



1) Date: August 1, 1983
 2) Operator's Well No. 1 - 1915
 3) API Well No. 47 - 053 - 0302
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 579.14 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 / Drill deeper / Redrill / Stimulate /
 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 /
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling			Left in well
Conductor	9 5/8		36#	x		300	300	to surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	7		20#	x		2250	2250	400 sks.	
Production	4 1/2		10.5#	x			3500	350 sks. or as required	Depths set
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-053-0302

Date August 17 19 83

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 17, 1985
 Permit expires _____ unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee: <u>7552</u>
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Administrator, Office of Oil and Gas

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



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) WELL LOCATION: B (If Gas Production) _____, Elevation: _____, District: _____, County: _____, Address: _____, City: _____, State: _____, Zip: _____

2) WELL OPERATOR: _____, Address: _____, City: _____, State: _____, Zip: _____

3) DRILLING CONTRACTOR: _____, Address: _____, City: _____, State: _____, Zip: _____

4) APPROXIMATE COST PER FOOT: _____

5) APPROXIMATE TOTAL COST: _____

6) ESTIMATED DEPTH OF COMPLETED WELL: _____

7) APPROXIMATE TIME REQUIRED TO DRILL: _____

8) APPROXIMATE TIME REQUIRED TO COMPLETE WELL: _____

9) APPROXIMATE COST PER FOOT: _____

10) APPROXIMATE TOTAL COST: _____

11) APPROXIMATE TIME REQUIRED TO DRILL: _____

12) APPROXIMATE TIME REQUIRED TO COMPLETE WELL: _____

13) APPROXIMATE COST PER FOOT: _____

14) APPROXIMATE TOTAL COST: _____

15) APPROXIMATE TIME REQUIRED TO DRILL: _____

16) APPROXIMATE TIME REQUIRED TO COMPLETE WELL: _____

17) APPROXIMATE COST PER FOOT: _____

18) APPROXIMATE TOTAL COST: _____

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

_____	_____	_____	_____	_____
-------	-------	-------	-------	-------

08/25/2023

1) Date: August 1 1983
 2) Operator's Well No. 1 - 1915
 3) API Well No. 47 State County Permit

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

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A. Oil ___ / Gas x /
 B. (If "Gas", Production x / Underground storage ___ / Deep ___ / Shallow x /
- 5) LOCATION: Elevation: 579.14 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 (or actual depth of existing well), 3500 feet
 13) Approximate water strata 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			
Conductor	9 5/8		36#	x		300	300	to surface	Kinds	
Fresh water										
Coal									Sizes	
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

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application (or less than 5 days if the Application is to plug a well), if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

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

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: _____

 (Signature) Date: _____

By _____

 (Signature) Date: _____

Its _____ Date: _____

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 08/25/2023
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INSTRUCTIONS TO SURFACE OWNERS
AND
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT
ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) Permit will be good for 24 months. See Chapter 22, Article 4 of the W. Va. Code.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas
West Virginia Department of Mines
1615 Washington Street East
Charleston, WV 25311
(304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be personally served or mailed to you on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. (This time is changed to FIVE (5) DAYS from the filing date if the permit is only to plug a well.) You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments should include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the Application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

08/25/2023

[Faint stamp and handwritten notes at the bottom left of the page]



IV-9
(Rev 8-81)

DATE July 27, 1983

WELL NO. 1915

State of West Virginia

API NO. 47-053-0302

Department of Mines

Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Union Drilling, Inc.

DESIGNATED AGENT Joseph C. Vanzant, Jr.

Address P O Drawer 40, Buckhannon W V 26201

Address P O Drawer 40, Buckhannon W V 26201

Telephone (304) 472-4610

Telephone (304) 472-4610

LANDOWNER William E. Kirk

SOIL CONS. DISTRICT Western

Revegetation to be carried out by Union Drilling, Inc. Joseph C. Pettey VP (Agent)

This plan has been reviewed by Western SCD. All corrections and additions became a part of this plan: July 28, 1983 (Date)

Ledie Rayburn
(SCD Agent)

ACCESS ROAD

Structure 12" CMP culvert w/rip rap (A)

Spacing At Route 2

Page Ref. Manual 1:8

Structure Ditch relief cross drain (B)

Spacing Only one is needed

Page Ref. Manual 1:6

Structure Roadway ditch (C)

Spacing As needed

Page Ref. Manual _____

LOCATION

Structure Drill pit (1)

Material Earth

Page Ref. Manual _____

Structure _____ (2)

Material _____

Page Ref. Manual _____

Structure _____ (3)

Material _____

Page Ref. Manual _____

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AUG - 2 1983
OIL & GAS DIVISION
DEPT. 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 Hay or straw 2 Tons/acre

Seed* Orchard grass 30 lbs/acre

Red clover 4 lbs/acre

Ladino clover 2 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 Hay or straw 2 Tons/acre

Seed* Orchard grass 30 lbs/acre

Red clover 4 lbs/acre

Ladino clover 2 lbs/acre

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

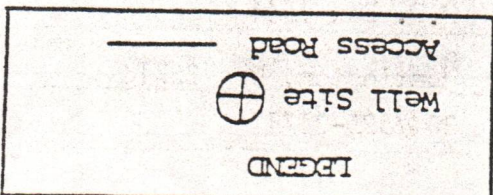
PLAN PREPARED BY Ronald L. Eastham & Associates

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

ADDRESS P.O. Box 1544 **08/25/2023**
Huntington, WV 25716
PHONE NO. 304/525-3171

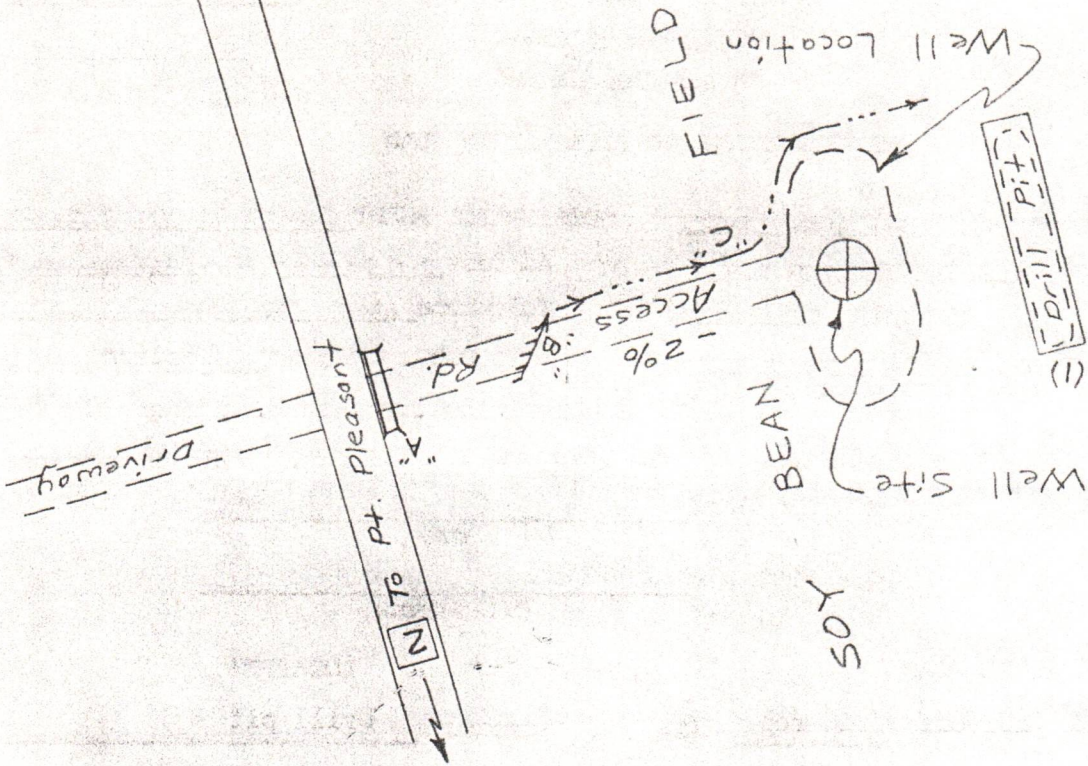
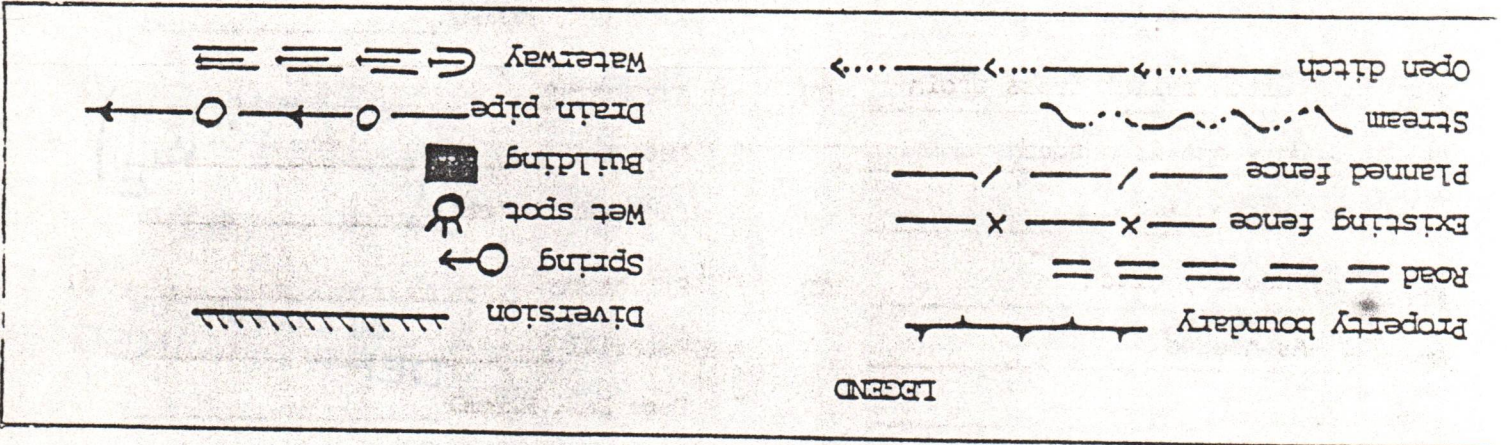
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Apple Grove, WV

08/25/2023



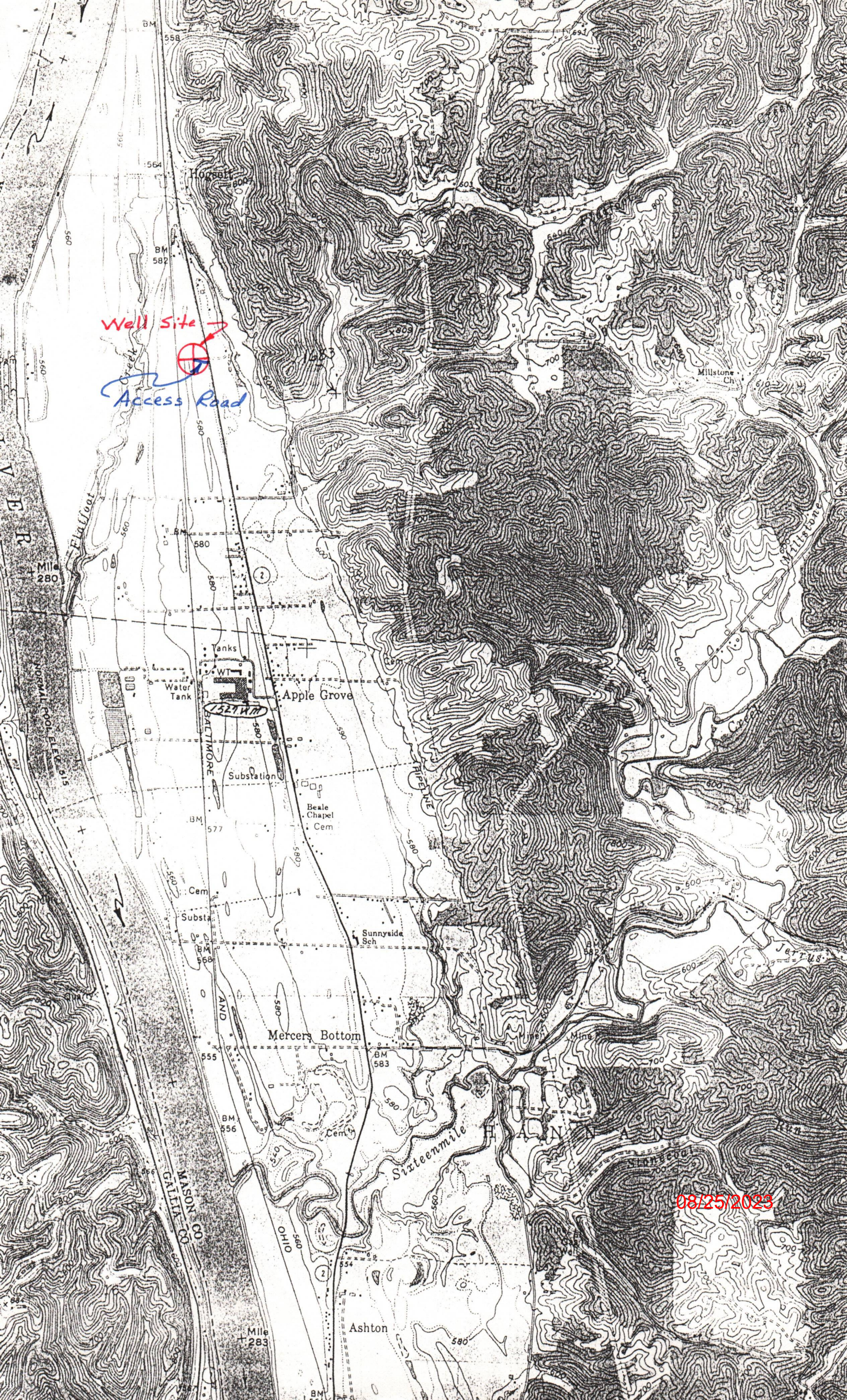
WELL SITE PLAN

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



B. & O.

Well Site
Access Road



08/25/2023

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book</u>	<u>Page</u>
W. E. Kirk (single)	Cyclops Corp.	1/8th	44	722
Cyclops Corp.	Union Drilling, Inc.		49	507

1) Date: August 1, 1983
2) Operator's Well No. 1 - 1915
3) API Well No. 47
State County Permit

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

4) SURFACE OWNER(S) OF RECORD TO BE SERVED
(i) Name W. E. Kirk (Single)
Address Gallipolis Ferry, WV 25515
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5 (i) COAL OPERATOR _____
Address _____
5 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name W. E. Kirk
Address Gallipolis Ferry, WV 25515
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 for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

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

7) ROYALTY PROVISIONS
Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No XX

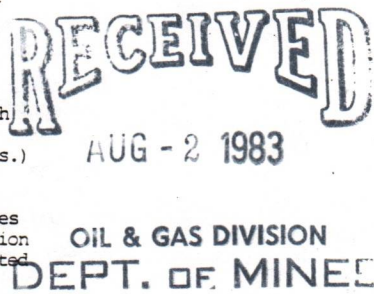
If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by
Joseph C. Pettey,
this 1st day of August, 1983.
My commission expires May 22, 1989.
Sharon L. Kelley
Notary Public, Upshur County,
State of West Virginia

WELL OPERATOR UNION DRILLING, INC.
By Joseph C. Pettey
Its Joseph C. Pettey, Vice President of
Address P. O. Drawer 40 Production
Buckhannon, WV 26201
Telephone (304) 472-4610

COMMISSIONED AS
SHARON L. KELLEY



08/25/2023

PS Form 3811, July 1982

SENDER: Complete Items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

- 1. The following service is requested (check one).
 - Show to whom and date delivered ¢
 - Show to whom, date, and address of delivery .. ¢
- 2. RESTRICTED DELIVERY ¢
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ _____

3. ARTICLE ADDRESSED TO:
Mr. W. E. Kirk
Gallipolis Ferry, WV 25515

4. TYPE OF SERVICE:	ARTICLE NUMBER
<input type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED	P 311 719 134
<input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> COD	
<input type="checkbox"/> EXPRESS MAIL	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE Addressee Authorized agent

8-2-83
5. DATE OF DELIVERY



6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE:

7a. EMPLOYEE'S INITIALS
B.D.E.

RETURN RECEIPT

1915
W.E. Kirk #1

* GPO: 1982-379-583

P 311 719 134

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

SENT TO		
Mr. W. E. Kirk		
STREET AND NO.		
P.O., STATE AND ZIP CODE		
Gallipolis Ferry, WV 25515		
POSTAGE		\$
CERTIFIED FEE		c
SPECIAL DELIVERY		c
RESTRICTED DELIVERY		c
SHOW TO WHOM AND DATE DELIVERED		c
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		c
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		c
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		c
CONSULT POSTMASTER FOR FEES		
OPTIONAL SERVICES		
RETURN RECEIPT SERVICE		
TOTAL POSTAGE AND FEES		\$
POSTMARK OR DATE		
8/1/83 Permit for Well #1915		

PS Form 3800, Apr. 1976

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OIL & GAS DIVISION
DEPT. OF MINES

08/25/2023

P 317 719 154

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

SENT TO		
Mr. W. E. Kirk		
STREET AND NO.		
P.O., STATE AND ZIP CODE		
Gallipolis Ferry, WV 25515		\$
POSTAGE		
CONSULT POSTMASTER FOR FEES		¢
OPTIONAL SERVICES		¢
RETURN RECEIPT SERVICE		¢
SHOW TO WHOM AND DATE DELIVERED		¢
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢
TOTAL POSTAGE AND FEES		\$
POSTMARK OR DATE		
8/3/ Permit		
1915		

PS Form 3800, Apr. 1976



IV-35
(Rev 8-81)

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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 - 1915

Farm William E. Kirk

API No. 47 - 053 - 0302

WELL OPERATOR'S REPORT
OF

((CORRECTED on 11/28/83))

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 xx)

LOCATION: Elevation: 579.14 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 William E. Kirk

ADDRESS Gallipolis Ferry, WV 25515

MINERAL RIGHTS OWNER William E. Kirk

ADDRESS Gallipolis Ferry, WV 25515

OIL AND GAS INSPECTOR FOR THIS WORK

Jerry Route 31, Box 101A

Tapbaloh ADDRESS Ripley, WV 25271

PERMIT ISSUED August 17, 1983

DRILLING COMMENCED 09/12/83

DRILLING COMPLETED 09/19/83

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	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"			
9 5/8	497.90	497.90	212 cf
8 5/8			
7	1896.15 1896.15	678.55	212 212 cf
5 1/2			
4 1/2	3314	3314	161 161 cf
3 1/2	3277.60	3277.60	161 161 cf
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3300 feet

Depth of completed well 3300 feet Rotary x / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt 615 & 1130 feet

Coal seam depths: 275/281 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 2968 feet

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

Final open flow 146 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--)

08/25/2023

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

(Continue on reverse side)

Mason 302

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

On 10/5/83 Halliburton Foam Fractured the Devonian Shale
with 60,000 # sand, 212 BBL Water, 1,009,000 SCF Nitrogen

Perforations at 2366/2968 (49 shots)

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 OIL & GAS DIVISION
 DEPT. OF MINES

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fr and salt water, coal, oil and
Clay			0	10	
River Gravel			10	95	Water at 615' 1½" stream
Sand and Shale			95	275	Water at 1130' 3" stream
Coal			275	281	
Sand and Shale			281	1145	
Big Lime			1145	1205	
Sand and Shale			1205	1808	
Berea			1808	1834	
Devonian Shale			1834	TD 3300	

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: *Joseph C. Pettey*

Joseph C. Pettey
Vice President of Prod.

Date: 11/1/83

08/25/2023

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

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

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INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

53
Permit No. 0302

Oil or Gas Well _____
(KIND)

Company <u>Union Drilling</u> Address _____ Farm _____ Well No. _____ District _____ County <u>Mason</u> Drilling commenced _____ Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			
	16			Kind of Packer _____
	13			
	10			Size of _____
	8 1/4			
	6 3/8			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: Looked at Location + Road with Dozer Operator

8 31 83
DATE

Jerry L. Todd
08/25/2023
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

08/25/2023
DISTRICT WELL INSPECTOR

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

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SEP 14 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well
(KIND)

Permit No. 053 302

Company Union Drilling

Address _____

Farm _____

Well No. _____

District _____ County Mason

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			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: 9183 Notified Building Site
9983 Site Built + pit Ready.

9 9 83
DATE

Junt 08/25/2023
DISTRICT WELL INSPECTOR

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

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SEP 14 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 053 302

Oil or Gas Well _____
(KIND)

Company <u>Elvin Drilling</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			
Address _____	16			Kind of Packer _____
Farm _____	13			
Well No. _____	10			Size of _____
District _____ County <u>Mason</u>	8 1/4			
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used _____			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: _____

Drilling at 202 feet.

9 13 83

DATE

[Signature]
08/25/2023
DISTRICT WELL INSPECTOR

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

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INSPECTOR'S WELL REPORT

Permit No. 053 302

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well
(KIND)

Company Union Drilling

Address _____

Farm Kirk

Well No. #1

District _____ County Mason

Drilling commenced _____

Drilling completed 9/19/83 Total depth 3294'

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			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: 9/19/83 TD 3294

9/20/83 Ran 3277.6' of 4 1/2" pipe Cement 90 SKS

9/22/83 preparing to frac. (workover rig) (rush) on location

9/22/83

Jerry [Signature]
DISTRICT WELL INSPECTOR

98/25/2023

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

RECEIVED
 JUN 12 1984
 OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 053-0302 County Mason
 Company Union Drilling, Inc. District Clendenin
 Inspector JERRY TEPHABOCK Farm William E. Kirk
 Date November 21, 1983 Well No. 1-1915 Issued 8-17-83

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 strength	✓	—
23.02	Maintained access roads	✓	—
25.01	Necessary equipment to prevent waste	✓	—
23.03	Reclaimed drilling site	✓	—
23.04	Reclaimed drilling pits	✓	—
23.05	No surface or underground pollution	✓	—
7.05	Identification markings	✓	—

COMMENTS: _____

I have inspected the above well and have found it to be in compliance with the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia, and the well can be released from the permitted work.

SIGNED: Jerry Tephabock
 DATE: 6 6 84 08/25/2023



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

June 29, 1984

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

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:

<u>PERMIT NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
053-0302	W.E. Kirk # 1-1915	Clendenin
053-0303	Dale Nibert # 2-1912	Clendenin
053-0304	Vernon N. Varnum etux # 1-1916	Clendenin
053-0305	Junior F. Powell # 1-1914	Clendenin
053-0309	Inez Grace Newman # 1-1913	Clendenin

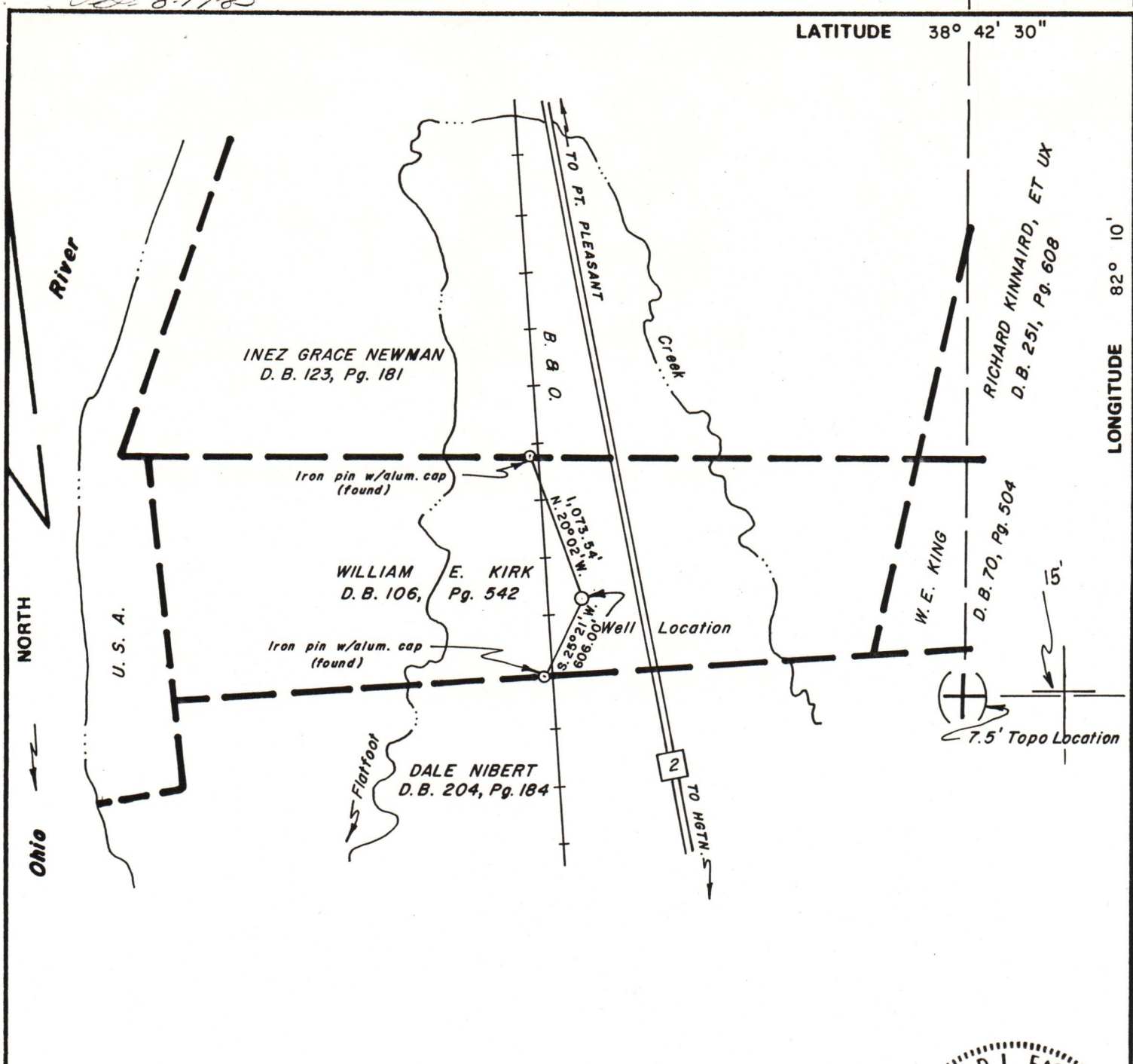
In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.....

Very truly yours,

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

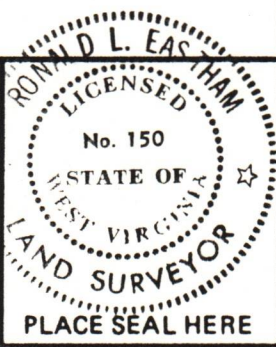
TMS/ chm

08/25/2023



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 200
 PROVEN SOURCE OF ELEVATION NGS B.M. "F-118"
 Elev. = 582.233

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. Eastham
 R.P.E. _____ L.L.S. 150



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



DATE July 19, 1983
 OPERATOR'S WELL NO. 1915
 API WELL NO. 47 - 053 - 0302
 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 579.14 WATER SHED Flatfoot Creek
 DISTRICT Clendenin COUNTY Mason
 QUADRANGLE Apple Grove
 SURFACE OWNER William E. Kirk ACREAGE 174
 OIL & GAS ROYALTY OWNER William E. Kirk LEASE ACREAGE 174
 LEASE NO. C-2-181
 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 Devonian Shale ESTIMATED DEPTH 3,500'
 WELL OPERATOR Union Drilling, Inc. DESIGNATED AGENT Joseph C. Vanzant, Jr.
 ADDRESS Drawer 40 ADDRESS Drawer 40
 Buckhannon, WV 26201 Buckhannon, WV 26201

08/25/2023

MASON 0302