



- Fracture.....
- Redrill.....
- New Location.
- Drill Deeper.....
- Abandonment.....

Source of Elevation C.G.S.C. WELL # 11082 ELEV. 1235'

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.

Minimum accuracy, one part in 200

Company ALLEGHENY LAND & MINERAL CO.

Address CLARKSBURG, W. V. 26301

Farm J. I. Hopkins

Farm J. J. WILLIAMS, Roy Williams

Tract _____ Acres 90 Lease No. _____

Well (Farm) No. _____ Serial No. A-785

Elevation (Spirit Level) 1224' SW

Quadrangle CLARKSBURG 15' WOLF SUMMIT 7 1/2

County HARRISON District TEN MILE

Engineer Daniel L. Wheeler

Engineer's Registration No. 530 L.L.S.

File No. 261 Drawing No. B-1520

Date 1-31-79 Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. 47-033-2050

+ 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 15 1979

[08-78]

WELL OPERATOR'S REPORT

WELL NO. A-785

OF
DRILLING, FRACTURING AND/OR STIMULATING, AND OTHER OPERATIONS

API Well No. 033-2050

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production x / Underground storage ___ / Deep ___ / Blow ___)
LOCATION: Elevation: 1224' Watershed: Shaws Run of Ten Mile Creek
District: Ten Mile County: Harrison Subtriangle: Clarksburg (15')

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

PERMITTED WORK: Drill x / Convert ___ / Drill deeper ___ / Reamed ___ / Fracture or stimulate ___
Plug off old formation ___ / Perforate new formation ___ / APR - 9 1979
Other physical change in well (specify) _____

OIL & GAS DIVISION
DEPT. OF MINES

PERMIT ISSUED ON February 12, 1979

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____, 19____)

Name Paul A. Garrett
Address 321 Beach Street
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Benson Depth 4656' feet
Depth of completed well, 4795 feet Rotary x / Cable Tools ___
Water strata depth: Fresh, 20' & 40'; salt, ___ feet.
Coal seam depths: 338-341' Is coal being mined in the area? no
Work was commenced March 3, 1979, and completed March 7, 1979.

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	11-3/4"			x		32'	32'	Minds
Fresh water								
Coal	8-5/8"			x		934'	934'	Cemented to surface
Intermediate								
Production	4 1/2"			x		4736'	4736'	" " 31850'
Tubing								
Miners								Bottom

OPEN FLOW DATA

Producing formation Speechly Sands Pay zone depth 3204-3220' & 3298-3306'
Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ bbl/d
ll sands Final open flow, 852 Mcf/d Final open flow, ___ bbl/d
Time of open flow between initial and final tests, ___ hours
Static rock pressure, 1380# psig (surface measurement) after 89 hours shut in
(If applicable due to multiple completion--)
Second producing formation Balltown Sand Pay zone depth 3546-3586' feet
Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ bbl/d
Final open flow, ___ Mcf/d Final open flow, ___ bbl/d
Time of open flow between initial and final tests, ___ hours
Static rock pressure, ___ psig (surface measurement) after ___ hours shut in

APR 27 1979

[08-78]

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

Well was fractured March 13, 1979 by Dowell.

Perforations: 3207-3220' - 9 holes 3207-3210, 3214-3220
 3300-3306' - 6 "
 3546-3574' -18 " 3546-48, 3551-55, 3560-66, 3568-74
 4646-4654' -16 "

P. J. card

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	10	
Sand & Shale			10	338	
COAL *****			338	341	Water @ 20' & 40'
Sand & Shale			341	1644	Coal *****
Big Lime			1644	1708	
Injun Sand			1708	1784	
Sand & Shale			1784	2260	
Gordon Sand			2260	2270	
Sand & Shale			2270	2590	
5th Sand			2590	2620	
Sand & Shale			2620	3204	
Speechly Sand			3204	3220	
Sand & Shale			3220	3298	
Speechly Sand			3298	3306	
Sand & Shale			3306	3546	
Balltown Sand			3546	3586	
Sand & Shale			3586	4570	
Riley Sand			4570	4580	
Sand & Shale			4580	4642	
Benson Sand			4642	4656	
Sand & Shale			4656	4795	
			total depth	4795	

(Attach separate sheets to complete as necessary.)

Allegheny Land & Mineral Company
Well Operator

By Claron Dawson

Its Supt.

NOTE: Regulation 5.02(i) 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."

Date: February 12, 1979

Operator's Well No. A-785

API Well No. 47-033-2050
State County Permit

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

OIL AND GAS WELL PERMIT APPLICATION

FORM IV-2
(Obverse)

[08-73]

WELL TYPE: Oil / Gas XX /
(If "Gas", Production / Underground storage / Deep / Shallow XX /)
LOCATION: Elevation: 1224' Watershed: Shaws Run of Ten Mile Creek
District: Ten Mile County: Harrison Quadrangle: Clarksburg (15')

WELL OPERATOR ALLEGHENY LAND & MINERAL CO. DESIGNATED AGENT ALLEGHENY LAND & MINERAL CO.
Address P. O. DRAWER 1740 Address P. O. DRAWER 1740
CLARKSBURG, WEST VIRGINIA CLARKSBURG, WV 26301
26301

OIL & GAS ROYALTY OWNER John I. Hopkins, etal COAL OPERATOR none
Address P. O. Box 327 Address
Davidson, North Carolina
Acreage 90 28036

SURFACE OWNER Ray Williams Name John I. Hopkins, Trustee
Address Wolf Summit Address P. O. Box 327
West Virginia 26301 Davidson, NC 28036
Acreage 90 Name Ray A. Williams

FIELD SALE (IF MADE) TO: Address Wolf Summit, WV 26301
Name Consolidated Gas Supply Corp.
Address 445 West Main Street
Clarksburg, WV 26301

OIL & GAS INSPECTOR TO BE NOTIFIED Address
Name Paul A. Garrett
Address 321 Beech Street
Clarksburg, WV 26301

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 Nov. 6, 1968, to the undersigned well operator from Consolidated Gas Supply Corporation.

[If said deed, lease, or other contract has been recorded:]
Recorded on Sept., 1907, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Book 163 at page 482. 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) 348-3093

SURETY BOND

ALLEGHENY LAND & MINERAL COMPANY
By Glen E. Watkins, Manager
Land, Lease & Right of Way

[08-78]

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, Balltown / Benson

Estimated depth of completed well, 4500' feet Rotary XX / Cable tools /

Approximate water strata depths: Fresh 60-80 feet; salt, feet.

Approximate coal seam depths: 233 258-264 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)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	16"				X	20'	20'	cement to surface	Kinds
Fresh water	8-5/8"								
Coal	8-5/8"		20#	X		600'	600'	cement to surface	Sizes
Intermediate									
Production	4 1/2"		J 55 10.50#	X		4500'	4500'	cement to 300' above producing horizon	Deaths 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 § 22-4-9a 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 10-20-79.

Robert L. [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