



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

B-1

Harvey

WELL RECORD

Permit No. MTN-271-D

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Company
Address P. O. Box 1273, Charleston 25, W. Va.
Farm Henry Closterman #18 Acres 3920
Location (waters) Breeden Cr.
Well No. 4469 Elev. 1429.2
District Harvey County Mingo
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by First Nat'l Bank of Bluefield
R.A. Yarbrough, T.O. Address Bluefield, W. Va.
Drilling commenced 11-16-27
Drilling completed 12-17-27
Date Shot Not shot From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 1,416 M Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

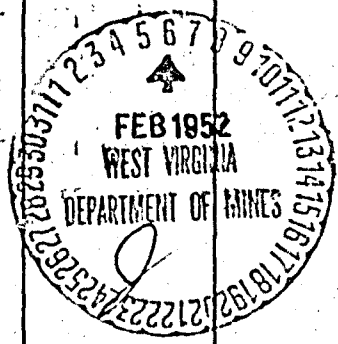
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10		18"	Size of
6 5/8"		1369'	Depth set
5 3/16			Perf. top
3			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
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 Found	Remarks
Soil			0	10			
Slate			10	20			
Coal			20	23			
Slate			23	28			
Sand			28	100			
Slate			100	120			
Coal			120	121			
Slate			121	140			
Sand			140	190			
Slate			190	195			
Coal			195	198			
Slate			198	215			
Lime			215	260			
Slate			260	280			
Lime			280	330			
White Mud			330	350			
Black Slate			350	400			
Lime			400	405			
slate			405	409			
Lime			409	460			
Slate			460	480			
Sand			480	500			
Slate			500	535			
Lime			535	557			
Slate			557	565			
Sand			565	570			
Slate			570	572			
Sand			572	605			
Dark Slate			605	660			
Lime			660	680			
Slate			680	748			
Sand			748	758			
Slate			758	835			
Lime			835	868			
Slate			868	910			
Lime			910	935			
Sand			935	982			
Slate			982	1112			

Reduced hole at 410' to 8-1/4"
Water 435'

Gas 975'



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			1112	1155			
Salt Sand			1155	1350			
Lime			1350	1360			
Black Lime			1360	1400			
Slate			1400	1403			
Sand			1403	1435			
Lime			1435	1460			
Sand			1460	1535	Gas 1490-1494'		
Slate			1535	1540			
Sand			1540	1543	Gas 1541'		
Slate			1543	1560			
Sand			1560	1584	Gas 1567-1581', 1,416 M		
Total depth			1584'				
NOT SHOT							
FINAL OPEN FLOW - 1,416 M - 1st Maxon Sand							
Shut in 12-17-27 in 6-5/8" Casing.							
<u>DRILLED DEEPER</u>							
Comm. Drg. 11-16-51 Comp. Drg. 1-4-52							
5-3/16" Csg. 1821'							
Orig. T.D.			1584'				
Slate			1584	1648			
Red Rock			1648	1653			
Lime shell			1653	1665			
Red Rock			1665	1681			
Lime shell			1681	1688			
Slate			1688	1695			
Lime shell			1695	1715			
Slate			1715	1725			
Lime shell			1725	1750			
Maxon Sand			1750	1773	Show gas 1752-1755'		
					Show oil 1760-1765'		
					Water 1765-1768' hole full		
Little Lime			1773	1807			
Pencil Cave			1807	1809			
Big Lime			1809	2015	Show gas 1962-1964'		
Injun Sand			2015	2075			
Lime shell			2075	2092			
Slate & Shells			2092	2280			
Big Shell			2280	2335			
Slate & shells			2335	2580			
Brown Shale			2580	2594			
Berea Sand			2594	2614			
Slate & shells			2614	2645			
Brown Shale			2645	2730			
Slate & shells			2730	3075			
Brown Shale			3075	3165			
White Slate			3165	3295			
Brown Shale			3295	3335			
White Slate			3335	3350			
Brown Shale			3350	3645	Gas 3355-3367' 9/10 W 1" 32 M		
					blew down to 3/10 W 1" 18 M		
					Gas 3510-3520' increased to 6/10 W 1" 26 M		
					Gas 3585-3625' 50/10 W 2" 298 M		
					blew down to 40/10 W 2" 267 M		
Total depth			3645				
FINAL OPEN FLOW - 375 M - Br. Shale							
48 Hr. R.P. 450#							
Shut in 1-8-52 in 5-3/16" Casing.							
Test before shot 36/10 W 2" 253 M							
Shot 1-7-52 with 6,666-2/3# DuPont							
Gelatin from 2634-3645							
Test 14 Hours after shot 79/10 W 2" 375 M							

Date February 4, 1952

APPROVED UNITED FUEL GAS COMPANY, Owner

By S. R. Terrell
(Title)

Mgr. Civil Eng. Dept.