



1) Date: October 16, 1984  
 2) Operator's Well No: 2094  
 3) API Well No: 47-083-0980  
 State West Virginia County Cassity Permit

**RECEIVED**

Oct 18 1984

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

APPLICATION FOR A WELL WORK PERMIT OIL & GAS DIVISION

DEPT. OF MINES

- 4) WELL TYPE: A Oil        / Gas XX /  
 B (If "Gas", Production XX / Underground storage        / Deep        / Shallow XX /)
- 5) LOCATION: Elevation: 2550 Watershed: Cassity Fork  
 District: Middle Fork County: Randolph Quadrangle: Cassity
- 6) WELL OPERATOR Union Drilling, Inc.  
 Address Post Office Drawer 40  
Buckhannon, WV 26201 50550
- 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.  
 Address Post Office Drawer 40  
Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Phillip Tracy  
 Address Forest Festival Terrace #24  
Elkins, WV 26241
- 9) DRILLING CONTRACTOR:  
 Name Union Drilling, Inc.  
 Address Post Office Drawer 40  
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, Elk
- 12) Estimated depth of completed well, 5500 feet
- 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes

**RECEIVED**  
 No XX  
Oct 18 1984

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	11-3/4		32	X		30'	30'		
Fresh water									
Coal									
Intermediate	8-5/8		23	X		1000'	1000'	to surface	
Production	4-1/2 J		10 1/2	X		5500'	5500'	as required	
Tubing									
Liners									

OIL & GAS DIVISION  
DEPT. OF MINES

Sizes NEAT  
 Depths set by rule 15.01

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-083-0980 Date November 15, 19 84

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.  
 Permit expires November 15, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>162</u>	<u>TS</u>	<u>MU</u>	<u>MU</u>	<u>23434</u>

Margaret J. Hesse  
 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

RECEIVED  
OCT 18 1984

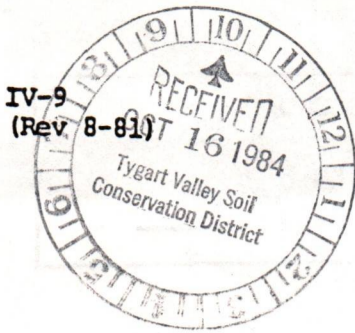
OFFICE USE ONLY

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: \_\_\_\_\_



State of West Virginia Department of Mines Oil and Gas Division

DATE 10-15-84 WELL NO. 2094 #418 API NO. 47-083-0980

CONSTRUCTION AND RECLAMATION PLAN

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

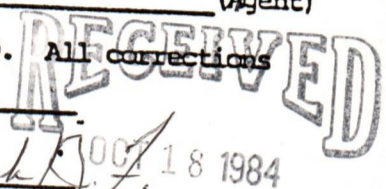
DESIGNATED AGENT JOSEPH C. VANZANT, JR. Address P. O. DRAWER 40, BUCKHANNON, WV Telephone 304-472-4610

LANDOWNER West Vaco Corp.

SOIL CONS. DISTRICT Tygart Valley S.C.D. (Agent)

Revegetation to be carried out by UNION DRILLING, INC.

This plan has been reviewed by Tygart Valley S.C.D. All corrections and additions become a part of this plan: 10/16/84 (Date) [Signature] (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 (1) Material Earthen 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

Table with 2 columns: Treatment Area I, Tons/acre. Rows: Lime 3 or correct to pH 6.5, Fertilizer 600 (10-20-20 or equivalent), Mulch 2, Seed\* Ky-31 30 lbs/acre, Birdsfoot 10 lbs/acre, Domestic Rye 10 lbs/acre.

Table with 2 columns: Treatment Area II, Tons/acre. Rows: Lime 3 or correct to pH 6.5, Fertilizer 600 (10-20-20 or equivalent), Mulch 2, 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.

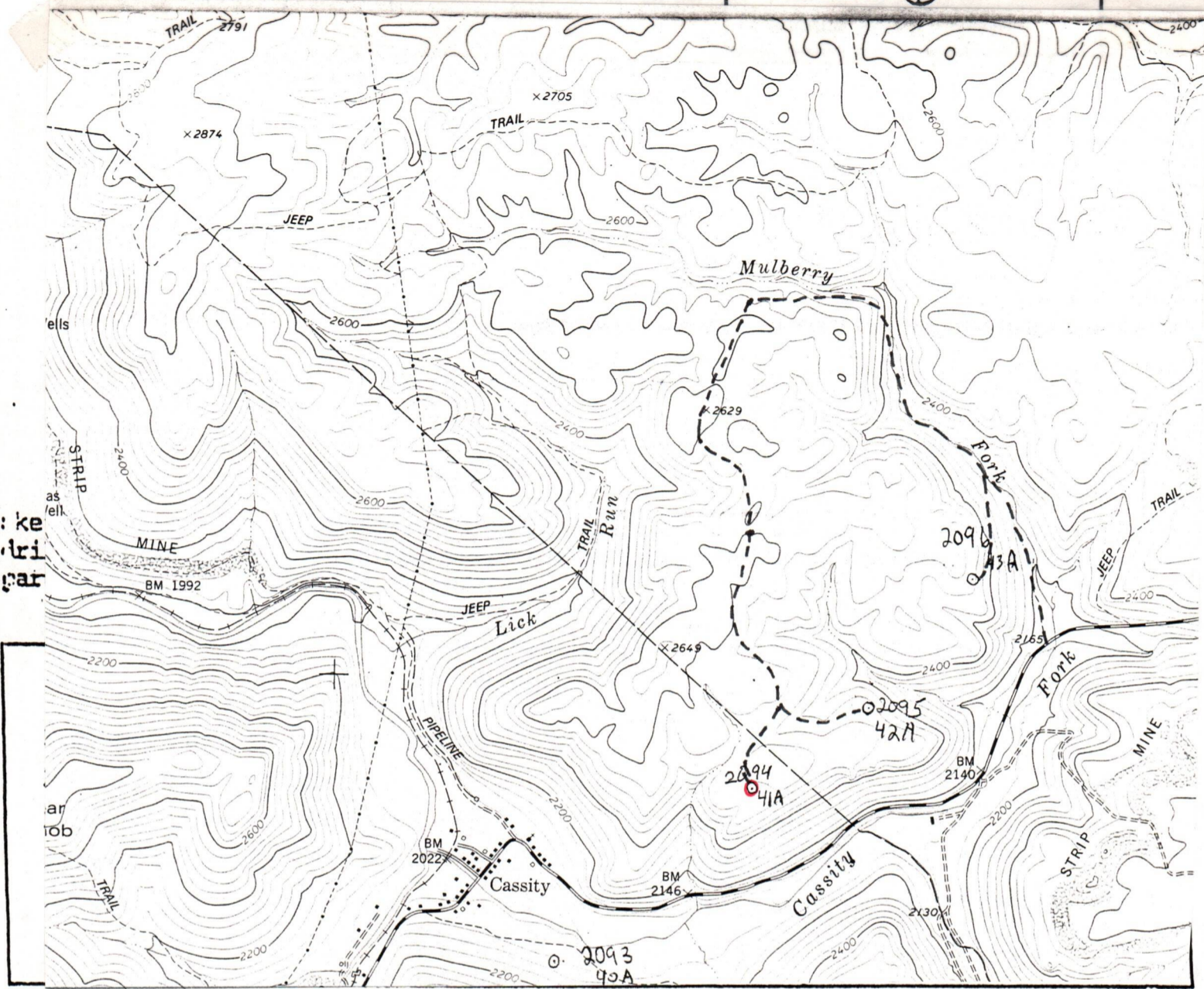
NOTES: Please request landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

PLAN PREPARED BY Danny O'Meara 12/01/2023 ADDRESS P. O. Drawer 40, Buckhannon, WV 26201 PHONE NO. (304) 472-4610

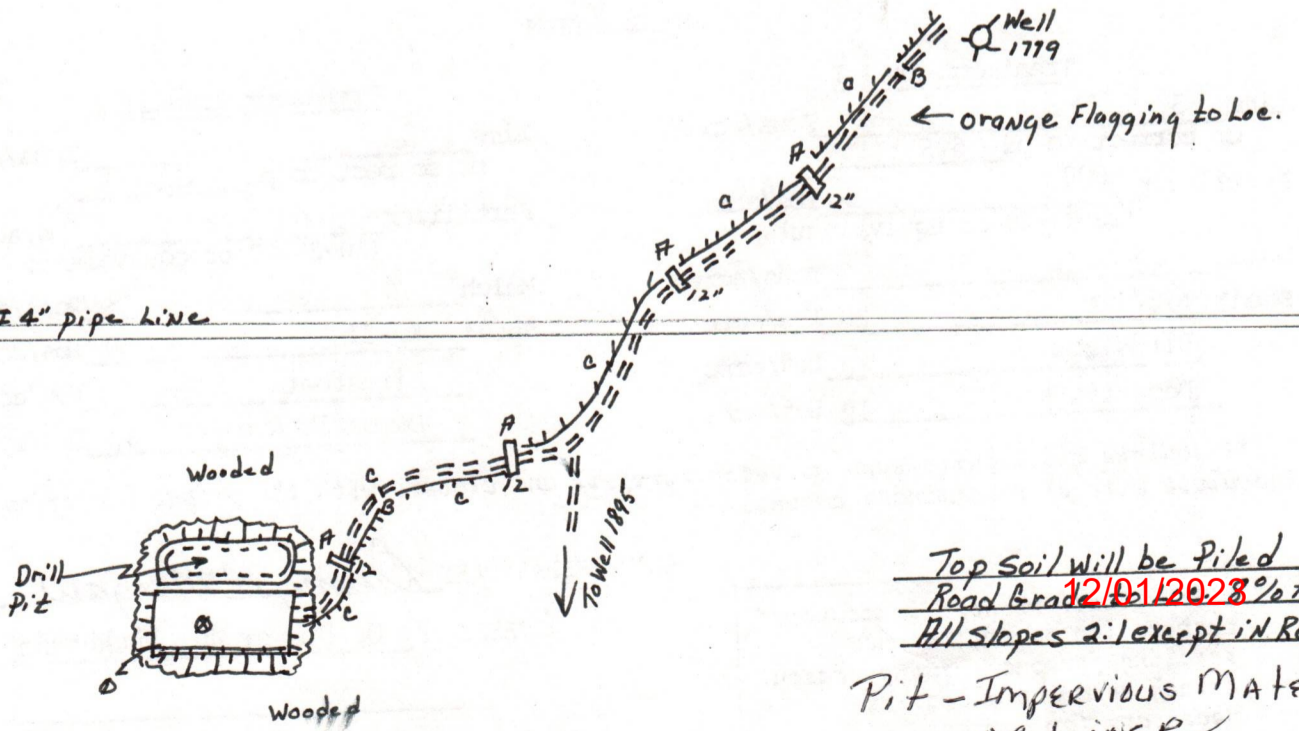
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Cassity 7.5

LEGEND

Well Site ⊕



UDI 4" pipe line



Top Soil will be Piled  
 Road Grad ~~2.10~~ 2.028% ± -  
 All slopes 2:1 except in Rock  
 Pit - Impervious Material  
 OR LINE

10" pipe line

1) Date: October 16, 19 84  
2) Operator's Well No. 2094  
3) API Well No. 47-083-0980  
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 Westvaco Corporation  
Address 203 Randolph Avenue  
Elkins, WV 26241  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR

Address \_\_\_\_\_

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:

Name AMAX Coal Company  
Address 105 South Meridian Street  
Indianapolis, IN 46225

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 16 day of October, 1984.

My commission expires August 9, 1994.

James A. Bibby, III  
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

12/01/2023

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.

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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>
Harry McMullan, III, Agent	Union Drilling, Inc.	1/8	295/156

12/01/2023

P 754 106 442

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982

\* U.S.G.P.O. 1983-403-517

Sent to AMAX Coal Company	
Street and No. 105 South Meridian Street	
P.O., State and ZIP Code Indianapolis, IN 46225	
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 2093, 2094, 2095, 2096	

BUCKHANNON  
OCT 17 1984  
WV

P 754 106 443

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982

\* U.S.G.P.O. 1983-403-517

Sent to Westvaco Corporation	
Street and No. 203 Randolph Avenue	
P.O., State and ZIP Code Elkins, WV 26241	
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 2093, 2094, 2095, 2096 2088	

BUCKHANNON  
OCT 17 1984  
WV

RECEIVED

DEC 10 1984



IV-35 (Rev 8-81) OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date December 6, 1984 Operator's Well No. 41A - 2094 Farm Harry McMullan #41A API No. 47 - 083 - 0980

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: 2550' Watershed Cassity Fork District: Middle Fork County Randolph Quadrangle Cassity

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 Westvaco Corporation ADDRESS 203 Randolph Ave., Elkins, WV 26241 MINERAL RIGHTS OWNER Harry McMullan ADDRESS P.O. Box 8, Washington, N.C. 27889 OIL AND GAS INSPECTOR FOR THIS WORK Phil Tracy ADDRESS Forrest Fest Apts, Elkins, WV 26241 PERMIT ISSUED 11/15/84 DRILLING COMMENCED 11/15/84 DRILLING COMPLETED 11/19/84

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Elk Depth 5500' feet Depth of completed well 5372' feet Rotary XX / Cable Tools Water strata depth: Fresh 115' feet; Salt none feet Coal seam depths: 483/488 Is coal being mined in the area? no

OPEN FLOW DATA Producing formation Speechly, Balltown, Benson, Alexander & 1st Elk. Pay zone depth 4982' feet Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d Final open flow 291 Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests 2 hours Static rock pressure 925# psig (surface measurement) after 24 hours shut in (If applicable due to multiple completion--)

12/01/2023

(Continue on reverse side)

RAW-0980



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

Dowell - 3 stage Foam Frac - 11/29/84

2862/66 - Lower Speechly - 45,000# sand, 273 Bbls water and 384,000 scf nitrogen  
3000/04 - Balltown

3754/58 - Benson- 45,000# san, 196 Bbls water and 572,000 scf nitrogen

4606/10 - Lower Alexander - 45,000# sand, 188 Bbls water and 532,000 scf nitrogen

4925/29- 1st Elk

4966/68

4978/82

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	483	1/2" stream water @115'
Coal			483	488	
Sand & Shale			488	1286	
Little Lime			1286	1339	
Big Lime			1388	1519	
Injun			1522	1660	
Gantz			1681	1737	
4th Sand			2002	2028	
5th Sand			2129	2190	
Bayard			2203	2280	
Lower Bayard			2298	2326	
Lower Speechly			2861	2772	
Balltown			2990	3008	
Benson			3749	3765	
Lower Alexander			4594	4612	
1st Elk			4921	5001	
2nd Elk			5036	5074	
3rd Elk			5116	5174	
				5372'	T.D. gas show

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: Joseph C. Pettey 12/01/2023

Date: Vice President of Production

12/6/84

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."



RECEIVED  
JUN 18 1985

OIL & GAS DIVISION  
DEPT. OF MINES

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

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
December 19, 1984

SEEDED (4)

COMPANY Union Drilling, Inc.  
P. O. Drawer 40  
Buckhannon, West Virginia 26201

PERMIT NO 083-0980 (11-15-84)  
FARM & WELL NO Westvaco Corp. #2094  
DIST. & COUNTY Middle Fork/Randolph

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

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

SIGNED Phillip Gray  
DATE 6-14-85

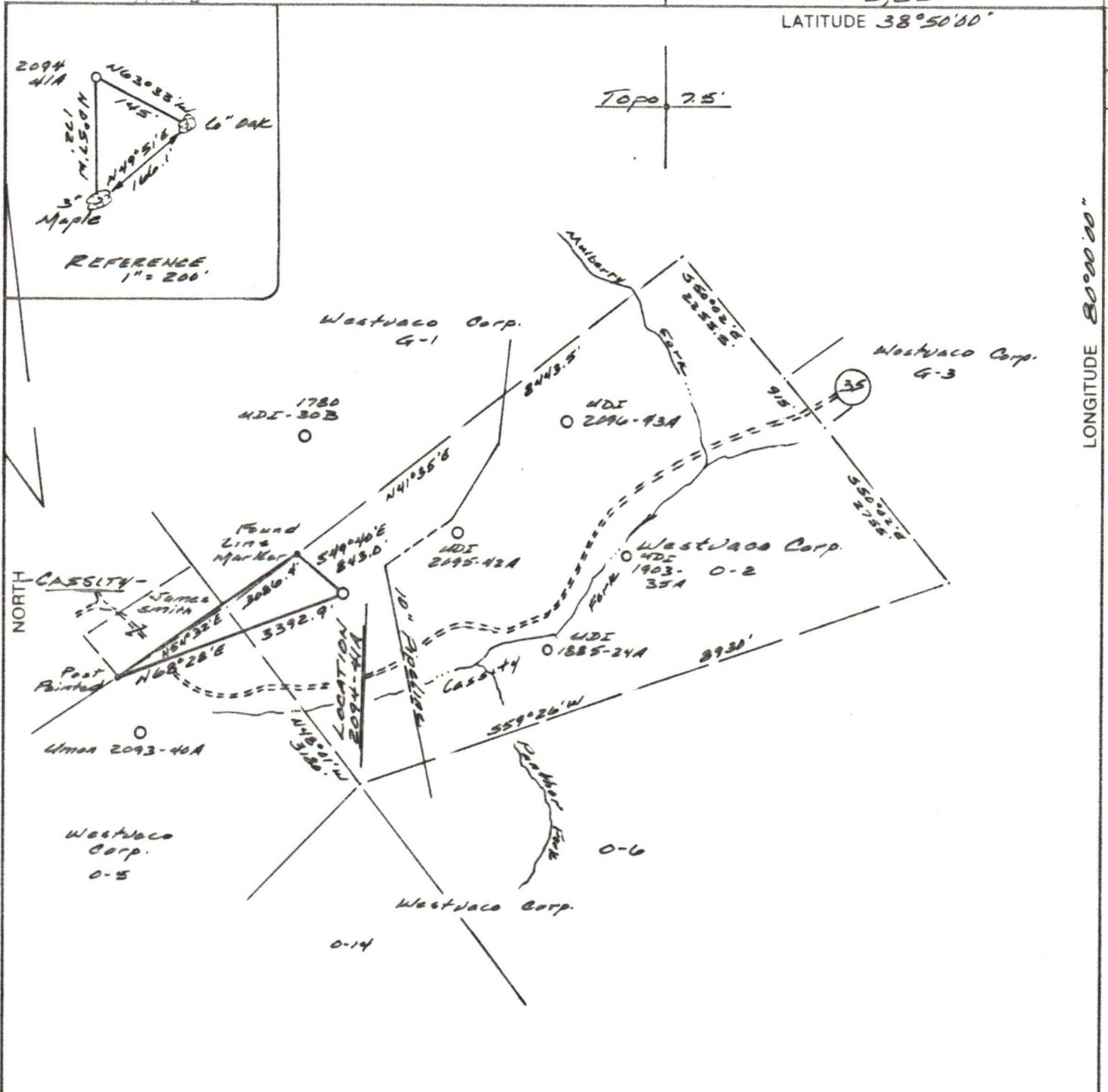
Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. [Signature]  
Administrator-Oil & Gas Division

June 25, 1985  
DATE

MW 11/13/84

6,250' LATITUDE 38°50'00"



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

FILE NO. 4001  
 DRAWING NO. 84-15  
 SCALE 1" = 200'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION BN-2146 SW. 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) Robert L. Osterader  
 R.P.E. \_\_\_\_\_ L.L.S. 555  
Buckhannon, WV

PLACE SEAL HERE

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



DATE 4 Sept. 19 84  
 OPERATOR'S WELL NO. 2094-41A  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW

47 - 083 - 0980  
 STATE COUNTY PERMIT

LOCATION: ELEVATION 2550' WATERSHED Cassity Fork  
 DISTRICT Middle Fork COUNTY Randolph  
 QUADRANGLE Cassity 7.5'

SURFACE OWNER WESTVACO Corp. ACREAGE 884.3  
 OIL & GAS ROYALTY OWNER Harry McMillan Jr., Heirs LEASE ACREAGE 866.3  
 LEASE NO. 765

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 EIK ESTIMATED DEPTH 5500'

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

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

LONGITUDE 80°00'00" COUNTY NAME PERMIT