

Company **MURPHY OIL CO. of PENNA.**
 Address **304 Court St., West Union, W.Va.**
 Farm **Porter Maxwell's Heirs**
 Tract _____ Acres **1400** Lease No. _____
 Well (Farm) No. **46-A** Serial No. _____
 Elevation (Spirit Level) **1087.0'**
 Quadrangle **Holbrook Vadis NW**
 County **Doddridge** District **New Milton**
 Engineer **W. S. Hoover**
 Engineer's Registration No. **1227**
 File No. _____ Drawing No. _____
 Date **January, 1962** Scale **1" = 80 p = 1320'**

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

WELL LOCATION MAP

FILE NO. **Dod-708**

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 9

Quadrangle Vadis

Permit No. DOD-708

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Murphy Oil Company of Pennsylvania
Address West Union, West Va. H.O. Phil. Pa.
Farm Porter Maxwell Acres 1400

Location (waters) _____
Well No. 46-A Elev. 1087'
District New Milton County Doddridge

The surface of tract is owned in fee by R.L. Holland, Atty. address West Union, Va.

Mineral rights are owned by Porter Maxwell, Moira
Raymond Maxwell, Atty. Clarksbury, Va.

Drilling commenced February 13, 1962

Drilling completed April 2, 1962

Date Shot No shots From _____ To _____

With _____

Open Flow /10ths Water in _____ Inch

/10ths Merc. in _____ Inch

Volume 465,000 Cu. Ft. Gas--Salt Sand Ft.

Rock Pressure 120' lbs. 12 hrs.

Oil _____ bbls., 1st 24 hrs.

WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 Wood	14'	14'	
10	423'	413'	Size of
8 3/4	1104'	1104'	
6 3/4	1878'		Depth set
5 3/16	2631'	2631'	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 5 1/2" (2631'-1500') SIZE 1134' No. Ft. Mar. 17, 62
8 sks. aquagel & 123 sks. cement
Lowell's Drilling Service 3/17/62

Water filled ENTERED AT No COAL WAS ENCOUNTERED AT No FEET INCHES

FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

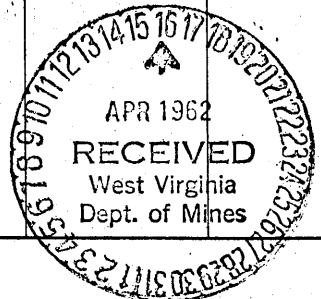
WELL FRACTURED Yes-- Lowell, Riverfrac-- Gordon & Gordon stray
Berea & Big Injun

RESULT AFTER TREATMENT Gordon 120,000 Cu. Ft. 180,000 Cu. Beren

ROCK PRESSURE AFTER TREATMENT B. Injun 1,220,000 Cu. Ft. Gas. 600 # Rock Press.

Fresh Water No Feet _____ Salt Water Total 1.5 Million Cu. Ft. Open Flow

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
T. Soil & Clay			0	35'			
Red rock			35'	54'			
Slate			54'	56'			
Red rock			56'	83'			
Slate			83'	95'			
Red rock			95'	105'			
Slate			105'	112'			
Red rock			112'	127'			
Slate			127'	130'			
Lime			130'	134'			
Sand			134'	164'	Water		
Slate			164'	170'			
Sand			170'	180'			
Red Rock			180'	185'			
Lime			185'	195'			
Red Rock			195'	223'			
Sand			223'	231'			
Slate			231'	268'			
Red Rock			268'	280'			
Lime			280'	305'			
Red Rock			305'	355'			
Sand			355'	410'			
Lime			410'	417'			
Slate			417'	436'			
Sand			436'	446'			
Red Rock			446'	476'			
Slate			476'	485'			
Red Rock			485'	495'			
Slate			495'	527'			
Lime			527'	545'			
Slate			545'	640'			
Pink Rock			640'	660'			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime		Broken	660	672			
Pink Rock			672	744			
Sand		Hard	744	770			
Slate			770	790			
Red Rock			790	807			
Lime		Gritty	807	817			
Slate		Black	817	860			
Sand			860	875			
Slate			875	890			
Pink Rock			890	905			
Sand			905	932			
Slate			932	974			
Lime	Gritty	Hard Broken	974	1000			
Slate		Shells	1000	1062			
Sand		Hard	1062	1071			
Lime			1071	1100			
Sand			1100	1128			
Slate			1128	1148			
Sand		Hard	1148	1168			
Slate			1168	1171			
Sand		Hard	1171	1191			
Slate		Shells	1191	1290			
Sand			1290	1315			
Slate		Shells	1315	1365			
Sand			1365	1420			
Slate		Shells	1420	1570			
Lime		Hard-Gritty	1570	1585			
Sand			1585	1670	Oil & Gas	1620-70	
Slate			1670	1780			
Sand			1780	1790			
Slate		Shells	1790	1795			
Lime			1795	1805			
Slate			1805	1815			
Lime		Hard	1815	1850			
Sand B.M.		Hard	1850	1871	Show-Oil		
P.Cave			1871	1874			
B.Lime			1874	1937	Gas	1879-81	
Sand Keener			1937	2011	Gas	1941-43	
Slate		Shells	2011	2164			
Sand			2164	2290	Show Oil	2181-87	
Slate		Shells	2290	2365	" "	2275-83	
Sand Berea			2365	2375	Gas, S.Oil		
Slate Shells			2375	2465			
Lime			2465	2495			
Slate & Shells			2495	2560			
Sand			2560	2565			
Slate-Shells			2565	2575			
Sand			2575	2580			
Slate			2580	2585			
Sand			2585	2591	Oil & gas		
Slate			2591	2595			
Sand			2595	2602	Gas		
Slate			2602	2631			
T.D.				2631			

Date April 12, 1962, 19

APPROVED Murphy Oil Company of Penna. Owner

By James P. Droppleman, Dist. Supt.
(Title)