



0.30S  
0.13W

Being Lot No. 24. of a Survey and Subdivision of a 4408 ac tract surveyed by I. D. Riley for Enoch Rector, located on Pond Run and Big Run. Listed as tract "M", page 450, Wood County Plat Book. See Deed Book No. 12, page 123, and Deed Book No. 31, page 503.

Minimum Error of Closure 1 in 200'

Source of Elevation U.S.G.S. B.M. 3500' NW - 837'

- 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. H. J.  
Squares: N S E W

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

Company ASSOCIATED MINERALS, INC.  
Address 225 4th St. Suite 4 East Parkersburg, W. Va.  
Farm S. J. Willard  
Tract \_\_\_\_\_ Acres 96.75 Lease No. \_\_\_\_\_  
Well (Farm) No. One Serial No. \_\_\_\_\_  
Elevation (Spirit Level) 937  
Quadrangle Parkersburg 15' SE  
County Wood District Williams  
Engineer Surveyor W. H. H. J.  
Surveyor's Registration No. 1227  
File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
Date FEB. 26, 1976 Scale 1" = 500'

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

WELL LOCATION MAP  
FILE NO. W00-729

+ 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 MAR 15 1976

2700 Corner Parkersburg (308)

JUL 09 1976

WEST VIRGINIA  
SURVEY



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

RECEIVED

JUN 30 1976

OIL & GAS DIVISION  
DEPT OF MINES

Quadrangle Parkersburg

Permit No. W00-729

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

Company Associated Minerals, Inc.  
Address 225 4th St., Parkersburg, W.Va.  
Farm S.J. and Helen Willard Acres 100  
Location (waters) Pond Run  
Well No. 1 Elev. 937  
District Williams County Wood  
The surface of tract is owned in fee by \_\_\_\_\_  
S.J. and Helen Willard  
Address 400 38th St., Vienna, W.Va.  
Mineral rights are owned by same \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling Commenced 2-27-76  
Drilling Completed 3-3-76  
Initial open flow A.F. 1.5MM cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open 4 hrs. before test 800 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	296	296	80 sks
7			
5 1/2			
4 1/2		2700	100 sks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Halliburton frac 40,000 # sand, 1022 bbls water

1,500 mcf

Coal was encountered at none Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Gordon Depth 2536 to 2552

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	30		
Sand			30	44		
Shale			44	382		
Sand			382	415		
Shale			415	1054		
Sand			1054	1062		
Shale			1062	1100		
Sand			1100	1198		
Sandy Shale			1198	1318		
Sand			1318	1350		
Shale			1350	1368		
Sand			1368	1380		
Shale			1380	1422		
Sand			1422	1448		
Shale			1448	1476		
Sand			1476	1496		

(over)

\* Indicates Electric Log tops in the remarks section.

JUL 9 1976

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale and sandy shale			1496	1606		
Sand and shaly sand			1606	1684		
Shale			1684	1716		
Sand			1716	1748		
Lime and sandy lime			1748	1840		
Sand and limey sand			1840	1916	salt water	1850
Shale and sandy shale			1916	2226		
Sand, Berea			2226	2230	oil and gas	
Shale and sandy shale			2230	2534		
<u>Sand, Gordon</u>			2534	2556		
Shale and sandy shale			2556	2700		
Total Depth			2700			

Date \_\_\_\_\_, 19\_\_\_\_

APPROVED \_\_\_\_\_, Owner

By \_\_\_\_\_

(Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

**RECEIVED**  
FEB 26 1976  
OIL & GAS DIVISION  
DEPT. OF MINES

**Oil and Gas Division**  
**OIL AND GAS WELL PERMIT APPLICATION**

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

Surface Owner S. J. & Helen Willard  
Address 400 38th St., Vienna, W. Va.  
Mineral Owner Same  
Address \_\_\_\_\_  
Coal Owner Same  
Address \_\_\_\_\_  
Coal Operator None  
Address \_\_\_\_\_

DATE 2-26-72  
Company A.M.I.  
Address 225 Fourth Street, Parkersburg, W.V.  
Farm Willard (S.J. & Helen) Acres 100  
Location (waters) Pond Run  
Well No. 1 Elevation 937'  
District Williams County Wood  
Quadrangle Parkersburg

**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 6-26-76.

Robert L. Ford  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Donald Conners  
PH: 428-8172 ADDRESS Mineral Wells

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 11-29-75 1975 by S.J. & Helen Willard made to A. M. I. and recorded on the 12th day of December 1975, in Wood County, Book 662 Page 25

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

Address  
of  
Well Operator

Very truly yours, Associated Minerals, Inc.  
(Sign Name) Walter M. ...  
Well Operator  
225 Fourth Street  
Street  
Parkersburg, W. Va. 26101  
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.

**BOND DRILL**

Woo-729 PERMIT NUMBER  
47-107

**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 FWA \_\_\_\_\_ NAME John Archer \_\_\_\_\_  
 ADDRESS Weston, W. Va \_\_\_\_\_ ADDRESS Weston, W. Va \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 2700' \_\_\_\_\_ 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		300	25 Sks
7			
5 1/2			
4 1/2		2600'	80 sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 225' 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