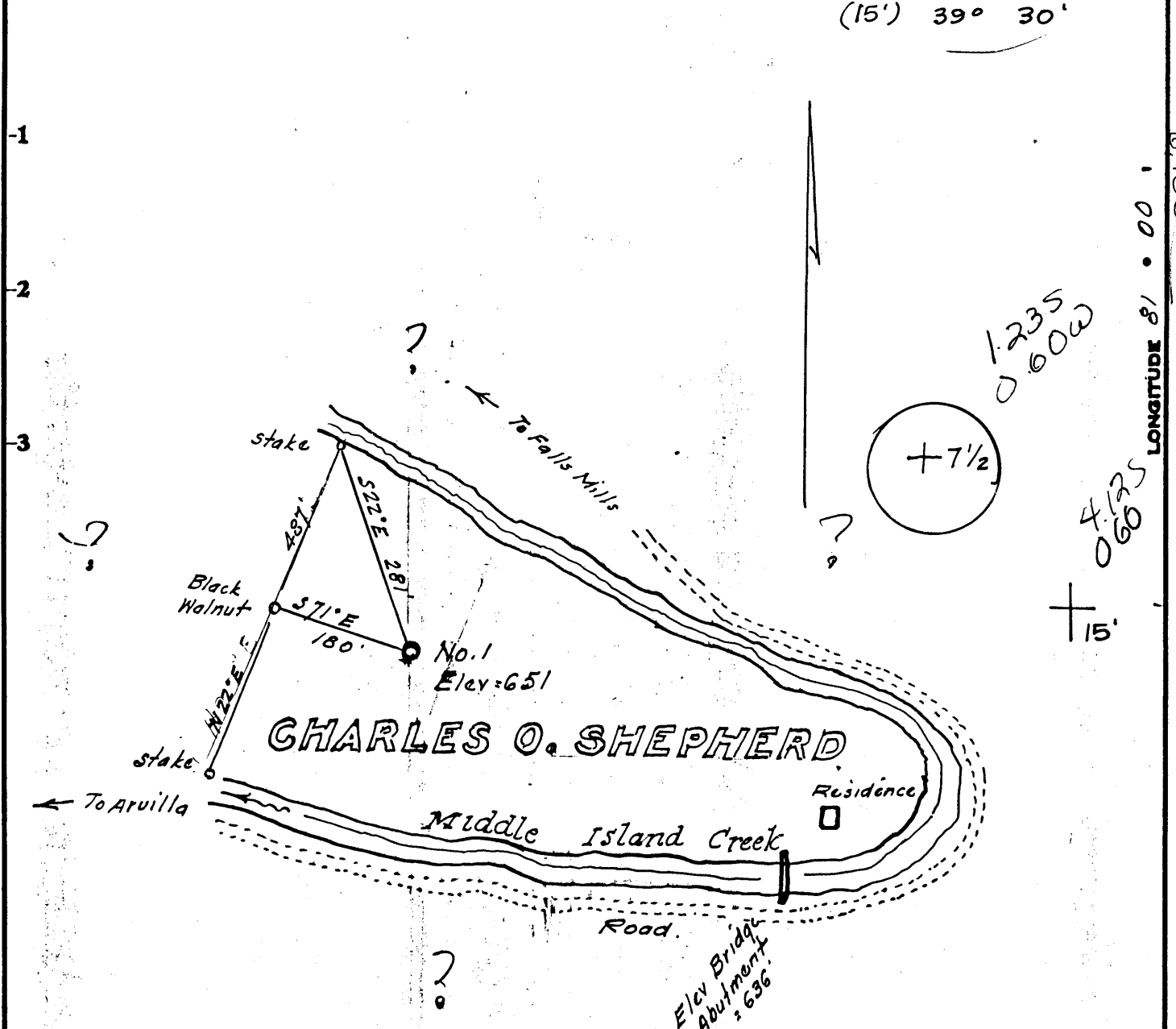


3100 8/7/78

CODE 1 2 3 CARD PLOT

LATITUDE 39° 27' 30" (15') 39° 30'

LONGITUDE 81° 00' 00"



LEGEND

- Lines plotted from deed calls
- Surveyed Lines
- Roads
- Well Location

OWNERSHIP

No coal
 Fee ownership: Chas. O. Shepherd
 Friendly, W. Va.

Minimum Error of Closure 1 in 200

Source of Elevation Elev. Bridge Abutment = 636

- Fracture.....
- New Location...
- Drill Deeper.....
- Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief 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.

Signed: W. S. Stettin

Map No. _____

Squares: N S E W

Company HI-WEST PETROLEUM 604
 Address P.O. Box 1062, MARIETTA, OHIO, 25750
 Farm Charles O. Shepherd
 Tract _____ Acres 5 1/2 ± Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 651
 Quadrangle Bens Run 7 1/2 (St. Marys 15) NE 3
 County Tyler District Meade
 Surveyor W. S. Stettin
 Surveyor's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Aug. 6, 1979 Scale 1" = 200'

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

WELL LOCATION MAP

FILE NO. 47-095-0725-F
Cancelled

+ Denotes location of well on United States Topographic Maps, scale 1 to ^{24,000}/_{62,500} latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border ¹⁹⁸⁶/₁₉₈₈ original tracing.

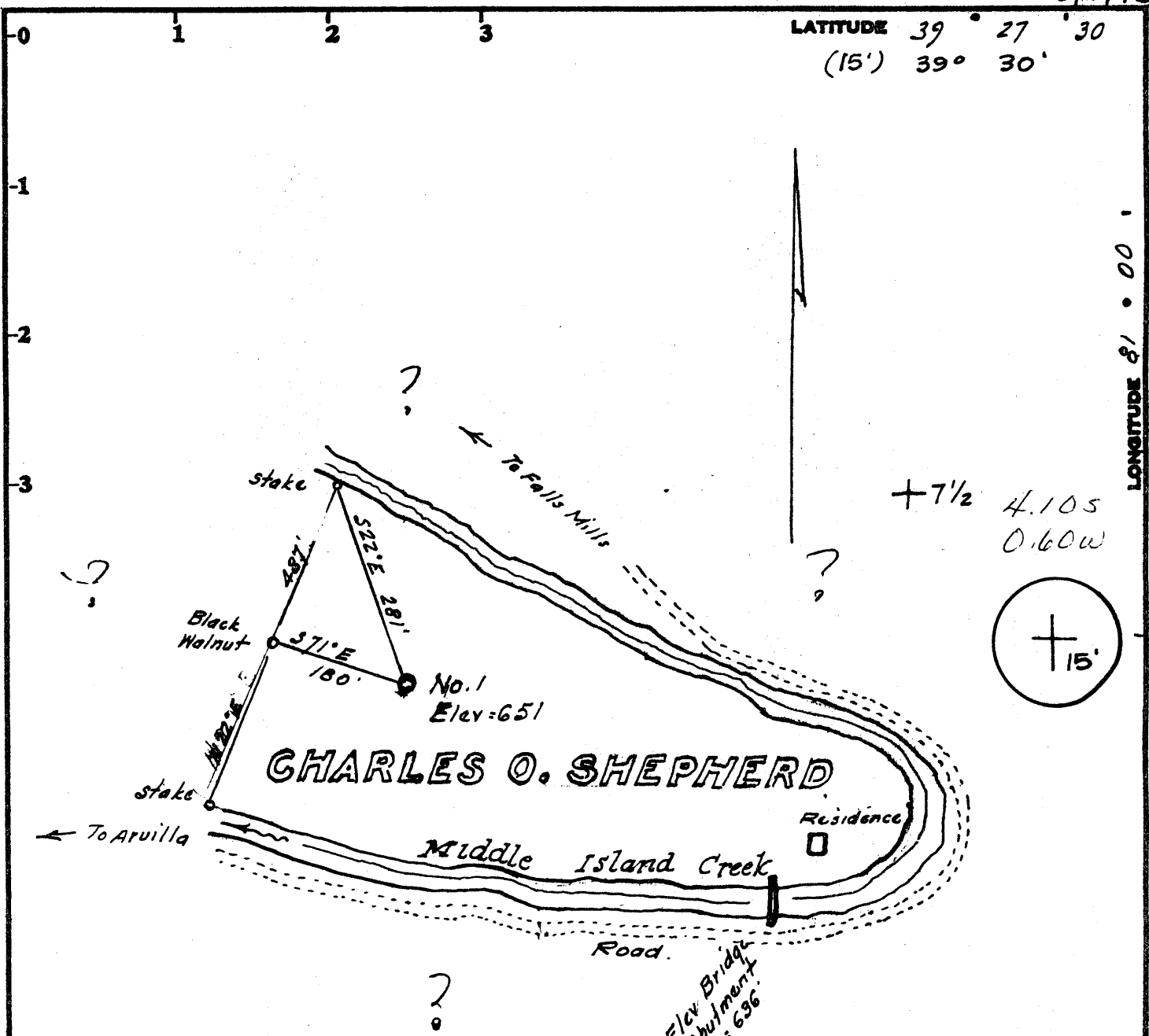
MAY 12 1986

3000 Edition

8/7/79

LATITUDE 39° 27' 30"
(15') 39° 30'

LONGITUDE 81° 00'



LEGEND

- Lines plotted from deed calls
- Surveyed Lines
- Roads
- o Well Location

OWNERSHIP

No coal
Fee ownership: Chas. O. Shepherd
Friendly, W. Va.

Minimum Error of Closure 1 in 200

Source of Elevation Elev. Bridge Abutment = 636

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief 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.

Signed: W. S. Stettin
Squares: N S E W

Company Lauderman Oil & Gas DRILLING
 Address PO Box 226, Paden City, W. Va.
 Farm Charles O. Shepherd
 Tract _____ Acres 5 1/2 ± Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 651 NE
 Quadrangle Bens Run 7 1/2 (St. Marys 15')
 County Tyler District Meade
 Surveyor W. S. Stettin
 Surveyor's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Aug. 6, 1979 Scale 1" = 200'

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

WELL LOCATION MAP

FILE NO. 47-095-0725
According to DEP originally drilled 8-15-79

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being 62,500 represented by border lines as shown.

AUG 13 1979

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

RECEIVED
APR 25 1986



1) Date: April 15, 1986
2) Operator's Well No. Charles Shepherd #1
3) API Well No. 47-095-0725-F
State County Permit

STATE OF WEST VIRGINIA
DIVISION OF OIL & GAS 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 7 mcf / Underground storage _____ / Deep _____ / Shallow)
- 5) LOCATION: Elevation: 651' / Watershed: Middle Island Creek
District: Union / County: Tyler / Quadrangle: Bens Run 7 1/2
- 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. Lothor
Address General Delivery / Address Spencer, West Virginia
Middlebourne, WV 26149 / (304) 927-4537
- 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 355
- 12) Estimated depth of completed well, 1600' feet
- 13) Approximate strata depths: Fresh, 60; 65 feet; salt, 1550; 1550 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 Drillable Plug
Fresh water									
Coal									Sizes 4 1/2"
Intermediate	4 1/2					2636	2636		Depths set 1700
Production									
Tubing									
Lin.									Perforations: Top 1600 Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-0725-F 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>SB</u>	Agent: <u>ALB</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>181</u>	WPCP: <u>FRANK</u>	S&E: <u>177</u>	Other:
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NOTE: Keep one copy of this permit posted at the drilling location.

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

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

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 Stonestreet Drilling NAME Phillip Morgan
 ADDRESS Spencer, W. Va. ADDRESS 311 South 4th Ave., Paden City
 TELEPHONE _____ TELEPHONE 304-537-2215
 ESTIMATED DEPTH OF COMPLETED WELL: 3000 ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Gordon
 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	230'		<i>Fill surface</i>
7			
5 1/2			
4 1/2	Cemented through payzone		
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 90 FEET 1500 SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS No coal
 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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED
AUG 8 1979
OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,

Charleston, W. Va.

DATE 8-2-79

Surface Owner Charles O. and Mable Shepherd

Company Lauderman Oil & Gas Drilling

Address Route 6, Friendly, W. Va. 26146

Address 311 South 4th Ave., Paden City

Mineral Owner Charles O. Shepherd

Farm Charles O. Shepherd Acres 5 1/2

Address SAME

Location (waters) Middle Island Creek

Coal Owner No coal in this area

Well No. 1 Elevation _____

Address _____

District Union County Tyler

Coal Operator No coal

Quadrangle BENS RUN, ST MARYS

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 4-7-80.

INSPECTOR

TO BE NOTIFIED Mr. Phillip Tracy

ADDRESS 173 Dodd St., Middlebourne, W. Va.

PHONE 304-758-4573

Robert H. [Signature]
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 May 8 1979 by Charles O. Shepherd made to Lauderman Oil & Gas and recorded on the 13th day of July 1979, in Tyler County, Book 219 Page 666

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.

Very truly yours, Lauderman Oil & Gas Drilling

(Sign Name) [Signature]
Well Operator

311 South 4th Avenue

Street

Paden City

City or Town

West Virginia 26159

State

Address
of
Well Operator

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

*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.

095-0725

PERMIT NUMBER

"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 _____

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 PROPOSED GEOLOGICAL FORMATION: Gordon
 TYPE OF WELL: OIL _____ GAS _____ COMB. STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

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 For Coal Company

 Official Title