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OFFICE USE ONLY

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

1) WELL OPERATOR: Union Drilling, Inc., Post Office Box 2550, Beckton, WV 25201

2) LOCATION: Middle Fork, Beckton, WV 25201

3) DRILLING CONTRACTOR: Union Drilling, Inc., Post Office Box 2550, Beckton, WV 25201

4) PROPOSED WELL WORK: Drilling

5) APPROXIMATE DATE OF COMPLETION: 12/01/84

6) APPROXIMATE DEPTH OF WELL: 2000'

7) APPROXIMATE DIAMETER OF WELL: 4 1/2"

8) APPROXIMATE VOLUME OF DRILLING FLUID: 5000'

9) APPROXIMATE VOLUME OF DRILLING MUD: 5000'

10) APPROXIMATE VOLUME OF DRILLING MUD: 5000'

11) APPROXIMATE VOLUME OF DRILLING MUD: 5000'

12) APPROXIMATE VOLUME OF DRILLING MUD: 5000'

13) APPROXIMATE VOLUME OF DRILLING MUD: 5000'

14) APPROXIMATE VOLUME OF DRILLING MUD: 5000'

15) APPROXIMATE VOLUME OF DRILLING MUD: 5000'

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: _____

12/01/2023

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IV-9
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES

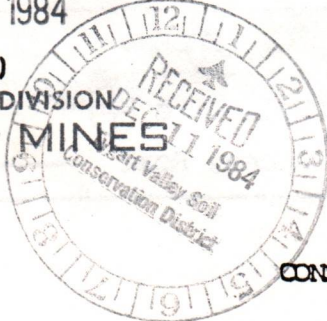


State of West Virginia
Department of Mines
Oil and Gas Division

DATE 12-3-84

WELL NO. 2152

API NO. 47-083-0998



CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME UNION DRILLING, INC.
Address P. O. DRAWER 40, BUCKHANNON, WV
Telephone 304-472-4610

DESIGNATED AGENT JOSEPH C. VANZANT, JR.
Address P. O. DRAWER 40, BUCKHANNON, WV
Telephone 304-472-4610

LANDOWNER Davis Ekins Jr.

SOIL CONS. DISTRICT Tygart Valley SCD
(Agent)

Revegetation to be carried out by UNION DRILLING, INC.

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan: 12-11-84 (Date)

Junior Hedrick
(SCD Agent)

ACCESS ROAD

LOCATION

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 _____

Structure Diversion Ditch (1)
Material Earth
Page Ref. Manual _____
Structure _____ (2)
Material _____
Page Ref. Manual _____
Structure _____ (3)
Material _____
Page Ref. Manual _____

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

Line 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

Line 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 landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

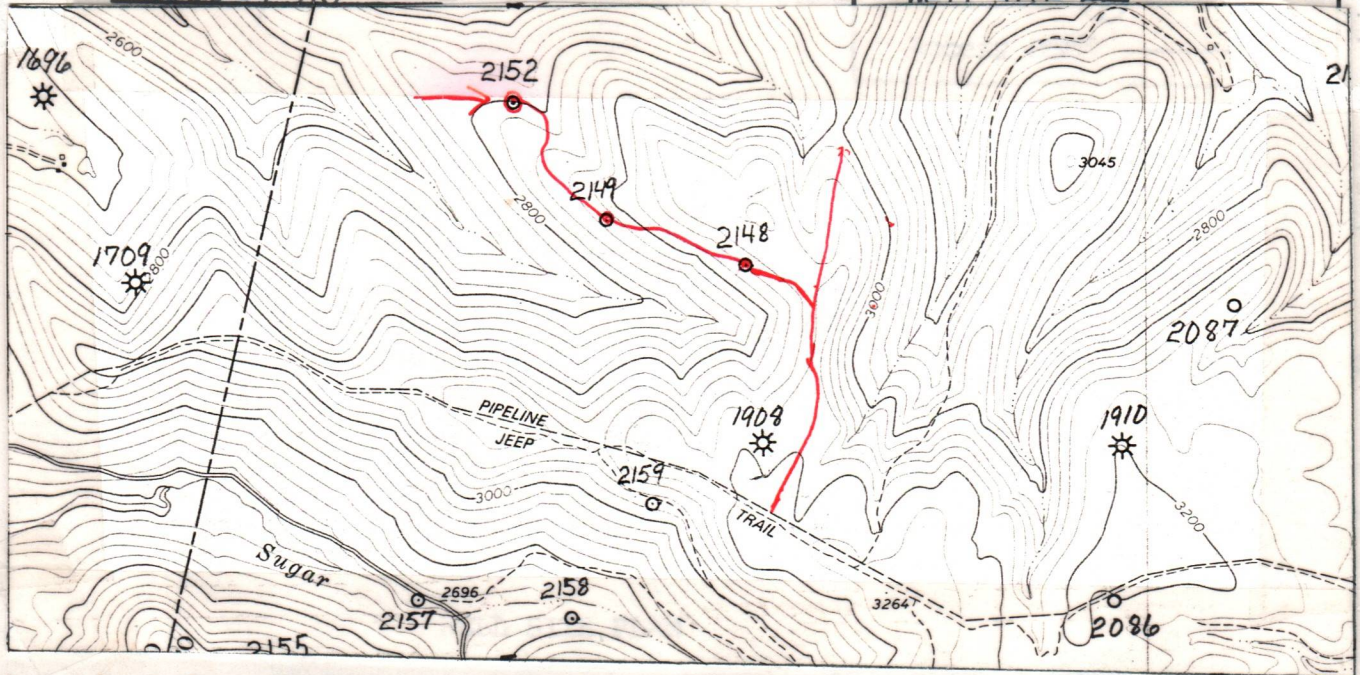
PLAN PREPARED BY Danny Morgan 12/01/2023

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

PHONE NO. (304) 472-4610

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE *Cassidy 7.5*

LEGEND Well Site

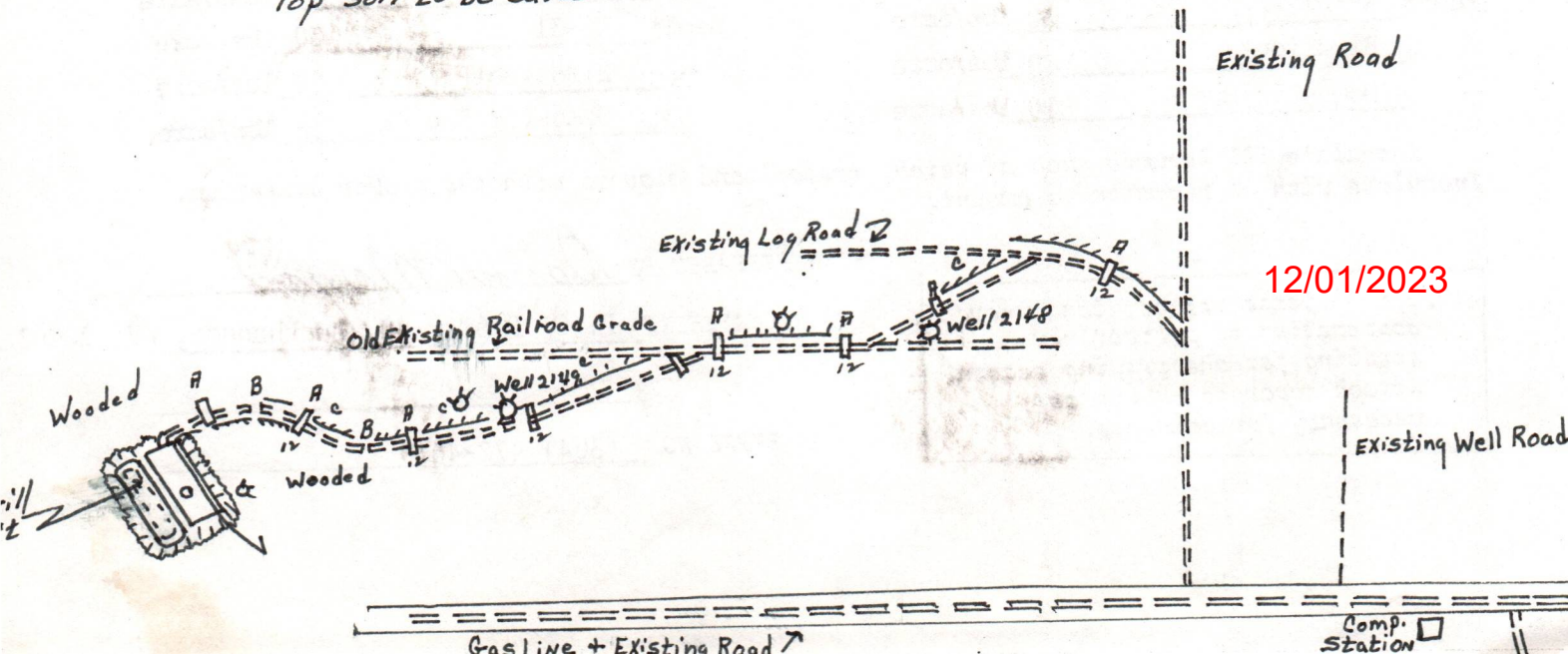


Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

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

All slopes 2:1 Except in Rock
Road Grade to Loc. 12% + -
Top soil to be saved



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 John B. Lounsbury, Agent
Address R & S Kelly Trust; Davis Elkins; Trustee
P. O.Box 850, Elkins, WV 26241

(ii) Name _____
Address _____

(iii) Name _____
Address _____

5(i) COAL OPERATOR _____
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name John B. Lounsbury, Agent
Address R & S Kelly Trust; D. Elkins, 11
P. O. Box 850, Elkins, WV 26241

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

James A. Bibby, III
this 21 day of November, 1984.
My commission expires 3-3, 1991.

Notary Public, Upshur County,
State of West Virginia

WELL OPERATOR Union Drilling, Inc.

By James A. Bibby, III
Its Land Manager
Address Post Office Drawer 40
Buckhannon, WV, 26201
Telephone 304-472-4610

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DEC 21 1984
OIL & GAS DIVISION
DEPT. OF MINES

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 Page</u>
Katherine E. Kelly, et. al.	Consolidated Gas Supply	1/8	274/299
Consolidated Gas Supply	Union Drilling, Inc.		unrecorded joint venture

12/01/2023



1) Date: November 21, 19 84
 2) Operator's Well No. 2152 - 4
 3) API Well No. 47
 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 XX /
 B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 2805 Watershed: Jenks Fork
 District: Middle Fork County: Randolph Quadrangle: Cassity
- 6) WELL OPERATOR Union Drilling, Inc. 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address Post Office Drawer 40 Address Post Office Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Phillip Tracy Name Union Drilling, Inc.
 Address Post Office Box 2536 Address Post Office Drawer 40
Elkins, WV 26241 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate XX /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
 12) Estimated depth of completed well, 5000 feet
 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.
 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes _____ / No XX /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	<u>11-3/4</u>		<u>32</u>	<u>X</u>		<u>30'</u>	<u>30'</u>		Kinds
Fresh water									Sizes
Coal									Oil & Gas Division
Intermediate	<u>8-5/8</u>		<u>23</u>	<u>X</u>		<u>1000'</u>	<u>1000'</u>	<u>to surface</u>	Depths set
Production	<u>4-1/2 J</u>		<u>10 1/2</u>	<u>X</u>		<u>5000'</u>	<u>5000'</u>	<u>as required</u>	Perforations:
Tubing									Top
Liners									Bottom

RECEIVED
 DEPT. OF MINES
 OIL & GAS DIVISION
 DEC 21 1984

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

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

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

WAIVER

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

Date: 11/21/84, 19 84
 By: John B. Lunsberry
 Its: Manager

12/01/2023
 Coal Owner



1) Date: November 21, 19 84
 2) Operator's Well No. 2152 - 4
 3) API Well No. 47
 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 XX /
 B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 2805 Watershed: Jenks Fork
 District: Middle Fork County: Randolph Quadrange: Cassity
- 6) WELL OPERATOR Union Drilling, Inc. 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address Post Office Drawer 40 Address Post Office Drawer 40
Buckhamon, WV 26201 Buckhamon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Phillip Tracy Name Union Drilling, Inc.
 Address Post Office Box 2536 Address Post Office Drawer 40
Elkins, WV 26241 Buckhamon, WV 26201
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate XX /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
- 12) Estimated depth of completed well, 5000 feet
- 13) Approximate strata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes _____ / No XX /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	<u>11-3/4</u>		<u>32</u>	<u>X</u>		<u>30'</u>	<u>30'</u>		Kinds _____
Fresh water									Sizes _____
Coal									Depths set _____
Intermediate	<u>8-5/8</u>		<u>23</u>	<u>X</u>		<u>1000'</u>	<u>1000'</u>	<u>to surface</u>	Perforations: _____
Production	<u>4-1/2 J</u>		<u>10 1/2</u>	<u>X</u>		<u>5000'</u>	<u>5000'</u>	<u>as required</u>	Top _____ Bottom _____
Tubing									
Liners									

DEPT. OF MINES
 OIL & GAS DIVISION
 RECEIVED
 DEC 21 1984

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

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application 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: _____ Date: _____
 By John B. Lumsden (Signature)
 Its Manager Date 11/21/84 (Signature)

12/01/2023
Surface Owner



**INSTRUCTIONS TO SURFACE OWNERS
AND
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT
ON OIL AND GAS WELL WORK PERMIT**

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

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the 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, West Virginia 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 delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the 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 must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the 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.

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

STATE OF West Virginia,
COUNTY OF Upshur :

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form IV-2(A) / Form IV-3(A) / Form IV-4(A) /
- (2) Application on Form IV-2(B) / Form IV-3(B) / Form IV-4(B) /
- (3) Plat showing the well location on Form IV-6, and
- (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)

--all with respect to operator's Well Nos 2148, 2149 & 2152 located in Middle Fork District, Randolph County, West Virginia, upon the person or organization named--

John B. Lounsbury, Agent; R & S Kelly Trust; Davis Elkins, Trustee

--by delivering the same in Upshur County, State of West Virginia on the 21st day of November, 1984 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual: ACTING AS AGENT FOR A TRUST

Handing it to him / her / or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.

Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

Handing it to the corporation's employee / officer / director / attorney in fact / named _____.

James A. Birk, III
(Signature of person executing service)

Taken, subscribed and sworn before me this 21st day of November, 1984.
My commission expires 3rd March 1991

Patrick S. Leake
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

original



Date May 7, 1985
Operator's
Well No. 4 - 2152
Farm Davis-Elkins Estate #4
API No. 47 - 083 - 0998

RECEIVED
IV-15
(Rev. 8-81)
MAY 16 1985
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

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 ___ / Underground Storage ___ / Deep ___ / Shallow x /)

LOCATION: Elevation: 2805' Watershed Jenks Fork
District: Middle Fork County Randolph Quadrangle Cassity

COMPANY UNION DRILLING, INC.
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201
DESIGNATED AGENT Joseph C. Pettey
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201
SURFACE OWNER John Lounsbury, Agent
ADDRESS P.O. Box 850, Elkins, WV 26241
MINERAL RIGHTS OWNER same
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK _____
Phil Tracy ADDRESS Forrest Fest. Apts., Elkins, WV
PERMIT ISSUED 1/7/85 26241
DRILLING COMMENCED 3/21/85
DRILLING COMPLETED 3/28/85

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"	20.00'	20.00'	
9 5/8			
8 5/8	710.70'	710.70'	236 cf
7			
5 1/2			
4 1/2		4990.65'	945 cf
3			
2			
Liners used	2 3/8"	4753.25'	

GEOLOGICAL TARGET FORMATION Benson Depth 5000' feet
Depth of completed well 5370' feet Rotary xxx / Cable Tools _____
Water strata depth: Fresh 175' feet; Salt _____ feet
Coal seam depths: 223/226 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Benson, 3rd Elk Pay zone depth 4558' feet
Gas: Initial open flow odor Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 84 mcf Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 2 hours

Static rock pressure 990# psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours

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

(Continue on reverse side)

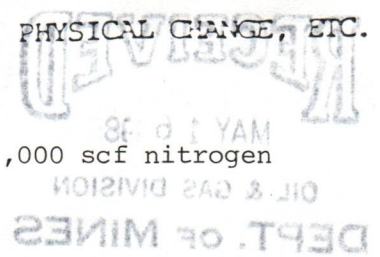
12/01/2023

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

Halliburton - 2 stage Frac - 4/12/85

3637/41 - Benson - 45,000 sand, 609 Bbls water and 537,000 scf nitrogen

4854/58 - 3rd Elk - 45,000 sand and 437 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
			0	223	1" stream water @175'
			223	226	
			226	1103	
			1103	1163	
			1200	1328	
			1331	1444	
			1450	1470	
			1768	1846	
			1876	1968	
			2058	2102	
			2121	2164	
			2252	2272	
			2606	2630	
			3072	3096	
			3631	3648	
			4342	4394	
			4834	4870	
				5370'	T.D. small odor

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: Joseph C. Pettey 12/01/2023

Date: Joseph C. Pettey, Vice President of Production
5/7/85

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
OFFICE OF OIL AND GAS
CHARLESTON 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

RECEIVED
JUN 18 1985

Company: UNION DRILLING, INC.
Well: LOUNSBURY, JOHN (AGENT) Well: 2152-4

(1-07-85)
Permit No. 47- 83-0998 OIL & GAS DIVISION
County: RANDOLPH

DEPT. OF MINES

Rule	Description	In Compliance	
		Yes	No
3.06	Notification prior to starting work	-----	-----
5.04	Prepared before drilling to prevent waste	-----	-----
5.03	High pressure drilling	-----	-----
5.01	Required permits at wellsite	-----	-----
5.03	Adequate Fresh Water Casings	-----	-----
5.02	Adequate Coal Casings	-----	-----
5.01	Adequate Production Casings	-----	-----
5.04	Adequate Cement Strength	-----	-----
5.05	Cement Type	-----	-----
5.02	Maintained Access Roads	-----	-----
5.01	Necessary Equipment to Prevent Waste	-----	-----
5.04	Reclaimed Drilling Pits	-----	-----
5.05	No Surface or Underground Pollution	-----	-----
5.07	Requirements for Production & Gathering Pipelines	-----	-----
5.01	Well Records on Site	-----	-----
5.02	Well Records Filed	-----	-----
5.05	Identification Markings	-----	-----

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

SIGNED Phillip Tracy

DATE 6-14-85

Our well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond overbase for the life of the well.

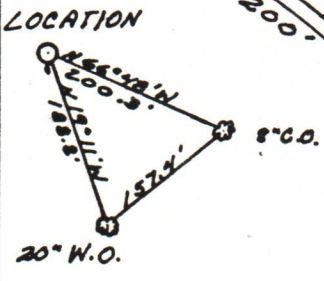
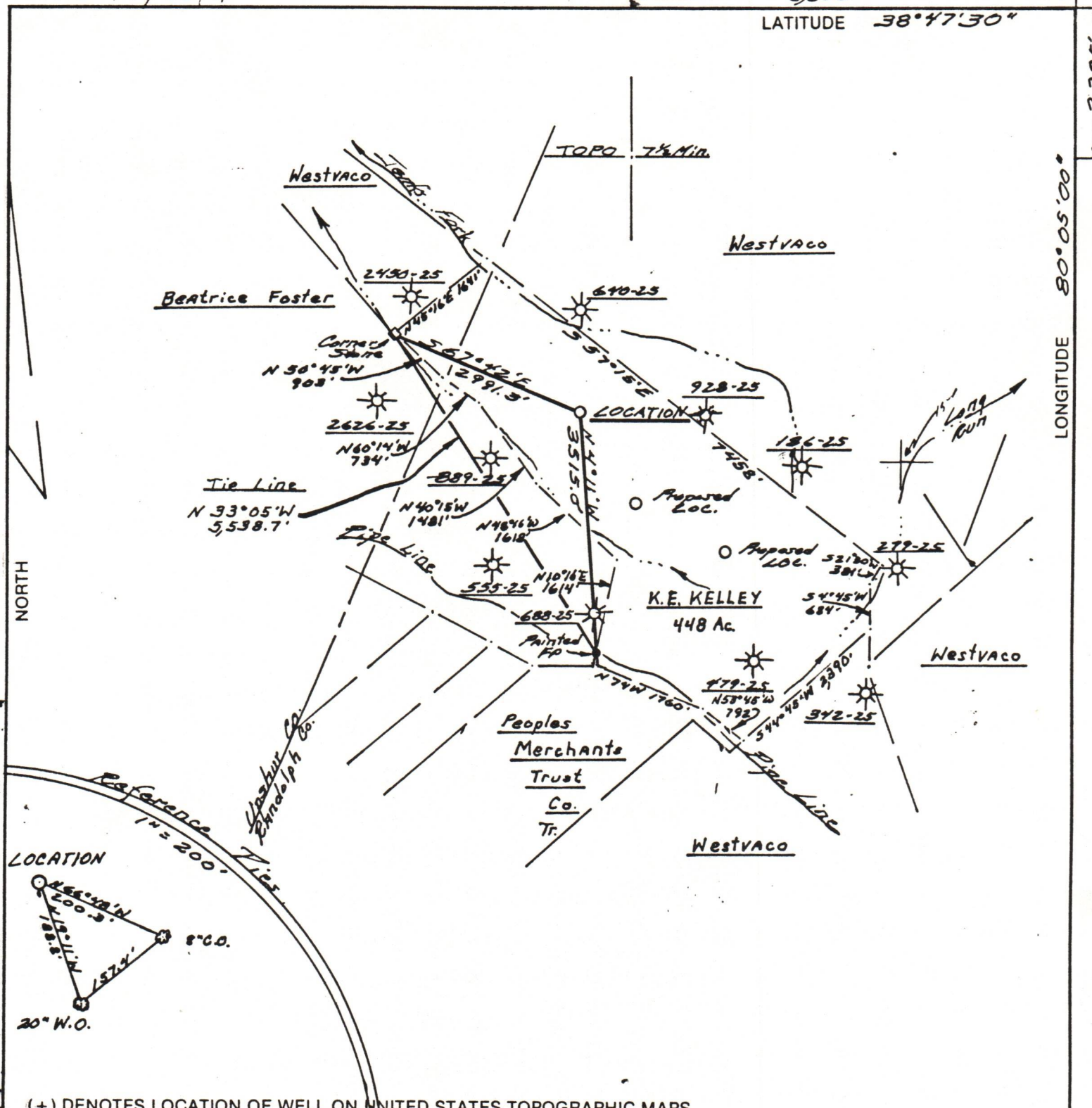
T. H. ...
Administrator

June 25, 1985
Date

1111 12/26/84

6,600' LATITUDE 38°47'30"

2,225' LONGITUDE 80°50'08"



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

FILE NO. 40.01
 DRAWING NO. 84-25
 SCALE 1" = 3,000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot Elev. 3045'
Hill Top NE of Location

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) Rufus L. Ostrander
 R.P.E. _____ L.L.S. 555
Buckhannon, WV

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE 12 November, 19 84
 OPERATOR'S WELL NO. 2152-4
 API WELL NO.

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE 47 COUNTY 083 PERMIT 0998
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 2805' WATER SHED Tanks Fork
 DISTRICT Middle Fork COUNTY Randolph
 QUADRANGLE Cassity

SURFACE OWNER Davis Elkins Jr Etals ACREAGE 12/09/2023
 OIL & GAS ROYALTY OWNER K.E. Kelley LEASE ACREAGE 448
 LEASE NO. 71081

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 BENSON ESTIMATED DEPTH 5,000'

WELL OPERATOR Union Drilling Inc. DESIGNATED AGENT Joseph C. Vanzant, Jr.
 ADDRESS PO Drawer 40 ADDRESS PO Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201

COUNTY NAME RAND
 PERMIT 0998

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