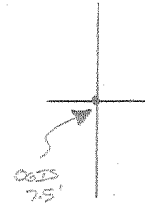


LATITUDE (15) 38° 20'
(75) 38° 17' 30"

(15) 81° 30'
(75) 81° 30' 30"



LONGITUDE

T'5 OGIS topo location

7.5' loc .605 15' loc 3.545
.20 W (calc.) 2.460

Company United Fuel Gas

Farm Georges Creek Land & Mining Co
(4643)

Quad Charleston East 7.5' / Charleston 15' SE

County Kanawha

District Malden

WELL LOCATION MAP

File No. 039-230

Kanawha

DEEP WELL 6-6 Campbell Creek - Malden (214)

WEST VIRGINIA DEPARTMENT OF MINES
OIL AND GAS DIVISION

453

WELL RECORD

Permit No. Kan. 230

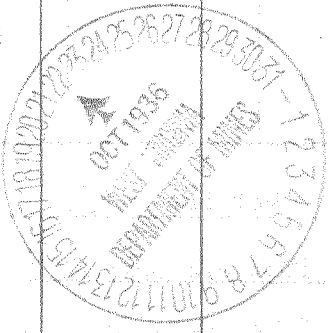
Oil or Gas Well GAS
(Kind)

Company UNITED FUEL GAS COMPANY
 Address Charleston, W. Va.
 Farm Georges Cr. Land & Mining Co. Acres 2863
 Location (waters) Georges Creek
 Well No. 4643 Elev. 769.45'
 District Malden County Kanawha
 The surface of tract is owned in fee by Georges Cr. Land & Mining Co. Address New York, N. Y.
 Mineral rights are owned by Georges Creek Land & Mining Co. Address New York, N. Y.
 Drilling commenced June 12, 1936
 Drilling completed September 19, 1936
 Date shot September 19, 1936 Depth of shot
 Open Flow /10ths Water in Inch
 12 /10ths Merc. in 2 Inch
 Volume 608,000 Cu. Ft.
 Rock Pressure 1240 lbs. 24 hrs.
 Oil bbls., 1st 24 hrs.
 Fresh water 55 feet feet
 Salt water 460 feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13	46' 8"	46' 8"	Bottom Hole
10	316'	316'	Size of
8 1/4	1368' 10"	1368' 10"	8 1/4" x 10" x 8"
6 5/8" O.D.	4537' 6"	4537' 6"	Depth set 1367'
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED - SIZE - No. FT. - Date
 COAL WAS ENCOUNTERED AT 168 FEET 48 INCHES
 270 FEET 36 INCHES 547 FEET 24 INCHES
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Gravel				40			
Slate			40	65	Water	55	
Sand			65	85			
Slate			85	125			
Sand			125	168			
Coal			168	172			
Slate			172	200			
Sand			200	270			
Coal			270	275			
Lime Shell			275	275			
Sand			275	300			
Sand			300	350	Show Gas	349	Run 316'-10" Csg.
Gas Sand			350	390			
Slate & Shell			390	415			
Salt Sand			415	547	Salt Water	460	
Coal			547	549			
Lime			549	560			
Sand			560	780			
Slate			780	825			
Sand			825	855			
Slate & Shells			855	890			
Salt Sand			890	970			
White Slate			970	995			
Red Rock			995	1005			
Slate Shells			1005	1015			
Maxon Sand			1015	1077			
Little Line			1077	1109			
Slate Break			1109	1120			S.L. Measurement
Black Line			1120	1127			
Pencil Cave			1127	1132			
Big Line			1132	1310			
Greener Sand			1310	1340			
Red Injun			1340	1362			
Gray Line			1362	1370			8 1/4" Csg. 1367' S.L.



(Over)

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate & Shells			1370	1745			
Brown Shale			1745	1755			
Lime Shell			1755	1762			
Slate & Shells			1762	2955			
Brown Shale			2955	3015			
White Slate & Shells			3015	3270			
Brown Shale			3270	3620			
White Slate & Shells			3620	4100			
Brown Shale			4100	4150			
White Slate			4150	4180	Show Gas	4175'	10/10 W 1" 33
Brown Shale			4180	4400			
White Slate			4400	4435	Gas	4350'	14/10 W 1" 39
Brown Shale			4435	4460			Haliburton Line
Black Slate			4460	4502			4520'
C. Lime			4502	4620	Gas	4620-4621	24/10 W 1" 51
Driskany Sand			4620	4633	Gas	4623-4627	42/10 W 1" 68
Sandy Lime			4633	4641	Gas	4627-4629	5/10 W 1" 24
Total Depth				4658			
Haliburton				4641			

Date October 21, 1936

APPROVED UNITED FUEL GAS COMPANY, Owner

By G. A. Cunningham

(Title) Engineer