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MAR 25 1981

OIL & GAS DIVISION  
DEPT. OF MINES

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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MAR 19 1981

Oil and Gas Division  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE March 24-1980

Surface Owner Herman Boley

Company L & B Oil Company Inc

Address Route 39 ST Marys W.Va.

Address 108 Washington ST ST Marys W.Va.

Mineral Owner Herman Boley

Farm Herman Boley Acres 55

Address Route 39 ST Marys W.Va.

Location (waters) Broad Run

Coal Owner N/A

Well No. Wetz #20 Elevation 831.6

Address \_\_\_\_\_

District Washington County Pleasants

Coal Operator N/A

Quadrangle Raven Rock Ohio - W.Va.

Address \_\_\_\_\_

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 11-26-81.

INSPECTOR TO BE NOTIFIED Phil Tracy

ADDRESS \_\_\_\_\_

PHONE 758-4573

Fred Bumpall  
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated Feb 27<sup>th</sup> 1981 by Herman Boley made to L & B Oil Company Inc and recorded on the Feb 27 day of Feb 1981, in Pleasants County, Book 161 Page 91

XX NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Very truly yours,

(Sign Name) Alex E Bosley  
Well Operator

Address of Well Operator L & B Oil Company Inc.  
Street 108 Washington St.  
City or Town ST Marys W.Va.  
State 26190

\*SECTION 3. . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-073-1148

PERMIT NUMBER



THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME X Don't Know AT This Time \_\_\_\_\_ NAME x Loren E Bagley \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ ADDRESS 108 Washington St. St Marys W.Va. \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE 684-9399 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: Ohio Shale ROTARY XX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: 4200 \_\_\_\_\_  
 TYPE OF WELL: OIL XX GAS XX COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	<u>250'</u>		<u>Surface</u>
7			
5 1/2			
4 1/2	<u>70 Rule 1501</u>		<u>5000</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 250 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS N/A \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? N/A \_\_\_\_\_ BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company



Form IV-9  
(01-80)

Date 3-2 1981  
Well No. WETZ #20  
API No. 47 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS

Company Name LEB OIL CO. INC. Designated Agent LOREN E BAGLEY  
Address 108 WASH ST ST MARYS, WVA Address 108 WASH ST ST MARYS WVA  
Telephone 684-9399 Telephone 684-9399  
Landowner HERMAN BOLEY Soil Cons. District UPPER OHIO

Revegetation to be carried out by LOREN E BAGLEY (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections and additions become a part of this plan. 3/13/81 Rembert R Mason (Date) (SCD Agent)

Access Road	Location
Structure <u>CULVERTS</u> (A)	Structure _____ (1)
Spacing _____	Material _____
Page Ref. Manual <u>1:7</u>	Page Ref. Manual _____
Structure <u>DIVERSION</u> (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual <u>1:9</u>	Page Ref. Manual _____
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary.

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Revegetation

Treatment Area I

Lime \_\_\_\_\_ Tons/acre  
or correct to pH 6.5

Fertilizer 500 lbs/acre  
(10-20-20 or equivalent)

Mulch HAY OR STRAW 2 Tons/Acre

Seed\* KY 31 FESCUE 30 lbs/acre  
BIRDSEED TREFOIL 10 lbs/acre

Treatment Area II OIL & GAS DIVISION  
DEPT. OF MINES

Lime \_\_\_\_\_ Tons/Acre  
or correct to pH 6.5

Fertilizer 500 lbs/acre  
(10-20-20 or equivalent)

Mulch HAY OR STRAW-2 Tons/Acre

Seed\* KY 31 FESCUE 30 lbs/acre  
BIRDSEED TREFOIL 10 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 RAVEN ROCK

Legend:  Well Site  
 Access Road

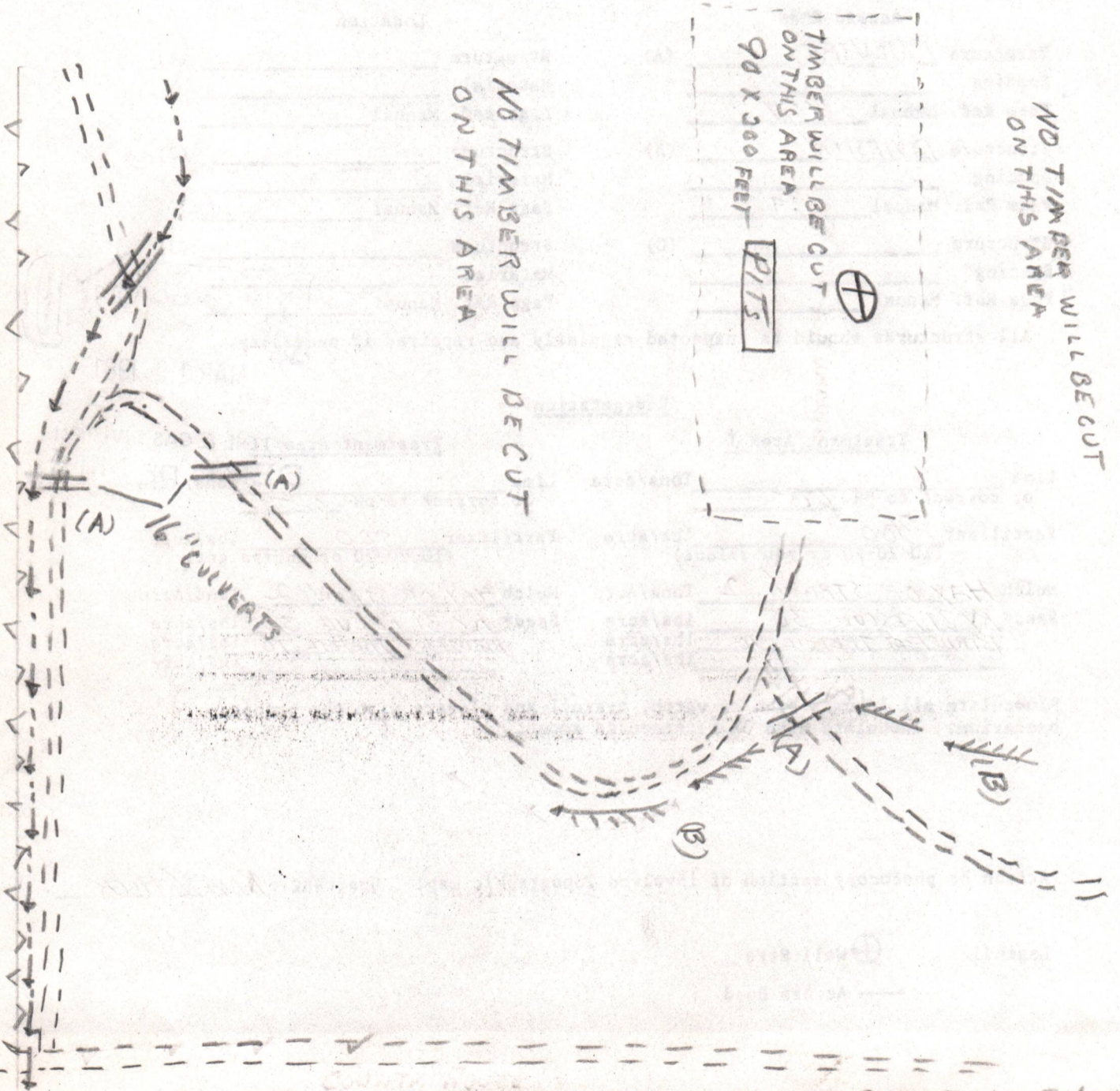




Well Site Plan

- |                          |  |            |  |
|--------------------------|--|------------|--|
| Legend: Property Boundry |  | 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.



Comments: LOCATION IS ON A NATURAL BENCH THAT IS ABOUT 90 FEET WIDE VERY LITTLE DIRT WILL NEED TO BE MOVED, ACCESS ROAD IS AN OLD OIL FIELD ROAD & WILL NEED TO BE WIDENED OUT, SITE IS IN SECOND GROWTH TIMBER

Signature: Paul W. Mola 108 WASH ST ST MARYS WA 684-9399  
 Agent Address Phone Number

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



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IV-35 (Rev 8-81)

JUL 23 1984

State of West Virginia

Department of Mines

Oil and Gas Division

OIL & GAS DIVISION DEPT. OF MINES

Date July 17 1984

Operator's

Well No. Wetz #20

Farm Herman Boley

API No. 47 - 073 - 1148

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil XX / Gas XX / Liquid Injection / Waste Disposal / (If "Gas," Production XX / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 831.6 Watershed Broad Run District: Washington County Pleasants Quadrangle Raven Rock OH-WV

COMPANY L & B Oil Company, Inc. ADDRESS 210 2nd St., St. Marys, WV 26170 DESIGNATED AGENT Bernard Tice ADDRESS 210 2nd St., St. Marys, WV 26170 SURFACE OWNER Herman Boley ADDRESS Rt. 2, St. Marys, WV 26170 MINERAL RIGHTS OWNER Herman Boley ADDRESS Rt. 2, St. Marys, WV 26170 OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS Middlebourne, WV PERMIT ISSUED 3-19-81 DRILLING COMMENCED 4-21-81 DRILLING COMPLETED 6-27-81

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2 and Liners used.

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Benson Depth 4250 feet Depth of completed well 4380 feet Rotary / Cable Tools XX Water strata depth: Fresh 30 feet; Salt N/A feet Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Benson Pay zone depth 3868-4354 feet Gas: Initial open flow 180 Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow 180 Mcf/d Final open flow 0 Bbl/d Time of open flow between initial and final tests 48 hours Static rock pressure 680 psig (surface measurement) after 48 hours shut in (If applicable due to multiple completion--)

(Continue on reverse side)

Pleas. 1/48



COPY

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

Stage 1 - 22 perfs from 3874 to 4354 Fraced with 800,000 SCF  
frac rate 40,000 SCF/min.

Stage 2 - 27 perfs from 3356 to 3796 Fraced with 800,000 SCF  
frac rate 40,000 SCF/min.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Shale			0	80	
Sand			80	120	
Shale			120	290	
Red Shale			290	540	
Brown Shale			540	1025	
Sand			1025	1350	
Shale			1350	1460	
Lime			1460	1648	
Injun			1648	1706	Gas
Berea			1986	1992	
Gordon			2486	2498	Gas & Oil
Ohio Shale			2498	4250	
Benson			4260	4312	
Shale			4312	4380T.D.	

(Attach separate sheets as necessary)

L & B Oil Company, Inc.  
Well Operator

By: Bernard J. [Signature] President

Date: July 17, 1984

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."





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

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
September 18, 1984

**RECEIVED**  
SEP 28 1984  
OIL & GAS DIVISION  
DEPT. OF MINES

COMPANY L & B Oil Company, Inc.  
P. O. Box C  
St. Marys, West Virginia 26170

PERMIT NO 073-1148  
FARM & WELL NO Herman Boley, Wetz #20  
DIST. & COUNTY Washington/Pleasants

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 R. A. Lowther  
DATE Sept 26, 1984

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. [Signature]  
Administrator-Oil & Gas Division

December 10, 1984

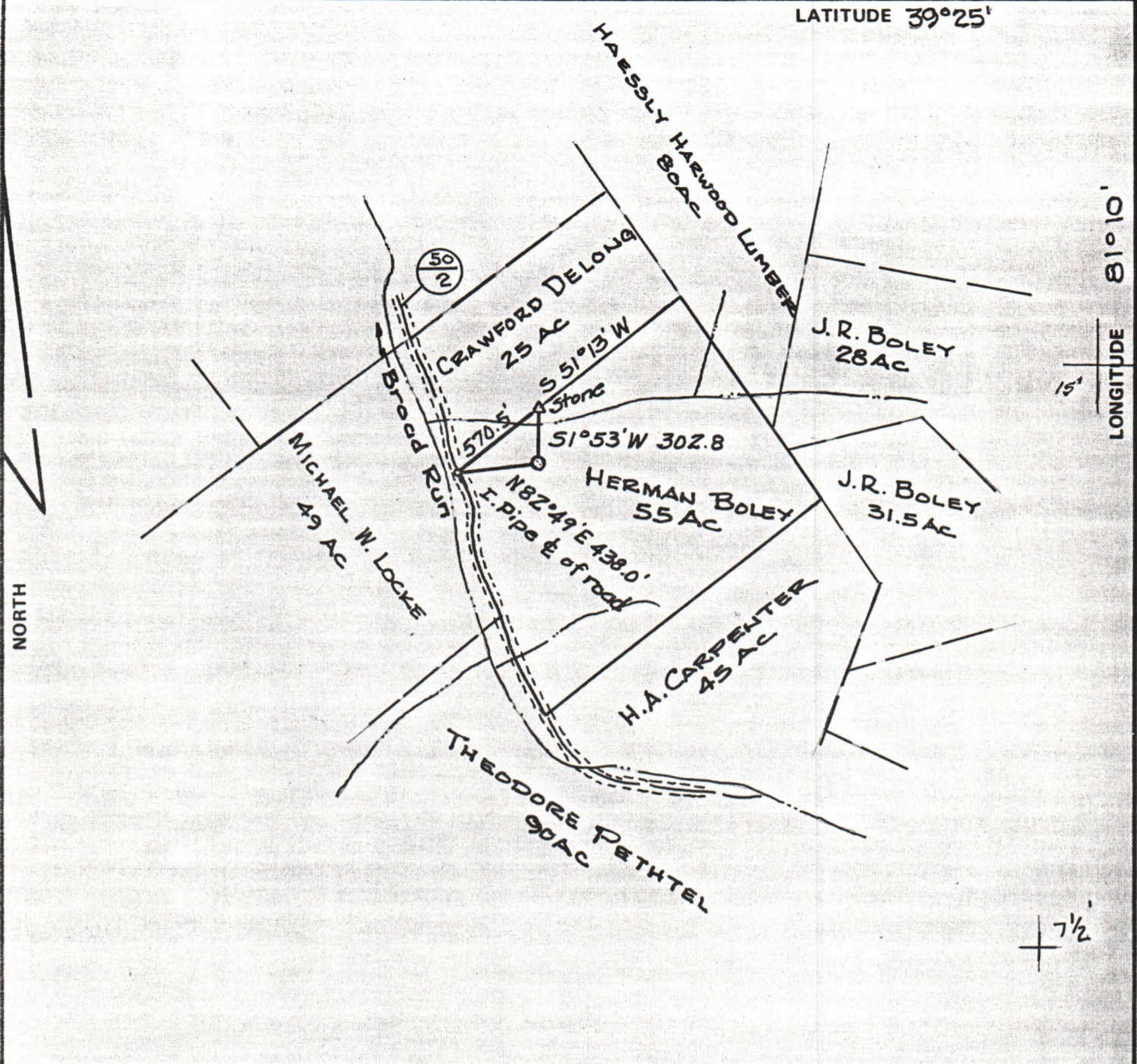
DATE



el 2/21

1,300

LATITUDE 39°25'



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF ACCURACY 1:2000  
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM G 134  
Elev 620.27

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) Kenneth Webb  
 R.P.E. \_\_\_\_\_ L.L.S. 369

PLACE SEAL HERE

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



DATE March 3 19 81  
 OPERATOR'S WELL NO. WETZ # 20  
 API WELL NO. \_\_\_\_\_  
47 - 073 - 1148  
 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 831.6 WATER SHED Broad Run  
 DISTRICT Washington COUNTY Pleasants  
 QUADRANGLE Raven Rock, Ohio - W.Va.  
 SURFACE OWNER Herman Boley ACREAGE 55 Ac  
 OIL & GAS ROYALTY OWNER Herman Boley LEASE ACREAGE 55 Ac  
 LEASE NO. \_\_\_\_\_  
 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 Ohio Shale ESTIMATED DEPTH 4200'  
 WELL OPERATOR L & B Oil Co DESIGNATED AGENT Loren Bagley  
 ADDRESS 109 Washington St ADDRESS 109 Washington St  
St. Marys, W.Va. St. Marys, W.Va.