



WELL LOCATION TIES  
 FENCE COR. TO A-812 -  $566^{\circ}36'W - 417'$   
 FENCE COR. TO A-2 -  $N71^{\circ}33'W - 331'$   
 A-2 TO A-812 -  $S14^{\circ}13'W - 279'$

New Location   
 Drill Deeper   
 Abandonment

Minimum Error of Closure ONE PART IN 200  
 Source of Elevation WELL #3 ELEV. 850'

"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.V. 26301  
 Farm LLOYD W. GRAY  
 Tract \_\_\_\_\_ Acres 318.23 Lease No. \_\_\_\_\_  
 Well (Farm) No. \_\_\_\_\_ Serial No. A-812  
 Elevation (Spirit Level) 1005' NC  
 Quadrangle HOLBROOK 15, Oxford 7 1/2  
 County DODDRIDGE District SOUTHWEST  
 Engineer Samuel L. Wheeler  
 Engineer's Registration No. 530 L.L.S.  
 File No. 266 Drawing No. \_\_\_\_\_  
 Date 2-21-79 Scale 1" = 1000'

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

WELL LOCATION MAP  
 FILE NO. 47-017-2352

+ 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.

MAR 21 1979

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

Date June 14, 1979

FORM IV-35  
(Obverse)

Operator's Well No. A-812

[08-78]

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 017 - 2352  
State County Permit

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
(If "Gas", Production  / Underground storage  / Deep  / Shallow   
LOCATION: Elevation: 1005' Watershed: Sugar Run  
District: Southwest County: Doddridge Quadrangle: HOLBROOK

WELL OPERATOR Allegheny Land & Mineral Company DESIGNATED AGENT Allegheny Land & Mineral Co.  
Address P. O. Box 1740 Address same  
Clarksburg, WV 26301

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Ream  / Fracture or stimulate   
Plug off old formation  / Perforate new formation   
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON February 23, 1979 OIL & GAS INSTRUCTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Paul Garrett  
Address 321 Beach Street  
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Weir Depth 2300' feet  
Depth of completed well, 2466' feet Rotary  / Cable Tools   
Water strata depth: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
Coal seam depths: \_\_\_\_\_ Is coal being mined in the area?   
Work was commenced March 26, 1979, and completed April 1, 1979

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-IN OR CACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Winds
Fresh water								
Coal								Cases
Intermediate	8-5/8"			X		363'	363'	Cemented to surface
Production	4 1/2"			X		2373'	2373'	" Depth "
Tubing								
Liners								Packers as: Top Bottom

OPEN FLOW DATA

Producing formation Injun 1974-2010 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Mcf/d  
Final open flow, 96 Mcf/d Final open flow, \_\_\_\_\_ Mcf/d  
Time of open flow between initial and final tests, \_\_\_\_\_ hours  
Static rock pressure, 580# psig (surface measurement after 114 hours shut in)  
If applicable due to multiple completion--  
Second producing formation Weir 2182-2308 feet  
Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Mcf/d  
Final open flow, 277 Mcf/d Final open flow, \_\_\_\_\_ Mcf/d  
Time of open flow between initial and final tests, \_\_\_\_\_ hours  
Static rock pressure, 1300# psig (surface measurement after 114 hours shut in)

JUL 17 1979

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Well was fractured April 17, 1979 by Dowell.

Perforations: 1978-1991' - 18 holes  
 2183-2191' - 5 "  
 2192-2201' - 2 "  
 2205-2215' - 5 "  
 2269-2273' - 4 "  
 2277-2281' - 4 "

(Log 4' off depth)

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Clay			0	15	
Sand & Shale			15	405	
Red Rock			405	409	
Sand & Shale			409	810	
Salt Sand			810	828	
Sand & Shale			828	1680	
Sand			1680	1700	
Sand & Shale			1700	1886	
Big Lime			-1886	1974	
Injun Sand			1974	2010	
Sand & Shale			2010	2182	
Weir Sand			2182	2308	
Sand & Shale			2308	2466	
		total depth		2466	

(Attach separate sheets to complete as necessary.)

Allegheny Land & Mineral Company  
Well Operator

By Clarck Dawson

Its Supt.

NOTE: Regulation 2.02(d) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

1886  
1250  
636  
1886  
1708  
1886

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) UNION DRILLING COMPANY

Address P. O. BOX 40  
BUCKHANNON, WEST VIRGINIA 26201

GEOLOGICAL TARGET FORMATION, Weir

Estimated depth of completed well, 2300 feet Rotary XX/ Cable tools     /

Approximate water strata depths: Fresh 20-80 feet; salt,      feet.

Approximate coal seam depths: 650 Is coal being mined in the area? Yes     / No XX/

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet): cement to surface	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	16"				X	20'	20'		Kinds
Fresh water	8-5/8"								
Coal	8-5/8"		20#	X		700' 600'	700' 600'	cement to surface	Sizes
Intermediate									
Production	4 1/2"		J 55 10.50#	X		2300'	2300'	cement to 300' above producing horizon	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-3, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 10/27/79

Robert R. [Signature]  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator     / owner     / lessee     / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date:     , 19     

By       
Its

Date: February 23, 19 79

Operator's Well No. A-812

API Well No. 47-017-2352  
State County Permit

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

FEB 28 1979

OIL & GAS DIVISION  
DEPT. OF MINES

FORM IV-2  
(Obverse)

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil      / Gas XX /  
(If "Gas", Production      / Underground storage      / Deep      / Shallow XX /)

LOCATION: Elevation: 1005 Watershed: Sugar Run  
District: Southwest County: Doddridge Quadrangle: Holbrook

WELL OPERATOR ALLEGHENY LAND & MINERAL CO. DESIGNATED AGENT ALLEGHENY LAND & MINERAL CO.

Address P. O. DRAWER 1740  
CLARKSBURG, WEST VIRGINIA  
26301

Address P. O. DRAWER 1740  
CLARKSBURG, WV 26301

OIL & GAS ROYALTY OWNER Venotia Gray  
Address 293 Downing Place  
Englewood, Ohio 45322  
Acreage 318.23

COAL OPERATOR       
Address     

SURFACE OWNER Venotia Gray  
Address 293 Downing Place  
Englewood, Ohio 45322  
Acreage 318.23

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Venotia Gray  
Address 293 Downing Place  
Englewood, Ohio 45322

FIELD SALE (IF MADE) TO:  
Name       
Address     

Name       
Address     

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address 321 Beech Street  
Clarksburg, WV 26301  
622-3871

COAL LESSEE WITH DECLARATION ON RECORD:  
Name       
Address     

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed      / lease XX / other contract      / dated August 1, 19 07, to the undersigned well operator from Hope Natural Gas (Subsequently Consolidated Gas)  
[If said deed, lease, or other contract has been recorded:]

Recorded on January 26 19 12, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in      Book 30 at page 148. A permit is requested as follows:

PROPOSED WORK: Drill XX / Drill deeper      / Redrill      / Fracture or stimulate      /  
Plug off old formation      / Perforate new formation      /  
Other physical change in well (specify)     

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

ALLEGHENY LAND & MINERAL COMPANY  
Well Operator

By Glen E. Watkins  
Glen E. Watkins, Manager  
Land, Lease & Right of Way