



1) Date: May 18, 19 83
 2) Operator's Well No. 23A - 1884
 3) API Well No. 47 083 0781
 State County Permit

DRILLING CONTRACTOR:
Union Drilling, Inc.
P. O. Drawer 40
Buckhannon, WV 26201

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL AND GAS WELL PERMIT APPLICATION
 Harry McMullan #23A (1884)

- 4) WELL TYPE: A Oil / Gas XX /
 B (If "Gas", Production XX / Underground storage / Deep / Shallow XX /)
- 5) LOCATION: Elevation: 2190 Watershed: Middle Fork River
 District: Middle Fork County: Randolph Quadrangle: Cassity
- 6) WELL OPERATOR Union Drilling, Inc. 11) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address P. O. Drawer 40 Address P. O. Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201
- 7) OIL & GAS ROYALTY OWNER Harry McMullan, Jr. Estate 12) COAL OPERATOR
 Address Harry McMullan, III, Agent Address
8,663 P. O. Box 8
 Acreage Washington, NC 27889
- 8) SURFACE OWNER Westvaco Corp. 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address 203 Randolph Ave. Name AMAX Coal Company
Elkins, WV 26241 Address 105 S. Meridian Street
 Acreage 1020 Indianapolis, IN 46225
 Name
 Address
- 9) FIELD SALE (IF MADE) TO:
 Address Not Determined at this time
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert Stewart - 884-7782
 Address P. O. Box 345
Jane Lew, WV 26378
- 15) PROPOSED WORK: Drill XX / Drill deeper / Redrill / Fracture or stimulate XX /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Elk
- 17) Estimated depth of completed well, 5200 feet
- 18) Approximate water strata depths: Fresh, ? feet; salt, ? feet
- 19) Approximate coal seam depths: ? Is coal being mined in the area? Yes XX / No

JUN - 9 1983

OIL & GAS DIVISION
 DEPT. OF MINES

20) 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		Top	Bottom
Conductor	11 3/4			X		20'	20'			Kinds
Fresh water										
Coal										Sizes
Intermediate	8 5/8		23#	X		900'	900'	to surface		
Production	4 1/2		10 1/2#	X			5200'	400 sks. or		Depths set
Tubing								as required		
Liners										Perforations:
										Top Bottom

- 21) 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.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing 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.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: Sharon L. Stalaker Signed: Dean H. Bucher
 My Commission Expires May 22, 1989 Its: Dean H. Bucher, Geologist
 Commissioned as Sharon L. Kelley

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-083-0781 Date July 11, 19 83
10/13/2023

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. 10) 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.)

Permit expires March 11, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>B</u>	Agent: <u>Lo</u>	Plat: <u> </u>	Casing: <u> </u>	Fee: <u>005</u> <u>955</u>
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Michael J. Jones
 Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above 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 receipt thereof.

DRILLING 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.

10/13/2023

Date: _____, 19____

By _____

Its _____

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

RECEIVED

AUG - 8 1983

INSPECTOR'S WELL REPORT

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

Permit No. 083-781

Company <u>Union Drilling</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Buckhannon W.V.</u>	Size			
Farm <u>Harry M. Miller</u>	16			Kind of Packer _____
Well No. <u>23A-1884</u>	13			
District <u>Middle Fork</u> County <u>Randolph</u>	10			Size of _____
Drilling commenced _____	8 1/4	<u>127</u>	<u>787</u>	<u>260 sk cement</u>
Drilling completed _____ Total depth <u>750</u>	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: _____

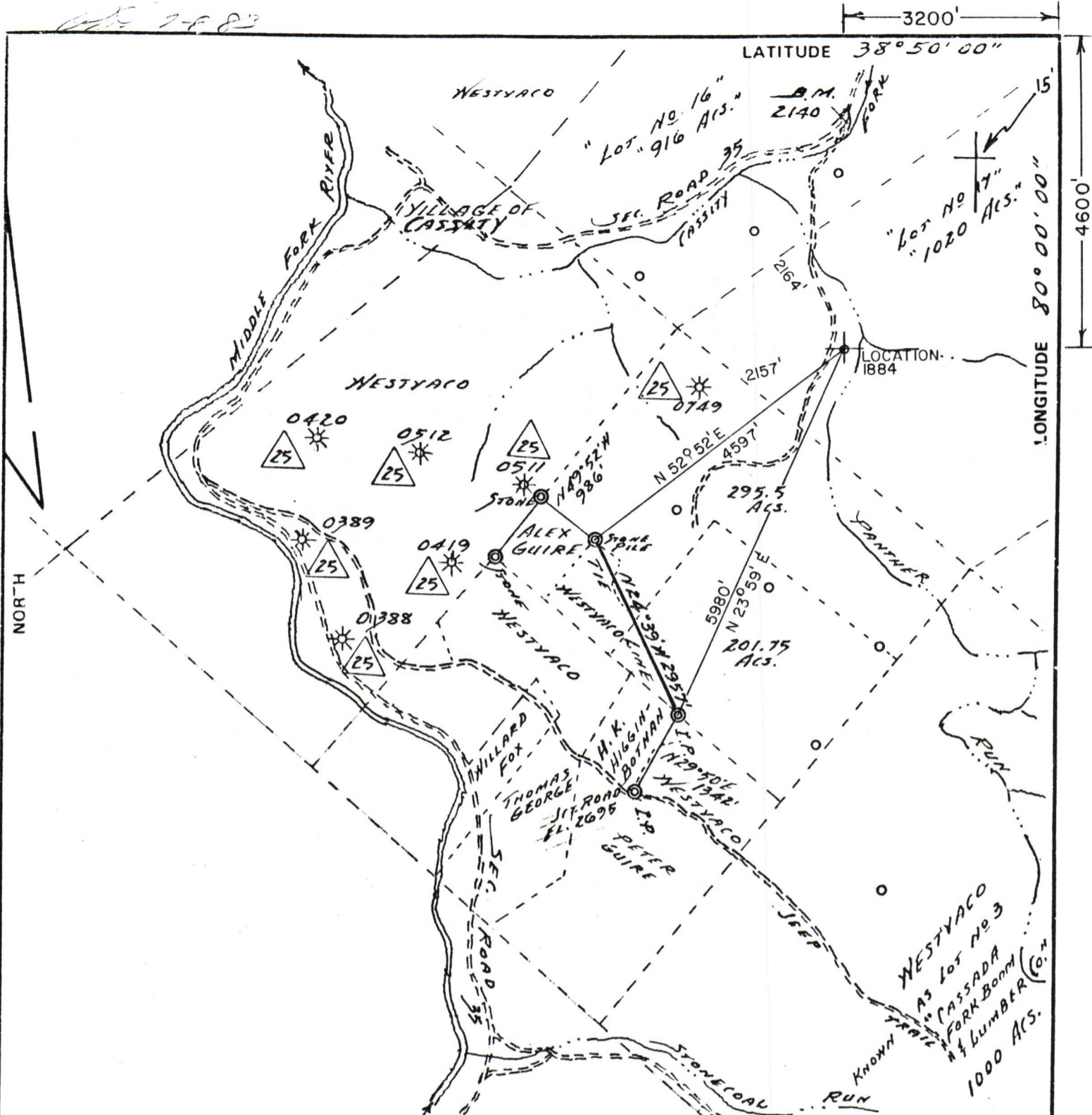
Aug 4, 83
DATE

Philip Long
DISTRICT WELL INSPECTOR

10/13/2023

DATE: Jan 14 84

10/13/2023



FILE NO. UDI-3-28
 DRAWING NO. 83-17
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION B.M. in ROCK 3500' N. of LOC. EL.=2140

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. Heaven, Jr.
 R.P.E. _____ L.L.S. 410

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

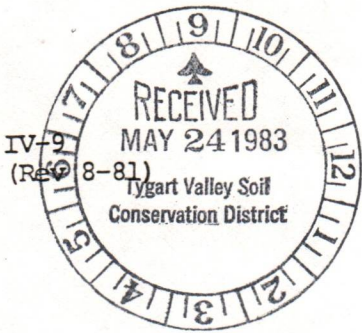


DATE APRIL 26, 19 83
 OPERATOR'S WELL NO. 1884-23A
 API WELL NO. 47-083-0781
 STATE COUNTY PERMIT

(+) 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 2190 WATER SHED MIDDLE FORK RIVER
 DISTRICT MIDDLE FORK COUNTY RANDOLPH
 QUADRANGLE CASSITY
 SURFACE OWNER WESTVACO CORPORATION ACREAGE 1020
 OIL & GAS ROYALTY OWNER HARRY McMULLAN, JR. ESTATE LEASE ACREAGE 8663
 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 ELK ESTIMATED DEPTH 5200'
 WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT JOSEPH C. YANZANT, JR.
 ADDRESS P.O. DRAWER 40 BUCKHANNON, W.VA. 26201 ADDRESS P.O. DRAWER 40 BUCKHANNON, W.VA. 26201

Rgn-781



DATE 5-19-1983

WELL NO. 1884

API NO. 47 - 083 - 0781

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

Address Union Drilling, Inc.

Telephone Buckhannon, WV 26201

Telephone P. O. Drawer 40
Buckhannon, WV 26201

LANDOWNER West Vaco

SOIL CONS. DISTRICT Tygart Valley

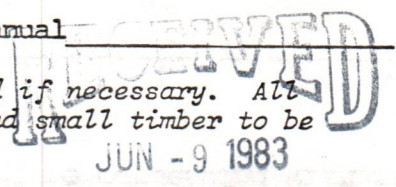
Revegetation to be carried out by Union Drilling, Inc. (Joseph C. Pettey, VP Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan: 5-24-83

Juanita H. H. H.
(Date)
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert Pipe (12" MIN)</u> (A)	Structure <u>Diversion</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 <u>Roadway Ditch</u>	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

OIL & GAS DIVISION
DEPT. OF MINES

Treatment Area I

Lime 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

Lime 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.

PLAN PREPARED BY Danny O. Morgan 4/13/2023


ADDRESS P. O. Drawer 40
Buckhannon, WV 26201


PHONE NO. (304) 472-4610

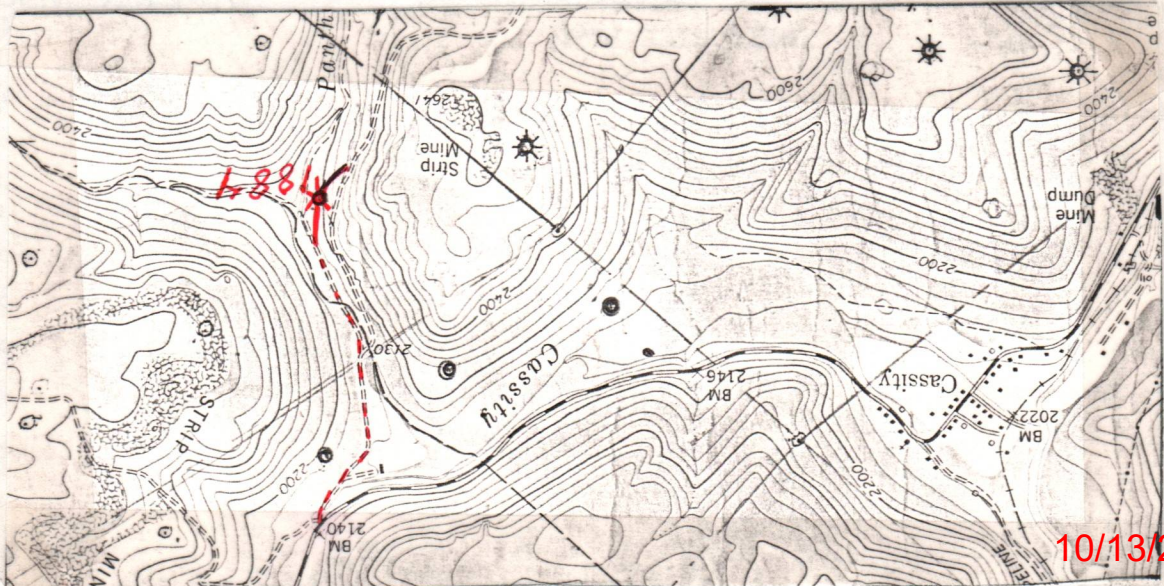
NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOGRAPHY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Cassidy 7.5

LEGEND


Well site 


Access Road 





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


LEGEND


Property boundary 


Road  = = = =


Existing fence  - X -


Planned fence  / / / /


Stream  ~ ~ ~ ~


Open ditch  - - - - -


Division  / / / / / / / /

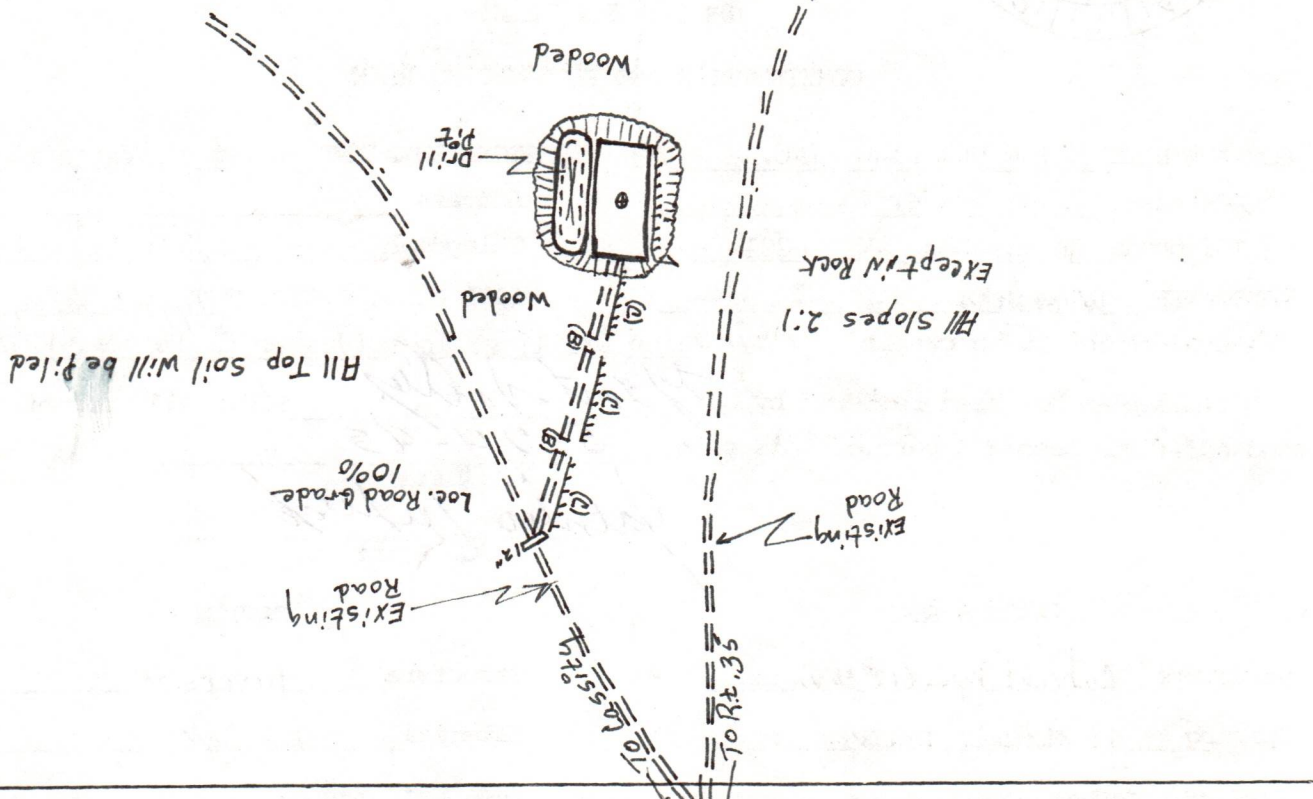
Spring  ○

Wet spot  ⊗

Building  ■

Drain pipe  — ○ — ○ —

Waterway  — / — / — / — / —



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

Halliburton Water Fractured 8/22/83

2542/48 Speechley 45,000# Sand and 410 Bbls. water
 2717/21 Balltown 45,000# Sand and 410 Bbls. water
 3492/12 Benson 45,000# Sand and 410 Bbls. water
 4636/47, 4699/03, 4793, 4807 Elk 45,000# Sand and 410 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
Silt			0	32'	
Sand & Shale			32'	128'	
Coal			128'	129'	Coal @ 128'
Sand & Shale			129'	178'	
Coal			178'	179'	Coal @ 178'
Sand & Shale			179'	258'	
Coal			258'	259'	Coal @ 258'
Sand			259'	411'	
Coal			411'	413'	Coal @ 411'
Sand & Shale			413'	465'	
Coal			465'	469'	Coal @ 465'
Sand			469'	505'	
Coal			505'	508'	Coal @ 505'
Sand & Shale			508'	513'	
Coal			513'	517'	Coal @ 513'
Sand & Shale			517'	1104'	
Big Lime			1104'	1271'	
Big Injun			1271'	1369'	
Sand & Shale			1369'	1407'	
Gantz			1407'	1424'	
Sand & Shale			1424'	1944'	
5th Sand			1944'	2040'	
Sand & Shale			2040'	2143'	
Elizabeth			2143'	2165'	
Sand & Shale			2165'	2540'	
Speechley			2540'	2547'	
Sand & Shale			2547'	2714'	
Balltown			2714'	2722'	
Sand & Shale			2722'	3490'	
Benson			3490'	3524'	
Sand & Shale			3524'	4010'	
Alexander			4010'	4142'	
Sand & Shale			4142'	4635'	
Elk			4635'	4851'	
Sand & Shale			4851'	5200'TD	Show

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By:

Joseph C. Pettey, Vice President of Production

Date:

September 6, 1983

10/13/2023

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

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

RECEIVED
AUG 17 1983

INSPECTOR'S WELL REPORT

Permit No. 883-781

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

Company <u>Union Drilling</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Harry McMullen</u>	16			Kind of Packer _____
Well No. <u>23A-1884</u>	13			
District <u>Middle Fork County Randolph</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth <u>4860</u>	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: Drilled at 4860

Aug 9, 83
DATE

Phillip Dugg
DISTRICT WELL INSPECTOR

10/13/2023

OK

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

RECEIVED
JUN 26 1984
OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 083-0781 County Randolph/Middle Fork
Company Union Drilling, Inc. Farm Harry McMullan #23A
Inspector PHILLIP TRACY Well No. 23A-1884
Date September 14, 1983

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to starting Work	_____	_____
25.04	Prepared before Drilling to prevent waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strength	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to prevent Waste	_____	_____
23.03	Reclaimed Drilling Site	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No surface or underground Pollution	_____	_____
7.03	Identification Markings	_____	_____

COMMENTS: _____

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

SIGNED: Phillip Tracy
DATE: Sept 14, 84

10/13/2023



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

WALTER N. MILLER
DIRECTOR

July 19, 1984

THEODORE M. STREIT
ADMINISTRATOR

Union Drilling, Inc.
P.O. Drawer 40
Buckhannon, W.Va. 26201

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

<u>PERMIT NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
083-0780	Harry McMullan, Jr. # 22A (1883)	Middle Fork (7-11-83)
083-0781	Harry McMullan, Jr. # 23A (1884)	Middle Fork (7-11-83)

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

Very truly yours,

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

TMS/ rls

10/13/2023