

RECEIVED
JUL 26 1984



1) Date: July 25, 1984
 2) Operator's Well No. 2060
 3) API Well No. 47 - 083 - 0943
 State County Permit

**OIL & GAS DIVISION
DEPT. OF MINES**

**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: 2925 Watershed: Devil Fork of Buckhannon River MTB311
 District: Middle Fork 5 County: Randolph Quadrangle: Goshen 377
 6) WELL OPERATOR Union Drilling, Inc. 50550 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 Forest Festival Terrace #24 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, 4200' 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	11-3/4		32	X		30'	30'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8		23	X		1000'	1000'	to surface	by rule 15.05 as required by rule 15.01
Production	4-1/2	J	10 1/2	X		4200'	4200'		
Tubing									Depths set
Liners									Perforations:
									Top Bottom

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-083-0943 Date August 17, 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 August 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>100</u>	Agent: <u> </u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>020296</u>
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Margaret J. Hesse
 Administrator, Office of Oil and Gas

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



RECEIVED
OIL & GAS DIVISION
DEPT. OF MINES
JUN 20 1984

OFFICE USE ONLY

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

1) WELL LOCATION: (a) Well No., (b) Location, (c) Township, Range, Meridian, (d) Section, (e) Quarter Section, (f) Township, Range, Meridian, (g) Section, (h) Quarter Section, (i) Township, Range, Meridian, (j) Section, (k) Quarter Section, (l) Township, Range, Meridian, (m) Section, (n) Quarter Section, (o) Township, Range, Meridian, (p) Section, (q) Quarter Section, (r) Township, Range, Meridian, (s) Section, (t) Quarter Section, (u) Township, Range, Meridian, (v) Section, (w) Quarter Section, (x) Township, Range, Meridian, (y) Section, (z) Quarter Section.

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 Follow-up inspection(s)

Well work started " "

Completion of the drilling process " "

Well Record received " "

Reclamation completed " "

OTHER INSPECTIONS

Reason: [Handwritten signature]

Reason: [Handwritten signature]

Bond	Agent	Plan	Casing	Fee



IV-9
(Rev 8-81)



State of West Virginia
Department of Mines
Oil and Gas Division

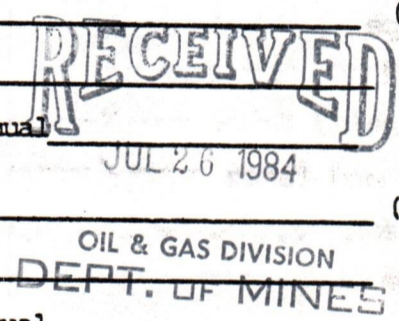
DATE 7-19-84
WELL NO. 2050 #2
API NO. 47-083-0943

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Union Drilling, Inc. DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address P. O. Drawer 40, Buckhannon, WV Address P. O. Drawer 40, Buckhannon, WV 26
Telephone 472-4610 Telephone 472-4610
LANDOWNER Martha Ball Jones SOIL CONS. DISTRICT Tygart Valley S.C.D.
Revegetation to be carried out by Union Drilling, Inc. (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan: 7/25/84 (Date)
Jean Freeman (SCD Agent)

ACCESS ROAD	LOCATION
Structure _____ (A)	Structure <u>Diversion</u> (1)
Spacing _____	Material <u>Earthen</u>
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	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	Treatment Area II
Lime <u>3</u> Tons/acre or correct to pH <u>6.5</u>	Lime <u>3</u> Tons/acre or correct to pH <u>6.5</u>
Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)
Mulch <u>2</u> Tons/acre	Mulch <u>2</u> Tons/acre
Seed* <u>Ky-31</u> 30 lbs/acre	Seed* <u>Ky-31</u> 30 lbs/acre
<u>Birdsfoot</u> 10 lbs/acre	<u>Birdsfoot</u> 10 lbs/acre
<u>Domestic Rye</u> 10 lbs/acre	<u>Domestic Rye</u> 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 seedling for one growing season. Attach separate sheets as necessary for comments.

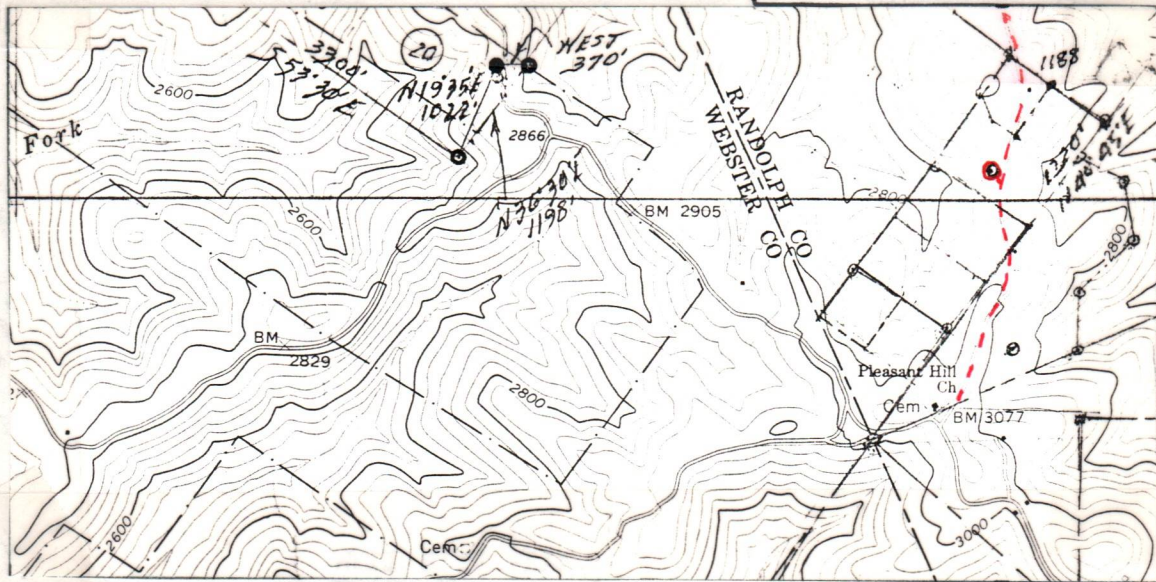
PLAN PREPARED BY Danny O. Morgan 12/01/2023
ADDRESS P. O. Drawer 40, Buckhannon, WV 2620
PHONE NO. (304) 472-4610

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

LEGEND

Well Site ⊕

Access Road ———

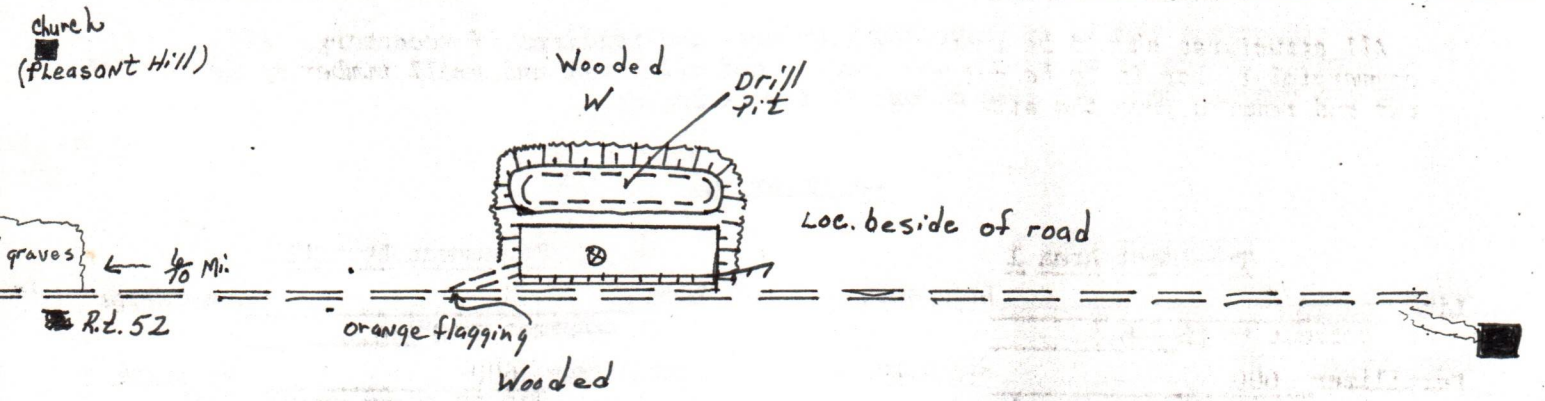


Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary ————	Diversion ————
Road = = = = =	Spring ○ →
Existing fence — x — x —	Wet spot ♂
Planned fence — / — / —	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe — ○ — ○ —
Open ditch — ···· — ···· —	Waterway ← = = = =

church



Top Soil will be pited.

Road Grade Loc. 0%+-

1) Date: July 25, 1984
2) Operator's Well No. 2060
3) API Well No. 47-083-0943
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 Martha Balli and Louie Jones
Address Star Route, P. O. Box 236
Volga, WV 26238

(ii) Name _____
Address _____

(iii) Name _____
Address _____

5(i) COAL OPERATOR

Address _____

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

Name Martha Balli and Louie L. Jones
Address Star Route, P. O. Box 236
Volga, WV 26238

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

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 25 day of July, 1984.

My commission expires 3-19, 1991.

Jimmie A. Bith, III
Notary Public, Upshur County,
State of West Virginia

WELL

OPERATOR Union Drilling, Inc.

By Joseph C. Pettey
Its Vice President of Production

Address Post Office Drawer 40
Buckhannon, WV 26201

Telephone 304-472-4610

RECEIVED

JUL 26 1984

OIL & GAS DIVISION
DEPT. OF MINES

12/01/2023

P33 8926185

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

INSTRUCTIONS TO APPLICANT

SENT TO	
Mr. & Mrs. Louie L. Jones	
STREET AND NO.	
Star Route, P. O. Box 236	
P.O., STATE AND ZIP CODE	
Volga, WV 26238	
POSTAGE	\$
CERTIFIED FEE	
c	
SPECIAL DELIVERY	
c	
RESTRICTED DELIVERY	
c	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
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
TOTAL POSTAGE AND FEES	\$
POST MARK OR DATE	
UDI Well No. 2058 and 2060	

PS Form 3800, Apr. 1976



number.
 y the Office of Oil & Gas.
 if necessary.
 f record to be served with Notice and Application. However,
 -4-lb(b) if "more than three tenants in common or other
 est described in subsection (a) of this section hold interests
 ans any person, firm, partnership, partnership association or
 proposes to or does operate a coal mine.
 (c). However, in lieu of filing the lease(s) or other con-
 , the Applicant may fill out the information in the space
 .1(d, e).

FEES FOR FILING AND SERVICE:

and Regulation 7.02 provide that the original and required
 Application must be filed with the Administrator, accom-
 the form prescribed by Regulation 11, (ii) a bond in one of
 Regulation 12, or in lieu thereof the other security allowed
 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>
Martha Balli Jones and Louie L. Jones	Union Drilling, Inc.	1/8	361/465

RECEIVED

SEP 12 1984



IV-35 (Rev 8-81)

OIL & GAS DIVISION State of West Virginia DEPT. OF MINES Department of Mines Oil and Gas Division

Date September 11, 1984 Operator's Well No. 2 - 2060 Farm Martha Jones #2 API No. 47 - 083 - 0943

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: 2925' Watershed Devil Fork of Buckhannon River District: Middle Fork County Randolph Quadrangle Goshen

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 Martha Jones ADDRESS Star Rt., P.O. Box 236, Volga, WV 26238 MINERAL RIGHTS OWNER Same ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Phil Tracy ADDRESS Fprest Fest., Apts., Elkins, WV PERMIT ISSUED 8/17/84 26241 DRILLING COMMENCED 8/20/84 DRILLING COMPLETED 8/26/84 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes like 20-16 Cord, 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Benson Depth 4200' feet Depth of completed well 4478' feet Rotary x / Cable Tools Water strata depth: Fresh none feet; Salt none feet Coal seam depths: 15/20, 91/94, 135/137, 443/445, 461/463, 483/486, 697/700, 747/750 Is coal being mined in the area? no

OPEN FLOW DATA Producing formation Riley, Benson Pay zone depth 4346' feet Gas: Initial open flow 14 Mcf/d Oil: Initial open flow Bbl/d Final open flow 750 Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests 2 hours Static rock pressure 750# psig (surface measurement) after 24 hours shut in (If applicable due to multiple completion--)

12/01/2023

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)

RAN 0943

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

Nowsco - 2 stage Foam Frac - 9/4/84

3901/35 - Riley - 45,000# sand, 119 Bbls water and 594,246 scf nitrogen

4342/46 - Benson - 45,000# sand, 319 Bbls water and 485,000 scf nitrogen

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	15	
Coal			15	20	
Sand & Shale			20	91	
Coal			91	94	
Sand & Shale			94	135	
Coal			135	137	
Sand & Shale			137	443	
Coal			443	445	
Sand & Shale			445	461	
Coal			461	463	
Sand & Shale			463	483	
Coal			483	486	
Sand & Shale			486	697	
Coal			697	700	
Sand & Shale			700	747	
Coal			747	750	
Sand & Shale			750	1694	
Blue Monday			1694	1740	
Big Lime			1744	1836	
Injun			1840	1980	
Squaw			1987	2020	
4th Sand			2412	2444	
5th Sand			2469	2531	
Bayard			2556	2603	
Lower Bayard			2608	2642	
Elizabeth			2842	2849	
Balltown			3322	3336	
Bradford			3656	3698	
Riley			3892	4034	
Benson			4338	4348	
				4478 T.D.	2/10ths thru 1" = 14 mcf

(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

9/11/84

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."



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NOV 1 - 1984

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

COMPANY Union Drilling
P. O. Drawer 40
Buckhannon, WV 26201

PERMIT NO 83-943
FARM & WELL NO James 2060
DIST. & COUNTY Wetzel, Boone, 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 Swoy
DATE 10-30-84

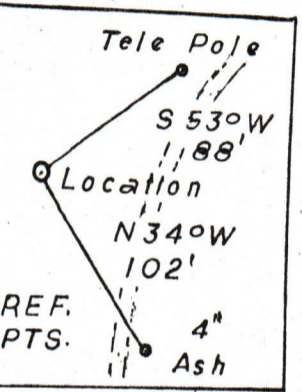
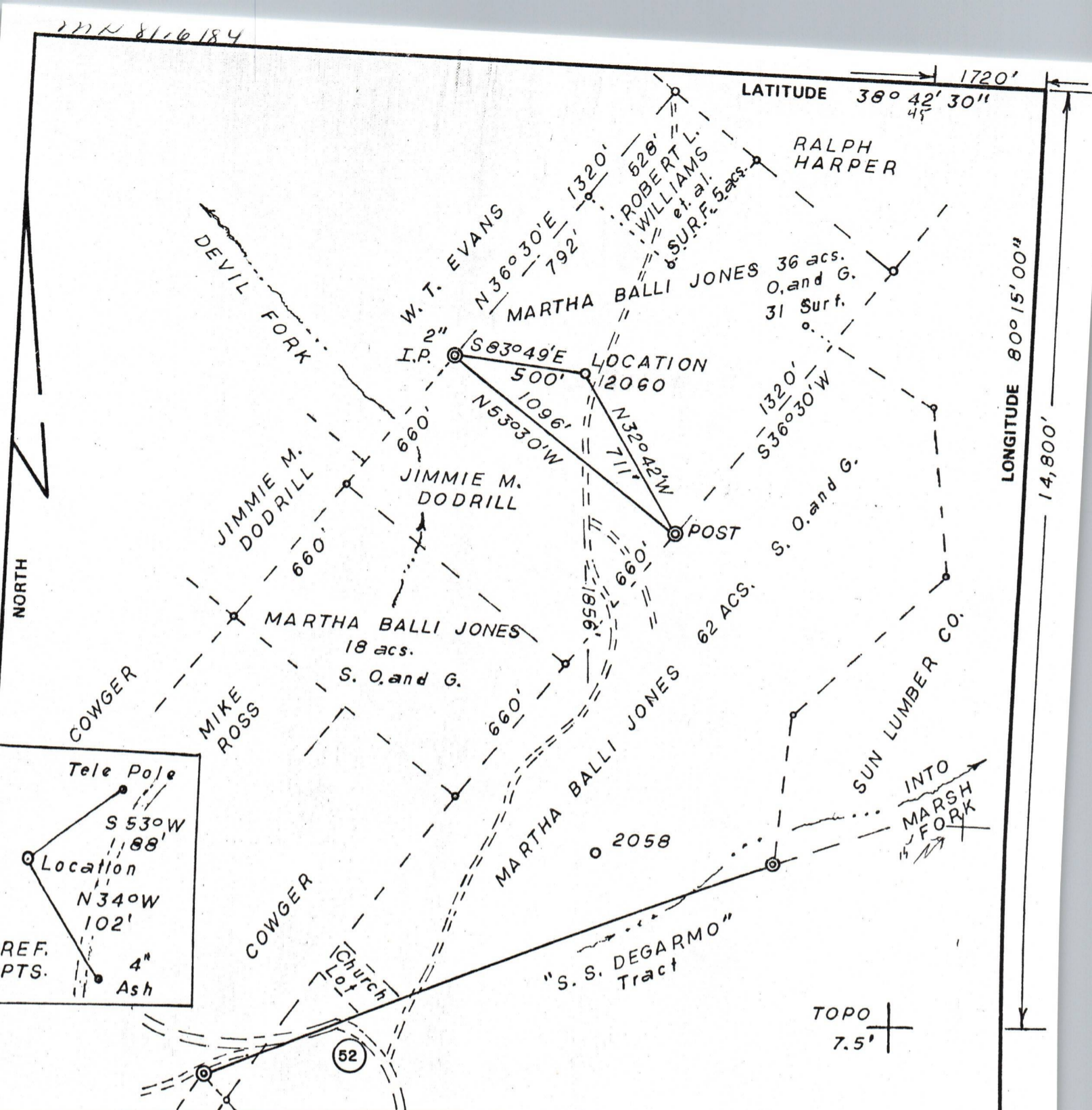
Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. ...
Administrator-Oil & Gas Division

January 11, 1985

DATE

222 81-6184



FILE NO. U.D.I. 3 67
 DRAWING NO. 84-25
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION B.M. AT CHURCH 2500'S.W. OF LOC. EL. 3077

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Thomas F. Weaver, Jr.
 R.P.E. _____ L.L.S. 410

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JULY 13, 19 84
 OPERATOR'S WELL NO. 2-2060
 API WELL NO. 47-083-0943
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 2925 WATER SHED DEVIL FORK OF BUCKHANNON RIVER
 DISTRICT MIDDLE FORK COUNTY RANDOLPH
 QUADRANGLE GOSHEN 7.5'
 SURFACE OWNER MARTHA BALLI JONES ACREAGE 31
 OIL & GAS ROYALTY OWNER MARTHA BALLI JONES LEASE ACREAGE 116 LEASE NO. 1402
 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 4200'
 WELL OPERATOR 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

RAND 943