

Minimum Error of Closure 1 in 200  
 Source of Elevation B. Wells 35-Elev. 143846

Fracture   
 New Location  REVISED  
 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: *Curtis A. Lucas*

Map No. N49 Squares: N 2 S E 5 W

Company PENNZOIL COMPANY  
 Address P. O. Box 1588, Parkersburg, W. Va. 26101  
 Farm BLACKSHERE WELLS & CO.  
 Tract \_\_\_\_\_ Acres 3800 Lease No. 10037  
 Well (Farm) No. 70-Rev Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) ~~1507.58~~ 1589.08'  
 Quadrangle CENTERPOINT NE  
 County WETZEL District GRANT  
 Surveyor CURTIS A. LUCAS  
 Surveyor's Registration No. 275  
 File No. 81 Drawing No. \_\_\_\_\_  
 Date Aug. 28, 1975 Scale 1" = 800'

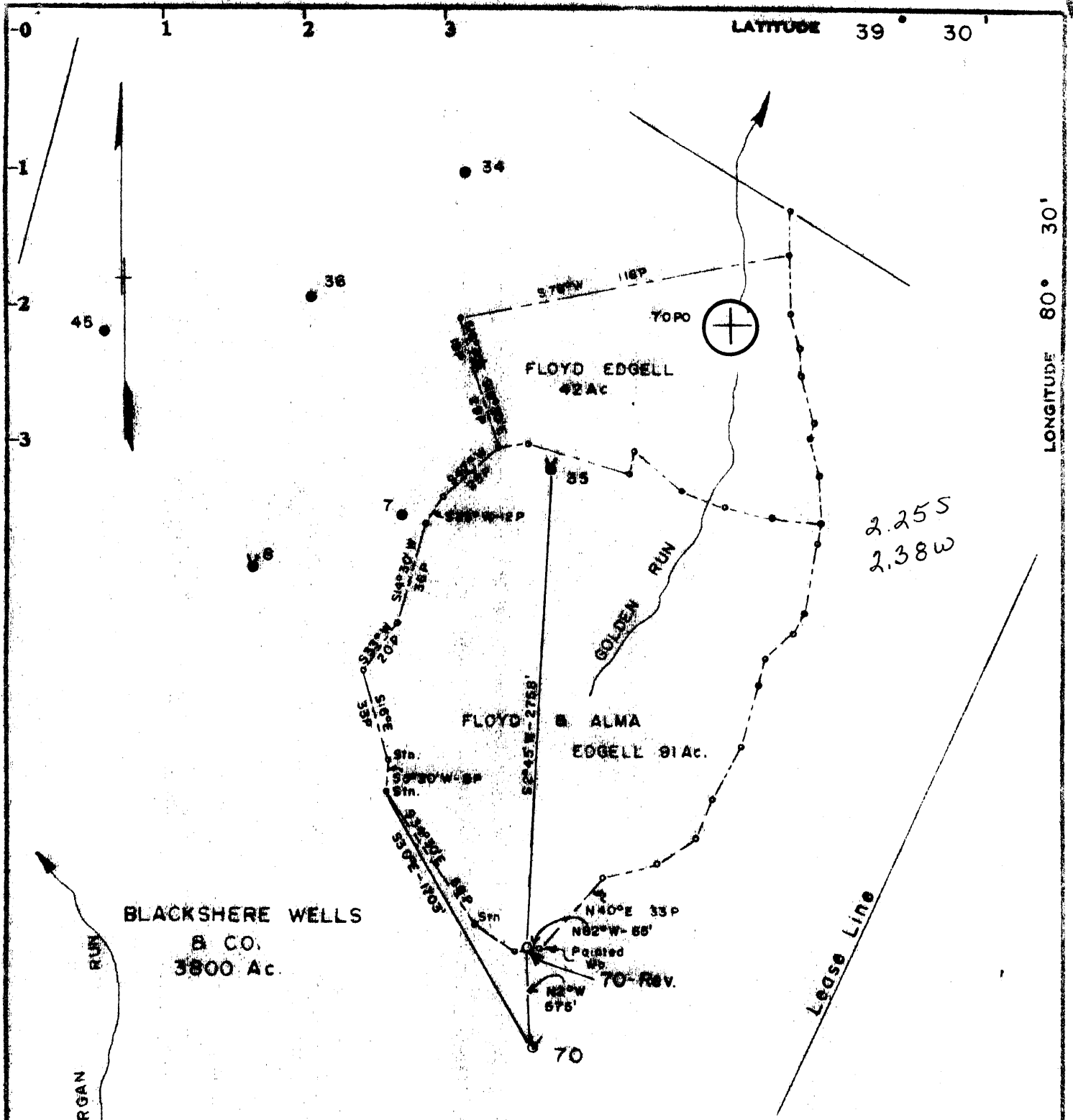
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. WET-601-REV.

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
 — Denotes one inch spaces on border line of original tracing.

**47-103**

2,275 ft



2.25 S  
2.38 W

Minimum Error of Closure 1 in 200

Source of Elevation B. Wells 35 - Elev. 143846

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Map No. N49 Square: N 2 S E 5 W

Fracture   
 New Location  REVISED  
 Drill Deeper   
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 Quadrangle CENTERPOINT NE  
 County WETZEL District GRANT  
 Surveyor CURTIS A. LUCAS  
 Surveyor's Registration No. 275  
 File No. 81 Drawing No. \_\_\_\_\_  
 Date Aug. 28, 1975 Scale 1" = 800'

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

**WELL LOCATION MAP**  
 FILE NO. WET-60I-REV.

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
 - Denotes one inch spaces on border line of original tracing.

**47-103**

3500' Gordon





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD #

Quadrangle Centerpoint

Permit No. Wet-601

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

Company <u>PENNZOIL COMPANY</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P. O. Box 1588, Parkersburg, W. Va. 26101</u>				
Farm <u>Blackshere Wells &amp; Co. Acres 3800</u>	Size			
Location (waters) <u>South Fork of Fishing Creek</u>	20-16			
Well No. <u>70</u> Elev. <u>1589.08'</u>	Cond.			
District <u>Grant</u> County <u>Wetzel</u>	13-10"			
The surface of tract is owned in fee by <u>Coastal Lumber Company</u>	9 5/8			
Address <u>Pioneer Div., P. O. Box 8, Daley, W. Va.</u>	8 5/8	1370	1370	
Mineral rights are owned by <u>Carl E. Beaty, Jr.</u>	7			
Agent Address <u>110 Water Street, Mannington, W. Va.</u>	5 1/2			
Drilling Commenced <u>9-12-75</u>	4 1/2	3634	3634	
Drilling Completed <u>10-17-75</u>	3			
Initial open flow <u>1000</u> cu. ft. <u>10</u> bbls.	2			
Final production <u>9000</u> cu. ft. per day <u>9</u> bbls.	Liners Used			
Well open _____ hrs. before test _____ RP.				

Well treatment details:

Attach copy of cementing record.

Fractured: Big Injun 11-20-75 w/700 BW, 30,000# 20/40 sd., 500 gal. 15% HCL  
 Perf: (2738-2764)-26 holes  
Gordon Stray 11-7-75 w/602 BW, 28,000# 20/40 sd., 500 gal. 15% HCL  
 Perf: (3420-3421.5)-5 holes; (3435-3438)-6 holes; (3452-3453)-4 holes  
Gordon 11-3-75 w/465 BW, 13,250# 20/40 sd., 500 gal. 15% HCL Perf: (3485.5-87.5)-1  
4th Sd. 10-28-75 w/330 BW, 8000# 20/40 sd., 500 gal. 15% HCL Perf: (3544-3548)-16

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches 9 BOPD  
 Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet  
 Producing Sand (Big Injun, Gordon, Gordon Stray) Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	130		
Sand			130	152		
Shale			152	270		
Silty Shale			270	312		
Shale			312	327		
Siltstone			327	526		
Sandy Siltstone			526	540		
Siltstone			540	658		
Sandy Siltstone			668	688		
Siltstone			688	797		
Sandy Siltstone			797	898		
Siltstone			898	944		
Sandy Siltstone			944	984		
Siltstone			984	1030		
Sandy Siltstone			1030	1067		
Siltstone			1067	1096		
Coal			1096	1100		
Siltstone			1100	1160		
Lime & Silt			1160	1240		
Silt & Shale			1240	1652		
Siltstone			1652	1669		
Silt & Shale			1669	1850		
Sandy Silt			1850	1872		
Sandstone			1872	1888		Heavy Water

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Silt & Shale			1888	1970		
Sandstone			1970	2000		
Silt & Shale			2000	2090		
Sandy Silt			2090	2133		
Sandstone			2133	2194		
Shale			2194	2260		
Siltstone			2260	2300		
Sandstone			2300	2320		
Shale			2320	2366		
Sandstone			2366	2430	Show Oil	
Silt & Shale			2430	2562		
Little Lime			2562	2578		
Pencil Cave			2578	2594		
Big Lime			2594	2680		
Loyalhanna			2680	2730		
Pocono Injun			2730	2796	Show Oil	
Shale			2796	3126		
Silty Shale			3126	3166		
Shale			3166	3270		
Sand			3270	3276		
Shale			3276	3354		
30 Ft. Sand			3354	3384		
Shale			3384	3412		
Gordon Stray			3412	3456	S/O 3430-3450	
Shale			3456	3482		
Gordon Sand			3482	3496	Show Oil	
Shale			3496	3544		
4th Sand			3544	3553	Show Oil	
Silt & Shale			3553	3635		
Total Depth				3635		

2594  
1584  
1005

Date Feb 20, 19 76

APPROVED Pennzoil Company Owner  
By Quentin A. Lucas  
(Title) Eng. Dept.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

AUG 6 1975

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE August 4, 1975

Surface Owner Coastal Lumber Company Company PENNZOIL COMPANY  
 Address Pioneer Division Address P. O. Box 1588, Parkersburg, W. Va. 2610  
P. O. Box 8, Daley, W. Va. 26259  
 Mineral Owner Carl E. Beaty, Jr., Agent Farm Blackshere Wells and Company 3800 ac.  
 Address 110 Water Street Location (waters) South Fork of Fishing Creek  
 Coal Owner Mannington, West Virginia 26582 Well No. 70 Elevation 1473.71'  
 Address Mountaineer Coal Company District Grant County Wetzel  
 Coal Operator P. O. Box 1632 Quadrange Centerpoint  
 Address Mannington, West Virginia 26554

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 27 of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 12-7-75

Robert L. Hodges  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Richard Morris  
PH: 354-7259 ADDRESS Grantsville, W. Va.

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 February 20, 1892 by John Blackshere, et al made to South Penn Oil Company and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ County, Book 35 Page 547

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, W. Va. 26505  
AC 304-296-4461

Very truly yours, PENNZOIL COMPANY  
(Sign Name) Curtis A. Luman  
Well Operator Surveyor

Address P. O. Box 1588  
of \_\_\_\_\_ Street  
Well Operator Parkersburg,  
City or Town  
West Virginia 26101  
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 BOARD

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

PROPOSED WORK ORDER TO  X  DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME  Pennzoil Company   
 ADDRESS \_\_\_\_\_ ADDRESS  P. O. Box 1588, Parkersburg, W. Va.   
 TELEPHONE \_\_\_\_\_ TELEPHONE  422-6565   
 ESTIMATED DEPTH OF COMPLETED WELL:  3500  ROTARY  X  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION:  Gordon   
 TYPE OF WELL: OIL  X  GAS  X  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	1390	1390	cement to surface
7			
5 1/2			
4 1/2	3500	3500	100 sks. cement
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS  1340   
 IS COAL BEING MINED IN THE AREA?  none  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