



1) Date: March 16, 1984
 2) Operator's Well No. 2028
 3) API Well No. 47 053 - 0347
 State County Permit

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

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 682.49 Watershed: Stonecoal Run
 District: Hannan County: Mason Quadrangle: Apple Grove
- 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 Jerry Tephabock Name Union Drilling, Inc.
 Address Route 1, Box 101-A Address Post Office Drawer 40
Ripley, WV 25271 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, Devonian Shale
- 12) Estimated depth of completed well, 3500 feet
- 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes No

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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 882'	1000 882'	to surface	by rule 15.05
Production	4-1/2	J	10 1/2	X		3500'	3500'	as required	Depths set
Tubing									by rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-053-0347

April 6, 19 84
Date

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 April 6, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>lp</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>015-377</u>
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[Signature]
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

1) WELL ID: _____

2) LOCATION: _____

3) WELL OPERATOR: _____

4) DRILLING CONTRACTOR: _____

5) PROPOSED WELL WORK: _____

6) APPROXIMATE COST: _____

7) ESTIMATED DEPTH: _____

8) APPROXIMATE DATE: _____

9) OTHER PHYSICAL CHANGES: _____

10) DESIGNATED AGENT: _____

11) COUNTY: _____

12) DISTRICT: _____

13) ELEVATION: _____

14) PRODUCTION: _____

15) STORAGE: _____

16) DEPTH: _____

17) SHALLOW: _____

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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: _____

Reason: _____

Agent	Plan	Casing	Rev

08/25/2023

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



IV-9
(Rev 8-81)

DATE March 5, 1984

WELL NO. 2028-1

State of West Virginia
Department of Mines
Oil and Gas Division

API NO. 47-053-0347

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Union Drilling, Inc.
Address P O Drawer 40
Buckhannon, WV 26201
Telephone 304/472-4610

DESIGNATED AGENT Joseph C. Vanzant
Address P O Drawer 40
Buckhannon, WV 26201
Telephone 304/472-4610

LANDOWNER Elmer Lowry

SOIL CONS. DISTRICT Western

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

This plan has been reviewed by Western SCD. All corrections and additions become a part of this plan: Mar. 12, 1984 (Date)

Leslie Rayburn
(SCD Agent)

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ACCESS ROAD

LOCATION

MAR 10 1984

Structure 36" culvert (A)

Structure drill pit OIL & GAS DIVISION (1)

Spacing _____

Material earth DEPT. OF MINES

Page Ref. Manual 2:8

Page Ref. Manual _____

Structure existing culvert (B)

Structure diversion ditch (2)

Spacing _____

Material earth

Page Ref. Manual _____

Page Ref. Manual 2:13

Structure cross drains (C)

Structure _____ (3)

Spacing 45'

Material _____

Page Ref. Manual 2:4

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 3 Tons/acre
or correct to pH 6.5

Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Hay or Straw 2 Tons/acre

Mulch Hay or Straw 2 Tons/acre

Seed* Orchard Grass 30 lbs/acre

Seed* Orchard Grass 30 lbs/acre

Red Clover 4 lbs/acre

Red Clover 4 lbs/acre

Ladino Clover 2 lbs/acre

Ladino Clover 2 lbs/acre

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

PLAN PREPARED BY C. T. Tolley, Jr. 08/25/2023

ADDRESS 7911 Sissonville Drive

Sissonville, WV 25320

PHONE NO. 304/988-9432

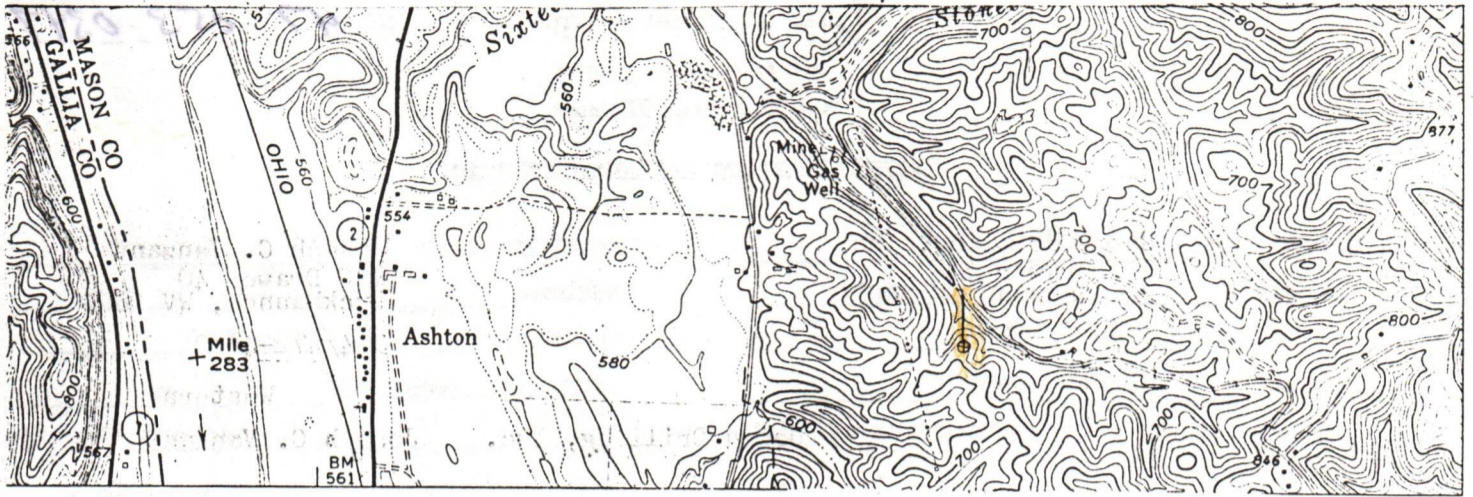
NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Apple Grove

LEGEND

Well Site ⊕

Access Road ———

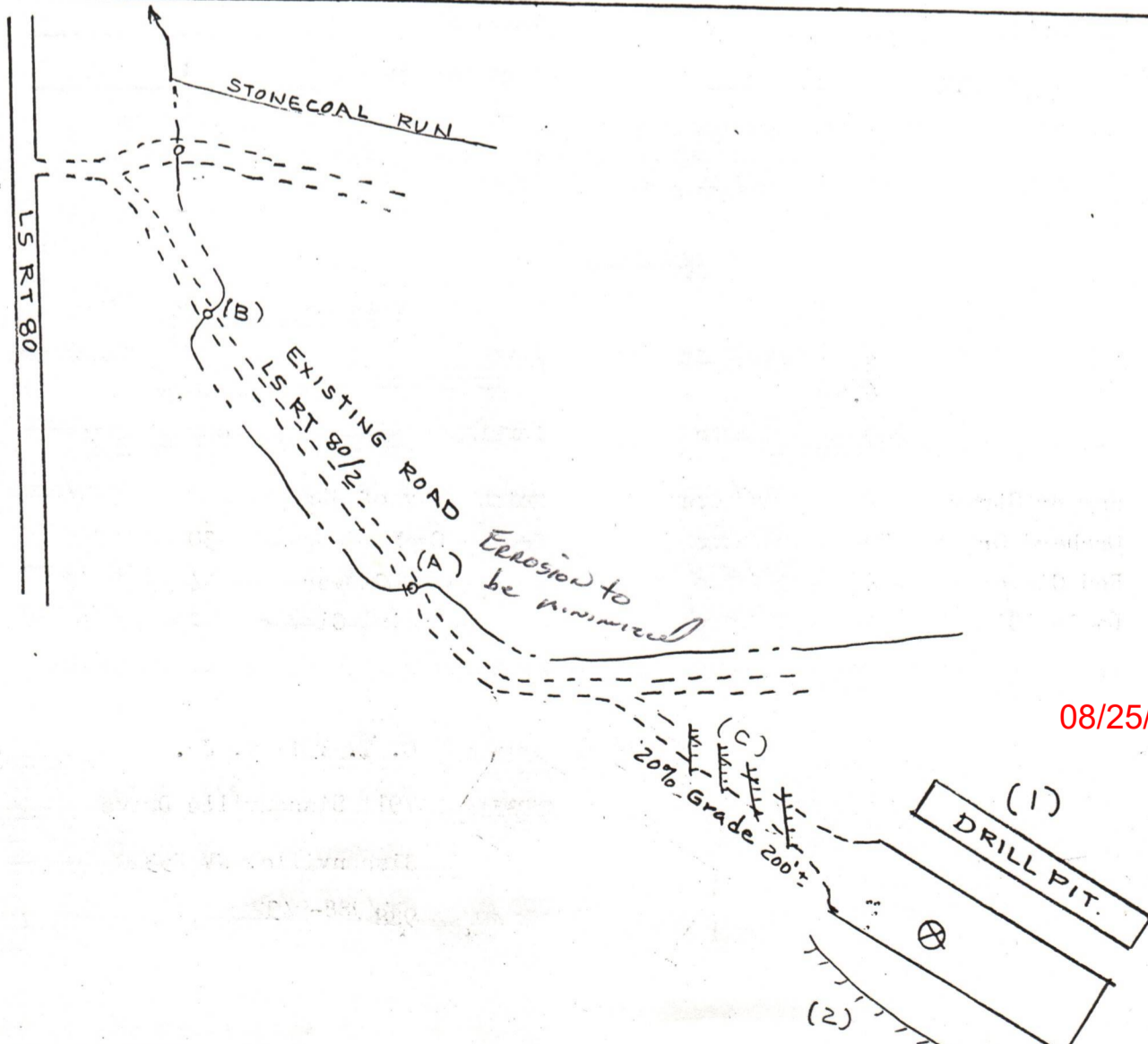


WELL SITE PLAN

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 ⇐=⇒=⇒=⇒



08/25/2023

1) Date: March 16, 1984
2) Operator's Well No. 2028
3) API Well No. 47-053-0347
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 Elmer F. Lowry
Address Ashton, WV 25503
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Elmer F. Lowry
Address Ashton, WV 25503

Name _____
Address _____

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

P 534 411 012

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Mr. Elmer F. Lowry
Street and No.	
P.O., State and ZIP Code	Ashton, WV 25503
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	\$1.72
Postmark or Date	MAR 16 1984 2028

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

PS Form 3800, Feb. 1982

and the following documents:
or Form IV-4 if the well is
he drilling or other work,
able, the proposed casing and

Form IV-6; and
ess the well work is only to
ediment control and for

HTS REGARDING THE APPLICATION
THE COPY OF THE APPLICATION
T REQUIRED TO TAKE ANY

the undersigned well op-
and accompanying documents
l and Gas, West Virginia
ibed on attached Application
pplication, the plat, and the
or certified mail or delivered
n circumstances) on or

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MAR 19 1984

OIL & GAS DIVISION

DEPT. OF MINES

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 16 day of March, 1984.

My commission expires 3-3, 199.

A. Buford Zimmerman
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

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>
Elmer F. Lowry	Cyclops Corporation	1/8	44/732
Cyclops Corporation	Union Drilling, Inc.		49/507

08/25/2023

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

Nowsco - 1 stage Foam Frac - 9/29/84

40 perforations - Superior Wireline

2948/84 - Lower Huron - 60,000# sand, 155 Bbls water and 806,160 scf nitrogen

3044/3224

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	171	
Clay			171	176	
Sand & Shale			176	230	
Clay			230	236	
Sand & Shale			236	386	
Coal			386	389	1/2" stream water @390'
Sand & Shale			389	1390	1" stream water @415'
Big Lime			1390	1492	1" stream salt water @741'
Injun			1492	1630	3" stream salt water @1290'
Berea			2002	2038	3" stream salt water @1630'
Top of Devonian Shale			2038		
Upper Huron Shale			2891	2900	
Lower Huron Shale			2944	3226	
Angola Shale			3226	3407	
				3415'	T.D. odor gas

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By: Joseph C. Petty 08/25/2023
Date: Joseph C. Petty, Vice President of Production

10/8/84

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 coal, encountered in the drilling of a well."



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MAY 21 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
November 8, 1984

COMPANY Union Drilling, Inc.

PERMIT NO 053-0347

P. O. Drawer 40

FARM & WELL NO Elmer Lowry #1-2028

Buckhannon, West Virginia 26201

DIST. & COUNTY Hannan/Mason

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 *Jeffrey T. ...*

DATE 5-15-85

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.

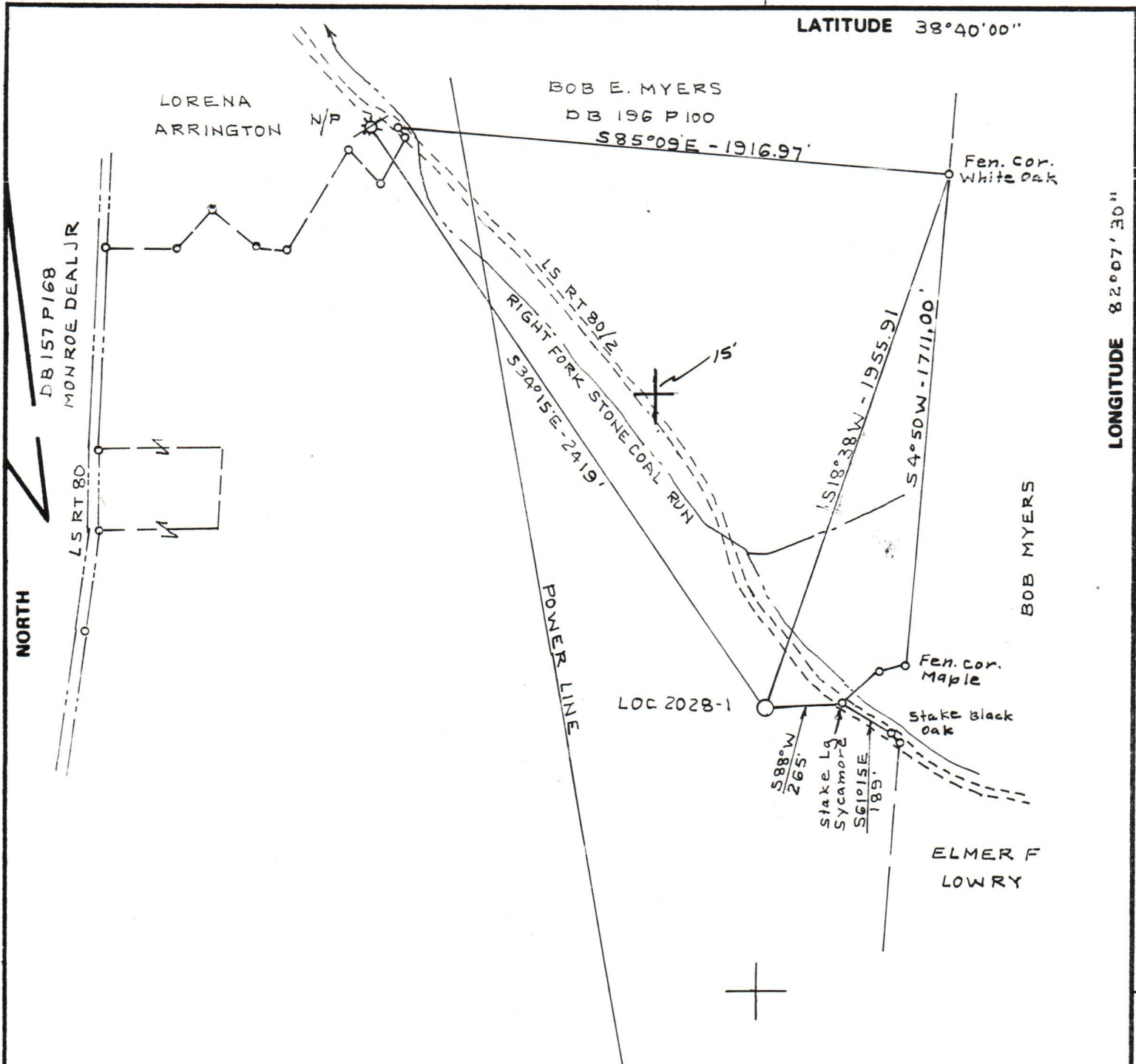
T. H. ...

Administrator-Oil & Gas Division

May 24, 1985
DATE

5200'

LATITUDE 38°40'00"



LONGITUDE 82°07'30"

FILE NO. BK 82 P 70
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200'
 PROVEN SOURCE OF ELEVATION USGS BM
Jack RT 2 & LS RT 37
EL 583

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) C. S. Valley Jr.
 R.P.E. _____ U.S. 92

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE FEB 27, 19 84
 OPERATOR'S WELL NO. 2028-1
 API WELL NO. _____
47 - 053 - 0347
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 682.49' WATER SHED STONE COAL RUN
 DISTRICT HANNAN COUNTY MASON
 QUADRANGLE APPLE GROVE
 SURFACE OWNER ELMER F. LOWRY ACREAGE 410
 OIL & GAS ROYALTY OWNER ELMER F. LOWRY LEASE ACREAGE 410 08/25/2023
 LEASE NO. C-2-602
 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 DEVONIAN SHALE ESTIMATED DEPTH 3500'
 WELL OPERATOR UNION DRILLING INC. DESIGNATED AGENT JOSEPH VANZANT
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON WV 26201 BUCKHANNON WV 26201