

New Location...
 Drill Deeper.....
 Abandonment.....

Company UNITED FUEL GAS CO.
 Address CHARLESTON, WVA.
 Farm J.E. CROUSE
 Tract _____ Acres 138. Lease No. 75680
 Well (Farm) No. 1 Serial No. F-8547
 Elevation (Spirit Level) 974.
 Quadrangle MADISON
 County BOONE District CROOK
 Engineer J. A. Moore
 Engineer's Registration No. 662
 File No. 54-35 Drawing No. _____
 Date JUNE 29, 1949 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. B00-154-A

+ 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.

70023

(Boone J. E. GROUSE NO. 1 WELL. . . .)

Boone 154A ✓

Crook District, Boone County, W. Va.
 By United Fuel Gas Co., Box 1273, Charleston, 25, W. Va.
 Abandoned under permit Boo-.....-A?
 On 138 acres, on Pond Fork of Little Coal River.
 Elevation, 974' L.
 Minerals owned by Etta M. Grouse et al., 1537 Lee St., Charleston, W. Va.
 Drilling commenced Sept. 8, 1927; completed Nov. 14, 1927.
 Well was not shot.
 Open flow, 20/10ths W. in 2".
 Volume, 213,000 cu. ft.
 Fresh water at 1028, 1106, 1225, and 1298'.
 Salt water at 1528'.
 10" casing, 151'; 8½", 526' 7"; 6½", 1888' 9"; 3" tubing, 41'; 2", 1850';
 all left in.
 Anchor packer, 6½" x 8½" x 16, set at 1755' 6".
 Coal was encountered at 1111-1114 and 1360-1364'.
 Gas well. Record to Dept. of Mines dated July 1, 1949.
 Record to RCT from Mrs. Griffith September 27, 1949. Old File No. 583.

	Top.	Bottom.
Conductor	0	15
Soil	0	8
Rock	8	40
Slate	40	70
Sand	70	110
Slate	110	200
Lime	200	260
Slate and shells	260	300
Lime	300	370
Slate	370	425
Sand	425	445
Slate	445	560
Lime	560	600
Slate	600	640
Lime	640	700
Slate	700	725
Sand	725	897
Break	897	961
Sand (water, 1028', 1½ bailers); (water, 1106', 2½ bailers)	961	1111
Coal	1111	1114
Sand (water, 1225', 3 bailers) (water, 1298', 3½ bailers)	1114	1334
Slate	1334	1340
Sand	1340	1360
Coal	1360	1364
Slate	1364	1390
Hard sand (water, 1528', hole full)	1390	1570
Slate	1570	1576
Lime	1576	1590
Slate	1590	1600
Red rock	1600	1604
Lime	1604	1658
Slate and shells	1658	1719
Slate	1719	1752
Lime	1752	1769
Lime	1769	1792

(OVER)

J. E. CROUSE NO. 1 WELL (Continued).

Boone

	Top.	Bottom.
Line (gas, 1792', 60/10 W. 2"; reduced to 20/10 W. 2")	1792	1824
Pencil Cave	1824	1832
Big Lime	1832	2025
Big Injun Sand	2025	2080
Slate	2080	2090
Squaw Sand	2090	2115
Slate and shells	2115	2150
Lime	2150	2198
Slate and shells	2198	2505
Coffee Shale	2505	2521
Berea Sand	2521	2548
Lime	2548	2560
Slate	2560	2570
Slate and shells	2570	2620
Slate	2620	2691
Total depth		2691

Top.	Bottom.	Geological
0	0	Surface
0	8	Soil
8	40	Rock
40	70	Slate
70	110	Sand
110	200	Slate
200	260	Lime
260	300	Slate and shells
300	370	Lime
370	425	Slate
425	455	Sand
455	500	Slate
500	560	Lime
560	600	Slate
600	700	Lime
700	755	Slate
755	821	Sand
821	821	Break
821	921	Sand (water, 1000', 1 1/2 barrels); (water, 1000', 2 1/2 barrels)
921	1111	Coal
1111	1111	Sand (water, 1000', 3 barrels); (water, 1000', 3 barrels)
1111	1134	Slate
1134	1170	Sand
1170	1184	Coal
1184	1190	Slate
1190	1270	Hard sand (water, 1200', note fall)
1270	1276	Slate
1276	1280	Lime
1280	1290	Slate
1290	1600	Red rock
1600	1604	Lime
1604	1638	Slate and shells
1638	1710	Slate
1710	1722	Lime
1722	1729	Lime

(over)



583 ✓

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. 154-A

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Co.
Address P. O. Box 1273, Charleston 25, W. Va.
Farm J. E. Crouse Acres 138
Location (waters) Pond Fk. of Little Coal River
Well No. 1 Elev. 974
District Crook County Boone
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Etta M. Crouse, et al
1537 Lee Street Address Charleston, W.Va.

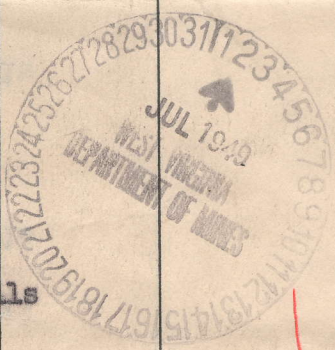
Drilling commenced 9-8-27
Drilling completed 11-14-27
Date Shot Not Shot From _____ To _____
With _____

Open Flow 20 /10ths Water in 2" Inch
/10ths Merc. in _____ Inch
Volume 213 M Cu. Ft.
Rock Pressure Not Given lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 1028, 1106, 1225 feet 1298 feet
Salt water 1528 feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			<u>Anchor</u>
10	<u>151</u>	<u>151</u>	Size of
8 1/4	<u>526' - 7"</u>	<u>526' - 7"</u>	<u>6-5/8" x 8-1/4" x 16"</u>
6 5/8	<u>1888' - 9"</u>	<u>1888' - 9"</u>	Depth set <u>1755' - 6"</u>
5 3/16			
3		<u>41</u>	Perf. top
2 Tubing		<u>1850'</u>	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 1111 FEET 36 INCHES
1360 FEET 48 INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Conductor				15			
Soil				8			
Rock			8	40			
Slate			40	70			
Sand			70	110			
Slate			110	200			
Lime			200	260			
Slate & Shells			260	300			
Lime			300	370			
Slate			370	425			
Sand			425	445			
Slate			445	560			
Lime			560	600			
Slate			600	640			
Lime			640	700			
Slate			700	725			
Sand			725	897			
Break			897	961	Water	1028'	1 1/2 Bailers
Sand			961	1111	Water	1106'	2 1/2 Bailers
Coal			1111	1114	Water	1225'	3 Bailers
Sand			1114	1334	Water	1298'	3 1/2 Bailers
Slate			1334	1340			
Sand			1340	1360			
Coal			1360	1364			
Slate			1364	1390			
Hard Sand			1390	1570	Water	1528'	Hole Full
Slate			1570	1576			
Lime			1576	1590			
Slate			1590	1600			
Red Rock			1600	1604			
Lime			1604	1658			
Slate & Shells			1658	1719			
Slate			1719	1752			
Lime			1752	1769			
Lime			1769	1792	Gas	1792'	60/10 W 2" Red. to 20/10 W 2".
Lime			1792	1824			
Pencil Cave			1824	1832			
Big Lime			1832	2025			



(Over)

SEP 27 1949

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Big Injun			2025	2080			
Slate			2080	2090			
Squaw			2090	2115			
Slate & Shells			2115	2150			
Lime			2150	2198			
Slate & Shells			2198	2505			
Coffee Shale			2505	2521			
Berea			2521	2548			
Lime			2548	2560			
Slate			2560	2570			
Slate & Shells			2570	2620			
Slate			2620	2691			
Total Depth				2691'			

Date July 1, 19 49

APPROVED United Fuel Gas Company, Owner

By J. H. Moore
Chief Engineer (Title)