

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

Source of Elevation WELL 8234, ELV. 1304.7'

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.VA. 26301

Farm S. D. CAMDEN

Tract 265 of Acres 1600 Lease No. _____

Well (Farm) No. _____ Serial No. A-489

Elevation (Spirit Level) 1404'

Quadrangle VADIS SE 4!

County LEWIS District FREEMANS CK.

Engineer R. J. Miller

Engineer's Registration No. 105 L. L. S.

File No. 227/32 Drawing No. _____

Date 4-20-73 Scale 1" = 500'

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

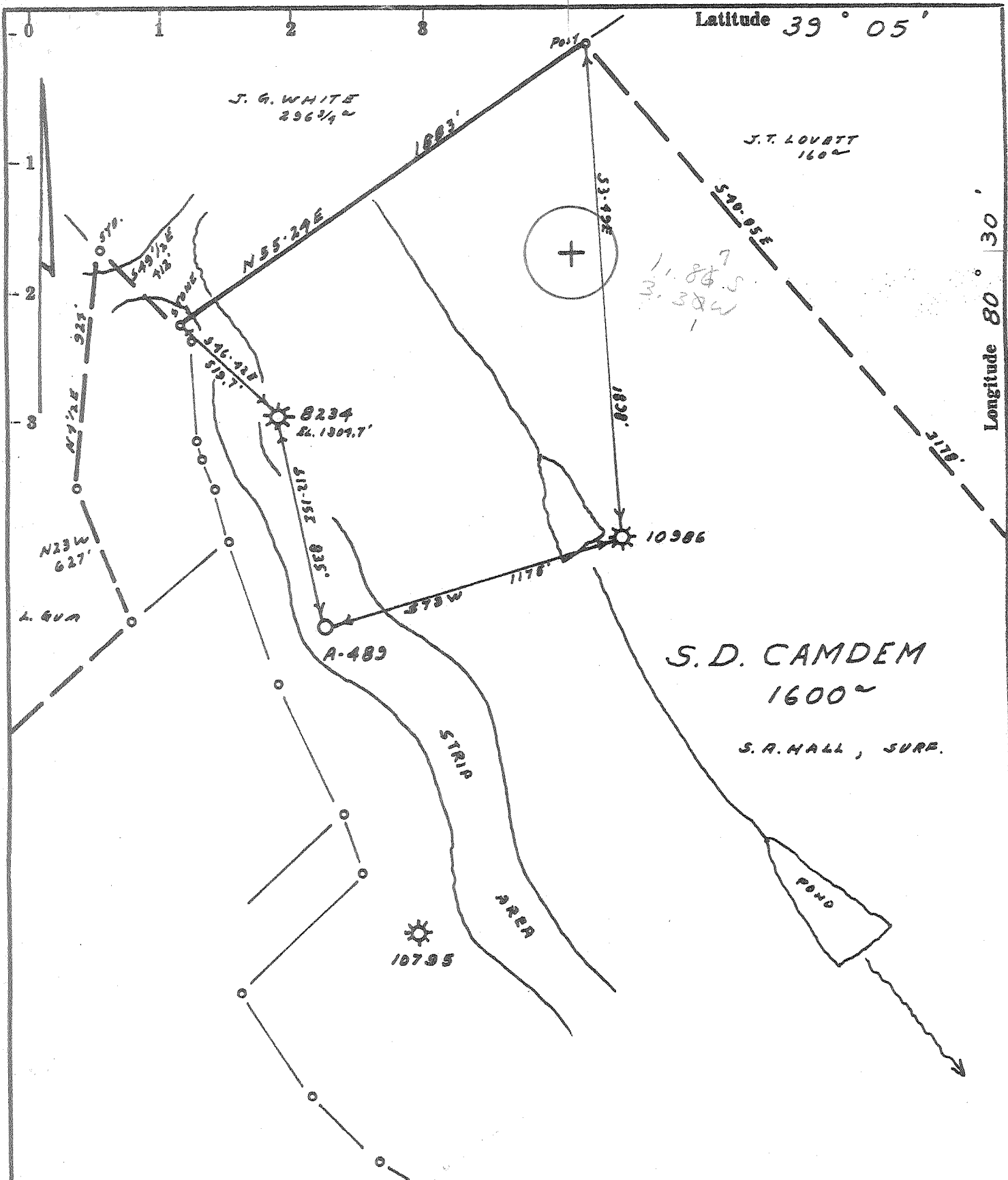
WELL LOCATION MAP
FILE NO. Lew-1917-P

+ 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.

47-041 DEC 5 1974

Deep Well



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

Source of Elevation WELL 8234, ELV. 1309.7'

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 <u>ALLEGHENY LAND & MINERAL CO.</u>	
Address <u>CLARKSBURG, W.VA. 26301</u>	
Farm <u>S. D. CAMDEM</u>	
Tract _____	Acres <u>1600</u> Lease No. _____
Well (Farm) No. _____	Serial No. <u>A-489</u>
Elevation (Spirit Level) <u>1404'</u>	
Quadrangle <u>VADIS SE 4'</u>	
County <u>LEWIS</u>	District <u>FREEMANS CK.</u>
Engineer <u>R. J. McMillan</u>	
Engineer's Registration No. <u>105 L.L.S.</u>	
File No. <u>229/32</u>	Drawing No. _____
Date <u>4-20-73</u>	Scale. <u>1" = 500'</u>

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

WELL LOCATION MAP
FILE NO. Law-1917

+ 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.

47-041 Deep Well



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AUG 1 1973 @ 9-22

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

Rotary
Spudder
Cable Tools
Storage

Quadrangle **Vadis**
Permit No. **Lew-1917**
OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD 8

Oil or Gas Well **Gas**
(KIND)

Company **Allegheny Land & Mineral Co.**
Address **P.O. Box 1479 Clarksburg, W. Va.**
Farm **S.D. Camden** Acres **1600**
Location (waters) **Polk Creek of West Fork River**
Well No. **A-489** Elev. **1404**
District **Freemans Creek County Lewis**
The surface of tract is owned in fee by **S.A. Hall, Jr.**
Box 475 Address **Weston, W. Va.**
Mineral rights are owned by **S.A. Hall, Sr. et al**
215 State Street Address **Weston, W. Va.**
Drilling commenced **June 17, 1973**
Drilling completed **July 5, 1973**
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS) **Fractured July 26, 1973 By Halliburton**

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	Not cemented		
13	24'	24'	
10 9-5/8"	1649'	1649'	Size of
8 1/4"	Cemented to surface		
6 3/4"			Depth set
5 3/16"			
4 1/2"	7480'	7480'	
3"			Perf. top
2"			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED **4 1/2" SIZE 980** No. Ft. **7-7-73** Date
Amount of cement used (bags) **200** bags
Name of Service Co. **Halliburton**
COAL WAS ENCOUNTERED AT **NONE** FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) **10/10 Water 2" 133 Mcf**
ROCK PRESSURE AFTER TREATMENT **1110#** ----- **12 hr.**
2125# ----- **144 hr.**
Fresh Water Feet Salt Water Feet
Producing Sand **Chert** **7058-7193** Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
oil			0	18			
and			18	80			
shale & Red Rock			80	144			
and & shale			144	217			
red Rock & shale			217	303			
Sand	White		303	367			
red Rock & shale			367	440			
Sand	White		440	765			
Shale			765	813			
Sand	Gray		813	871			
Shale			871	986			
Sand	White		986	1046			
Shale			1046	1175			
Sand	Gray		1175	1218			
Shale			1218	1308			
Sand	Gray	Hard	1308	1330			
Shale & sand			1330	1499			
Lime			1499	1535			
Shale			1535	1645			
Big Lime			1645	1813			
Sand			1813	1894			
Sandy shale			1894	2315			
Sand 5th			2315	2339			
Sand			2339	2350			
Sand 5th			2350	2357			
Sandy shale			2357	2855			
Shale & sand			2855	4500			
Benson sand			4500	4515			

4 1/2" Casing perforated:
7058 to 7193 - 21 holes
7266 to 7412 - 13 "Oriskany +
Mold

Formation	Color	Hard or Soft	Top δ	Bottom	Oil, Gas or Water	Depth Found	Remarks
shale - sandy			4515	4595			
shale			4595	6805			
culley Lime			6805	6842			
arcellus Shale			6842	6992			
nondaga Lime			6992	8023			
bert - <i>Huntersville</i>			7023	7250			
riskany sand			7250	7345			
elderberg Lime			7345	7491			
total depth				7491			

Date August 9, 19 73

APPROVED Allegheny Land & Mineral Co., Owner

By Claron Dawson, Supt.
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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MAY 16 1973

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE May 15th, 1973

Surface Owner S. A. Hall, Jr.

Company Allegheny Land and Mineral Co.

Address Route 4, Box 475, Weston, WV 26452

Address Clarksburg, WV 26301

Mineral Owner S. A. Hall, Sr. et al

Farm S. D. Camden Acres 265 of 1600

Address 215 State St., Weston, WV 26452

Location (waters) Polk Creek of West Fork River

Coal Owner S. A. Hall, Jr.

Well No. A-489 Elevation 1404'

Address Route 4, Box 475, Weston, WV 26452

District Freemans Creek County Lewis

Coal Operator none

Quadrangle VADIS SE

Address _____

INSPECTOR TO BE NOTIFIED

Box 12 PH: 472-6410

Buckhannon

W.Va. 26201

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 9/17/73.

Robert L. Jones
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 sheet by _____ made to _____ and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____

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.

Very truly yours, ALLEGHENY LAND AND MINERAL CO.

(Sign Name) By: [Signature]
Well Operator
Manager-Land, Lease and R/W

Address
of
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

Lew-1917 PERMIT NUMBER

47-041-1917

Survey

**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 and Mineral Co.
 ADDRESS Buckhannon, WV 26201 ADDRESS Clarksburg, WV 26301
 TELEPHONE _____ TELEPHONE 624-7659
 ESTIMATED DEPTH OF COMPLETED WELL: 7300' ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 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	1400'	1400'	cement to surface
8 - 5/8			
7			
5 1/2			cement to 300' above
4 1/2	7300'	7300'	Chert formation
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS approx 300' from old records, questionable. FEET _____ SALT WATER FEET _____
 APPROXIMATE COAL DEPTHS 453' _____
 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

Under grant or lease dated the 15th. day of June, 1899, between S. D. Camdem and Flora Camdem, his wife, and the Southern Oil Company, subsequently Consolidated Gas Supply Corporation, and of record in the County Clerk's office of Lewis County, West Virginia, in lease and or deed Book 40 at Page 561, on October 30th. 1899. The said lease has been assigned to Allegheny Land and Mineral Company by Consolidated Gas Supply Corporation under agreement dated the 12th. day of April, 1973

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MAY 16 1973

OIL & GAS DIVISION
DEPT. OF MINES

Under grant or lease dated the 4th., day of July, 1900 made by J. T. Lovett unto H. P. Camden, et al., subsequently Consolidated Gas Supply Corporation, and of record in the office of the Clerk of the County Court of Lewis County, West Virginia, in lease and or deed Book 30 at Page 582, said lease being recorded the 16th., day of July, 1900. The said lease has been assigned to Allegheny Land and Mineral Company by Consolidated Gas Supply Corporation under agreement dated the 12th., day of April, 1973

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MAY 7 1973

OIL & GAS DIVISION
DEPT. OF MINES