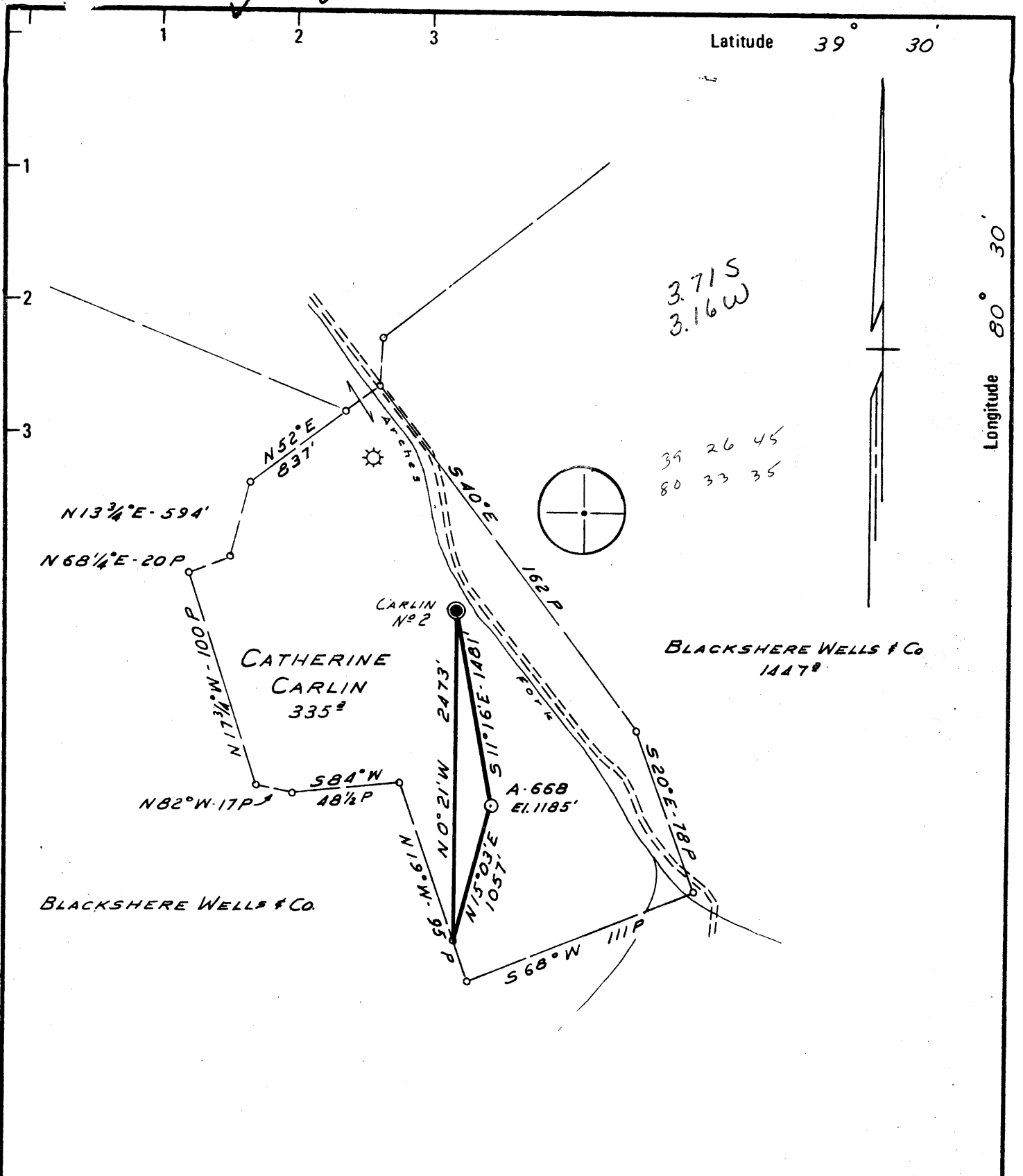


Latitude 39° 30'

Longitude 80° 30'



New Location Drill Deeper Abandonment

Minimum Error of Closure ONE PART IN 200
 Source of Elevation A. L. & M. Co. WELL A-557. ELEV. 1368'

"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."

Company ALLEGHENY LAND & MINERAL CO.
 Address CLARKSBURG, W. VA. 26301
 Farm CATHERINE CARLIN, WILLIAM J. CARLIN
 Tract _____ Acres 335 Lease No. 18765
 Well (Farm) No. _____ Serial No. A-668
 Elevation (Spirit Level) 1185'
 Quadrangle CENTERPOINT NE
 County WETZEL District GRANT
 Engineer [Signature]
 Engineer's Registration No. 530 L.L.S
 File No. 131 Drawing No. _____
 Date 6-18-77 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. WET-624

+ 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

240 K 16-6 Smithton-Flint-Sedalia (99)



RECEIVED

DEC 19 1977

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

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

Quadrangle CENTERPOINT

Permit No. WET-624

Company Allegheny Land & Mineral Co.
Address Box 1740, Clarksburg, WV 26301
Farm Catherine Carlin Acres 335
Location (waters) Arches Fork of Fishing Cr. to Ohio River
Well No. A-668 Elev. 1185'
District Centerpoint County Wetzel
The surface of tract is owned in fee by William J. Carlin, et al

Address Box 338, Smithfield, WV 26437
Mineral rights are owned by Same

Address _____
Drilling Commenced October 10, 1977
Drilling Completed October 14, 1977
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ 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			
8 5/8	915'	915'	Cement to surf
7			
5 1/2			
4 1/2	3078'	3078'	" " 1978
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well was fractured October 24, 1977 by Halliburton

Final test: Open flow-94 MCF

Rock Pressure - 490# - 3 days

Coal was encountered at 739-46'; 870-72' Feet _____ Inches _____
Fresh water @ 89' Feet _____ Salt Water @ 1690' Feet _____
Producing Sand Injun & Gordon Depth 2198-2274' & 2912-2992'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	10		
Shale & Red Rock			10	50		
Sand & Shale			50	196	1 1/2" Water @ 89'	
Sand			196	226		
Sand & Shale			226	739		
Coal *****			739	746	Coal *****	
Shale			746	870		
Coal *****			870	872	Coal *****	
Sand & Shale			872	1956		
Sand			1956	1974		
Sand & Shale			1974	2116		
Big Lime			2116	2198	2198 - 2208' - 20 shots	
Injun Sand			2198	2274	2915 - 2919' - 4 "	
Sand & Shale			2274	2418	2926 - 2934' - 4 "	
Sand			2418	2440	2954 - 2961' - 4 "	
Sand & Shale			2440	2912	2979 - 2991' - 6 "	
Gordon Sand			2912	2992		
Shale			2992	3199		
Total depth				3199 (Driller)		
						2116 1185 <u>-931</u>

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
JUL 13 1977
OIL & GAS DIVISION
DEPT. OF MINES

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

Surface Owner William J. Carlin, et al
Address Box 338, Smithfield, WV 26437
Mineral Owner Same
Address _____
Coal Owner Consolidation Coal Co.
Address Box 1632, Fairmont, WV
Coal Operator None
Address _____

DATE July 11th, 1977
Company Allegheny Land and Mineral Co.
Address P. O. Box 1740, Clarksburg, WV
Farm Catherine Carlin Acres 335
Location (waters) Arches Fork of Fishing Cree
Ohio River
Well No. A-668 Elevation 1185'
District Centerpoint County Wetzel
Quadrangle Centerpoint

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 11-28-77.

INSPECTOR
TO BE NOTIFIED Phillip L. Tracy
ADDRESS Middlebourn, W. Va.
PHONE 758-4573

[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 See Attached 19 by _____ made to _____ and recorded on the _____ day of _____ 19 , in _____ County, Book _____ Page _____

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

Address
of
Well Operator

Very truly yours, ALLEGHENY LAND & MINERAL COM
(Sign Name) By [Signature] Manager
Well Operator
P. O. Box 1740
Street
Clarksburg,
City or Town
West Virginia 26301
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

WET- 624 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 Union Drilling, Inc. NAME Allegheny Land & Mineral Co.
 ADDRESS Drawer 40, Buckhannon, WV 26201 ADDRESS P. O. Box 1740, Clarksburg, WV
 TELEPHONE 472-4610 TELEPHONE 623-6671
 ESTIMATED DEPTH OF COMPLETED WELL: 2400' ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Big Injun
 TYPE OF WELL: OIL _____ GAS XX 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	20'	20'	Cement to surface
13 - 10			
9 - 5/8			
8 - 5/8	950'	950'	Cement to surface
7			
5 1/2			
4 1/2	2400'	2400'	Cement to 300' above Big Injun horizon
3			
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60-100 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 912'
 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