



1) Date: December 8, 1983
 2) Operator's Well No. 996-1947
 3) API Well No. 47 - 083 - 0855
 State County Permit

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

- 4) WELL TYPE: Oil (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 2790 Watershed: Marsh Fork
 District: Middle Fork County: Randolph Quadrangle: Pickens
 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 General Delivery Address Post Office Drawer 40
Ellamore, WV 26267 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, Benson
 12) Estimated depth of completed well, 4000 feet.
 13) Approximate strata 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	11-3/4		32		X	30'	30'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8		23		X	1000'	1000'	286 sacks	CTS by rule 15.05 850'
Production	4-1/2	J	10.5	X		4000'	4000'	850'	
Tubing									Perforations: or as req. by rule 15.01
Liners									

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-083-0855 Well work started December 28, 1983
 Completion of the drilling December 28, 1983

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires December 28, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>MH</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>011 8560</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. File



OFFICE USE ONLY

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

1) WELL LOCATION: B (If Gas Production) _____ Underground storage _____
 Elevation _____
 2) WELL OPERATOR: _____
 Address _____
 3) OIL & GAS INSPECTOR TO BE NOTIFIED: _____
 Name _____
 Address _____
 4) PROPOSED WELL WORK: _____
 Drill _____
 5) GEOLOGICAL TARGET FORMATION: _____
 6) APPROXIMATE COAL SEAM DEPTH: _____
 7) APPROXIMATE STRATA DEPTH: _____
 8) ESTIMATED DEPTH OF COMPLETED WELL: _____
 9) COAL BEING MINED IN THE AREA: Yes _____ No _____

RECEIVED
OIL & GAS DIVISION
DEPT. OF MINES

Casing or tubing type	Casing or tubing length	SPECIFICATIONS		Weight per ft.	Grade	Joint length	Total length	Cement type	Packer
		Wall thickness	Joint length						
11-3/4"	30'	0.015	30'	32			30'		
8-1/2"	30'	0.015	30'	32			30'		

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:	Good	Agent	Part	Casing	Per
Reason: _____	BB	in	in	in	in
Reason: _____					

08/25/2023

IV-9
(Rev 8-81)



DATE 11-27-83
WELL NO. 1947
API NO. 47-8083-0855

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

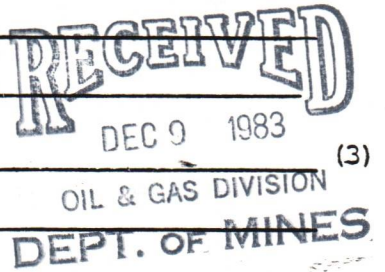
COMPANY NAME Union Drilling, Inc. DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address P. O. Drawer 40, Buckhannon, WV Address P. O. Drawer 40, Buckhannon, WV 2620
Telephone 472-4610 Telephone 472-4610

LANDOWNER Coastal Lumber Co. SOIL CONS. DISTRICT Tygart Valley
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: 12-6-83 (Date)

Junior Hefner
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert Pipe (12" Min)</u> (A)	Structure <u>Diversion Ditch</u> (1)
Spacing <u>At Natural Drains</u>	Material <u>Earthen</u>
Page Ref. Manual _____	Page Ref. Manual _____
Structure <u>Cross Drains</u> (B)	Structure _____ (2)
Spacing <u>250' +/-</u>	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure <u>Roadway Ditch</u> (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.

PLAN PREPARED BY Danny O' Morgan ADDRESS P. O. Drawer 40, Buckhannon, WV 26201

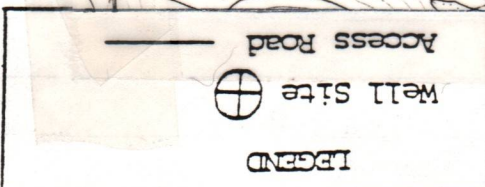
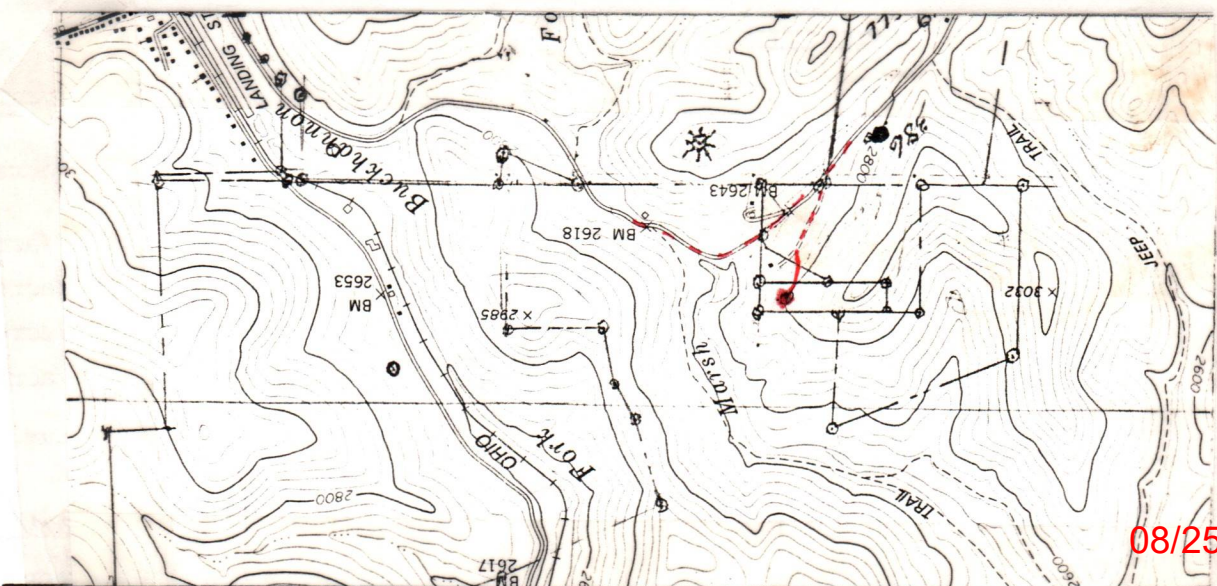
08/26/2023

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

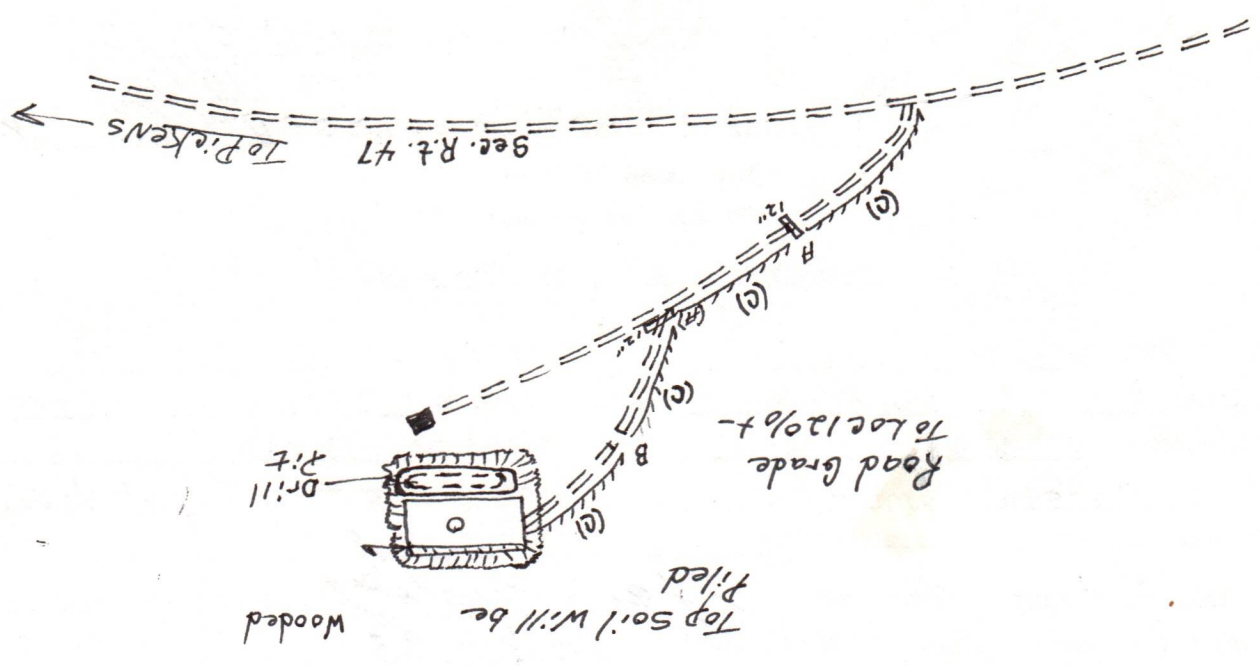
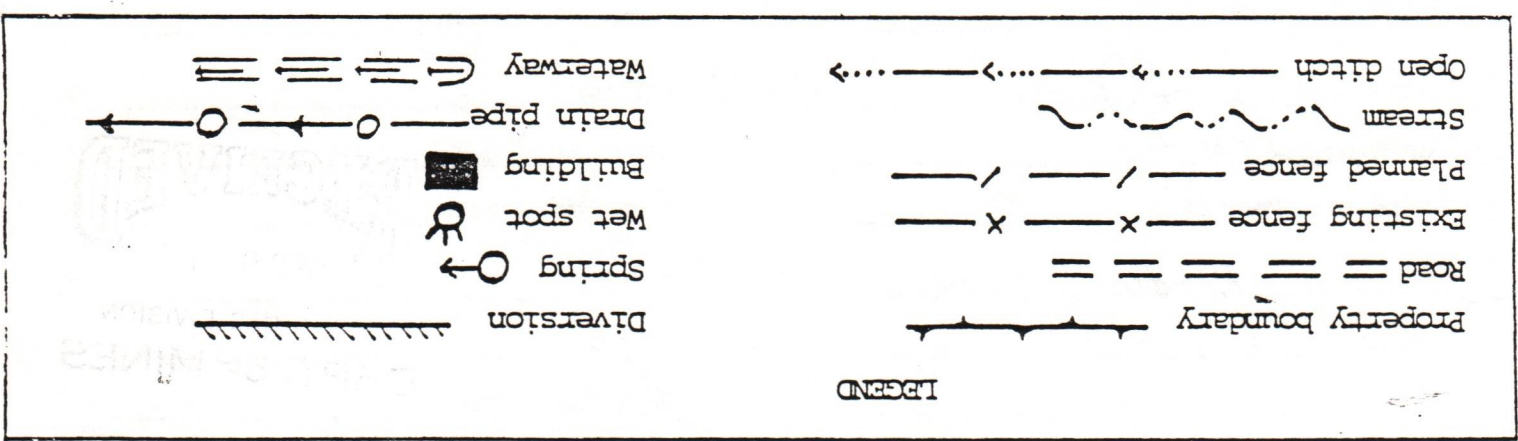
PHONE NO. (304) 472-4610

ATTACH OR PHOTOGRAPHY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Pickens

08/25/2023



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



1) Date: December 8, 1983

2) Operator's Well No. 6-1947

3) API Well No. 47-083-0855 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

5(i) COAL OPERATOR Address

(i) Name Coastal Lumber Address Box 8 Dailey, WV 26259

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD: Name J. M. Huber Corporation Address Post Office Box 1319 Maryville, TN 37801

(ii) Name Address

(iii) Name Address

Name Address

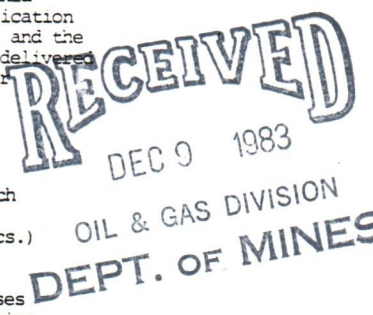
5(iii) COAL LESSEE WITH DECLARATION ON RECORD: Name Address

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.

X 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 Dean H. Bucher

this 8 day of December, 1983. My commission expires 3-3, 1991.

A. Bradford Zimmerman Notary Public, Upshur County, State of West Virginia

WELL

OPERATOR Union Drilling, Inc.

By Dean H. Bucher Its Geologist Address Post Office Drawer 40 Buckhannon, WV 26201 Telephone 304-472-4610

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 Page</u>
J. M. Huber Corporation	Union Drilling, Inc.	1/8	306/636

P 471 413 852

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982

Sent to		Coastal Lumber
Street and No.		Box 8
P.O., State and ZIP Code		Dailey, WV 26259
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	DEC 8 1983 WV	

P 471 413 853

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982

Sent to		J. M. Huber Corporation
Street and No.		Post Office Box 1319
P.O., State and ZIP Code		Maryville, TN 37801
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	DEC 8 1983 WV	

RECEIVED

FEB 16 1984



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date February 7, 1984
Operator's
Well No. 6 - 1947
Farm J.M.Huber Corp.
API No. 47 - 083 - 0855

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: 2790' Watershed Marsh Fork
District: Middle Fork County Randolph Quadrangle Pickens

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 Coastal Lumber

ADDRESS Box 8, Dailey, WV 26259

MINERAL RIGHTS OWNER J.M. Huber Corp.

ADDRESS P.O. Box 1319, Maryville, TN 37801

OIL AND GAS INSPECTOR FOR THIS WORK

Phil Tracy ADDRESS Gen. Del. Ellamore, WV 26267

PERMIT ISSUED 12/28/83

DRILLING COMMENCED 1/25/84

DRILLING COMPLETED 1/30/84

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"	31.0'		
9 5/8			
8 5/8	811.46'		245 cf
7			
5 1/2			
4 1/2	4073.55'		404 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4000' feet

Depth of completed well 4109 feet Rotary x / Cable Tools _____

Water strata depth: Fresh 1170' feet; Salt _____ feet

Coal seam depths: 424/427 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Riley, Benson Pay zone depth 4028 feet

Gas: Initial open flow 30 Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 267 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 2 hours

Static rock pressure 775# 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)

RAVO 855

RECEIVED
FEB 10 1984
DEPT. OF MINES

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

Halliburton - Foam Frac - 2/10/84

3714/18 - Riley - 450 sks. sand, 593 Bbls. water and 375,000 scf nitrogen
3747/49

4023/28 - Benson - 450 sks. sand, 549 Bbls water and 395,000 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	424	
Coal			424	427	
Sand & Shale			427	1471	Hole Damp @1170'
Little Lime			1471	1488	
Blue Monday			1488	1507	
Big Lime			1507	1629	
Big Injun			1768	1825	
Squaw			1834	1903	
Gordon			2084	2113	
4th Sand			2309	2344	
5th Sand			2374	2416	
Bayard			2423	2471	
Elizabeth			2554	2578	
Bradford			3394	3459	
Riley			3710	3795	
Benson			4018	4033	
				4109	T.D. 4/10 1" water - 21,000 cf

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By: Joseph C. Litley

08/25/2023

Date: Vice President of Production

2/14/84

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
NOV 1 - 1984

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

OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
February 22, 1984

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

PERMIT NO 083-0855
FARM & WELL NO J. M. Huber #6-1947
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	_____	_____

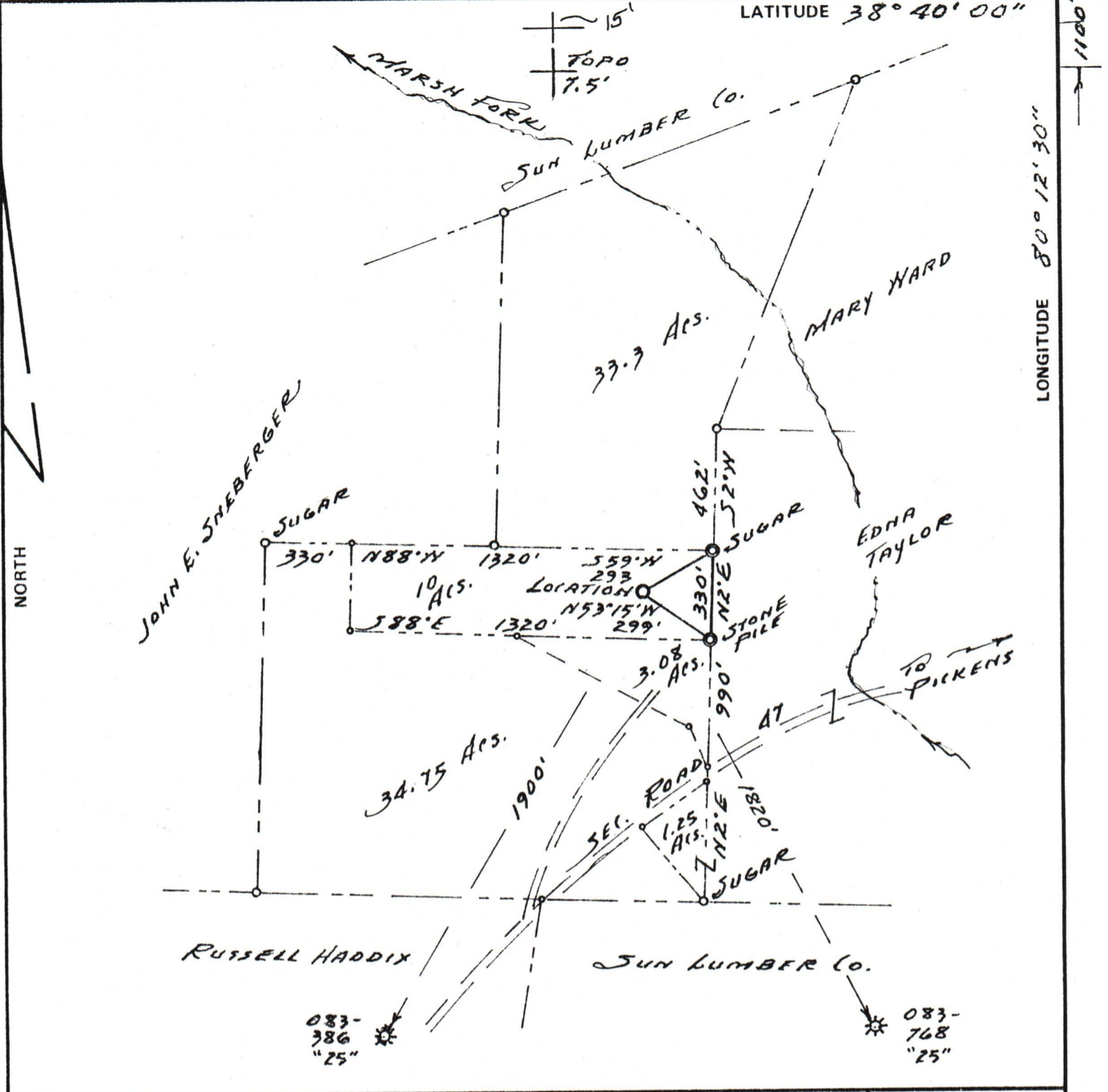
I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Phillip Gray
DATE 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 08/25/2023



FILE NO. 3-43
 DRAWING NO. 83-48
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION JCT. ROADS 1600' S.E. OF LOC.
EL. = 2618

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 Nov. 11, 19 83
 OPERATOR'S WELL NO. 6-1947
 API WELL NO. _____
47 - 083 - 0855
 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 2790 WATER SHED MARSH FORK
 DISTRICT MIDDLE FORK COUNTY RANDOLPH
 QUADRANGLE PICKENS
 SURFACE OWNER COASTAL LUMBER CO. ACREAGE 10
 OIL & GAS ROYALTY OWNER J. M. HUBER CORP. LEASE ACREAGE 6502
 LEASE NO. 789 08/25/2023
 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 4000'
 WELL OPERATOR UNION DRILLING INC. DESIGNATED AGENT JOSEPH C. VANZANT, JR.
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40,
BUCKHANNON, WY. 26201 BUCKHANNON, WY. 26201

RANDOLPH 855