



Minimum Error of Closure 1' in 200'

Source of Elevation C.G.S. Well No. 83, Elev. 761.00 Gr.

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.

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

Signed: Curtis A. Lucas
 Squares: N S E W

Map No.

Company D. A. DORWARD
 Address 41 N. Chesterfield Rd. Columbus, Ohio
 Farm J. D. McReynolds
 Tract Acres 100 of 1500 Lease No. _____
 Well (Farm) No. 1-1 Serial No. _____
 Elevation (Spirit Level) 762.23
 Quadrangle Jenertpoint WC
 County Logan District 1st
 Surveyor Curtis A. Lucas
 Engineer's Registration No. 295
 File No. _____ Drawing No. _____
 Date Oct. 20, 1971 Scale 1" = 200'

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

WELL LOCATION MAP
 FILE NO. DOD-1650

+ 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.



WVFD

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29-20
4-42

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Centerpoint

Permit No. Dod-1650

WELL RECORD 4

Oil or Gas Well Oil & Gas
(KIND)

Company D. A. Dorward
 Address 41 N. Chesterfield Rd. Columbus Ohio
 Farm J. D. McReynolds Acres 100
 Location (waters) Big Flint
 Well No. D-1 Elev. 762
 District Grant County Doddridge
 The surface of tract is owned in fee by Paul Gessler
 Address Big Flint
 Mineral rights are owned by Stewart McReynolds
 P. O. Box 169 Address Clarksburg, W. Va.
 Drilling commenced 1 - 6 - 72
 Drilling completed 1 - 10 - 72
 Date Shot From To
 With

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	16ft.	16ft.	
13	42ft.	42ft.	
10			Size of
8 1/4	462ft.	462ft.	
6 1/4			Depth set
5 3/16		1860ft.	
4 1/2			Perf. top <u>1836</u> Perf. bottom <u>1840</u> Perf. top Perf. bottom

Open Flow /10ths Water in Inch
 /10ths Merc. in Inch
 Volume Cu. Ft.
 Rock Pressure lbs. hrs.
 Oil bbls., 1st 24 hrs.

Attach copy of cementing record.
 CASING CEMENTED 8" SIZE 462 No. Ft. 1-8-72 Date
 Amount of cement used (bags) 100
 Name of Service Co. LAWSON
 COAL WAS ENCOUNTERED AT 417 FEET 84 INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

WELL ACIDIZED (DETAILS)
 WELL FRACTURED (DETAILS) 1-18-72 By Dowell 30,000# 20-40 sand
2,500 gal acid 700 BBL. water

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 15 to 20 Bbls. Oil, 125 MCF
 ROCK PRESSURE AFTER TREATMENT 400# HOURS 36
 Fresh Water Surf. - 250ft. Feet Salt Water Feet
 Producing Sand Big Injun Depth 1840

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Gravel			0	25			
Sand		Hard	25	30			
R. Rock		"	30	35			
Sand		"	35	78			
Slate		"	78	104			
R. Rock		"	104	123			
Sand		"	123	164			
Slate		"	164	178			
Sandy-Lime		"	178	204			
Slate		"	204	250			
Sand		"	250	286			
Slate		"	286	304			
Sand		"	304	312			
R. Rock		"	312	326			
Slate & R. Rock		"	326	379			
Sand		"	379	385			
Slate		"	385	417			
Coal (Pitt.)		"	417	424			
Sand		"	424	442			
Slate		"	442	458			
Sand		"	458	536			
R. Rock		"	536	780		462' 8" Cemented	
Slate		"	780	868			
R. Rock		"	868	875			
Slate		"	875	992			
Broken Sand		"	992	1130			
Slate		"	1130	1160			
Sand		"	1160	1300			
Slate		"	1300	1330			

Formation	Color	Hard or Soft	Top \downarrow	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1330	1341			
Slate			1341	1360			
Sand			1360	1380			
Slate			1380	1482			
Sand			1482	1558	1691		
Slate			1558	1640	762		
R. Rock			1640	1664			
Little Lime			1664	1669	929		
Pencil Cave			1669	1691			
Big Lime			1691	1775			
Big Injun			1775	1863			
			Total Depth	1863	Gas & Oil	Show 1800	to 1840

Date Feb. 2, 1972, 19

APPROVED D. A. Dorward, Owner

By D. B. Crayton
Field Supt. (Title)