

New Location
 Drill Deeper
 Abandonment

Seybert R. Howell 2 NW (6-5)

BENCH MARK
 BM-15 JJ 5, Steel Disk Set In
 Conc. Mon. South Side Hernshaw
 Road - East Side of Kanawha State
 Forest Boundary Trail in Center of
 Low Gap. Elev. 1316 ±

DEGREE OF ACCURACY
 One Part in Two Hundred

0.86 S.
 3.16 W

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W. VA.
 Farm BLACK BAND COAL & COKE CO.
 Tract _____ Acres 12007 Lease No. 16715
 Well (Farm) No. 5 Serial No. 3969
 Elevation (Spirit Level) 1208.53'
 Quadrangle PEYTONA - NC
 County KANAWHA District LOUDON
 Engineer Seybert R. Howell
 Engineer's Registration No. 2529
 File No. 60-51 Drawing No. _____
 Date JUNE 23, '65 Scale 1" = 660'

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

WELL LOCATION MAP
 FILE NO. KAN-2048-D

+ Denotes location of well on United States
 Topographic Maps, scale 1 to 62,500, lat-
 itude and longitude lines being represented
 by border lines as shown.

- Denotes one inch spaces on border line
 of original tracing.



1-12-66
428

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Rotary
Spudder
Cable Tools
Storage

OIL AND GAS DIVISION
- DRILL DEEPER -
WELL RECORD

Oil or Gas Well Gas
(KIND)

Quadrangle Charleston
Permit No. KAN-2048-D

Company United Fuel Gas Company
Address P. O. Box 1273 Charleston, W. Va. 25325
Farm Black Band Coal & Coke Co. #5 Acres. 300
Location (waters) Davis Creek
Well No. 3969 Elev. 1208.53'
District Loudon County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Frank A. Hardy, et al
Rupert Route Address Lewisburg, W. Va.
Drilling commenced Oct. 9, 1965
Drilling completed Oct. 27, 1965
Date Shot _____ From _____ To _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Size of
8 1/4			
6 3/4			Depth set
5 3/16			
4 1/2	<u>5621'</u>	<u>Cemented with</u>	<u>100 sacks</u>
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

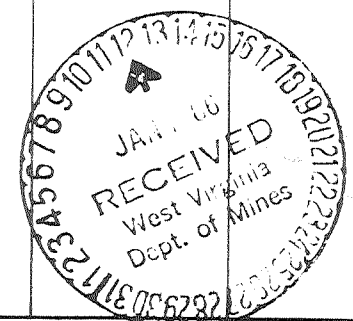
With _____
Open Flow 16 /10ths Water in _____ Inch
4 /10ths Merc. in _____ Inch
Volume 2,477 M - Newburg Cu. Ft.
Rock Pressure 2015 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) _____

Attach copy of cementing record.
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
Amount of cement used (bags) _____
Name of Service Co. _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____
ROCK PRESSURE AFTER TREATMENT _____ HOURS
Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

2,477 MCF in Newburg

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
DRILL DEEPER -							
Began drilling at			1697'				Perforated 4 1/2" casing from 5575-5579' with 14 jets. Fractured Newburg 10-29-65 with 688 bbls. sand laden fluid, 30,000# 20-40 sand, 750# J-111, 500# J-84 and 20 gallons F-52. Final open flow after fracture - 16/10 Merc. 4" <u>2,477 MCF</u> Shut in 11-22-65 in 4 1/2" casing. LOGS RUN: Gamma Ray Density Induction - Electrical
<u>Big Lime</u>			1697	1745			
<u>Injun</u>			1745	1775			
<u>Shale</u>			1775	2190			
<u>Berea</u>			2190	2193			
<u>Shale</u>			2193	4795			
<u>Corniferous Lime</u>			4795	4893			
<u>Oriskany</u>			4893	4903			
<u>Lime & Dolomite</u> <u>Heidelberg (Top)</u>			4903	5567			
<u>Newburg</u>			5567	5593			
<u>Lime & Dolomite</u> <u>Mckees</u>			5593	5623			
Total Depth			5623'				
			5623				
			1697				
			3526				



Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Quadrangle Charleston

Permit No. 2048

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Company
Address P. O. Box 1273 Charleston, W. Va.
Farm Black Band Coal & Coke Co. #5 acres 300
Location (waters) Davis Creek
Well No. 3969 Elev. 1208.53'
District Loudon County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Frank A. Hardy, etal
Rupert Route Address Lewisburg, W. Va.
Drilling commenced 6-13-29
Drilling completed 7-27-29
Date Shot _____ From _____ To _____
With _____
Open Flow 15 /10ths Water in 2 Inch
_____ /10ths Merc. in _____ Inch
Volume 184,000 Cu. Ft.
Rock Pressure 120 lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			<u>Anchor</u>
13			Size of
10		<u>356'</u>	<u>3 x 6-5/8 x 16</u>
8 1/4	<u>1250'</u>	<u>Pulled</u>	Depth set
6 5/8		<u>1596</u>	<u>1565'</u>
5 3/16			Perf. top
3		<u>1704'</u>	Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

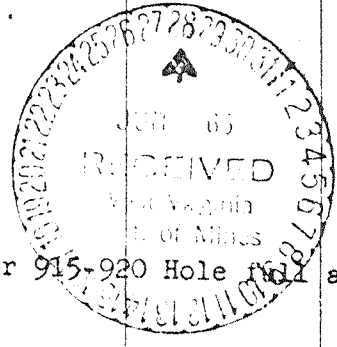
CASING CEMENTED _____ SIZE _____ No. Ft. _____
COAL WAS ENCOUNTERED AT 60 FEET 60 INCH
190 FEET 36 INCHES FEET INCH
FEET INCHES FEET INCH

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Conductor			0	13	Test after Tubing 7-27-29 15 W 2" 184,000 Cu. Ft.		
Clay			13	20			
Sand			20	60			
Coal			60	65			
Brown Shale			65	95			
Slate			95	125			
Sand			125	140	Water 130-135 Hole full		
Slate			140	165			
Sand			165	190			
Coal			190	193			
Slate			193	210			
Sand			210	230			
Slate			230	400	10" Casing set at 350' on Collar		
Sand			400	475			
Slate			475	550			
Gas Sand			550	615			
Slate			615	685			
Sand			685	725			
Slate			725	775			
Sand Salt Sand			775	815			
Slate			815	835			
Salt Sand			835	890			
Slate			890	895			
Salt Sand			895	1080	Water 915-920 Hole full at 960		
Slate			1080	1120			
Slate & Shells			1120	1165			
Sand			1165	1220			
Slate & Shells			1220	1295	8-1/4 casing on steel shoe at 1233 Pulled		
Sand			1295	1353			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found
Slate			1353	1356		
Pink Rock			1356	1368		
Slate & Shells			1368	1385		
Maxon Sand			1385	1467		
Gas			1400	1404	Steel line	Gas tested 4/10 W in
Slate & Shells			1467	1480		
Lime			1480	1524		
Slate Break			1524	1527		
Big Lime			1527		Not drilled through the	Big
6-5/8" Casing set 1579					Steel line measure	
Gas			1581	1588	24/10 Water	in 1"
Gas			1620	1635	14/10 Water	in 2"
Total Depth			1697'		Steel line measure	

Date June 25

APPROVED UNITED FUEL GAS COMPANY

By *S. R. Furell*
(Title)

Supt., Civil Engineering Dept.