



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

Source of Elevation D.A. WELL, ELEV. 1180'

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	C. L. FRUM HRS.
Tract	Acres 147 Lease No.
Well (Farm) No.	Serial No. A-420
Elevation (Spirit Level)	1186
Quadrangle	CENTERPOINT SW 41 SC
County	DODDRIDGE District GRANT
Engineer	R. D. McWilliam
Engineer's Registration No.	105 L.L.S.
File No.	216/148 Drawing No.
Date	12-11-70 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. DOD-1609

+ 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.

Form OG-10
 State of West Virginia
 DEPARTMENT OF MINES
 OIL AND GAS WELLS DIVISION 3

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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS WELLS DIVISION 3

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

Quadrangle Centerpoint
 Permit No. Dod -1609

Company Allegheny Land Mineral Co.
 Address Clarksburg, W. Va.
 Farm C. L. From Inc. Acres 147
 Location (waters) _____
 Well No. A-420 Elev. 1186
 District Grant County Doddridge
 The surface of tract is owned in fee by Melen From, Agt.
904 Holly Drive Address Jeffersonville, Ind
 Mineral rights are owned by Same
 Address _____
 Drilling commenced March 2, 1971
 Drilling completed March 6, 1971
 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) March 16, 1970
 RESULT AFTER TREATMENT (Initial open Flow or bbls.) 22/10 Water 2" (198 A) 198000
 ROCK PRESSURE AFTER TREATMENT 350 HOURS 12
 Fresh Water _____ Feet _____ Salt Water _____ Feet _____
 Producing Sand Injura Depth _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	Cemented to surface		Kind of Packer
13	20' 20'	20'	
10	Cemented to surface		Size of
8 1/4	443'	443'	
6 5/8			Depth set
5 3/16			
4 1/4	2163'	2163'	
3			Perf. top <u>2051</u>
2			Perf. bottom <u>2101</u>
Liners Used			Perf. top _____ Perf. bottom _____
Attach copy of cementing record.			
CASING CEMENTED <u>4 1/2"</u> SIZE <u>13'</u> No. Ft. <u>3-7-71</u> Date			
Amount of cement used (bags) <u>90</u>			
Name of Service Co. <u>Halliburton</u>			
COAL WAS ENCOUNTERED AT <u>244</u> FEET <u>150</u> INCHES			
<u>387</u> FEET <u>393</u> INCHES FEET INCHES			
FEET INCHES FEET INCHES			
by <u>Halliburton</u>			

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock			0	5			
Sand			5	10			
Red Rock			10	25			
Sand			25	57			
Red Rock			57	65			
Sand			65	72			
Red Rock			72	79			
Sand			79	92			
Shale			92	96			
Sand			96	112			
Red Rock			112	121			
Shale			121	144			
COAL			144	150			
Shale			150	155			
Sand			155	162			
Shale			162	185			
Sand			185	200			
Red Rock			200	210			
Sand			210	218			
Red Rock			218	280			
Shale			280	297			
Sand			297	310			
Shale			310	325			
Sand			325	332			
Shale			332	352			
Sand			352	359			
Shale			359	370			
Sand			370	378			
Shale			378	387			

4 1/2" Casing perforated:
 2051 to 2052 - 2 shots
 2077 - 1 shot
 2082 to 2085 - 4 shots
 2091 to 2093 - 3 shots
 2100 to 2101 - 2 shots

(over)

APR 10 1971

Formation	Color	Hard or Soft	Top S	Bottom	Oil, Gas or Water	Depth Found	Remarks
COAL	*****	*****	387	393			
Shale			393	414			
Sand			414	445			
Red Rock			445	450			
Sand			450	452			
Red Rock			452	457			
Shale			457	470			
Sand			470	506			
Shale			506	550			
Sand			550	575			
Shale			575	581			
Red Rock			581	583			
Shale			583	601			
Red Rock			601	684			
Sand			684	689			
Shale			689	708			
Sand			708	718			
Shale			718	750			
Sand			750	808			
Red Rock			808	835			
Sand			835	840			
Red Rock			840	847			
Sand			847	864	Red Rock		
Red Rock			864	930			
Sand			930	937			
Shale			937	1020			
Red Rock			1020	1050			
Shale			1050	1190			
Sand			1190	1217			
Shale			1217	1222			
Sand			1222	1235			
Shale			1235	1255			
Sand			1255	1265			
Shale			1265	1310			
Sand			1310	1375			
Shale			1375	1385			
Sand			1385	1395			
Shale			1395	1412			
Sand			1412	1425	1425		
Shale			1425	1430			
Sand			1430	1472			
Shale			1472	1480			
Sand			1480	1510			
Shale			1510	1560			
Sand			1560	1615	Salt water	1570	Show
Shale			1615	1635			
Sand			1635	1715			
Shale			1715	1730			
Sand			1730	1800			
Shale			1800	1900			
Red Rock			1900	1915			
Shale			1915	1930			
Sand			1930	1940			
Shale			1940	1970			
Lime			1970	2046			
Sand <i>Big Injun</i>			2046	2160			
Shale			2160	2198			
Total depth				2198			

Date March 18, 1971

APPROVED Allegheny Land & Mineral Co., Owner

By Claron Dawson, Supt.
(Title)