



Well No. # 1 Twinhead  
Farm CLYDE E. ROSS  
API #47 - 085- 5743  
Date JUNE 22, 1982

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil xx/ Gas xx  
(If "Gas", Production xx/ Underground storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /

LOCATION: Elevation: 977' Watershed: BEAR RUN  
District: GRANT County: RITCHIE Quadrangle: SHULTZ 7.5'

WELL OPERATOR B & L OIL CO. DESIGNATED AGENT C. JO MCCRADY  
Address 1420 7th st. Address 1420 7th st.  
PARKERSBURG, WV 26101 PARKERSBURG, WV

OIL AND GAS ROYALTY OWNER CLYDE E. ROSS COAL OPERATOR  
Address RT 1 Address n/a  
CAIRO, WV 26337

Acreage 70.83

SURFACE OWNER CLYDE E. ROSS COAL OWNER(S) WITH DECLARATION ON RECORD:  
Address RT 1 NAME  
CAIRO, WV 26337 Address

Acreage 70.83

FIELD SALE (IF MADE) TO: NAME

Address

COAL LESSEE WITH DECLARATION ON RECORD:  
NAME

Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:

NAME DEO MACE

Address RT 1 BOX 65

SANDRIDGE, WV 25274

Telephone 655-8693

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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 xx / other contract \_\_\_ / dated OCT. 8 19 81 to the undersigned well operator from CLYDE E. AND WILMA ROSS.

(If said deed, lease, or other contract has been recorded:)

Recorded on OCT 8, 19 81, in the office of the Clerk of County Commission of

RITCHIE County, West Virginia, in 138 Book at page 783 A permit is requested as follows:

PROPOSED WORK: Drill xx / Drill Deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate \_\_\_ / 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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

04/19/2024

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1613 WASHINGTON ST., E.  
CHARLESTON, WV 25311  
Telephone - 304/348-3092

BLANKET BOND

B & L OIL CO.  
Well Operator  
By: C. Jo McCrady  
Its: DESIGNATED AGENT



(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) B & L OIL CO.

Address 1420 7th st.

PARKERSBURG, WV 26101

GEOLOGICAL TARGET FORMATION MARCELLUS SHALE

Estimated depth of completed well 5800' feet. Rotary      / Cable tools      /

Approximate water strata depths: Fresh, 227 feet; salt, 477 feet.

Approximate coal seam depths: n/a

Is coal being mined in this area: Yes      / No xx /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling	Left in Well		
Conductor	11"					300'	300'		Kinds
Fresh water									
Coal									Sizes
Intermed.	8 5/8	J55	24½			480'	480'	to surface	
Production	4 1/2	J55	10.5				5800'	500 bks	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,**

**ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY**

**APPROVED FOR drilling . THIS PERMIT SHALL EXPIRE**

**IF OPERATIONS HAVE NOT COMMENCED BY 3-9-83 :**

**BY [Signature]**

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 regularions. 04/19/2024

Date:     , 19     .

By:     

Its:     

BANKET BOND



ATTACH OR PHOTOCOPY SECTION OF  
INVOLVED TOPOGRAPHIC MAP.  
QUADRANGLE Schultz (7.5')

**LEGEND**

Well Site ⊕

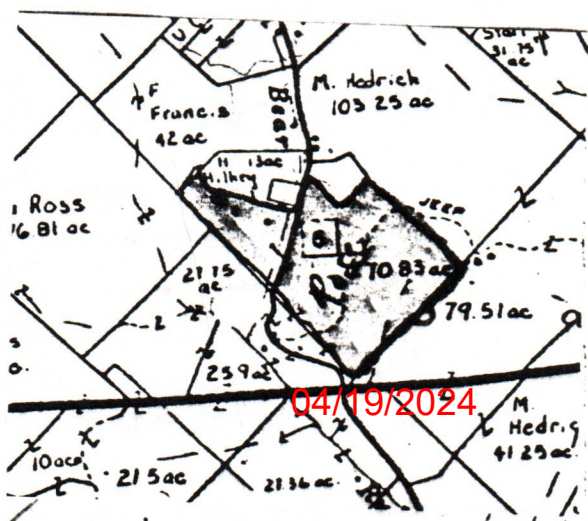
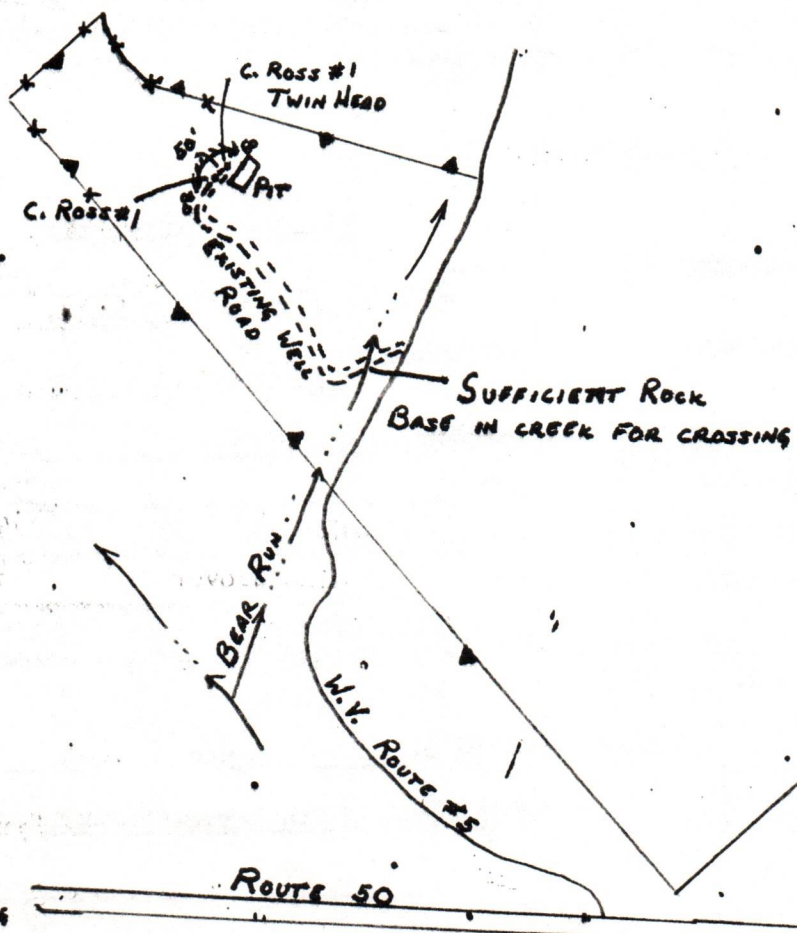
Access Road ———



**LEGEND**

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

- Comments: 1) Location existing for C. Ross #1  
 2) Twinhead 50' from C. Ross#1  
 3) No more grading needed for new well  
 4) Existing road to location used for C. Ross #1







DATE June 21, 1982  
WELL NO. C. Ross #1 Twin Head  
API NO. 47 - 085 - 5743

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME B&L Oil Company  
Address 1420 7th Street Parkersburg, W.V.  
26101  
Telephone (304) 424-5220

DESIGNATED AGENT C. Jo McCrady  
Address 1420 7th Street Parkersburg, W.V.  
26101  
Telephone (304) 424-5220

LANDOWNER Clyde Ross  
Revegetation to be carried out by C. Jo McCrady

SOIL CONS. DISTRICT Little Kanawha  
(Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 6-23-82  
(Date)

Jarrett Newlon  
(SCD Agent)

ACCESS ROAD

LOCATION

Structure \_\_\_\_\_ (A)  
Spacing \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_  
Structure \_\_\_\_\_ (B)  
Spacing \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_  
Structure \_\_\_\_\_ (C)  
Spacing \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_

Structure Diversion Ditch (1)  
Material soil  
Page Ref. Manual 2:10  
Structure Rip-Rap (2)  
Material Stone  
Page Ref. Manual N/A  
Structure \_\_\_\_\_ (3)  
Material \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_

*See Comment*

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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 \_\_\_\_\_ Tons/acre  
or correct to pH 6.5  
Fertilizer 500 lbs/acre  
(10-20-20 or equivalent)  
Mulch hay or straw Tons/acre  
Seed\* ky 31 40 lbs/acre  
Redtop 5 lbs/acre  
Ladino Clover 3 lbs/acre  
Timothy 6

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or correct to pH 6.5  
Fertilizer 500 lbs/acre  
(10-20-20 or equivalent)  
Mulch hay or straw Tons/acre  
Seed\* Ky-31 40 lbs/acre  
Redtop 5 lbs/acre  
Ladino Clover 3 lbs/acre  
Timothy 6

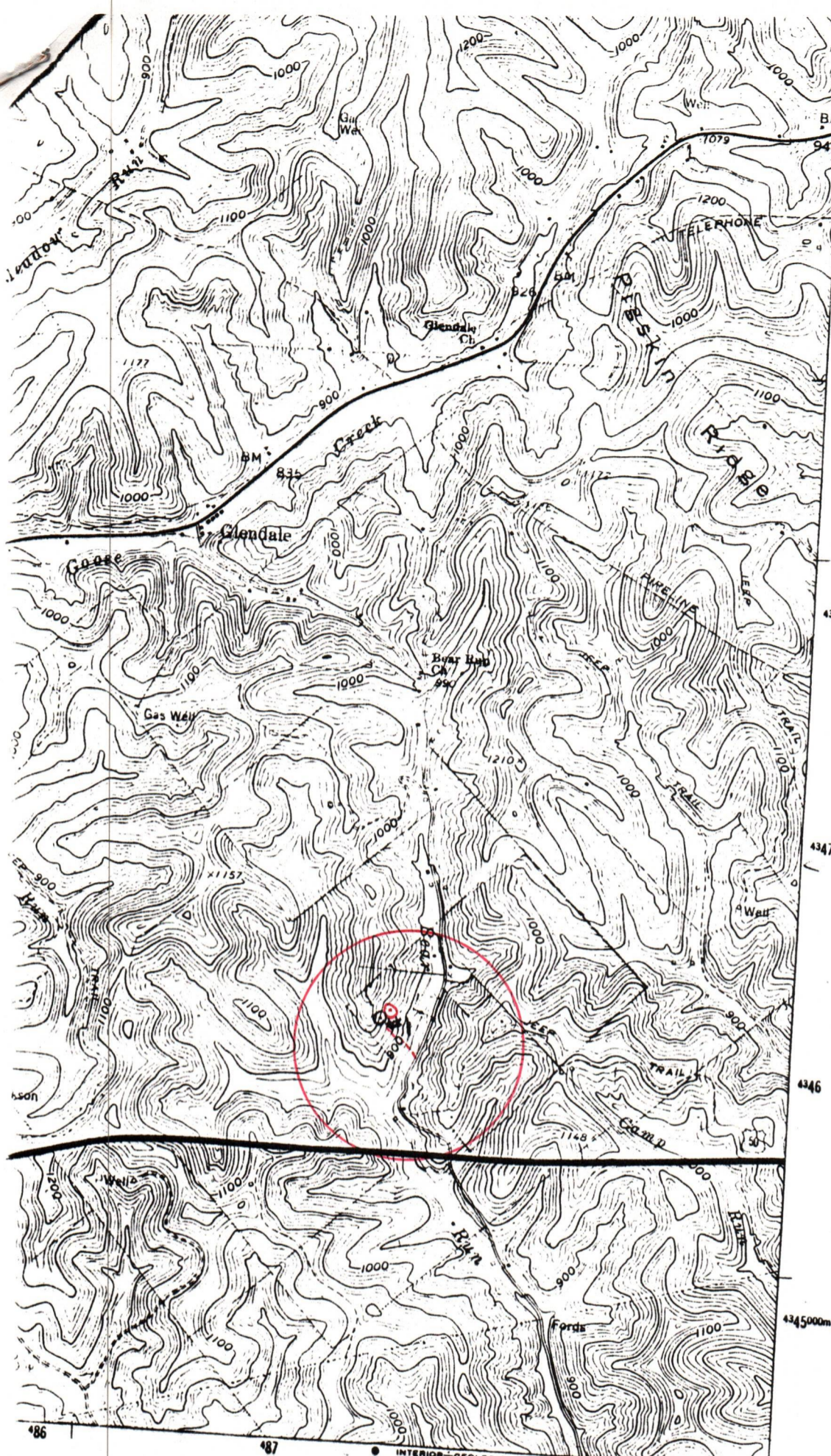
\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacteria.  
Inoculate with 3X recommended amount.

0416012024

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

PLAN PREPARED BY Bruce E. Doak  
ADDRESS 1420 7th Street Parkersburg, W.V.  
26101  
PHONE NO. (304) 424-5220





PIKE (U.S. ALT)  
ELLENBORO 5.

4349  
17'30"

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OIL & GAS DIVISION

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LONG LINE

4347  
4348  
4346

ct  
measured

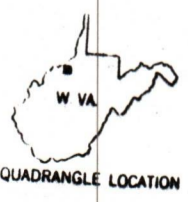
4345000m N.

81°07'30"

(HARRISVILLE)  
4702 II NE

INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA-1976  
488000m E.

ROAD CLASSIFICATION  
 Heavy-duty \_\_\_\_\_ Light-duty \_\_\_\_\_  
 Unimproved dirt \_\_\_\_\_  
 U. S. Route State Route



QUADRANGLE LOCATION

SCHULTZ, W. VA.  
SW/4 ST. MARYS 15' QUADRANGLE  
N 3915 - W 8107.5/7.5

04/19/2024

STIMULATE \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR  
 PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW  
 FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 FORMATION \_\_\_\_\_ MARCELLUS SHALE ESTIMATED DEPTH 5000'  
 DESIGNATED AGENT MR. J. MCGRADY  
 ADDRESS 1420-7th STREET  
PARKERSBURG, W. VA. 26102



A-10

AFFIDAVIT OF ROYALTY PAYMENT

LEASE NAME: C. Ross  
MINERAL OWNER: CLYDE ROSS  
WELL NAME: C. ROSS #1 TWINHEAD

I, C. Jo. McCrady (the above designated owner or operator, or authorized representative thereof) hereby verifies that the owner or owners of the mineral estate upon which this proposed well is to be located will receive minimum one-eighth (1/8) royalty payments for any gas or oil extracted therefrom. Copies of the 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, co-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.

Signed: C. Jo. McCrady  
(Owner, Operator, or Authorized Rep.)

Notary: Bruce E. Doad (Signed)  
My Commission expires JUNE 3 1991

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OIL & GAS DIVISION  
DEPT. OF MINES

Rt-5743

04/19/2024



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

INSPECTOR'S WELL REPORT

Permit No. 85-5743

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company B & L Oil Co  
 Address \_\_\_\_\_  
 Farm Clyde E. Ross  
 Well No. #1 Twinhead  
 District Grant County Ritchie  
 Drilling commenced \_\_\_\_\_  
 Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_  
 Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
 Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
 NAME OF SERVICE COMPANY \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Drillers' Names \_\_\_\_\_

Remarks: Final on Cancellation  
NO location or road made  
OK to release

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 JUL 28 1983

OIL & GAS DIVISION  
 DEPT. OF MINES

7-27-83  
 DATE

Samuel N. Newman 04/19/2024  
 DISTRICT WELL INSPECTOR







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

WALTER N. MILLER  
DIRECTOR

THEODORE M. STREIT  
ADMINISTRATOR

August 26, 1983

B & L Oil Company  
c/o P. O. Box 165  
Davisville, W. Va. 26142

In Re: PERMIT NO: 47-085-5743  
FARM: Clyde E. Ross  
WELL NO: 1 Twinhead  
DISTRICT: Grant  
COUNTY Ritchie

Gentlemen:

The FINAL INSPECTION REPORT for the above described well has been received in this office. Only the column check below applies:

XXXXXX The well designated by the above permit number has been released under your Blanket Bond. (Permit Cancelled - Never Drilled.)

\_\_\_\_\_ Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

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

Very truly yours,

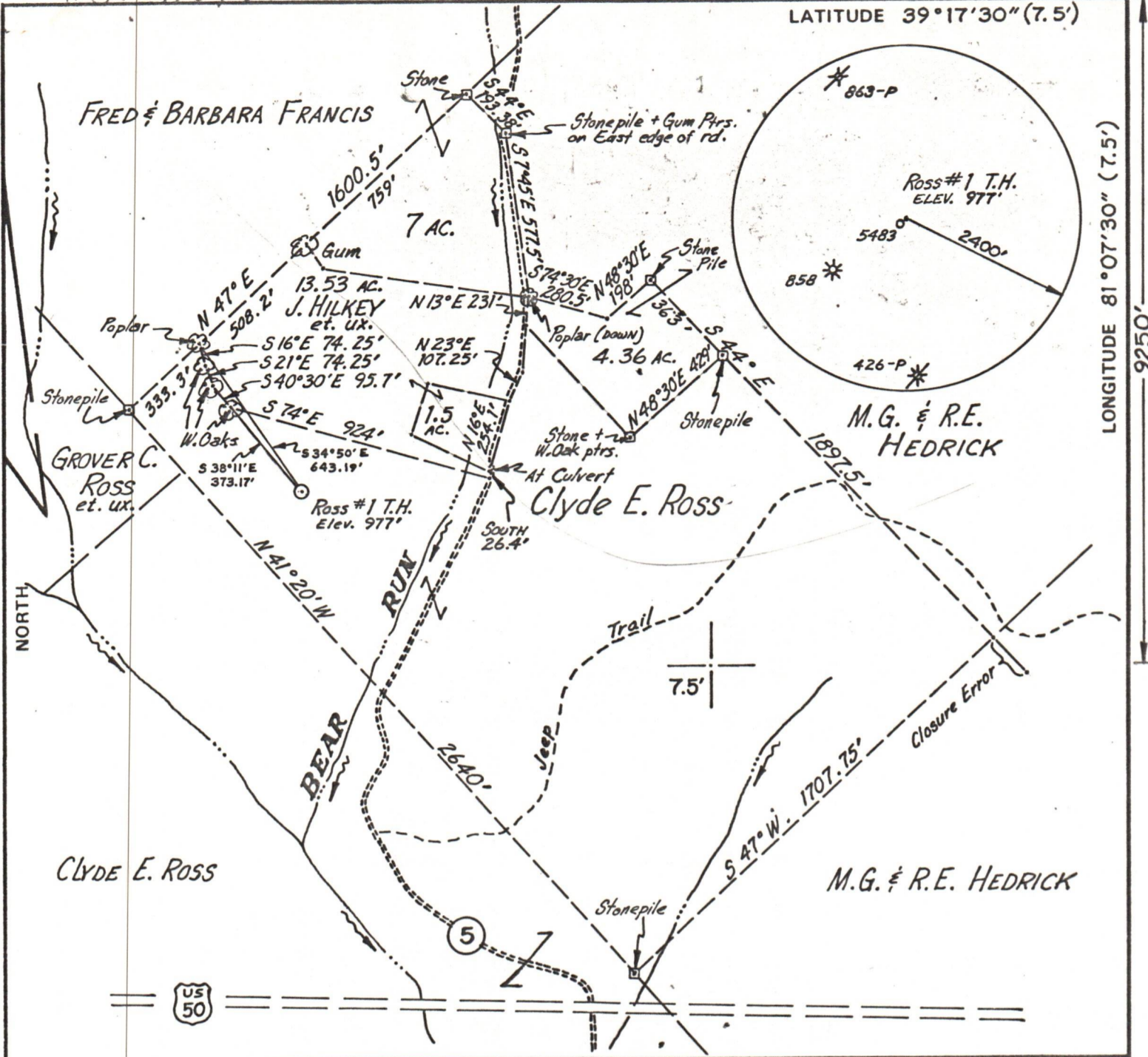
Theodore M. Streit, Administrator  
Office of Oil & Gas-Dept. Mines



m-2. 7/2/82

LATITUDE 39°17'30" (7.5')

LONGITUDE 81°07'30" (7.5')



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION 990'

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) Paul K. Marshall  
 Paul K. Marshall  
 R.P.E. \_\_\_\_\_ L.L.S. 580

PLACE SEAL HERE

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



DATE JUNE 21, 1982  
 OPERATOR'S WELL NO. ROSS #1 T.H.  
 API WELL NO. \_\_\_\_\_  
47 - 085 - 5743  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

**CANCELLED**

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 977' WATER SHED BEAR RUN  
 DISTRICT GRANT COUNTY RITCHIE  
 QUADRANGLE SHULTZ (7.5')  
 SURFACE OWNER CLYDE E. ROSS ACREAGE 70.83  
 OIL & GAS ROYALTY OWNER CLYDE E. ROSS LEASE ACREAGE 70.83  
 LEASE NO. \_\_\_\_\_

04/19/2024

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 MARCELLUS SHALE ESTIMATED DEPTH 5800'  
 WELL OPERATOR B&L OIL COMPANY DESIGNATED AGENT C. JO MCCRADY  
 ADDRESS 1420 7TH STREET ADDRESS 1420 7TH STREET  
PARKERSBURG, W.VA. 26101 PARKERSBURG, W.VA. 26101