

39 30

LATITUDE 39°27'30"

LONGITUDE 81°20'20"

CODE

CARD

PLOT

G.L. Carr

Wetzel-2

18" Maple on line

E. Landerman

R.E. Wetzel Surface

#1 Plugged Well

G. Landerman

Walnut (Called for)

1.155  
0.83W

4.035  
0.83W

NORTH

(PLAT SHOWING EXISTING LOCATION)

FILE NO. 514  
 DRAWING NO. 37-1  
 SCALE 1" = 200'  
 MINIMUM DEGREE OF ACCURACY 1 in 5000  
 PROVEN SOURCE OF ELEVATION #1 Well (Plugged)  
Elev 441' East of Wetzel-2

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) Rayford L. Ostrander  
 R.P.E. \_\_\_\_\_ L.L.S. 555  
Buckhannon, W.Va.

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



DATE 17 December, 19 81  
 OPERATOR'S WELL NO. Wetzel #2  
 API WELL NO. \_\_\_\_\_  
47 - 095 - 729-F  
 STATE COUNTY PERMIT

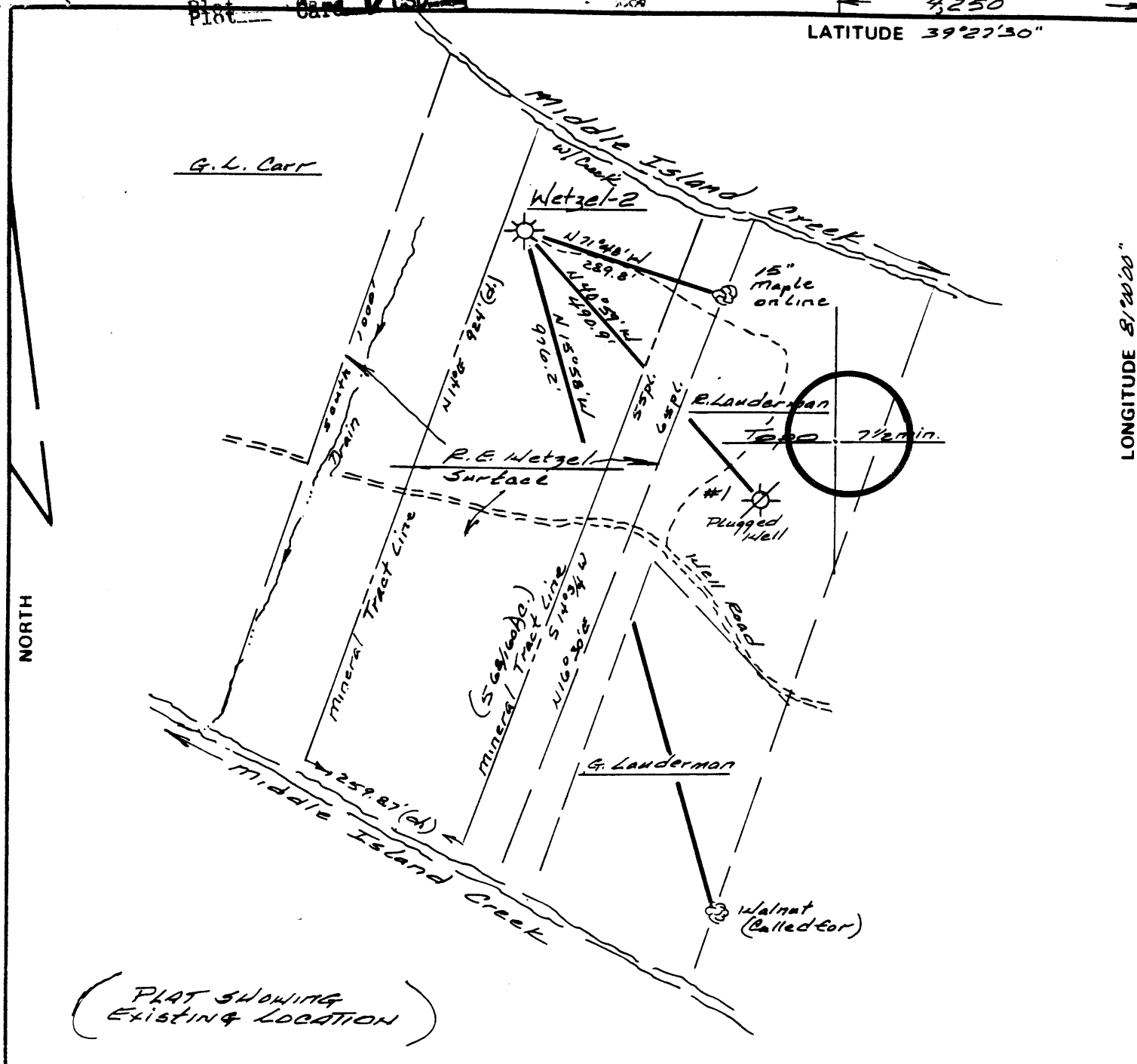
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 709' WATER SHED Middle Island Creek  
 DISTRICT Union 6 COUNTY Tyler  
 QUADRANGLE Bens Run 7 1/2 241 116 NE St. Marys NE  
 SURFACE OWNER Robert E. Wetzel ACREAGE 9.00 (calc)  
 OIL & GAS ROYALTY OWNER Robert E. Wetzel et al LEASE ACREAGE 5 60/100  
 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) \_\_\_\_\_  
 (Presently Completed)

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_ OWWO-6-6 Shiloh-wick (86)  
 TARGET FORMATION Gordon 148 ESTIMATED DEPTH 2500'  
 WELL OPERATOR Cottel Minerals Corp DESIGNATED AGENT R. Steven Shatter  
 ADDRESS P.O. Box 49 ADDRESS P.O. Box 49

MAY 12 1982



(PLAT SHOWING EXISTING LOCATION)

FILE NO. 514  
 DRAWING NO. 81-1  
 SCALE 1" = 200'  
 MINIMUM DEGREE OF ACCURACY 1 in 5000  
 PROVEN SOURCE OF ELEVATION No. 1 Well (plugged)  
El. = 661' East of Wetzel-2

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) Rayford L. Ostrander  
 R.P.E. \_\_\_\_\_ L.L.S. 555  
Buckhannon, W.Va.

PLACE SEAL HERE

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



DATE 17 December, 19 81  
 OPERATOR'S WELL NO. Wetzel #2  
 API WELL NO. 47 - 095 - 0729 - Rev.  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

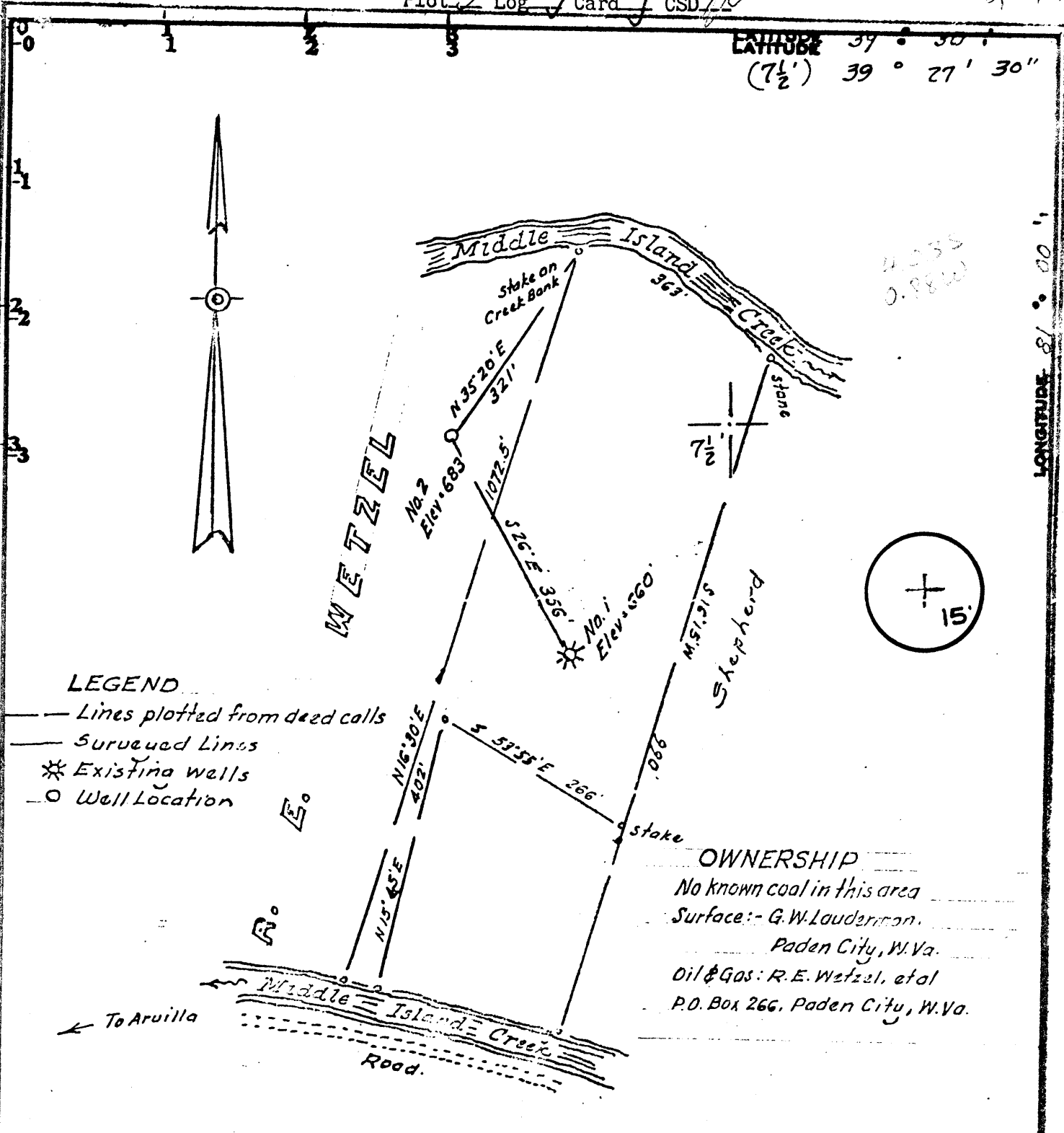
WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 709' WATER SHED Middle Island Creek  
 DISTRICT Union COUNTY Tyler  
 QUADRANGLE Bens Run St. Mary's NE  
 SURFACE OWNER Robert E. Wetzel ACREAGE 9.80 (Calc.)  
 OIL & GAS ROYALTY OWNER Robert E. Wetzel et al LEASE ACREAGE 5 68/100

PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 (Presently Completed)

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Gordon ESTIMATED DEPTH 2500'  
 WELL OPERATOR Catek Minerals Corp DESIGNATED AGENT R. Steven Shatter  
 ADDRESS P.O. Box 49 ADDRESS P.O. Box 49  
Buckhannon, W.Va. 26201 Buckhannon, W.Va. 26201

JAN 21 1982

LATITUDE 39° 30' (7 1/2') 39° 27' 30"



**LEGEND**

- Lines plotted from deed calls
- Surveyed Lines
- \* Existing wells
- o Well Location

**OWNERSHIP**

No known coal in this area  
 Surface: - G.W. Lauderdale  
 Paden City, W.Va.  
 Oil & Gas: R.E. Wetzel, et al  
 P.O. Box 266, Paden City, W.Va.

Minimum Error of Closure 1 in 200'

Source of Elevation Elev. Well No. 1 R.E. Wetzel (Topo 151) = 660'

Feature   
 New Location   
 E.H.I.D. Deeper   
 Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signature: W. H. Holtz  
 Spheres: N S E W

Map No. \_\_\_\_\_

Company Lauderman Oil & Gas Co.  
 Address Paden City, W.Va.  
 Farm R.E. Wetzel  
 Tract Address 18 Lease No. \_\_\_\_\_  
 Well (R Farm) No. Two Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 661 NE  
 Quadrangle St. Marys, BENS RUN 7 1/2  
 County Tuler District Union  
 Surveyor W.H. Holtz  
 Surveyor's Registration No. 1327  
 File No. 916 Drawing No. \_\_\_\_\_  
 Date August 3, 1979 Scale 1" = 200'

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF MINES**  
**OIL AND GAS DIVISION**  
**CHARLESTON**  
**WELL LOCATION MAP**  
**FILE NO. 47-095-0729**

# Denotes location of well on United States Topographic Maps, scale 1 to 25,000 latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

SEP 24 1979

Ohio shale 3000' SHILOH-WICK 86



Date AUGUST 21, 1988  
 Operator's Well No. 1  
 Farm SHEPHERD, CHARLES  
 API No. 47-95-0729  
FRAC

**RECEIVED**  
 SEP 06 1988

State of West Virginia  
 Department of Mines  
 Oil and Gas Division

WELL OPERATOR'S REPORT  
 OF  
 DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 725' Watershed MIDDLE ISLAND CREEK  
 District: UNION County TYLER Quadrangle BEND RILL

COMPANY HI-WEST PETROLEUM & EXPLORATION

ADDRESS P.O. Box 731, Marietta, Ohio 45750

DESIGNATED AGENT PAUL SAUER

ADDRESS 4 1/2 St. Williamstown WVA 26187

SURFACE OWNER CHARLES SHEPHERD

ADDRESS GD, Middlebourne, WVA 26149

MINERAL RIGHTS OWNER HARRY CATI

ADDRESS PAIDEN CITY, WVA 26159

OIL AND GAS INSPECTOR FOR THIS WORK ROBERT

Lowther ADDRESS GD, Middlebourne

PERMIT ISSUED 4/86 WVA 26149

DRILLING COMMENCED 5/3/86 FRACED

DRILLING COMPLETED 5/8/86

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

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION \_\_\_\_\_ Depth \_\_\_\_\_ feet  
 Depth of completed well \_\_\_\_\_ feet Rotary \_\_\_ / Cable Tools \_\_\_\_\_  
 Water strata depth: Fresh \_\_\_\_\_ feet; Salt \_\_\_\_\_ feet  
 Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA  
 Producing formation KEFNER Pay zone depth 1515' feet  
 Gas: Initial open flow 5 Mcf/d Oil: Initial open flow 1 Bbl/d  
 Final open flow 5 Mcf/d Final open flow 1 Bbl/d  
 Time of open flow between initial and final tests 12 hours  
 Static rock pressure 100 psig (surface measurement) after 24 hours shut in  
 (If applicable due to multiple completion--)  
 Second producing formation \_\_\_\_\_ 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 \_\_\_\_\_  
 Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

SEP 9 1988

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

4 1/2" SOLID BRIDGE PLUG SET AT 1600'  
 PERFORATIONS FROM 1527' - 1535'  
 1538' - 1540' 17 HOLES  
 FRACED WITH 300 BBLS. OIL

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
<div data-bbox="1114 1093 1513 1332" data-label="Text" style="text-align: right;"> <p><b>RECEIVED</b>                  SEP 06 1988                  DIVISION OF OIL &amp; GAS                  DEPARTMENT OF ENERGY</p> </div>					

(Attach separate sheets as necessary)

Hi-WEST PETROLEUM & EXPLORATION  
 Well Operator  
 By: ROBERT LEMOU  
 Date: 8/21/88

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."  
 6/20

SEP 09 1988



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Bens Run

Permit No 47-095-0729

Rotary X Oil X  
Cable \_\_\_\_\_ Gas X  
Recycling \_\_\_\_\_ Comb. X  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal Open Pit  
(Kind)

Company Lauderman Oil & Gas Drilling  
Address 311 S. 4th Avenue, Paden City, W.Va.  
Farm Robert Wetzel Acres 15  
Location (waters) Middle Island Creek  
Well No. 2 Elev. 661  
District Union County Tyler  
The surface of tract is owned in fee by Robert  
Wetzel - P.O. Box 266 Paden City,  
Address W.V. 26159  
Mineral rights are owned by G.W. Lauderman  
Address P.O. Box Paden City, W.Va.  
Drilling Commenced 9/1/79  
Drilling Completed 9/9/79  
Initial open flow Show cu. ft. Show bbls.  
Final production 780,000 cu. ft. per day 20 bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.  
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8	256	256	
8 5/8			
7			
5 1/2			
4 1/2	Cemented thru Pay Zone		
3			
2			
Liners Used			

Attach copy of cementing record.

Nitrogen Frac - 300,000 Cu.Ft. Continued Frac with 1800 BBLs & Sand  
20/40 Mesh 600 Sacks.

Coal was encountered at No Coal Feet No Coal Inches  
Fresh water 60 Feet 70 Salt Water 1500 Feet 1500  
Producing Sand Gordon Depth 2500

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale	Brown	Soft	0	20		
Sand	Gray	Soft	20	40		
Lime	Gray	Soft	40	140		
Slate	Gray	Soft	140	175		
Shale	Black	Hard	175	205		
Lime	Gray	Soft	205	280		
Sand	White	Soft	280	290		
Slate	Black	Hard	290	305		
Lime	Gray	Soft	305	410		
Rock	Red	Soft	410	505		
Sand	White	Soft	505	515		
Rock	Red	Hard	515	605		
Lime	Gray	Hard	605	700		
Rock	Red	Hard	700	755		
Sand	White	Soft	755	800		
Slate	Gray	Hard	800	910		
rock	Red	Hard	910	1000		
Slate	Gray	Soft	1000	1095		
Slate	Blue	Soft	1095	1115		
Shell	Gray	Soft	1115	1205		
Salt Sand I	Gray	Soft	1205	1255		
Sand	White	Soft	1255	1285		
Shell	Black	Hard	1285	1315		
Salt Sand II		Soft	1315	1365		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Salt Sand II		Soft	1365	1405		
Salt Sand III		Soft	1405	1460		
Slate	Gray	Soft	1460	1480		
Slate	Black	Soft	1480	1495		
Sandy Shell	Gray	Soft	1495	1510		
Maxon Sand		Soft	1510	1535		
Big Lime		Soft	1535	1545		
Slate	Black	Hard	1545	1580		
Keener Sand		Soft	1580	1630		
Big Injun		Soft	1630	1685		
Shale	Gray	Soft	1685	1700		
Shale	Gray	Soft	1700	1805		
Shale	Blue	Hard	1805	1900		
Shale	Brown	Hard	1900	1985		
Shale Shell	Gray	Soft	1985	2050		
Weir		Soft	2050	2095		
Shale		Soft	2095	2115		
Shale	Brown	Soft	2115	2205		
Shale	Gray	Soft	2205	2315		
Shale	Blue	Soft	2315	2400		
Shale	Gray	Soft	2400	2460		
Sandy	Gray	Soft	2460	2505		
Gordon Sand			2505	2515		
Shale	Gray	Soft	2515	2535		
Shale	Blue	Soft	2535	2620		

Date 10-25-79, 19

APPROVED Philip Morgan, Owner

By Agust (Title)



**RECEIVED**  
OCT 30 1979

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
**Oil and Gas Division**  
**WELL RECORD**<sup>52</sup>

OIL & GAS DIVISION  
DEPT. OF MINES

Quadrangle Ben Run

Permit No. 47-095-0729

Rotary  Oil   
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb.   
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal Open Pit  
(Kind)

Company Lauderman Oil & Gas Drilling  
Address 311 S. 4th Ave. Paden City, W. Va.  
Farm Robert Wetzel Acres 15  
Location (waters) Middle Island Creek  
Well No. 2 Elev. 661  
District Union County Tyler  
The surface of tract is owned in fee by Robert  
Wetzel-P.O. Box 266 Paden  
Address City, W. Va.  
Mineral rights are owned by G.W. Lauderman  
Address P.O. Box 266 Paden City  
Drilling Commenced 9/1/79  
Drilling Completed 9/9/79  
Initial open flow Show cu. ft. Show bbls.  
Final production 780,000 cu. ft. per day 20 bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8	256	256	
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

Cemented thru Pay Zone

Well treatment details:

Attach copy of cementing record.

Nitrogen Frac - 300,000 Cu. Ft. Continued frac with  
1800 BBLs & Sand - 20/40 Mesh 600 Sacks.

Coal was encountered at No Coal Feet No Coal Inches  
Fresh water 60 Feet 70 Salt Water 1500 Feet 1500  
Producing Sand Gordon Depth 2500

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale	Brown	Soft	0	20		
Sand	Gray	"	20	40		
Lime	Gray	"	40	140		
Slate	Gray	"	140	175		
Shale	Black	Hard	175	205		
Lime	Gray	Soft	205	280		
Sand	White	"	280	290		
Slate	Black	Hard	290	305		
Lime	Gray	Soft	305	410		
Rock	Red	Soft	410	505		
Sand	White	Soft	505	515		
Rock	Red	Hard	515	605		
Lime	Gray	Hard	605	700		
Rock	Red	Hard	700	755		
Sand	White	Soft	755	800		
Slate	Gray	Hard	800	910		
Rock	Red	Hard	910	1000		
Slate	Gray	Soft	1000	1095		
Slate	Blue	"	1095	1115		
Shell	Gray	Soft	1115	1205		
Salt Sand I	"	"	1205	1255		
Sand	White	"	1255	1285		
Shell	Black	Hard	1285	1315		
Salt Sand II	"	Soft	1315	1365		

(over)

\* Indicates Electric Log tops in the remarks section.



Formation	Color	Hard or Soft	Top Feet 52	Bottom Feet	Oil, Gas or Water	Remarks
Salt Sand II		Soft	1365	1405		
Salt Sand III			1405	1460		
Slate Gray		Soft	1460	1480		
Slate Black		Soft	1480	1495		
Sandy Shell	Gray	"	1495	1510		
Maxon Sand		Soft	1510	1535		
Big Lime		"	1535	1545		
Slate Black		Hard	1545	1580		
Kecner Sand		Soft	1580	1630		
Big Injun		"	1630	1685		
Shale Gray		Soft	1685	1700		
Shale Gray		"	1700	1805		
Shale Blue		Hard	1805	1900		
Shale Brown		"	1900	1985		
Shale Shell	Gray	Soft	1985	2050		
Weir Sand		Soft	2050	2095		
Shale Gray		Soft	2095	2115		
Shale Brown		Soft	2115	2205		
Shale Gray		"	2205	2315		
Shale Blue		Soft	2315	2400		
Shale Gray		Soft	2400	2460		
Sandy Shell	Gray	Soft	2460	2505		
Gordon Sand			2505	2515		
Shale Gray		Soft	2515	2535		
Shale Blue		Soft	2535	2620		

Date 10-25-79, 19\_\_

APPROVED Therese M. [Signature], Owner

By [Signature] (Title)

THIS PERMIT MUST BE POSTED AT THE WELL SITE



RECEIVED  
AUG 14 1979

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 STATE OF WEST VIRGINIA

operations have not commenced by 4-29-80 DEPARTMENT OF MINES

OIL & GAS DIVISION

Robert & [Signature]  
Deputy Director - Oil & Gas Division

Oil and Gas Division

DEPT. OF MINES

### OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,

Charleston, W. Va.

DATE AUGUST 10 1979

Surface Owner Robert & Andre Wetzel

Company Lauderman Oil & Gas

Address 146 N 5th Ave Paden City WVA

Address P.O. Box 266, Paden City WVA

Mineral Owner Robert Wetzel & Andre Wetzel

Farm Wetzel Acres 18 3/4

Address Same

Location (waters) Middle Island Creek

Coal Owner SAME NO COAL

Well No. 2 Elevation 661

Address \_\_\_\_\_

District UNION County Tyler

Coal Operator \_\_\_\_\_

Quadrangle Bens Run 7 1/2

Address \_\_\_\_\_

2/3 Minerals - Gerald W. Lauderman  
Address  
P.O. Box 266  
Paden City, WVA. 26159

INSPECTOR

TO BE NOTIFIED Phillip Tracy

ADDRESS Middlebourne, WVA

PHONE 304 758

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 Sept. 1 1977 by Robert & Andre Wetzel made to Lauderman Oil & Gas and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Tyler County, Book 198 Page 229

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) [Signature]  
Well Operator

Address of Well Operator  
311 South 4th Ave Street  
Paden City, WVA 26159 City or Town  
West Virginia State

\*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

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by [Signature]

47-095-0729

PERMIT NUMBER

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

PROPOSED WORK ORDER TO \_\_\_\_\_ DRILL  DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME Larry Stone Street NAME Phillip Mangum  
 ADDRESS Spencer, W.Va. ADDRESS 311 S 4th Street, Padon City  
 TELEPHONE 304-927-4537 TELEPHONE 304-337-7715  
 ESTIMATED DEPTH OF COMPLETED WELL: 3000 ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Ohio Shale  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB.  STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	<u>✓ 30</u>	<u>230</u>	<u>Cemented to Surface</u>
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET 1580 SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS No Coal This Area  
 IS COAL BEING MINED IN THE AREA? No 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  
\_\_\_\_\_  
Official Title

**RECEIVED**  
APR 25 1986



1) Date: April 15, 1986  
 2) Operator's Well No. Robert Wetzel #2  
 3) API Well No. 47-095-0729-F  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION  
 DEPARTMENT OF ENERGY  
**APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil  / Gas   
 B (If "Gas", Production 10 mcf / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow )  
 5) LOCATION: Elevation: 709' Watershed: Middle Island Creek  
 District: Union 604 County: Tyler Quadrangle: \_\_\_\_\_  
 6) WELL OPERATOR Hi-West Petroleum CODE: 21978 7) DESIGNATED AGENT Karen Sayer  
 Address P.O. Box 1062 Address 4 1/2 Street  
Marietta, Ohio 25750 Williamstown, WV 26187  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert A. Lothar  
 Address General Delivery  
Middlebourne, WV 26149  
 9) DRILLING CONTRACTOR: Name Larry Stonestreet  
 Address Spencer, West Virginia  
(304) 927-4537  
 10) PROPOSED WELL WORK: Drill \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate  /  
 Plug off old formation  / Perforate new formation  /  
 Other physical change in well (specify) Drillable PLUG  
 11) GEOLOGICAL TARGET FORMATION, KEENER  
 12) Estimated depth of completed well, \_\_\_\_\_ feet  
 13) Approximate strata depths: Fresh, 60; 70 feet; salt, 1500 feet.  
 14) Approximate coal seam depths: NO COAL Is coal being mined in the area? Yes \_\_\_\_\_ / No

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									Kinds <u>Drillable Plug</u>
Fresh water									
Coal									Sizes <u>4 1/2"</u>
Intermediate	<u>4 1/2</u>					<u>2614</u>	<u>2614</u>	<u>TO SURF.</u>	Depths set <u>1650'</u>
Production									Perforations: <u>20</u>
Tubing									Top Bottom
Lin.									<u>1598'</u> <u>1608'</u>

OFFICE USE ONLY  
**DRILLING PERMIT**

Permit number 47-095-0729-F W Date May 5 19 86

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 May 5, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>5000</u>	Agent: <u>AS</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>182</u>	WPCP: <u>Frost Tank</u>	S&E OK: <u>AS</u>	Other: _____
-------------------	------------------	-----------------	-------------------	-----------------	-------------------------	-------------------	--------------

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

John N. Johnston by Margaret J. Hesse  
 Director, Division of Oil and Gas File

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