



Minimum Error of Closure 1 in 200'

Source of Elevation Elev. Well No. 1 = 874'

- 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. H. Francis Carter*
 Squares: N S E W

Map No. _____

Company Associated Minerals, Inc.
 Address 225 4th St. Parkersburg
 Farm W. H. & Francis Carter W.V. 26101
 Tract _____ Acres 199.07 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 827
 Quadrangle Marietta SE
 County Wood District Union
 Engineer Surveyor W. H. Francis Carter
 Surveyor's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Dec. 16, 1974 Scale 1" = 50p = 825'

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

WELL LOCATION MAP
 FILE NO. W00-718

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

-- Denotes one inch spaces on border line of original tracing.
47-107



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Marietta

Permit No. W00-718

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

Company Associated Minerals, Inc.
Address 225 4th St., Parkersburg, W. Va.
Farm W.H. & Frances Carter Acres 200
Location (waters) Bull Creek
Well No. 2 Elev. 827
District Union County Wood
The surface of tract is owned in fee by _____
Frances Carter, widow
Address 1605 Market St., Parkersburg, WV
Mineral rights are owned by same
Address _____
Drilling Commenced 11/20/75
Drilling Completed 2/20/76
Initial open flow show cu. ft. show bbls.
Final production 500M cu. ft. per day 40 bbls.
Well open 4 hrs. before test 550# 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	201	201	48 sks
8 5/8	1000	-0-	
7	2301	-0-	
5 1/2			
4 1/2	2300'	2300'	70 sks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perf 2230' to 34, 2243 to 45, 2257 to 59

Halliburton Frac 20,000 lb sand 447 bbl oil

Coal was encountered at None Feet _____ Inches _____
Fresh water 135' Feet _____ Salt Water 1730 Feet _____
Producing Sand Berea Depth 2220' - 28'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	12		
Shale			12	25		
Sand			25	36		
Shale			36	71		
Sand			71	102		water @ 135'
Shale			120	195		
Sand			195	290		
Shale			290	352		
Sand			352	362		
Shale			362	494		
Sand			494	528		
Shale			528	1062		
Sand			1062	1078		
Shale			1078	1084		
Sand			1084	1204		
Shale			1204	1260		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			1260	1335		
Sandy Shale			1335	1442		
Sand			1442	1462		
Shale			1462	1530		
Sand & Shale Sand			1530	1722		
Lime & Sandy Lime			1722	1820	Water @ 1730	
Sand & Limey Sand			1820	1874		
Shale			1874	2220		
<u>Berea Sand</u>			2220	2228	Gas and oil	
Shale - Devonian Sh.			2228	3101		
		TD	3101			
Plugged Back to			2300			

3101
2228
873 expl. Ft.

Date _____, 19____

APPROVED _____, Owner

By _____

(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 9-19-75

Surface Owner W. H. & Francis Carter Company Associated Minerals, Inc.
 Address Parkersburg, W. Va. 26101 Address 225 Fourth Street, Parkersburg, W. Va.
 Mineral Owner Same Farm Carter Acres 200
 Address " Location (waters) Bull Creek
 Coal Owner " Well No. 2-ONE Elevation 827'
 Address " District Union County Wood
 Coal Operator None Quadrangle Marietta
 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 2-14-76.

INSPECTOR TO BE NOTIFIED Donald Connor
PH: 428-8172 ADDRESS Mineral Wells, W. Va.

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 December 20 19 70 by Francis S. Carter Widow of W.H. Carter, made to Allen Bros. Oil Co. and recorded on the 22nd day of December 19 70, in Wood County, Book 582 Page 63

XX 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, Associated Minerals, Inc.
 By (Sign Name) [Signature] Gen. Mgr.
 Well Operator
 Address 225 Fourth Street
 Street
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.

BOND DRILL

2000-718 PERMIT NUMBER
47-107

Samuel

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 _____ NAME Walter H. Allen
 ADDRESS _____ ADDRESS 225 Fourth Street, Parkersburg, W.V.
 TELEPHONE _____ TELEPHONE (304) 422-5418
 ESTIMATED DEPTH OF COMPLETED WELL: 3100' ROTARY xx CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Shale
 TYPE OF WELL: OIL _____ GAS _____ COMB. xx 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	200'	200'	Circ. to Surf.
8 - 5/8			
7	2300'	2300'	80 sks.
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 85 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS None _____
 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