

KF- 7-17-80

Date: July 14, 1980, ~~XXXX~~

Operator's Well No. 2 - 1540-U

API Well No. 47 - 083 - 0341
State County Permit

Cleo W. Tacy, et.al. #2 (1540-U)

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

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 2192' Watershed: Hell Run
District: Roaring Creek County: Randolph Quadrangle: Ellamore

WELL OPERATOR UNION DRILLING, INC.
Address P. O. Drawer 40
Buckhannon, WV 26201

DESIGNATED AGENT UNION DRILLING, INC.
Address P. O. Drawer 40
Buckhannon, WV 26201

OIL & GAS (FEE SIMPLE)
ROYALTY OWNER (1/2) Cleo W. & Ruth Tacy
(1/2) Carl & Shirley Yokum
Address Cleo Tacy, Agent
P. O. Box 109
Elkins, WV 26241
Acreage 66.6

COAL OPERATOR
Address

SURFACE OWNER
Address
Acreage

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name
Address
Name
Address

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD
Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Stewart (884-7782)
Address P. O. Box 345
Jane Lew, WV 26378

RECEIVED
JUL 15 1980

UDI LEASE #1128 OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X / other contract ___ / dated May 22, 1980, to the undersigned well operator from Cleo & Ruth Tacy & Carl & Shirley Yokum
[If said deed, lease, or other contract has been recorded:]

Recorded on May 27, 1980, in the office of the Clerk of the County Commission of Randolph County, West Virginia, in Deed Book 330 at page 576. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper ___ / Redrill ___ / Fracture or stimulate X /
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

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.

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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

03/22/2024

UNION DRILLING, INC.
Well Operator
By Joseph Pettey
Its Joseph Pettey, Production Manager

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) UNION DRILLING, INC.

Address P. O. Drawer 40
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 4400 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, ? feet; salt, feet.

Approximate coal seam depths: ? Is coal being mined in the area? Yes / No /

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		
Conductor	11 3/4"			<input checked="" type="checkbox"/>		20'	20'	Kinds
Fresh water								
Coal								Sizes
Intermediate	8 5/8"		20#	<input checked="" type="checkbox"/>		800'	800'	to surface
Production	4 1/2"		10 1/2#	<input checked="" type="checkbox"/>		4400'	4400'	280 sks. Depths set
Tubing								
Liners								Perforations: Top Bottom

NOTE: 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.

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.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 3-18-81.

Paul R. Bunkle
Deputy Director - Oil & Gas Division

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:

W A I V E R

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.

03/22/2024

Date: , 19

By
Its

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

INSPECTOR'S WELL REPORT

Permit No. 083-0341

Oil or Gas Well GAS
(KIND)

Company <u>Union Drilling Inc</u>	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Address <u>Buck Harmon</u>	16			
Farm <u>Cleo W. Tacy</u>	13			
Well No. <u>2-1540-U</u>	10			Size of
District <u>Roaring Creek</u> County <u>Randolph</u>	8 1/4			
Drilling commenced <u>7-26-80</u>	6 5/8			Depth set
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top
Volume _____ Cu. Ft.				Perf. bottom
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Union Drig Rig 2

Remarks: Move Rig SPD

RECEIVED
JUL 29 1980

OIL & GAS DIVISION
DEPT. OF MINES

7-26-80
DATE

Robert St... 511
03/22/2024
DISTRICT WELL INSPECTOR

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

RECEIVED
JAN 12 1981

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 083-0341

Oil or Gas Well GAS
(KIND)

Company	Address	Farm	Well No.	District	County	Drilling commenced	Drilling completed	Date shot	Initial open flow	Open flow after tubing	Volume	Rock pressure	Oil	Fresh water	Salt water	Casing and Tubing	Used in Drilling	Left in Well	Packers
<u>UNION DRILLING</u>	<u>Buck Hannon</u>	<u>Cleo W. Tacy</u>	<u>2-1540-U</u>	<u>REARING CREEK</u>	<u>RANDOLPH</u>	<u>7-26-80</u>													

Drillers' Names _____

Remarks: _____

O.K. To Release

1-9-81
DATE

Robert Stearns 03/22/2024 511
DISTRICT WELL INSPECTOR



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

WALTER N. MILLER
DIRECTOR

February 3, 1981

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

Dear Sir:

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:

- 083-0341 - Cleo W. Tracy - Well No. 2-1540-U - Roaring Creek District - Randolph
- 097-2069 - Gaston Grocery Co. Farm - Well No. 1-1543-U - Washington District - Upshur
- 097-2113 - Steven G. Carpenter Farm - Well No. 1-1593-UC - Banks District - Upshur
- 097-2123 - Floda Dinser Farm - Well No. 1-1603-UC - Meade District - Upshur

In accordance with Chapter 22, Article 4, Section 2, the bond coverage for above captioned wells will stay in force for life of well. Reclamation requirements have been approved..... ..

Very truly yours,

A handwritten signature in cursive script, appearing to read "Fred Burdette", written over a horizontal line.

Fred Burdette

03/22/2024

RECEIVED

1.0 API well number: (If not available, leave blank. 14 digits.)	47-083-0341			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	N/A Category Code	OCT 20 1980	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4612 feet	OIL & GAS DISTRICT DEPT. OF MIN.		
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	UNION DRILLING, INC. Name		019434 Seller Code	
	P. O. Drawer 40 Street			
	Buckhannon City	WV State	26201 Zip Code	
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Roaring Creek District Field Name			
	Randolph County	WV State		
(b) For OCS wells:	Area Name _____ Block Number _____			
	Date of Lease: _____ Mo. Day Yr. OCS Lease Number _____			
(c) Name and identification number of this well: (35 letters and digits maximum.)	Cleo W. Tacy #2 1540			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	_____			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corporation Name		004030 Buyer Code	
(b) Date of the contract:	_____ Mo. Day Yr.			
(c) Estimated annual production:	Not In Production Yet MMcf.			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	2.312	---	---	2.312
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.312	---	---	2.312
9.0 Person responsible for this application:	Dean H. Bucher Name Geologist Title			
Agency Use Only	Signature <i>Dean H. Bucher</i>			
Date Received by Juris. Agency OCT 20 1980	OCT 16 1980 Date Application is Completed			
Date Received by FERC	(304) 472-4610 Phone Number			

03/22/2024

PARTICIPANTS:

DATE: MAR 23 1981

BUYER-SELLER CODE

WELL OPERATOR: UNION DRILLING, INC.

019434

CHASER: COLUMBIA GAS TRANS. CORP.

004030

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
801020-103-083 = 0341
 Use Above File Number on all Communications
 Relating to Determination of this Well

computer OK
~~470830268-1550' T.D.~~ Cancelled

Qualifies J E Huggins

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. 7.0 B+C 8.0 B+C
- 2. IV-1 Agent K.R. RANSON
- 3. IV-2 Well Permit
- 4. IV-6 Well Plat
- 5. IV-35 Well Record Drilling Deepening
- 6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced? Ratio
- 7. IV-39 Annual Production years
- 8. IV-40 90 day Production Days off line:
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - (54) - 55 - 56 - 57 - 58 Complete? Affidavit Signed
- 18-28. Other: Survey Logs Geological Charts
 Structure Map 1: 4000 Map Well Tabulations
 Gas Analyses
- (5) Date commenced: 7-26-80 Date completed 7-31-80 Deepened
- (5) Production Depth: 4400
- (5) Production Formation: ALEXANDER
- (5) Final Open Flow: 1,007 Mcf
- (5) After Frac. R. P. 1310# 48 hrs.
- (6) Other Gas Test: ~~_____~~
- (7) Avg. Daily Gas from Annual Production: ~~_____~~
- (8) Avg. Daily Gas from 90-day ending w/1-120 days ~~_____~~
- (8) Line Pressure: ~~_____~~ PSIG from Daily Report
- (5) Oil Production: ~~_____~~ From Completion Report ~~_____~~
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information? 03/27/2024
- Additional information Does computer program confirm?
- Was Determination Objected to By Whom?

DM

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES,
OIL AND GAS DIVISION
WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

Date OCT 16 1980, 19__
Operator's Well No. 2 - 1540 - UC
API Well No. 47 - 083 - 0341
State County Permit

DESIGNATED AGENT UNION DRILLING, INC.

ADDRESS P. O. Drawer 40
Buckhannon, WV 26201

LOCATION: Elevation _____

Watershed _____

Dist. _____ County _____ Quad. _____

Gas Purchase Contract No. _____

Meter Chart Code _____

Date of Contract _____

WELL OPERATOR UNION DRILLING, INC.

ADDRESS P. O. Drawer 40
Buckhannon, WV 26201

GAS PURCHASER Columbia Gas Trans. Corp.

ADDRESS Attn: Bill Gallagher
P. O. Box 498
Washington, PA 15301

Date surface drilling was begun July 26, 1980

Indicate the bottom hole pressure of the well and explain how this was calculated:

$$\begin{array}{r} 4734' \\ \times .35 \\ \hline 1657' \end{array}$$

AFFIDAVIT

I, Dean H. Bucher, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

Dean H. Bucher

STATE OF WEST VIRGINIA,

COUNTY OF Upshur, TO WIT

I, Robert Dennis Kander, a Notary Public in and for the state and county aforesaid, do certify that Dean H. Bucher, whose name is signed to the writing above, bearing date the 16th day of October, 19 80, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 16th day of October, 19 80.
My term of office expires on the 2nd day of February, 19 86. 03/22/2024

(NOTARIAL SEAL)



Robert Dennis Kander
Notary Public

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	3		½" Water @ 65'
Sand			3	117		½" Water @ 279'
Coal			117	121		
Sand			121	186		Coal @
Coal			186	189		117-121'
Sand			189	278		186-189'
Coal			278	281		278-281'
Sand & Shale			281	591		
Sand			591	634		
Shale			634	665		
Sand			665	700		
Red Rock, Sand & Shale			700	1082		
Big Lime			1082	1178		
Big Injun			1178	1294		
Shale			1294	1297		
Squaw			1297	1312		
Sand & Shale			1312	1614		
Gordon			1614	1641		
Sand & Shale			1641	1850		
5th Sand			1850	1863		
Shale			1863	1888		
Lower Bayard			1888	1990		
Sand & Shale			1990	2148		
1st Warren			2148	2158		
Sand & Shale			2158	3628		
Benson			3628	3651		
Sand & Shale			3651	3886		
Alexander Stray			3886	3946		
Sand & Shale			3946	4370		
Alexander			4370	4428		
Sand & Shale			4428	4593		
Lower Alexander			4593	4638		
Sand & Shale			4638	4734 TD		

03/22/2024

Date September 18, 19 80

APPROVED UNION DRILLING, INC. Owner

By Joseph C. Pettey
Joseph C. Pettey, Production Manager

RECEIVED

OCT 20 1980

State of West Virginia
Department of Mines
Oil and Gas Division
DEPT. OF MINES
WELL RECORD 29

Date: September 18, 1980
Operator's
Well No. 2-1540
API Well No. 47-083-0341
Cleo W. Tacy #2

Well Type: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas", Production / Underground storage / Deep / Shallow X /

Location: Elevation: 2192' Watershed Hell Run

District: Roaring Creek County: Randolph Quadrangle: Ellamore

Well Operator Union Drilling, Inc. Designated Agent Union Drilling, Inc.
Address P.O. Drawer 40 Address P.O. Drawer 40
Buckhammon, WV 26201 Buckhammon, WV 26201

Permitted Work: Drill X / Convert / Drill deeper / Redrill /
Fracture or stimulate X / Plug off old formation /
Preforate new formation / Other physical change in well (specify)

Permit Issued on July 15, 1980

Oil & Gas Inspector for This Work:
Name: Robert Stewart
Address: P.O. Box 345
Jane Lew, WV 26378

Geological Target Formation: Alexander Depth 4400 feet
Depth of completed well, 4734 feet Rotary X / Cable Tools /
Water strata depth: Fresh 1/2" @ 365 & 279' feet; Salt, feet.
Coal seam depths: 117/121, 186/189, 278/281' Is coal being mined in the area? No
Work was commenced July 26, 1980, and completed July 31, 1980

Casing and Tubing Program

Casing or Tubing Type	Size	Specifications		New	Used	Footage Intervals		Cement Fill-Up Or Sacks (cubic feet)
		Grade	Weight per ft			For drilling	Left in well	
Conductor	11 3/4			X		15	15	
Fresh Water								
Coal								
Intermediate	8 5/8		23#	X		727.40	727.40	200 sks.
Production	4 1/2		10 1/2#	X		4679.79	4679.79	550 sks.
Tubing								
Liners								

Well Treatment details:

Halliburton Water Fracture on August 14, 1980

1st Warren - 454 bbls. Water - 45,000# Sand - 2152/54, 2160/62'
Benson - 445 bbls. Water - 45,000# Sand - 3629/32, 3638/41'
Upper Alexander - 475 bbls. Water - 45,000# Sand - 3890/92, 3912/15'
Lower Alexander - 445 bbls. Water - 45,000# Sand - 4400/03, 4415/17, 4594 1/2/96 1/2,
4610 1/2/12 1/2' 03/22/2024

Gas: Initial open flow, Show Mcf/d Oil: Initial open flow, Bbl/d
Final open flow, 1,007 Mcf/d Final open flow, Bbl/d
Static Rock Pressure, 1310 psig (surface measurement) after 48 hours shut in.

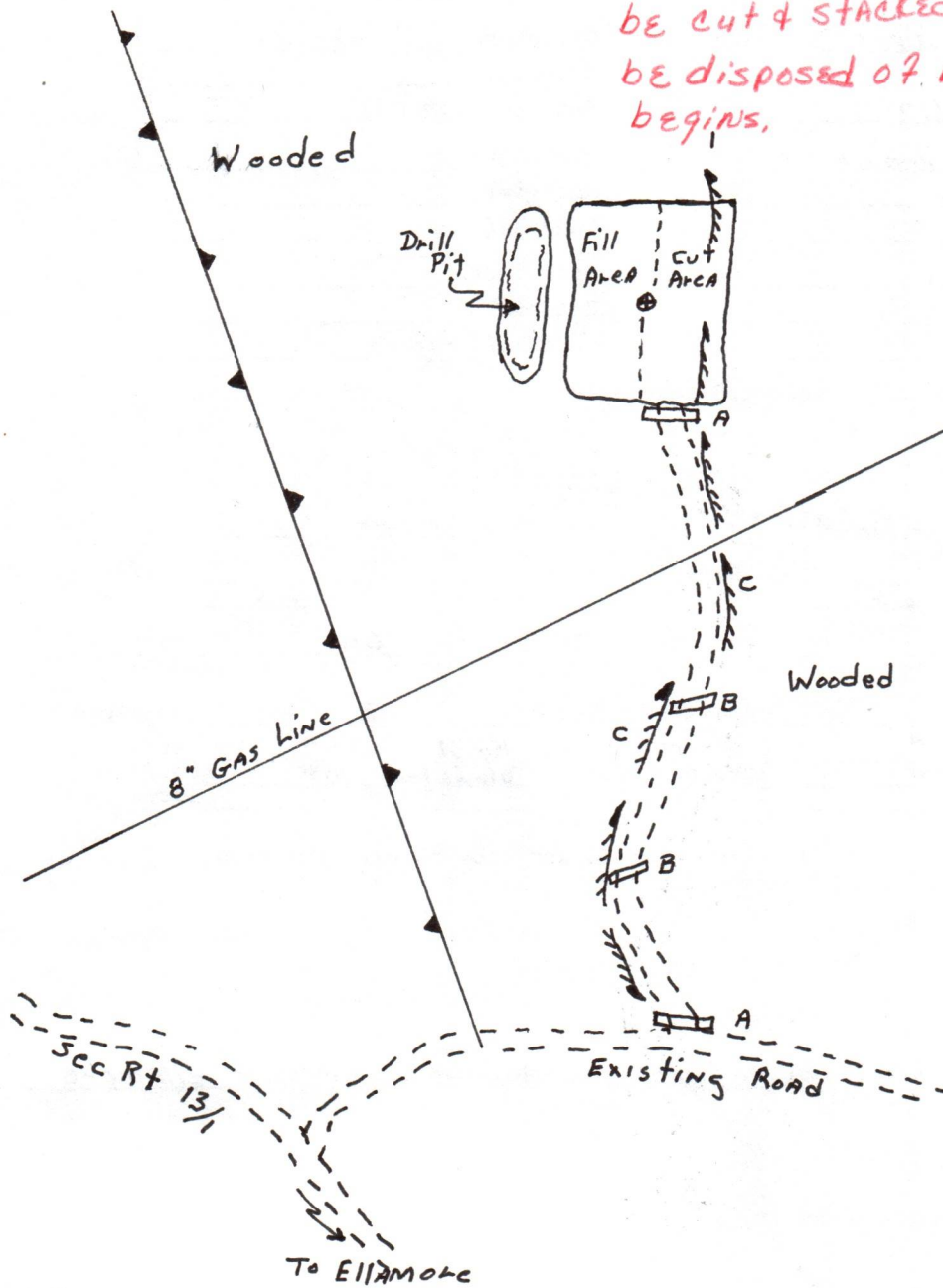
(Well log on reverse side)

Well Site Plan

- | | | | |
|---------------------------|--|------------|--|
| Legend: Property Boundary | | Diversion | |
| Road | | Spring | |
| Existing Fence | | Wet Spot | |
| Planned Fence | | Building | |
| Stream | | Drain Pipe | |
| Open Ditch | | Waterway | |

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

All marketable timber should be cut & stacked. All brush should be disposed of before dirt work begins.



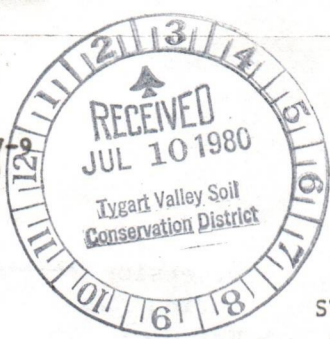
DRAWING NOT TO SCALE

Comments: All Cut Slopes to be 2:1 Except in ROCK
Grade of Access Road ± 3%

Signature: Josyl C. Patton P.O. DRAWEL 40, BUCKHANNON, W.VA. 472-4610
 Agent Address Phone Number

03/22/2024

Please request landowners cooperation to protect new seeding for one growing season.



Date July 9 1980
Well No. 1540
API No. 47 - 083 - 0341
State County Permit

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name UNION DRILLING INC. Designated Agent UNION DRILLING INC.
Address P.O. DRAWER 40, BUCKHANNON, W.VA. Address P.O. DRAWER 40, BUCKHANNON, W.VA.
Telephone 472-4610 Telephone 472-4610
Landowner Cleo W. Tacy Soil Cons. District Tygarts Valley

Revegetation to be carried out by UNION DRILLING INC (Agent)

This plan has been reviewed by TYGARTS VALLEY SCD. All corrections and additions become a part of this plan. 7/10/80 (Date) Junior Hedrick (SCD Agent) Jan Freeman

Access Road	Location
Structure <u>DRAINAGE PIPES</u> (A) Spacing <u>12" Min.</u> Page Ref. Manual <u>1:7</u>	Structure <u>DIVERSION</u> (1) Material _____ Page Ref. Manual _____
Structure <u>CROSS DRAINS</u> (B) Spacing <u>400</u> Page Ref. Manual <u>15</u>	Structure _____ (2) Material _____ Page Ref. Manual _____
Structure <u>DIVERSION</u> (C) Spacing _____ Page Ref. Manual _____	Structure _____ (3) Material _____ Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary.

Revegetation

Treatment Area I	Treatment Area II
Lime _____ Tons/acre or correct to pH <u>6.5</u>	Lime _____ 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 30#</u> lbs/acre <u>Birdsfoot 10#</u> lbs/acre	Seed* <u>Ky 31 30#</u> lbs/acre <u>Birdsfoot 10#</u> lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

Attach or photocopy section of involved Topographic map. Quadrangle ELLAMORE

Legend: ⊕ Well Site
— Access Road

RECEIVED
JUL 15 1980
OIL & GAS DIVISION
DEPT. OF MINES

