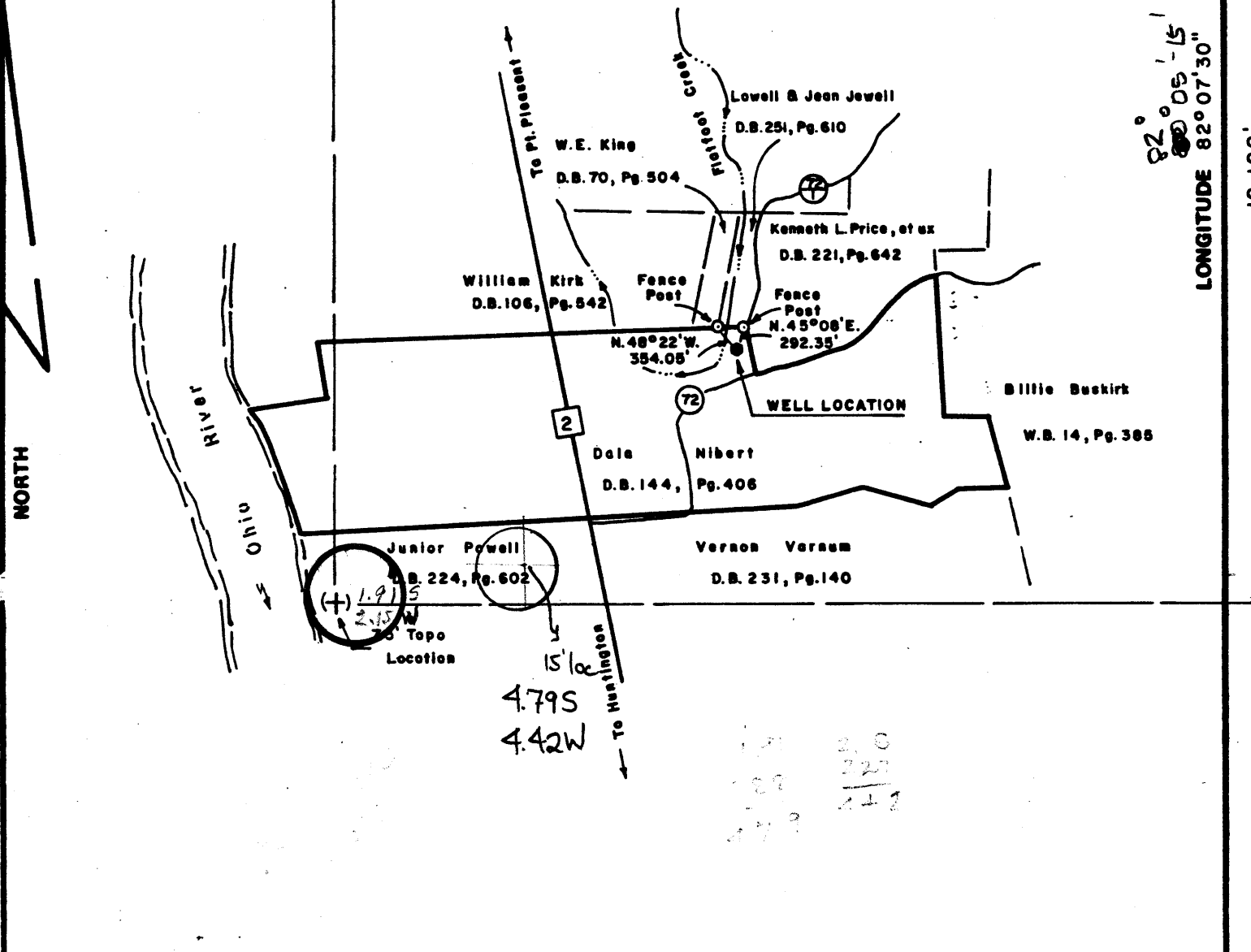


LATITUDE 38°42'30"
38°45' - 15"

LONGITUDE 82°07'30"
82°09' - 15"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2,000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION NGS B.M. "G-118"
 Elev. = 579.851

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) Ronald L. Smith
 R.P.E. _____ L.L.S. 150



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



DATE Oct. 16, 19 81
 OPERATOR'S WELL NO. 1738-6
 API WELL NO. 47 - 053 - 0269
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 564.70 WATERSHED Flatfoot Creek
 DISTRICT Clendenin COUNTY Mason
 QUADRANGLE Apple Grove Stemwood 15 C
 SURFACE OWNER Dale Nibert ACREAGE 452
 OIL & GAS ROYALTY OWNER Dale Nibert LEASE ACREAGE 452
 LEASE NO. _____
 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 Tuscarora ESTIMATED DEPTH 5,500' 5-5 unnamed (6)
 WELL OPERATOR Union Drilling, Inc. DESIGNATED AGENT Joseph C. Petty offices Mason 265
 ADDRESS Drawer 40 ADDRESS Drawer 40
 Buckhannon, WV 26201 Buckhannon, WV 26201



IV-35
(Rev 8-81)

RECEIVED

NOV 29 1983

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date November 1, 1983

Operator's

Well No. 1 - 1738

Farm Dale Nibert

API No. 47 - 053 - 0269

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

CORRECTED

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

LOCATION: Elevation: 564.70 Watershed Flatfoot Creek
District: Clendenin County Mason Quadrangle Apple Grove

COMPANY Union Drilling, Inc.

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

DESIGNATED AGENT Joseph C. Vanzant, Jr.

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

SURFACE OWNER Dale Nibert

ADDRESS Apple Grove, W V 25502

MINERAL RIGHTS OWNER Dale & Nancy Nibert

ADDRESS Apple Grove, WV 25502

OIL AND GAS INSPECTOR FOR THIS WORK

Jerry Tapbaloh ADDRESS Rt. #1, Box 101A Ripley, WV 25271

PERMIT ISSUED August 16, 1983

DRILLING COMMENCED 08/23/83

DRILLING COMPLETED 08/30/83

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	Corent fill up Cu. ft.
Size 20-16 Cord.			
13-10"			
9 5/8	300.25	300.25	153 cf
8 5/8			
7	1911.05 690.85	690.85	35 cf
5 1/2			
4 1/2	3317.25	3317.25	158 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3352 feet

Depth of completed well 3352 feet Rotary x ___ / Cable Tools ___

Water strata depth: Fresh none feet; Salt 620' and 1340' feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 2978' feet

Gas: Initial open flow show Mcf/d Oil: Initial open flow ___ Ebl/d

Final open flow 158 Mcf/d Final open flow ___ Ebl/d

Time of open flow between initial and final tests ? hours

Static rock pressure 715 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 _____ 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

DEC 14 1983

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

On 09/07/83 Halliburton Foam Fractured the Devonian Shale
with 45,000# sand, 274 BBL Water and 942,000 SCF Nitrogen

40 shots between 2333 and 2978 (Perforated)

2333/2389 upper Huron Dev.
2712/2978 Lower Huron

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fres and salt water, coal, oil and ca
Top Soil			0	3	Water 620' 1 1/2 salt
Gravel			3	55	Water 1340' 3-4"
Sand and shale			55	1086	
Big Lime			1086	1232 ✓	from 88-5" Gd.
Sand and Shale			1232	1806	
Berea			1806	1837 ✓	
Devonian Shale			1837	3310	
Onondaga Limestone			3310	TD 3352	
					3352
					1837
					1515
					42
					1473 top on on → Berea.
					from GP 100 - e) 575' 48"
					Up Day 1030 (640 803)
					41 240 2900 (350)
					I 2000 - 2000 0000
					R 2000 110 118
					HO 2210 - 3310 (100)
					DO 2010 -

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: *Joseph C. Petty*

Joseph C. Petty
Vice President of Prod.

Date: November 1, 1983

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 ... encountered in the drilling of a well."



1) Date: July 18, 1983
 2) Operator's Well No. 1 - 1738
 3) API Well No. 47 - 053- 0269-Ren
 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 564.70 Watershed: Flatfoot Creek
 District: Clendenin County: Mason Quadrangle: Apple Grove
- 6) WELL OPERATOR Union Drilling, Inc. 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address P. O. Drawer 40 Address P. O. Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Kenneth Butcher 736-4885 Name Union Drilling, Inc.
 Address RFD #1 Address P. O. Drawer 40
Barboursville, WV 25504 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 12) Estimated depth of completed well, 3500 feet
- 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes _____ / No X /
- 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		Kinds	Sizes
Conductor	9 5/8		36#	X		300	300	to surface		
Fresh water										
Coal										
Intermediate	7		20#	X		2250	2250	400 sks.		
Production	4 1/2		10.5#	X			3500	350 sks. or	Depths set	
Tubing								as required		
Liners									Perforations:	
									Top	Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-053-0269-Ren Date August 16 1983

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. August 16, 1985
 Permit expires _____ unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>OK</u>	Plat: <u>BB</u>	Casing: <u>BB</u>	Fee: <u>7189</u>
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Michael Jarvis
 Administrator, Office of Oil and Gas

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

File

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

Operator's Well No. 1 - 1738

API Well No. 47 - 053 - 0269

State County Permit

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

Dale Nibert #1 (1738)

OIL AND GAS WELL PERMIT

WELL TYPE: Oil _____ / Gas X /
(If "Gas", Production XX / Underground storage _____ / Deep XX / Shallow _____ /)

LOCATION: Elevation: 564.70' Watershed: Flatfoot Creek
District: Clendenin County: Mason Quadrangle: Apple Grove

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

OIL & GAS ROYALTY OWNER Dale W. & Nancy Nibert
Address Apple Grove, WV 25502

COAL OPERATOR _____
Address _____

Acreage 452

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Dale & Nancy Nibert
Address Apple Grove, WV 25502

Name Same as O/G and Surface
Address (FEE SIMPLE TITLE)

Acreage 452

Name _____
Address _____

FIELD SALE (IF MADE) TO:

Address Not Determined at this time

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____

OIL & GAS INSPECTOR TO BE NOTIFIED

Name Kenneth Butcher (736-4885)
Address RFD #1
Barboursville, WV 25504

Address WV - 2 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Cyclops Lease #C-2-590

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease X other contract _____ / dated May 23, 19 79, to the undersigned well operator from Dale W. & Nancy Nibert to Cyclops Corporation and assigned to UDI
(IF said deed, lease, or other contract has been recorded:)

Recorded on July 3, 19 79, in the office of the Clerk of the County Commission of Mason County, West West, in O/G Book 46 at page 38. 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

BLANKET BOND

UNION DRILLING, INC.
Well Operator
By Joseph C. Pettey
Its Joseph C. Pettey, VP of Production

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, Tuscarora

Estimated depth of completed well, 5500 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			New		Used		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well				
Conductor	11 3/4"			x		300'	300'			to surface	Kinds
Fresh Water											
Coal											Sizes
Intermediate	8 5/8"		23#	x		2000'	2000'			to surface	
Production	4 1/2"		10 1/2#	x			5400'			500 sks. or as req. by rule 15.01.	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, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 7-4-82.

[Signature]
Deputy Director - Oil & Gas Division

[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.

WAIVER

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: , 19

By

Its