

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

Source of Elevation WELL NO 8221, ELEV. 1155'

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.

A-10-15-74

Minimum accuracy, one part in 200

Company	ALLEGHENY LAND & MINERAL CO.		
Address	CLARKSBURG, W.VA. 26301		
Farm	HARVEY HALL		
Tract	Acres	225	Lease No.
Well (Farm) No.	4	Serial No.	A-491
Elevation (Spirit Level)	1250'		
Quadrangle	VADIS SE 21		
County	LEWIS	District	FREEMANS CK.
Engineer	R. J. McWilliams		
Engineer's Registration No.	105 L.L.S.		
File No.	224/14	Drawing No.	
Date	3-10-73	Scale	1" = 500'

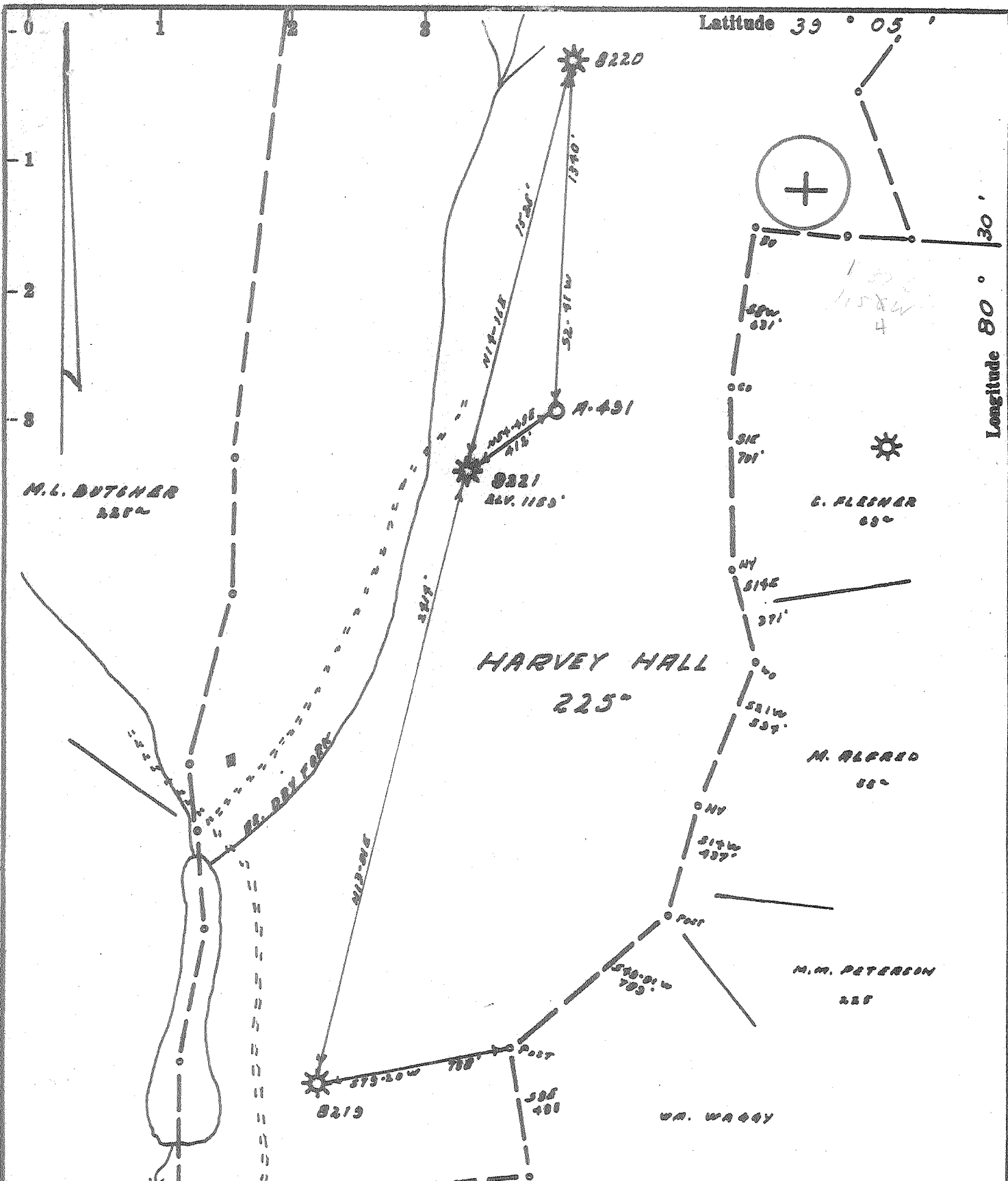
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. New-1907-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 04



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

Source of Elevation Well No. B221, Elev. 1153'

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 500

Company	ALLEGHENY LANDS MINERAL CO.	
Address	CLARKSBURG, W.VA. 26301	
Farm	HARVEY HALL	
Tract	Acres 225	Lease No.
Well (Farm) No.	4	Serial No. A-491
Elevation (Spirit Level)	1250'	
Quadrangle	VADIS SE 23	
County	LEWIS	District FREEMANS CK.
Engineer	P.J. Williams	
Engineer's Registration No.	105 L.L.S.	
File No.	224/19	Drawing No.
Date	3-10-73	Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. New-1907

+ 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.

Deep Well



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

Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well Gas (KIND)

Well No. Law-1907

WELL RECORD 2

Company Allegheny Land & Mineral Co.
Address P.O. Box 1479 Clarksburg, W. Va.
Farm Harvey Hall Acres 225
Location (waters) Dry Fork of Polk Creek
Well No. A-491 Elev. 1250
District Freemans Creek County Lewis
The surface of tract is owned in fee by Elmer C. Cox
Waston, W. Va. Address Route 4
Mineral rights are owned by Consolidated Gas Supply Corporation
Address Clarksburg, W. Va.
Drilling commenced May 3, 1973
Drilling completed May 28, 1973
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 189,000 mcf natural Cu. Ft.
Rock Pressure 2150 lbs. hrs.
Oil bbls., 1st 24 hrs.

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16 20"	8'	8'	Kind of Packer
13	120'	120'	
BOX 9-5/8"	1485'	1485'	Size of
8 1/4			Depth set
6 1/4			
5 3/16			
4 1/2	7169'	7169'	Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS)
RESULT AFTER TREATMENT (Initial open Flow or bbls.) Could not get accurate test
ROCK PRESSURE AFTER TREATMENT 2175# HOURS 144
Fresh Water 92 Feet 140 Est. 1 1/2" Stream Water
Producing Sand Depth

Attach copy of cementing record.
CASING CEMENTED 4 1/2" SIZE 905 No. Ft 5-29-73 Date
Amount of cement used (bags) 290
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	8			
Red Rock			8	65	Water	65	Show
Shale & Red Rock			65	154	Water	140	Est. 1 1/2" stream
Sand			154	167			
Shale			167	180			
Shale & Red Rock Sand			180	213			
Shale & Red Rock			213	300			
Sand & shale			300	572			
Sand	White		572	790			
Shale & sand			790	829			
Sand	Gray		829	982			
Shale			982	995			
Sand & shale			995	1000			
Sand			1102	1175	Oil & Gas	1110	Show
Shale			1175	1258			
Red Rock & shale			1258	1406			
Sand & shale			1406	1427			
Lime			1427	1444			
Pencil cave			1444	1469			
Big Lime			1469	1540			
Injun sand			1540	1603			
Sand			1603	1630			
Sand & shale			1630	1653			
Sand			1653	1665			
Sand & shale			1665	1710 2103			
Sand			2103	2130			
Sandy shale			2130	2177			
Sand			2177	2191			
Sand & shale			2191	2320			

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
5th sand			2320	2348	Gas	2348	100 M
and shale			2348	2750			
and Gray			2750	2768			
and shale			2768	3104			
and			3104	3125			
and shale			3125	4170			
enson sand			4170	4200			
and shale			4200	4248			
enson sand			4248	4269			
and shale		Med.	4269	5180			
and shale		Soft	5180	6375			
ime & shale			6375	6472			
ulley Lime			6472	6590			
shale			6590	6728			
nondaga Lime			6728	6790			
hert - Huntersville			6790	7040			
riskany			7040	7122			
elderberg Lime			7122	7206			
Total depth				7206			
4 1/2" Casing perforated:							
7111	--	1	hole	} Oriskany			
7096	--	1	"				
7094	--	1	"				
7062	--	1	"				
7060	--	1	"				
7051	--	1	"				
7049	--	1	"				
7048	--	1	"	} Huntersville			
6995	--	1	"				
6964	--	1	"				
6947	--	1	"				
6924	--	1	"				
6907	--	1	"				
6868	--	1	"				
6859	--	1	"				
6842	--	1	"				

SOIL

Date July 11, 1973

APPROVED Allegheny Land & Mineral Co., Owner

By Claron Dawson, Supt.
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE April 12, 1973

Surface Owner Elmer C. and Dorothy I. Cox
Address Route 4, Weston, WV. 26452
Mineral Owner Consolidated Gas Supply Corp., et al.
Address Clarksburg, WV 26301
Coal Owner Elmer C. and Dorothy I. Cox
Address Route 4, Weston, WV 26301
Coal Operator none
Address _____

Company Allegheny Land and Mineral Company
Address Box 1740, Clarksburg WV 26301
Farm Harvey Hall Acres 225
Location (waters) Dry Fork of Polk Creek
Well No. A - 491 Elevation 1250'
District Freemans Creek County Lewis
Quadrangle VADIS SE

INSPECTOR TO BE NOTIFIED

Mr. Paul Thomas
Box 12 PH: 472-6418
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 8/16/73

Robert J. Ford
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 9 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: James P. Powell
Well Operator Secretary

Address of Well Operator

P. O. Box 1740
Street
Clarksburg, WV - 26301
City or Town
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-1907 PERMIT NUMBER

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 Company NAME Allegheny Land and Mineral Company
 ADDRESS Buckhannon, West Virginia - 26201 ADDRESS Clarksburg, West Virginia - 26301
 TELEPHONE _____ TELEPHONE 624-7659
 ESTIMATED DEPTH OF COMPLETED WELL: 7130' 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	7130'	7130'	Chert
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100-650 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS 305-774 _____
 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

ALLEGHENY LAND AND MINERAL CO.

** Under grant or lease dated the 12th. day of August, 1899, made by Calvin Flesher and Margaret Flesher, his wife, unto H. H. Hilton, 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 33 at Page 397, said lease was recorded on the 13th. day of October, 1899, said lease has been assigned unto Allegheny Land and Mineral Company by Consolidated Gas Supply Corporation by agreement dated April 12th., 1973

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OIL & GAS DIVISION
DEPT. OF MINES