

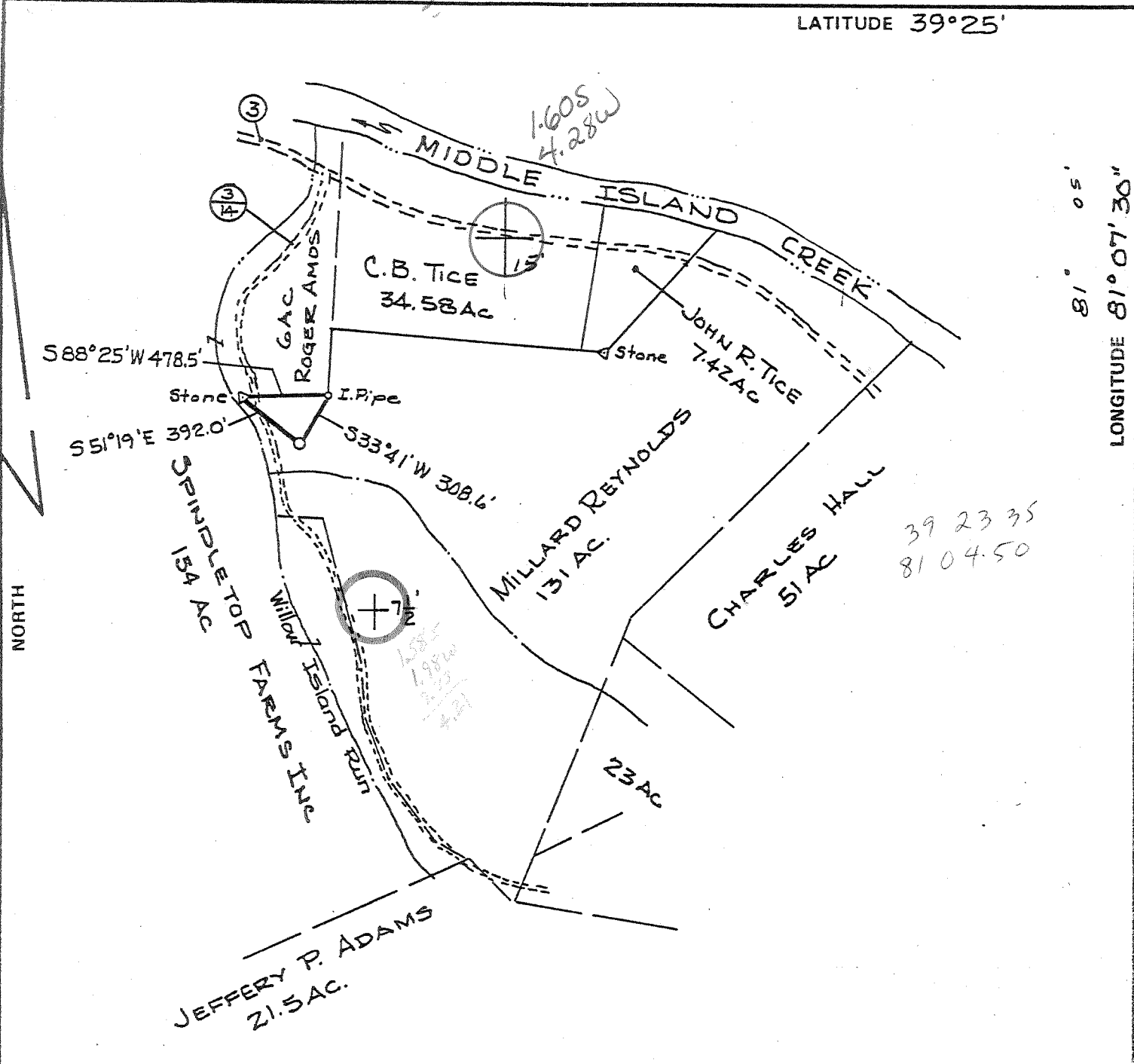
Plot 10,400'

Card CSD 17

10,400'

LATITUDE 39°25'

LONGITUDE 81°07'30"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1:2000
 PROVEN SOURCE OF ELEVATION USGS BM 6134
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 A. 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 21, 1981
 OPERATOR'S WELL NO. WETZ #1
 API WELL NO. _____
47 - 073 - 1187
 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 671 WATER SHED Willow Island Run
 DISTRICT McKim COUNTY Pleasants
 QUADRANGLE Ravenrock, Ohio - W.Va. St. M. C
 SURFACE OWNER Millard Reynolds ACREAGE 131 Ac.
 OIL & GAS ROYALTY OWNER Mildred Reynolds LEASE ACREAGE 100 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 4000'
 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.



IV-35
(Rev 8-81)

RECEIVED

OCT 21 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia

Department of Mines

Oil and Gas Division

Date 10-19-81
Operator's
Well No. WETZ #1
Farm Reynolds
API No. 47-073-1187

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 671' Watershed WILLOW ISLAND RUN
District: WASHINGTON County FRASANTS Quadrangle RAVEN ROCK

COMPANY L & B OIL Co., INC.

ADDRESS Box C, ST. MARYS, W.VA.

DESIGNATED AGENT LOREN E. BAGLEY

ADDRESS Box C, ST. MARYS, W.VA.

SURFACE OWNER MILDRED Reynolds

ADDRESS R+2N, ST. MARYS, W.VA.

MINERAL RIGHTS OWNER SAME AS SURFACE

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK PHIL

Tracy ADDRESS MIDDLEBOURNE, W.VA.

PERMIT ISSUED 4-22-81

DRILLING COMMENCED 5-20-81

DRILLING COMPLETED 8-24-81

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	<u>800'</u>	<u>800'</u>	<u>125 sks</u>
7			
5 1/2			
4 1/2		<u>4341'</u>	<u>425 sks</u>
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION OHIO SHALE Depth 4000 feet

Depth of completed well 4411 feet Rotary ___ / Cable Tools X

Water strata depth: Fresh 70 feet; Salt NINE feet

Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation OHIO SHALE RILEY Pay zone depth 3153' / 4056' feet

Gas: Initial open flow 120 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 70 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 750 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)

Second producing formation N/A Pay zone depth _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

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

PERFORATIONS

37, .49 HOLES FROM 3153' - 4056'

STIMULATION

1000 GAL. 15% ACID
1,240,000 SCF, N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Berea		*	1892	1904	Top Interval Logged
50 FT			2030	2058	
30 FT			2200	2226	
Gordon			2318	2334	O&G SHALE SECTIONS Completed
4th SAND			2394	2402	
5th SAND			2492	2504	
Byard			2594	2604	
Speechnly			3170	3180	
Balltown			3330	3344	
Schffield			3404	3430	
Bradford			3532	3550	
Elk			3720	3740	
Riley			4039	4060	
				4831	

(Attach separate sheets as necessary)

L. E. B. OIL CO. INC.
Well Operator

By: [Signature]

Date: 10-19-81

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."



Well No. Wetz #1
Farm Millard Reynolds
API # 47-073-1187
Date _____

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: 671 Watershed: Willow Island Run
District: Washington County: Pleasants Quadrangle: Ravenrock Ohio, W.Va.

WELL OPERATOR L & B Oil Company Inc
Address 108 Washington St.
St Marys W.Va. 26170

DESIGNATED AGENT Loren E Bagley
Address 108 Washington St
St Marys W.Va. 26170

OIL AND GAS ROYALTY OWNER Mildred Reynolds
Address R-2 North
St Marys W.Va. 26170
Acreage 100

COAL OPERATOR N/A
Address _____

SURFACE OWNER Millard Reynolds
Address R-2 North
St Marys W.Va. 26170
Acreage 131

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME N/A
Address _____

FIELD SALE (IF MADE) TO:
NAME _____
Address _____

NAME _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME N/A
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Phil Tracy
Address Dodd St
Middlebourne W.Va. 26149
Telephone 304-758-4573

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APR 22 1981

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 1-27th, 1981, to the undersigned well operator from Mildred Reynolds.

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

Recorded on Jan 27th, 1981, in the office of the Clerk of County Commission of Pleasants County, West Virginia, in 161 Book at page 91. 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.

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 BY:

L & B Oil Company
Well Operator

Loren E Bagley

Its: President

(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) _____

Address _____

GEOLOGICAL TARGET FORMATION Ohio Shale

Estimated depth of completed well 5000 feet. Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 80 feet; salt, N/A feet.

Approximate coal seam depths: N/A

Is coal being mined in this area: Yes 1 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		
Conductor	10"	B-RD		X		250'	250'	_____ Kinds
Fresh water								
Coal	N/A							_____ Sizes
Intermed.	8 5/8"	B-RD-R-2	23#	X		1000'	1000'	_____ Depths set
Production Tubing	4 1/2"	B-RD-R-2	10.50#	X		5000'	500 Sks	_____ Perforations: Top Bottom
Liners								

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 §22-4-8, (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 12-28-81.

J. H. Murrey
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 regularions.

Date: _____, 19____.

By: _____

Its: _____