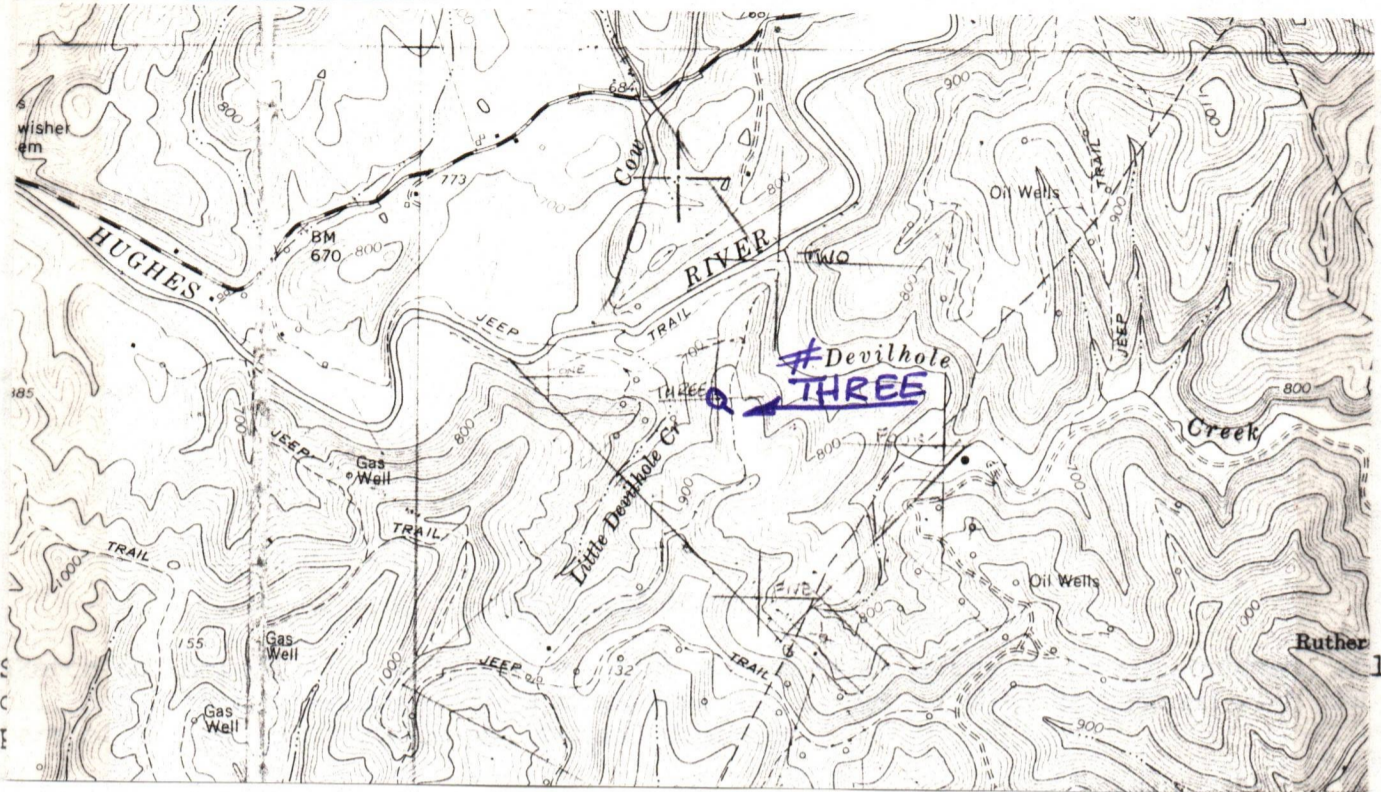
Date: , 19 .

Not Applicable

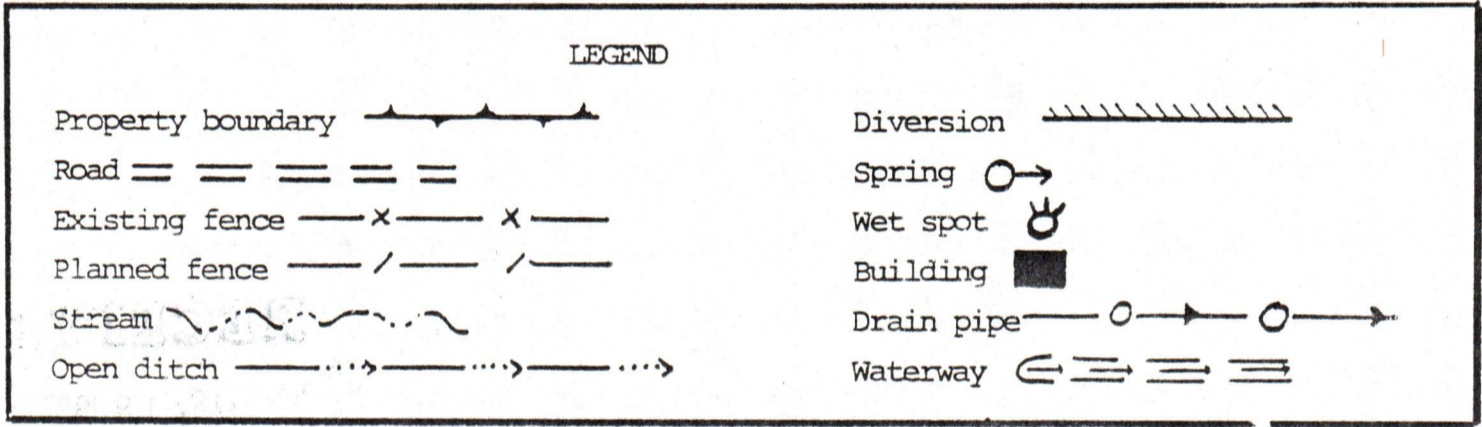
By:

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE CAIRO

LEGEND
WELL SITE ⊕ ACCESS ROAD —



11.11.11
first



PIT

⊕
- 0.16-13.10 -SLOPE
- ACCESS ROAD

EXISTING WELL ROAD

- Comments:
1. LENGTH OF ACCESS ROAD 200'
 2. BRUSH AND TREES TO BE PILED AT SITE.
 3. LOCATION IS LOCATED ON A NATURAL FLAT AND WILL NOT REQUIRE A CUT OR FILL.
 4. _____
 5. _____

08/18/2023



IV-9
(Rev 3-81)

DATE 5 MAY, 1982

WELL NO. THREE

State of West Virginia

API NO. 47 - 085 - 5635

Department of Mines

Oil and Gas Division

Construction & Reclamation Plan

COMPANY NAME L & B OIL COMPANY
ADDRESS 210 SECOND STREET

DESIGNATED AGENT LOREN BAGLEY
ADDRESS 210 SECOND STREET

ST. MARYS, W.VA. 26170

ST. MARYS, W.VA. 26170

Telephone (304)684-2495

Telephone (304)684-2495

LANDOWNER WESTVACO

SOIL CONS. DISTRICT LITTLE KANAWHA

Revegetation to be carried out by LOREN BAGLEY (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 5-14-82

(Date)

Jarrett Newlon
(SCD Agent)

ACCESS ROAD

LOCATION

Structure _____

(A)

Structure _____ (1)

Spacing _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

Structure _____

(B)

Structure _____ (2)

Spacing _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

Structure _____

(C)

Structure _____ (3)

Spacing _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

RECEIVED

MAY 19 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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

Treatment Area II

Lime _____ Tons/acre
or correct to pH 6.5

Lime _____ Tons/acre
or correct to pH 6.5

Fertilizer 500 lbs/acre
(10-20-20 or equivalent)

Fertilizer 500 lbs/acre
(10-20-20 or equivalent)

Mulch HAY OR STRAW 2 Tons/acre

Mulch HAY OR STRAW 2 Tons/acre

Seed* KY 31 TALL FESCUE 40 lbs/acre

Seed* ORCHARD GRASS 12 lbs/acre

REDTOP 5 lbs/acre

LADINO CLOVER 3 lbs/acre

BIRDSFOOT TREFOIL 10 lbs/acre

TIMOTHY 6 lbs/acre

BIRDSFOOT TREFOIL 10 lbs/acre

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

08/18/2023

PLAN PREPARED BY WILLIAM R. MOSSOR, L.L.S.

ADDRESS 106 NORTH SPRING STREET

HARRISVILLE, W.VA. 26362

PHONE NO. (304) 643-4572

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



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

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

00G-0849

June 1, 1984

Petro-Mark, Inc.
P. O. Box 37
Reno, OH 45773

Attn: Mr. Ronald H. Woodburn

Re: 47-073-1502, 47-085-5635 and 085-5722

Dear Mr. Woodburn:

Inasmuch as you have furnished this office with "satisfactory evidence of transfer" and you have a Equibank Certificate of Deposit in the amount of \$50,000 on file with the State Treasurer in lieu of blanket bond, we are hereby transferring the subject wells to Petro-Mark, Inc.

If I can be of further assistance please feel free to call on me.

Sincerely,

A handwritten signature in cursive script, appearing to read "T. Streit".

Ted M. Streit, Administrator
Office of Oil and Gas

TMS/las

cc - L and B Oil Company - Attn: Mr. Bernard Tice, President
Robert Lowther, District Oil & Gas Inspector Pleasants County
Samuel Hersman, District Oil & Gas Inspector Ritchie County

08/18/2023

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

Preforated from 5281' to 5498' - 20 holes. Fractured: 2000 gal FE Acid- 80 bbls

KCL Water - 50,000 lbs 20/40 Sand - 4900 lbs. Potassium Chloride, and 1,230,000 SCF N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Lime			1800	1810	
Injun Sand			1811	1880	Natural Gas
Berra			2221	2230	
Fifty Foot			2349	2358	
Thirty Foot			2482	2491	
Gordon			2621	2630	
4th sand			2684	2694	
5th sand			2782	2788	

(Attach separate sheets as necessary)

L & B Oil Company, Inc.

Well Operator

By: Carl W. Nolan
Carl W. Nolan

08/18/2023

Date: August 19, 1981

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."

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IV-35
(Rev 8-81)

AUG 20 1982

AUG. 19 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES
State of West Virginia

Department of Mines
Oil and Gas Division

Date _____
Operator's _____
Well No. WESTVACO # 3
Farm WESTVACO
API No 47 - ~~085~~ - 5635

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

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

LOCATION: Elevation: 820' Watershed Little Divilhole Creek
District: Grant County Ritchie Quadrangle Cairo

COMPANY L&B Oil Company, Inc.
ADDRESS P.O. BOX c, St. Marys, WV.
DESIGNATED AGENT Loren E. Bagley
ADDRESS P.O. Box C, St. Marys, WV
SURFACE OWNER WESTVACO
ADDRESS P.O. Box 577, Ruport, WV 25984
MINERAL RIGHTS OWNER WESTVACO
ADDRESS P.O. Box 577, Ruport, WV 25984
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
ADDRESS 3rd St. Middlebourne, WV
PERMIT ISSUED May 19, 1982
DRILLING COMMENCED June 14, 1982
DRILLING COMPLETED June 20, 1982
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	1072'	1072	250 sks
7			
5 1/2			
4 1/2	5626'	5626'	495 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5600 feet
Depth of completed well 5626 feet Rotary xx / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: N/A Is coal being mined in the area? No.

OPEN FLOW DATA

Producing formation Marcellus Shale Pay zone depth 5281-5498 feet
Gas: Initial open flow 400 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 332 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 1000 psig (surface measurement) after 24 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

08/18/2023

(Continue on reverse side)



RECEIVED
OCT 23 1984

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

OIL & GAS DIVISION
DEPT. OF MINES

Petro-Mark, Inc.

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY ~~LTD OIL CO. INC.~~

PERMIT NO 47-085-5635

PO BOX 37

FARM & WELL NO WESTVACO / #1

Reno Ohio 45773

DIST. & COUNTY GRANT / RITCHIE

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

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

SIGNED Samuel N. Heroman

DATE 10-17-84

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-Oil & Gas Division

January 2, 1985

DATE

08/18/2023

FERC-121

085

1.0 API well number: (If not available, leave blank. 14 digits.)	47-095-5635			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA	High Cost NG Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5498 feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	L & B Oil Company, Inc. Name		023237 Seller Code	
	P. O. Box C Street			
	St. Marys,	WV	26170	
	City	State	Zip Code	
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	N/A			
	Ritchie Field Name	WA State		
	County	State		
(b) For OCS wells:	N/A			
	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.)	WESTVACO Well # 3			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Unknown Name		Buyer Code	
(b) Date of the contract:	N/A			
(c) Estimated annual production:	20 MMcf.			
	(a) Base Price (\$/MMBTU)	(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.)	Deregulated			
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	Deregulated			
9.0 Person responsible for this application:	Administrative Assistant			
Agency Use Only	Jack D. Barnard Name		Assistant Title	
Date Received by Juris. Agency	<i>Jack D. Barnard</i> Signature			
Date Received by FERC	August 19, 1982 Date Application is Completed		(304) 684-9399 Phone Number	

08/18/2023

FT 7-00080672 2

U.S. DEPARTMENT OF ENERGY
Federal Energy Regulatory Commission
Washington, D.C. 20426

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

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 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. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 270.103. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

<u>Section of NGPA</u>	<u>Category Code</u>	<u>Description</u>
102	1	New OCS Lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1,000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS Lease
103	-	New onshore production well
107	-	High cost natural gas
108	-	Stripper well

Other Purchasers/Contracts:

<u>Contract Date</u> (Mo. Day Yr.)	<u>Purchaser</u>	<u>Buyer Code</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks:

08/18/2023

PARTICIPANTS:

DATE: JAN 7 1983

BUYER-SELLER CODE

WELL OPERATOR: L + B Oil Company, Inc.

023237

FIRST PURCHASER: Unknown

OTHER: _____

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
820823-107-085=5635
 Use Above File Number on all Communications
 Relating to Determination of this Well

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~
Qualifies

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. 70480 All
- 2. IV-1 Agent Loren E. Bagley
- 3. IV-2 Well Permit _____
- 4. IV-6 Well Plat
- 5. IV-35 Well Record Drilling Deepening _____
- 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
- 7. IV-39 Annual Production _____ years
- 8. IV-40 90 day Production _____ Days off line: _____
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - 54 - (55) - 56 - 57 - 58 Complete? Affidavit Signed
- 18-28. Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
 Gas Analyses _____
- (5) Date commenced: 6-14-82 Date completed 6-20-82 Deepened _____
- (5) Production Depth: 5281-5498
- (5) Production Formation: Marcellus Shale
- (5) Final Open Flow: 332 MCF
- (5) After Frac. R. P. 1000# 24 hrs.
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: _____
- (8) Avg. Daily Gas from 90-day ending w/1-120 days _____
- (8) Line Pressure: _____ PSIG from Daily Report
- (5) Oil Production: _____ From Completion Report _____
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information? Yes
- Additional information _____ Does computer program confirm? _____
- Was Determination Objected to _____ By Whom? _____

08/18/2023

L+B

DEPARTMENT OF MINE'S OIL AND GAS DIVISION

Operator's
Well No. WESTVACO # 3

API Well No.
083
47 - ~~055~~ - 5635
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107

DESIGNATED AGENT Loren E. Bagley

ADDRESS P. O. Box C
St. Marys, WV 26170

LOCATION Elevation 820'
Watershed Little Divelhole Creek

WELL OPERATOR L&B Oil Company, Inc.
Dist. Grant County Ritchie Quad. Cairo

ADDRESS P. O. Box C
St. Marys, WV, 26170
Gas Purchase
Contract No. N/A

GAS PURCHASER Unknown
Meter Chart Code _____

ADDRESS _____
Date of Contract _____

* * * * *

Date surface drilling began: June 14, 1982

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

$$BHP = P_1 + P_1 \left(\frac{GL}{53.34T} \right)$$

$$P_1 = 1014.73$$

$$L = 5626$$

$$G. = .70$$

$$T = 120^\circ$$

$$BHP = 1152.53 \text{ PSIA}$$

AFFIDAVIT

I, Loren E. Bagley, 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)(i) 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.

Loren E. Bagley

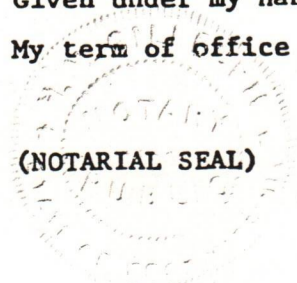
STATE OF WEST VIRGINIA

COUNTY OF Pleasants, TO-WIT:

I, H. M. Gillispie, a Notary Public in and for the state and county aforesaid, do certify that Loren E. Bagley, whose name is signed to the writing above, bearing date the 19th day of August, 1982, has acknowledged the same before me, in my county aforesaid.

08/18/2023

Given under my hand and official seal this 19th day of August, 1982.
My term of office expires on the 19th day of August, 1990.



H. M. Gillispie
Notary Public

Date August 19, 1982

Operator's Well No. WESTVACO # 3

API Well No. 47 - 085 - 5635
State West Virginia County Putnam Permit 5635

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. _____
(If Applicable)

WELL OPERATOR L & B Oil Company, Inc.

ADDRESS P.O. Box C
St. Marys, WV 26170

DESIGNATED AGENT Loren E. Bagley

ADDRESS P. O. Box C
St. Marys, WV 26170

Gas Purchase Contract No. N/A and Date N/A
(Month, day and year)

Meter Chart Code N/A

Name of First Purchaser Unknown

(Street or P. O. Box)
(City) (State) (Zip Code)

FERC Seller Code 023237

FERC Buyer Code _____

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) 107 Section of NGPA High Cost NG Category Code
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Name Loren E. Bagley Title President

Signature *Loren E. Bagley*

P. O. Box C
Street or P. O. Box
St. Marys, WV 26170
City State (Zip Code)

()
Area Phone Number
Code

(Certificate of Proof of Service to Purchaser)

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request, for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1975, (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____.

Initial review of information submitted indicates the well is, is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the Department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

08/18/2023

AUG 23 1982

Date received by
Jurisdictional Agency

Director
By *[Signature]*
Tit _____

WESTVACO # 3
BHP CALCULATION

085-5635

$$P_1 = 1000 = 14.73 = 1014.73$$

$$L = 5626''$$

$$G = .70$$

$$T = 120^\circ$$

$$1) G \times L = 3938$$

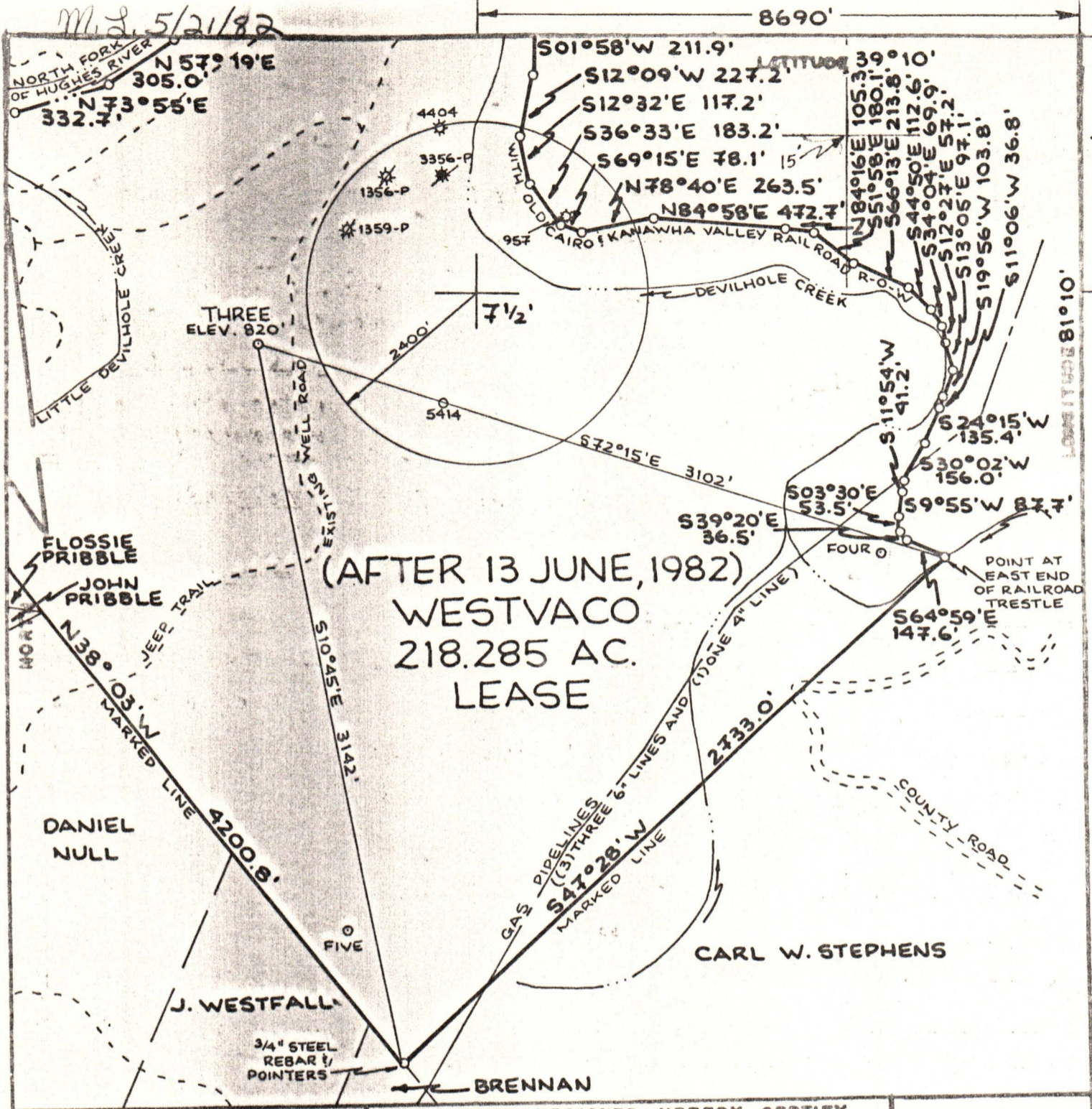
$$2) \begin{array}{r} \frac{GL}{3800} \\ 3938 \\ 4000 \end{array} \qquad \begin{array}{r} \frac{120^\circ}{1.1307} \\ ? \\ 1.1380 \end{array}$$

$$\begin{aligned} .0073 \div 200 &= .000037 \\ .000037 \times 138 &= .0051 \end{aligned}$$

$$3) 3938 = 1.1307 + .0051 = 1.1358$$

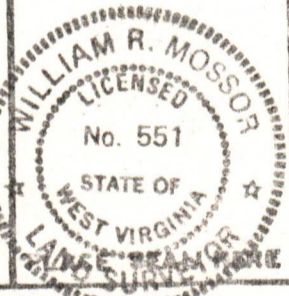
$$\begin{aligned} \text{BHP} &= 1014.73 + 1014.73 (1.1358) \\ &= 1014.73 + 137.80 \\ &= 1152.53 \text{ PSIA} \end{aligned}$$

08/18/2023



FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=500
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION HIGH PT. ELEV. 1132'

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) *William R. Mossor*
 R.P.E. _____ L.L.S. 551



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



DATE 10 MAY 1982
 OPERATOR'S WELL NO THREE
 API WELL NO. 47-085-5635
 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 820' WATER SHED LITTLE DEVILHOLE CREEK
 DISTRICT GRANT COUNTY RITCHIE
 QUADRANGLE CAIRO 7 1/2' QUAD.
 SURFACE OWNER WESTVACO ACREAGE 218.285
 OIL & GAS ROYALTY OWNER (AFTER 13 JUNE, 1982) WESTVACO EASE ACREAGE 218.285
 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 MARCELLUS SHALE ESTIMATED DEPTH 5600'
 WELL OPERATOR LIB OIL COMPANY DESIGNATED AGENT LOREN BAGLEY
 ADDRESS 210 SECOND STREET ADDRESS 210 SECOND STREET
 ST. MARYS, W.VA. 26170 ST. MARYS, W.VA. 26170