FORM IV-2
(Obverse)
(08-78)

Date: July 23, 19 82

Operator's Well No. 1 - 1806

API Well No. 47 - 097 - 2483
State County Permit

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

UDI-Kuhns #1 (1806)

OIL AND GAS WELL PERMIT

WELL TYPE: Oil ____ / Gas x /
(If "Gas", Production x / Underground storage ____ / Deep ____ / Shallow x /)

LOCATION: Elevation: 1920 Watershed: Laurel Run of Little Kanawha River
District: Banks County: Upshur Quadrangle: Rock Cave

WELL OPERATOR UNION DRILLING, INC.
Address P. O. Drawer 40,
Buckhannon, WV 26201

DESIGNATED AGENT UNION DRILLING, INC.
Address P. O. Drawer 40
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Union Drilling, Inc.
Address P. O. Drawer 40
Buckhannon, WV 26201
Acreage 112.5

COAL OPERATOR ____
Address ____

SURFACE OWNER Albert McQuain
Address 628 Pennsylvania Ave.
Bridgeport, WV 26330
Acreage 30

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name James LaRosa
Address 420 Buckhannon Pike
Clarksburg, WV 26301
Name ____
Address ____

FIELD SALE (IF MADE) TO:
Address Not Determined at this time.

COAL LESSEE WITH DECLARATION ON RECORD:
Name ____
Address ____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Stewart 884-7782
Address P. O. Box 345
Jane Lew, WV 26378

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed xx / lease ____ other contract ____ / dated August 4, 19 81, to the undersigned well operator from Helen M. Kuhns to Union Drilling, Inc. Deed to UDI
(If said deed, lease, or other contract has been recorded:)
Recorded on March 31, 19 82, in the office of the Clerk of the County Commission of Upshur County, West Va. ~~West~~, in Deed Book 301 at page 786. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill deeper ____ / Redrill ____ / Fracture or stimulate x /
Plug off old formation ____ / Perforate new formation ____ /
Other physical change in well (specify) ____

—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

RECEIVED
JUL 26 1982
OIL & GAS DIVISION
DEPT. OF MINES

12/08/2023

UNION DRILLING, INC.
Well Operator
By Joseph C. Pettey
Its Joseph C. Pettey, Vice President Of Production

BLANKET BOND

FORM IV-2
(Reverse)
(08-78)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) UNION DRILLING, INC.

Address P. O. Drawer 40
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Benson

Estimated depth of completed well, 3800 feet Rotary x / Cable tools _____ /

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

Approximate coal seam depths: ? Is coal being mined in the area? Yes _____ / No x /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor	11 3/4"			x		20'	20'		Kinds
Fresh Water									
Coal									Sizes
Intermediate	8 5/8"		23#	x		800'	800'	to surface	
Production	4 1/2"		10½#	x			3800'	480 sks.	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 4-12-83.
BY _____

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.

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.

12/08/2023

_____

Date: _____, 19 _____

By _____

Its _____

IV-9
(Rev 8-81)

RECEIVED AUG 3 1982 Tygart Valley Soil Conservation District

State of West Virginia
Department of Mines
Oil and Gas Division

DATE 8-2-82
WELL NO. 1806
API NO. 47 - Upshur - 2483

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME UNION DRILLING, INC.
Address P. O. DRAWER 40 BUCKHANNON, W. VA. 26201
Telephone 472-4610
LANDOWNER C. ALBERT Mc QUAIN

DESIGNATED AGENT UNION DRILLING, INC.
Address P. O. DRAWER 40 BUCKHANNON, W. VA. 26201
Telephone 472-4610
SOIL CONS. DISTRICT

Revegetation to be carried out by UNION Drilling INC. (Agent)

This plan has been reviewed by Tygarts Valley SCD. All corrections and additions become a part of this plan: 8/7/82 (Date)

Jean Freeman (SCD Agent)

ACCESS ROAD

Structure Culvert Pipe (12" Min) (A)
Spacing At Natural Drains
Page Ref. Manual

Structure Cross Drains (B)
Spacing 250 ±
Page Ref. Manual

Structure Roadway Ditch (C)
Spacing
Page Ref. Manual

LOCATION

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual

Structure (2)
Material
Page Ref. Manual

Structure
Spacing
Page Ref. Manual

Material
Page Ref. Manual

RECEIVED AUG 11 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

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch 2 Tons/acre
Seed* Ky. 31 30 lbs/acre
Birdsfoot 10 lbs/acre
Domestic Rye 10 lbs/acre

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch 2 Tons/acre
Seed* Ky. 31 30 lbs/acre
Birdsfoot 10 lbs/acre
Domestic Rye 10 lbs/acre

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

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

PLAN PREPARED BY Danny O'Morgan
ADDRESS P.O. Drawer 40, Buckhannon W.Va.
PHONE NO. 472-4610

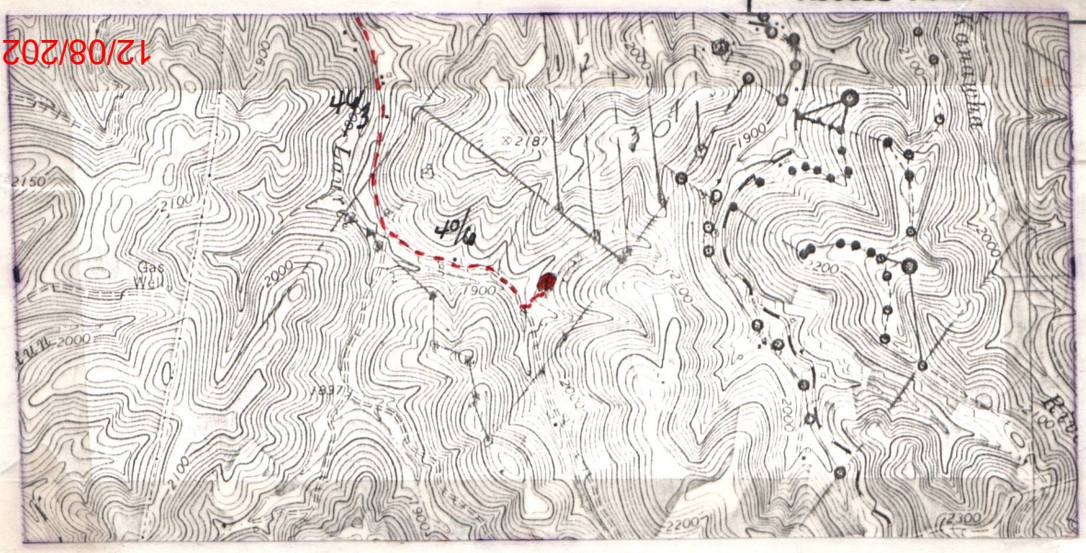
(REV 8-81)

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE Rock Cave 7.5

LEGEND

Well Site ⊕

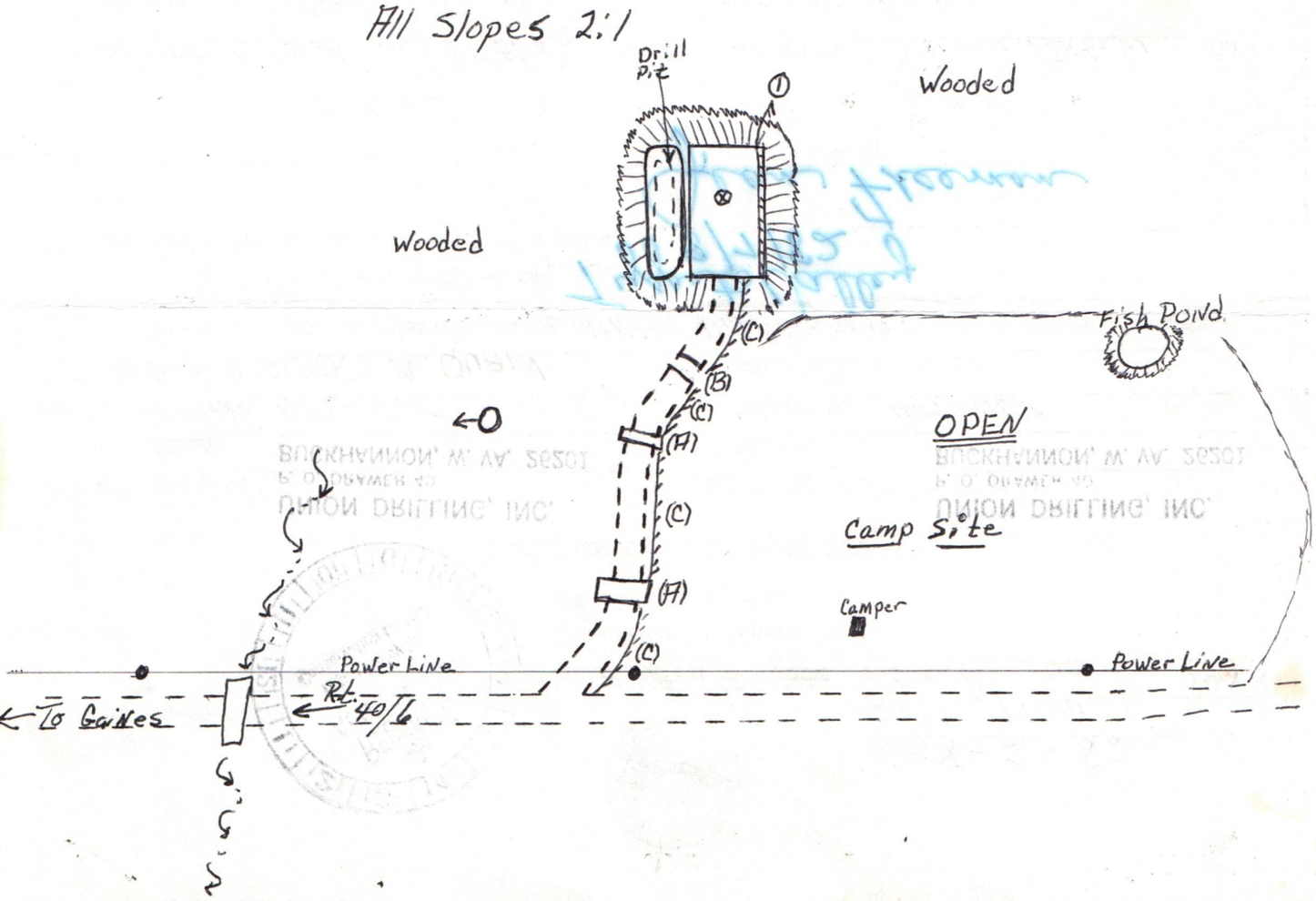
Access Road ——



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

LEGEND

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



304-472-4610

UNION DRILLING, INC. Drawer 40 Buckhannon, WV 26201

DRILLING CONTRACTORS
PRODUCERS OF OIL AND GAS

AFFIDAVIT

I, Joseph C. Pettey, Vice President of Production, Union Drilling, Inc., hereby verifies that the owner or owners of the mineral estate upon which this proposed well is to be located will receive a minimum of one-eighth (1/8) royalty payments for any gas or oil extracted therefrom. Copies of the Permit Application and the enclosed plat and reclaimation plan have been mailed by registered mail or delivered by hand to the above-named coal operator, co-owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

7/23/82
Date

Joseph C. Pettey
Joseph C. Pettey, Vice President of Production

NOTARY SIGNATURE: Janet L Withers
Name: Janet L Withers

Notary Commission expires: Oct 19, 1987

Vpp-2483

RECEIVED
JUL 26 1982
OIL & GAS DIVISION
DEPT. OF MINES

12/08/2023

12/08/2023

P 471 412 163

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to: Mr. Frank Williams, Sr.

Street and No.: 103 S. Florida Streets

P.O., State and ZIP Code: Buckhannon, WV 26201

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$

Postmark or Date: 7/27/84 Intent to Plug M-346

BUCKHANNON JUL 27 1984 WV

PS Form 3800, Feb. 1982

P 471 412 162

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to: Mr. Bethleham Mines

Street and No.:

P.O., State and ZIP Code: Century, WV 26214

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$

Postmark or Date: 7/27/84 Intent to Plug M-346

BUCKHANNON JUL 27 1984 WV

PS Form 3800, Feb. 1982

P 471 412 159

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to: Frank Williams Sr.

Street and No.: 103 S. Florida St.

P.O., State and ZIP Code: Buckhannon WV

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$

Postmark or Date: 7/27/84 Intent to Plug

BUCKHANNON JUL 27 1984 WV

PS Form 3800, Feb. 1982

P 471 412 160

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to: Mrs. Russie Poling

Street and No.: 95 S. Kanawha Street

P.O., State and ZIP Code: Buckhannon, WV 26201

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$

Postmark or Date: 7/27/84 Intent to Plug M-340

BUCKHANNON JUL 27 1984 WV

PS Form 3800, Feb. 1982

P 471 412 161

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to: Mr. S. Bayard Gum

Street and No.: 5639 Hughes Street

P.O., State and ZIP Code: Oscoda, MI 48750

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$

Postmark or Date: 7/27/84 Intent to Plug M-346

BUCKHANNON JUL 27 1984 WV

Form 3800, Feb. 1982

P 471 412 123

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to: Mr. James LaRosa

Street and No.: 420 Buckhannon Pike

P.O., State and ZIP Code: Clarksburg, WV 26301

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$

Postmark or Date: 7/27/84 Intent to Plug 1806

BUCKHANNON JUL 27 1984 WV

PS Form 3800, Feb. 1982

P 471 412 156

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to: Albert McQuain

Street and No.: 628 Pennsylvania Ave.

P.O., State and ZIP Code: Bridgeport, WV 26330

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$

Postmark or Date: 7/27/84 Plug Intent 1806

BUCKHANNON JUL 27 1984 WV

PS Form 3800, Feb. 1982

12/08/2023

FORM IV-35
(REVERSE)

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

Dowell Water Fractured 9/29/82

1678/82 Squaw 40,000 lbs Sand 415 Bbls. Water

2282/86 Bayard 40,000 lbs Sand 403 Bbls. Water

4065/69 Benson 40,000 lbs Sand 420 Bbls. Water

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill & Loose Rock	0	4'	
Hard & Soft Shale	4'	13'	1¼" stream @ 28'
Sand & Shale	13'	207'	1½" stream @ 90'
Coal	207'	209'	Coal @ 207'
Sand & Shale	209'	585'	½" stream @ 330'
Sand	585'	820'	1½" stream @ 585'
Sand & Shale	820'	922'	
Coal	922'	925'	Coal @ 922'
Sand & Shale	925'	1417'	
Blue Monday	1417'	1486'	
Big Lime	1486'	1556'	
Big Injun	1556'	1685'	
Squaw	1685'	1719'	
Sand & Shale	1719'	2126'	
5th Sand	2126'	2194'	
Sand & Shale	2194'	2285'	
Bayard	2285'	2318'	
Sand & Shale	2318'	2382'	
Elizabeth	2382'	2431'	
Sand & Shale	2431'	2480'	
Warren	2480'	2510'	
Sand & Shale	2510'	3329'	
Bradford	3329'	3367'	
Sand & Shale	3367'	3599'	
Riley	3599'	3653'	
Sand & Shale	3653'	4062'	
Benson	4062'	4099'	
Sand & Shale	4099'	4116' TD	Show

(Attach separate sheets as necessary)

Union Drilling, Inc.
Well Operator

By: Joseph C. Pettey
Joseph C. Pettey, Vice President of Production

Date: Ocotber 7, 1982

12/08/2023

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."

IV-35
(Rev 8-81)

RECEIVED
OCT 29 1982
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 7, 1982
Operator's Well No. 1-1806
Farm UDI-Kuhns #1 (1806)
API No. 47 - 097 - 2483

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

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

LOCATION: Elevation: 1920' Watershed Laurel Run of Little Kanawha River
District: Banks County Upshur Quadrangle Rock Cave

COMPANY Union Drilling, Inc.
ADDRESS P O Drawer 40, Buckhannon WV 26201
DESIGNATED AGENT Union Drilling, Inc.
ADDRESS P O Drawer, Buckhannon WV 26201
SURFACE OWNER Albert McQuain
ADDRESS 628 Pennsylvania Ave., Bridgeport WV 26330
MINERAL RIGHTS OWNER Union Drilling, Inc.
ADDRESS P O Drawer 40, Buckhannon WV 26201
OIL AND GAS INSPECTOR FOR THIS WORK Robert Stewart ADDRESS P O Box 345, Jane Lew WV 26378
PERMIT ISSUED 7/26/82
DRILLING COMMENCED 9/14/82
DRILLING COMPLETED 9/21/82
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"	22'	22'	
9 5/8			
8 5/8	1032.05'	1032.05'	276
7			
5 1/2			
4 1/2	4104.90'	4104.90'	774
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4069 feet
Depth of completed well 4116' feet Rotary x / Cable Tools ___
Water strata depth: Fresh 28', 90', 330', 585' feet; Salt ___ feet
Coal seam depths: 207', 922' Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Squaw Pay zone depth 1682' feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow ------- Bbl/d
Final open flow 70 Mcf/d Final open flow ---------- Bbl/d
Time of open flow between initial and final tests ? hours
Static rock pressure 400 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Bayard Pay zone depth 2286' feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow -------- Bbl/d
Final open flow 70 Mcf/d Oil: Final open flow ---------- Bbl/d
Time of open flow between initial and final tests ? hours
Static rock pressure 400 psig (surface measurement) after 24 hours shut in

12/08/2023

UPS-2483

(Continue on reverse side)

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED

SEP 13 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 097-2483

Oil or Gas Well (KIND) GAS

Company UNION DRILLING

Address BUCKHANNON

Farm VDI-KUHNS

Well No. 1-1806

District BANKS County UPSHUR

Drilling commenced 9-13-82

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
8¼			
6⅝			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 UNION RIG - 11

Remarks:

move RIG SPUD

9-13-82
DATE

Robert Stewart
DISTRICT WELL INSPECTOR

571

12/08/2023

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ Well No._____

COMPANY_____ADDRESS_____

FARM_____DISTRICT_____COUNTY_____

Filling Material Used_____

Liner	Location	Amount	Packer	Location

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

Drillers' Names_____

Remarks:

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

DATE

12/08/2023

_____

DISTRICT WELL INSPECTOR

OG-11

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

RECEIVED
APR 22 1983
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 097-2483

Oil or Gas Well _____
(KIND)

Company UNION DRILLING
Address BUCKHANNON
Farm UDI-KUHNS
Well No. 1-1806
District BANKS County UPSHUR
Drilling commenced 9-13-82
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
8¼			
6⅝			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 _____

Remarks:
PARTIAL BACKFILLED

4-20-83
DATE

Robert Stewart
DISTRICT WELL INSPECTOR

12/08/2023

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ Well No._____

COMPANY_____ ADDRESS_____

FARM_____ DISTRICT_____ COUNTY_____

Filling Material Used_____

Liner	Location	Amount	Packer	Location

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

Drillers' Names_____

Remarks:

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

12/08/2023

_____
DISTRICT WELL INSPECTOR

SUPPLEMENT TO WELL OPERATOR'S REPORT

Date October 7, 1982
Operator's
Well No. 1-1806

Farm UDI-Kuhns #1 (1806)

API NO. 47-097-2483

Third producing formation Benson Pay zone depth 4069'

Gas: Initial open flow Show Mcf/d Oil: Initial open flow -------- Bbl/d

Final open flow 110 Mcf/d Final open flow ---------- Bbl/d

Time of open flow between initial and final tests ? hours

Static rock pressure 400 psig(surface measurement) after 24 hours shut in

Fourth producing formation _____ Pay zone depth _____

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

Final open flow _____ Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig(surface measurement) after _____ hours shut in

Fifth producing formation _____ Pay zone depth _____

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

Final open flow _____ Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig(surface measurement) after _____ hours shut in

Sixth producing formation _____ Pay zone depth _____

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

Final open flow _____ Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig(surface measurement) after _____ hours shut in

FORM IV-4(B) FILE COPY
Obverse
8-83

RECEIVED
JUL 30 1984
OIL & GAS DIVISION
DEPT. OF MINES

1) Date: July 23, 19 84
2) Operator's Well No. 1 - 1806
3) API Well No. 47 - 097 - 2483 -P
State County Permit

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON A WELL

4) WELL TYPE: A Oil ____ / Gas X / Liquid injection ____ / Waste disposal ____ /
B (If "Gas", Production X / Underground storage) ____ / Deep ____ Shallow X /)

5) LOCATION: Elevation: 1920' Watershed: Laurel Run of Little Kanawha River
District: Banks / County: Upshur Quadrangle: Rock Cave (YLK125)

6) WELL OPERATOR Union Drilling, Inc. 50550
Address P. O. Drawer 40
Buckhannon, WV 26201

7) DESIGNATED AGENT Joseph C. Vanzant, Jr. 581
Address P. O. Drawer 40
Buckhannon, WV 26201

8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phil Tracy 636-8798
Address Forest Festival Terrace #24
Elkins, WV 26241

9) PLUGGING CONTRACTOR
Name Union Drilling, Inc.
Address P. O. Drawer 40
Buckhannon, WV 26201

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

0 - 1032' Gel
1032' - 1030' Cement
1030' - 1640' Gel
~~1140' - 1180'~~ Cement
1180' - 1600' Gel
1600' - 1700' Cement
1700' - 2250' Gel
2200' - 2300' Cement
2300' - 4040' Gel
4040' - TD Cement

Estimated casing to be left in well:
1032' cemented in
2955' cemented in

Coal at 207/209'
922/925'

OFFICE USE ONLY

PLUGGING PERMIT

Permit number 47-097-2483-P

August 16, 19 84
Date

This permit covering the well operator and well location shown below is evidence of permission granted to plug 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 24 hours before actual permitted work has commenced.)

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

Permit expires August 16, 1986 unless plugging is commenced prior to that date and prosecuted with due diligence.

Bond: 162 BLANKET	Agent: lp	Plat: MN	Casing	Fee NF

Michael Lewis
Administrator, Office of Oil and Gas

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

File

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

12/08/2023

FORM IV-4(B) **FILE COPY**
(Reverse)

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED PLUGGING

OFFICE USE ONLY

This part of Form IV-4(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date		Date(s)
Application received		Follow-up inspection(s)	
Plugging started		" "	
Plugging completed		" "	
Well Record received		" "	

OTHER INSPECTIONS

Reason: _____

Reason: _____

File

12/08/2023

FORM IV-4 (A)
Obverse
8-83

RECEIVED
JUL 30 1984
OIL & GAS DIVISION
DEPT. OF MINES

1) Date: July 23 1984
2) Operator's Well No. 1 - 1806
3) API Well No. 47 - 097 - 2483-P
State County Permit

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS, DEPARTMENT OF MINES
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

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

(i) Name Albert McQuain
Address 628 Pennsylvania Avenue
Bridgeport, WV 26330

(ii) Name
Address

(iii) Name
Address

5(i) COAL OPERATOR
Address

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name James LaRosa
Address 420 Buckhannon Pike
Clarksburg, WV 26301

Name
Address

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 to Plug and Abandon a Well on Form IV-4(B), which sets out the parties involved in the work, and describes the well and its location and the plugging work order; and
(2) The plat (surveyor's map) showing the well location on Form IV-6.

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-4(B)) 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 Permit to plug and abandon a well with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to the well at the location described on the attached Application and depicted on the attached Form IV-6. Copies of this Notice, the Application, and the plat 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.

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

Joseph C. Pettey

this 23 day of July, 1984.
My commission expires March, 1991.

A. Bradford Zimmerman
Notary Public, Upshur County,
State of West Virginia

WELL OPERATOR UNION DRILLING, INC.

By Joseph C. Pettey
Its Joseph C. Pettey, Vice President Of Production
Address P. O. Drawer 40
Buckhannon, WV 26201

Telephone 472-4610

12/08/2023

ORM IV-4(A)
everse

INSTRUCTIONS TO APPLICANT

ONCERNING 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 § 22-4-1m(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.

ONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and two copies the Application must be filed with the Administrator, accompanied by (i) an original d four copies of the Notice, (ii) an original and four copies of a plat in the form escribed by Regulation 11, and (iii) a bond in one of the forms prescribed by Regulation , or in lieu thereof the other security allowed by Code § 22-4-9.

Service. In addition, service must be made on the surface owner(s) and the person(s) th an interest in the coal. See Code §§ 22-4-1m and 22-4-9.

12/08/2023

FORM OG-8

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

James LaRosa
COAL OPERATOR OR OWNER

420 Buckhannon Pike, Clarksburg, WV 26330
ADDRESS

COAL OPERATOR OR OWNER

ADDRESS

Union Drilling,Inc.
LEASE OR PROPERTY OWNER

P.O. Drawer 40, Buckhannon, WV 26201
ADDRESS

Union Drilling, Inc.
NAME OF WELL OPERATOR

P.O. Drawer 40, Buckhannon, WV 26201
COMPLETE ADDRESS

August 29, 19 85

WELL AND LOCATION

Banks District

Upshur County

Well No. 1806

UDI-Kuhns #1 Farm

STATE INSPECTOR SUPERVISING PLUGGING Phil Tracy

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Upshur } ss:

Richard E. Aldridge and

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Union Drilling, Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 29 day of August, 19 85, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD	FILLING MATERIAL	PLUGS USED	CASING	
FORMATION		SIZE & KIND	CSG PULLED	CSG LEFT IN
925/1025	cement	100' plug	1025'	3079' 4 1/2"
1625/1675	cement	75' plug		1032' 8 5/8"
1675	mechanical bridge plug			
4000/4100	cement	100' plug		
COAL SEAMS	207/209, 922/925'	DESCRIPTION OF MONUMENT		
(NAME)				
(NAME)				
(NAME)				
(NAME)				

10/3/85

and that the work of plugging and filling said well was completed on the 29 day of August, 19 85.

And further deponents saith not.

Richard Aldridge

12/08/2023

Sworn to and subscribed before me this 4 day of September, 19 85.

A. Bradford Zimmerman
Notary Public.

My commission expires:
March 3, 1991

Permit No. 47-097-2483-P

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
A. Bradford Zimmerman
P.O. Drawer 40, Buckhannon 26201
Commission expires March 3, 1991

USI 2483-P

IR-26
Obverse

8-16-84

INSPECTOR'S PERMIT SUMMARY FORM

WELL TYPE_____ API# 47- 97 - 2483 - P

ELEVATION_____ OPERATOR Union Drilling

DISTRICT Banks TELEPHONE_____

QUADRANGLE_____ FARM Maquain

COUNTY Upshur WELL # 1-1806

SURFACE OWNER_____ COMMENTS_____ TELEPHONE_____

TARGET FORMATION_____ DATE APPLICATION RECEIVED_____

DATE STARTED
LOCATION_____ NOTIFIED_____ DRILLING COMMENCED_____

WATER DEPTHS_____, _____, _____, _____

COAL DEPTHS _____, _____, _____, _____

CASING

Ran_____feet of _____"pipe on_____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 4-11-86

Phillip Scogy
Inspector's signature

IR-26
Reverse

API# 47_____-_____

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes

12/08/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS
1615 Washington Street, East
Charleston, West Virginia 25311
Telephone: 348-3500

ARCH A. MOORE, JR.
Governor

John Johnston
Director

April 21, 1986

Union Drilling Incorporated
Post Office Drawer 40
Buckhannon, West Virginia 26201

In Re: Permit No: 47-097-2483-P
Farm: Albert McQuain
Well NO: 1-1806
District: Banks
County: Upshur
Issued: 8-16-84

Gentlemen:

The FINAL INSPECTION REPORT for the above captioned well has been received in this office. ONLY the Column checked below applies:

XXXX The well designated by the above captioned permit number has been released under your Blanket Bond.

____ Please return the enclosed cancelled single bond which covered the well designated by the above captioned permit number to the surety company that executed said bond in your behalf, in order that they may give you credit on their records.

____ Your well record was received and reclamation requirements approved. In accordance with Chapter 22B, Article 1, Section 26, the above captioned well will remain under bond coverage for life of the well.

Respectively,

Theodore M. Streit
Deputy Director--Inspection & Enforcement

TMS/ nw

12/08/2023

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

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

July 18, 1983

Union Drilling, Inc.
P. O. Drawer 40
Buckhannon, W. Va. 26201

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

PERMIT NUMBER	FARM AND WELL NUMBER	DISTRICT
UPS-1842-REN.	Tressie Allman, #1-1453	Banks
UPS-2444	Teal Queen, #1-1623	Warren
UPS-2448	Pansie & Orville Smallwood, #1-1582	Banks
UPS-2453	Thomas L. Stockert, #1-1600	Banks
UPS-2473	Ernest Samples, #2-1815	Banks
UPS-2483	Helen M. Kuhns, #1-1806	Banks
UPS-2500	Woody Lumber Company, #1-1667	Washington
UPS-2506	Patricia J. Pietro, #1-1832	Banks
UPS-2510	Lucile W. Mearns, #2-1740	Banks
UPS-2519	Retha A. Reynolds, #1-1614	Banks
UPS-2521	Burnside-UDI, #1-1844	Banks

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.....

Very truly yours,

Theodore M. Streit, Administrator
Office of Oil & Gas-Dept. Mines

TMS/

12/08/2023

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
JUL - 5 1983
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 097-2483

Oil or Gas Well _____ (KIND)

Company UNION DRILLING

Address _____

Farm UDI-KUHNS

Well No. 1-1806

District BANKS County UPSHUR

Drilling commenced _____

Drilling completed 9-22-82 Total depth 4100

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
8¼			
6⅝			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 _____

Remarks:

O.K. To Release

7-1-83
DATE

Robert Stewart
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ Well No._____

COMPANY_____ ADDRESS_____

FARM_____ DISTRICT_____ COUNTY_____

Filling Material Used_____

Liner	Location	Amount	Packer	Location

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

Drillers' Names_____

Remarks:

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

_____
DISTRICT WELL INSPECTOR

12/08/2023

FERC-121

OCT 22 1982
OIL & GAS DIVISION
DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	47-097-2483
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA; n/a Category Code
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4069 feet
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Union Drilling, Inc. (Name) 019434 (Seller Code) P. O. Drawer 40 (Street) Buckhannon, (City) WV (State) 26201 (Zip Code)
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Banks District (Field Name) Upshur (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.)	UDI-Kuhns #1 1806
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corp. (Name) 004030 (Buyer Code)
(b) Date of the contract:	Mo. Day Yr.
(c) Estimated annual production:	Not in Production yet 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.)	2.686	—.—	—.—	2.686
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.686	—.—	—.—	2.686

9.0 Person responsible for this application:

Joseph C. Pettey, Vice President of Production
Name Title

Joseph C. Pettey
Signature

10/21/82
Date Application is Completed

(304)472-4610
Phone Number

Agency Use Only
Date Received by Juris. Agency
Date Received by FERC OCT 22 1982

FT7900806/2-2

12/08/2023

PARTICIPANTS: DATE: FEB 14 1983

BUYER-SELLER CO

WELL OPERATOR: Union Drilling, Inc. 019434

FIRST PURCHASER: Columbia Gas Trans. Corp. 00403 0

OTHER:

1500'

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
821022-103-097-2483
Use Above File Number on all Communications
Relating to Determination of this Well

Qual Rell

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

1. FERC -121 ✓ Items not completed - Line No. 7.0 + 8.0 b,c
2. IV-1 Agent ✓ Joseph C. Petty
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: 9-14-82 Date completed 9-21-82 Deepened -

(5) Production Depth: 1682, 2286

(5) Production Formation: Squaw, Bayard

(5) Final Open Flow: 70 MCF

(5) After Frac. R. P. 400# 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 Repor

(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? _____

12/08/2023

73

FORM IV-54WC
(12-78)

Date October 21, 1982

Operator's Well No. 1 - 1806

API Well No. 47 - 097 - 2483
State County Permit

STATE OF WEST VIRIGNIA

DEPARTMENT OF MINES,

OIL AND GAS DIVISION

WELL CLASSIFICATION FORM

NEW ONSHORE PRODUCTION WELL

NGPA Section 103

DESIGNATED AGENT Union Drilling, Inc.

ADDRESS P. O. Drawer 40

Buckhannon, WV 26201

WELL OPERATOR Union Drilling, Inc.

ADDRESS P. O. Drawer 40

Buckhannon, WV 26201

LOCATION: Elevation 1920'

Watershed Laurel Run of Little Kanawha Rv.

Dist. Banks County Upshur Quad. Rock Cave

GAS PURCHASER Columbia Gas Transmission Corp.

ADDRESS P. O. Box 1273

Charleston, WV 25325

Gas Purchase Contract No.

Meter Chart Code

Date of Contract

****

Date surface drilling was begun 9/14/82

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

P = rock pressure of 400 psia
L = depth to perforations 4068 feet
G = gas gravity .635
Avt T = .007 x L + 525

BHP = P x e (G x L / 53.34 x Avg T) or 435 psia

AFFIDAVIT

I, Joseph C. Pettey, 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 commerical 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.

Joseph C. Pettey, Vice President of Production

STATE OF WEST VIRGINIA,

COUNTY OF UPSHUR, TO WIT

I, Sharon L. Kelley, a Notary Public in and for the state and county aforesaid, do certify that Joseph C. Pettey, whose name is signed to the writing above, bearing date the 21st day of October, 19 82, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 21st day of October, 19 82.

My term of office expires on the 22nd day of May, 19 89.

12/08/2023

(NOTARIAL SEAL)

Notary Public

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47-097-2483
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA; 3 Category Code
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4067' feet
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Union Drilling, Inc. (Name) 019434 (Seller Code) P.O. Drawer 40 (Street) Buckhannon, (City) WV (State) 26201 (Zip Code)
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Banks District (Field Name) Upshur (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.)	UDI-Kuhns #1 1806
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Trans. Corp. (Name) 004030 (Buyer Code)
(b) Date of the contract:	Mo. Day Yr.
(c) Estimated annual production:	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.)	—.—	—.—	—.—	—.—

9.0 Person responsible for this application:

Joseph C. Pettey, Vice President of Production (Name, Title)

Joseph C. Pettey (Signature)

JUN 17 1983 (Date Application is Completed)

(304) 472-4610 (Phone Number)

Agency Use Only

Date Received by Juris. Agency: JUN 21 1983

Date Received by FERC

12/08/2023

FERC-121/06/2-2

PARTICIPANTS: DATE: OCT 26 1983 BUYER-SELLER CODE

WELL OPERATOR: Union Drilling, Inc. 019434

FIRST PURCHASER: Columbia Gas. Trans. Corp. 004030

OTHER:

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
830621-107-097-~~2485~~ 2483
Use Above File Number on all Communications
Relating to Determination of this Well

QUALIFIED
BAyard, Benson only

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

1. FERC -121 / Items not completed - Line No. 7.0 + 8.0 Deregulated
2. IV-1 Agent / Joseph C. VanZant
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: 9-14-82 Date completed 9-21-82 Deepened —

(5) Production Depth: 1682, 2286

(5) Production Formation: Squaw Bayard

(5) Final Open Flow: 50 MCF

(5) After Frac. R. P. 400# 24hrs

(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 Repor

(5) Oil Production: — From Completion Report —

10-17. Does lease inventory indicate enbanced recovery being done NO

10-17. Is affidavit signed? ____ Notarized? ____

Does official well record with the Department confirm the submitted information? yes 12/08/2023

Additional information ____ Does computer program confirm? ____

Was Determination Objected to ____ By Whom? ____

7B

FORM IV-55WC
(12-78)

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

Date June 8, 1983

Operator's
Well No. 1806

API Well No.

47 - 097 - 2483
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107

DESIGNATED AGENT Joseph C. Vanzant, Jr.

ADDRESS P. O. Drawer 40
Buckhannon, WV 26201

LOCATION Elevation 1920'

Watershed Laurel Run of Little Kanawha River

Dist. Banks County Upshur Quad. Rock Cave

Gas Purchase
Contract No. Being Prepared

Meter Chart Code 6R20123

Date of Contract

WELL OPERATOR Union Drilling, Inc.

ADDRESS P. O. Drawer 40
Buckhannon, WV 26201

GAS PURCHASER Columbia Gas Trans. Corp.

ADDRESS P. O. Box 1273
Charleston, WV 25325

* * * * * * * *

Date surface drilling began: 09/14/82

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

BHP = P x e (G x L / 53.34 x Avg T)

P = 400 psia
L = 4067 feet
G = .635
Avg T = .007 x L + 525
BHP = 435.087 psia

AFFIDAVIT

I, Joseph C. Pettey, 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.

Joseph C. Pettey
Joseph C. Pettey, Vice President of Prod.

STATE OF WEST VIRGINIA

COUNTY OF Upshur, TO-WIT:

I, Sharon L. Stalnaker, a Notary Public in and for the state and county aforesaid, do certify that Joseph C. Pettey, whose name is signed to the writing above, bearing date the 8 day of June, 1983, has acknowledged the same before me, in my county aforesaid.

12/08/2023

Given under my hand and official seal this 8th day of June, 1983.
My term of office expires on the 22nd day of May, 1989.

SHARON L. KELLEY NOTARY PUBLIC UPSHUR COUNTY, W. VA.

(NOTARIAL SEAL)

Sharon L. Stalnaker
Notary Public

COMMISSIONED AS
SHARON L. KELLEY

UNION DRILLING, INC. Drawer 40 Buckhannon, WV 26201

DRILLING CONTRACTO
PRODUCERS OF OIL A

DEVONIAN SHALE QUALIFICATION CALCULATION

1. Calculation of thickness of Devonian Interval:

   Bottom of Devonian Interval 4158 ft.

   Top of Devonian Interval 2122 ft.

   Thickness of Devonian Interval 2036 ft.

2. Calculation of 0.7 Gamma Ray Index:

   Shale Base Line 0-250 Scale / 60-210 Scale
   221.69 / 178.06 API Units

   0.7 Gamma Ray Index
   70% of Shale Base Line = 0-250 / 60-210
   155.17 / 124.64 API Units

3. Calculation of Disqualifying Footage:

   2036 ft. X 5% = 101.80 ft.

4. Actual footage < 0.7 Gamma Ray Index = 91.00 ft.

Using the above calculations, the UDI-Kuhns #1 - 1806
well qualifies as Devonian Shale. 47-097-2483

By

Sworn to and acknowledged before me by George R. Dasher,
this 8th day of June, 1983.

Sharon L. Stalnaker
Notary Public

SHARON L. KELLEY NOTARY PUBLIC UPSHUR COUNTY

My commission expires: the 22nd day
of May, 1989.

COMMISSIONED AS
SHARON L. KELLEY

12/08/2023

FERC Volumetric Percentage Calculations

12/08/2023

Gas In Place = 43.56 x A x H x Phi x (1 - Sw) x Bg x R

Where : A = Drainage Area in Acres
H = Net Pay Thickness
Phi = Porsity
Sw = Water Saturation

$$Bg = \frac{\text{Reservoir Pressure} - \text{Abandonment Pressure}}{14.731}$$

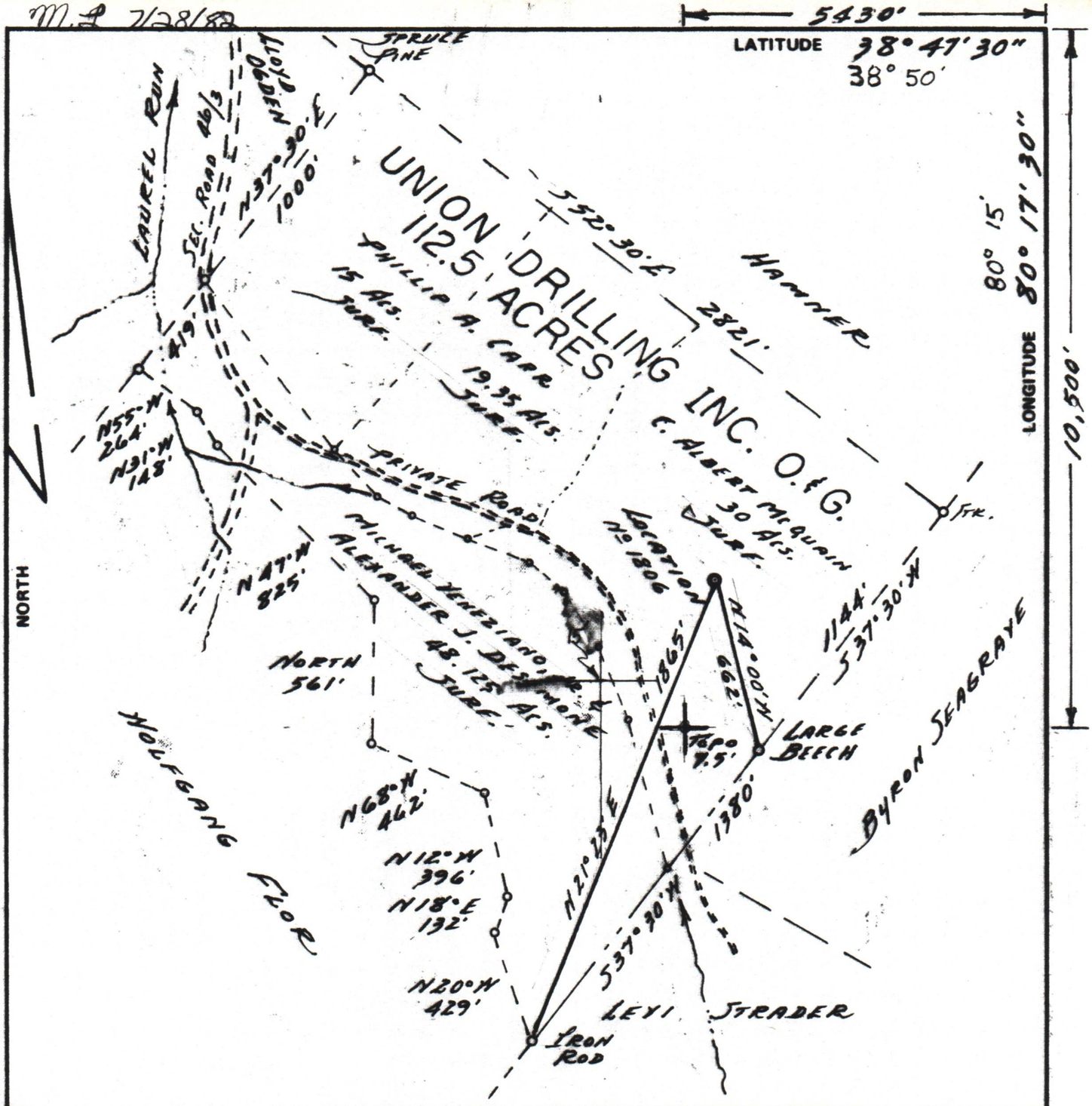
R = Recovery Factor

Estimation For Well Number WVG01806 API 47-097-2483

Formation	Form. Top (ft)	Thickness (ft)	Porosity (%)	Sw (%)	Res. Press (psi)	Aban. Press (psi)	Recovery (%)	Gas-In-Place (MCF)	Flow Percent (%)
SQUAW	1679.0	11.0	5.6	58.5	602	65	75	24,369	18.55
BAYARD	2285.0	18.0	6.0	58.2	814	83	75	58,566	44.59
BENSON	4077.0	9.0	5.6	58.5	1442	137	75	48,415	36.86
						Total Gas-In-Place		131,349	

Assumed Drainage Area is 80 Acres.

M.L. 7/28/82



FILE NO. UDI-2-64
DRAWING NO. 88-22
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION Jct. Roads 4200' N.W. of Loc. El. 1741

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) Thomas F. Weaver, Jr.
R.P.E. _____ L.L.S. 410

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE July 23, 19 82
OPERATOR'S WELL NO. 1-1806
API WELL NO.
47 - 097 - 2483-P
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL ___ GAS ✓ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ✓ STORAGE ___ DEEP ___ SHALLOW ✓
LOCATION: ELEVATION 1920 WATER SHED Laurel Run of Little Kanawha River
DISTRICT Banks COUNTY Upshur
QUADRANGLE Rock Cave
SURFACE OWNER C. Albert McQuain ACREAGE 30
OIL & GAS ROYALTY OWNER Union Drilling, Inc. LEASE ACREAGE 112.5
LEASE NO. Deed - "Kuhns Tract"
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 X CLEAN OUT AND REPLUG ___
TARGET FORMATION Benson ESTIMATED DEPTH 3800'
WELL OPERATOR Union Drilling Inc. DESIGNATED AGENT Union Drilling, Inc.
ADDRESS P.O. Drawer 40 ADDRESS P.O. Drawer 40
Buckhannon, W.Va. 26201 Buckhannon, W.Va. 26201

12/08/2023

H. T. HALL FORM IV-6 (8-78)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS
1615 Washington Street, East
Charleston, West Virginia 25311
Telephone: 348-3500

ARCH A. MOORE, JR.
Governor

OOG-273-SM

10 September 1985

Mr. Joseph C. Petty
Vice President of Production
Union Drilling, Inc.
Post Office Drawer 40
Buckhannon, West Virginia 26201

Re: Plugging Affidavits for Wells Number 1806 and 1926

Dear Mr. Petty:

The above referenced plugging affidavits are being returned to you as they are incomplete and/or do not correspond with information submitted on the well record.

The affidavit for well number 1806 does not show whether the 8 5/8 inch casing was pulled or left in the well. The 4 1/2 inch casing also does not correspond with the well record which shows 4104 feet of 4 1/2 inch casing was put in the well but only 1200 feet pulled and 1396 feet left in the well totalling 2396 feet.

The affidavit for well number 1926 is incomplete and should show if the 8 5/8 inch casing was pulled or left in the well.

Please have the necessary corrections or additions made and resubmit at your earliest convenience. Should you have any questions, please feel free to contact me.

Sincerely,

Michael W. Lewis

Michael W. Lewis, Engineer
Division of Oil and Gas

MWL:skm

12/08/2023