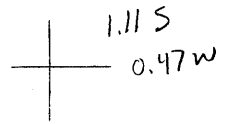


LATITUDE 38°10'



LONGITUDE

81°25'

700 ft

7.5 OGIS topo location

7.5' loc _____ 15' loc _____
 _____ (calc.) _____

Company United Fuel Gas

Farm Imperial Coal Co #1412

Quad _____

County Kanawha

District Cabin Creek

WELL LOCATION MAP

File No. 039-70052

IMPERIAL COAL CO. NO. 1412 WELL.

Cabin Creek District, Kanawha County, W. Va.
 By United Fuel Gas Co., Charleston, W. Va.
 Drilling contractor, C. E. Doty. Map Square 72-45.
 Commenced June 14, 1924; completed Dec. 13, 1924.
 6⁵/₈" show, bottom of 6⁵/₈". 5³/₁₆" shoe, bottom 5³/₁₆".
 8¹/₂" casing, 930'; 6⁵/₈", 2062'; 5³/₁₆", 2326'; all left in.
 Oil well.

?

	Top.	Bottom.	Thickness.
Sand	0	30	30
Slate	30	34	4
Coal	34	40	6
Lime	40	65	25
Slate	65	70	5
Coal	70	75	5
Lime	75	80	5
Sand	80	90	10
Slate	90	95	5
Coal	95	100	5
Lime	100	125	25
Slate	125	130	5
Coal	130	135	5
Sand	135	175	40
Slate	175	200	25
Sand	200	250	50
Lime	250	300	50
Sand	300	370	70
Slate	370	400	30
Lime	400	455	55
Coal	455	460	5
Lime	460	480	20
Coal	480	485	5
Sand	485	510	25
Slate	510	545	35
Lime	545	600	55
Slate	600	630	30
Sand	630	660	30
Slate	660	663	3
Sand	663	725	62
Coal	725	730	5
Lime	730	775	45
Coal	775	780	5
Sand	780	940	60
Slate	940	1000	60
Sand	1000	1100	100
Slate	1100	1130	30
Sand	1130	1140	10
Slate	1140	1195	55
Grampus Sand	1195	1395	200
Slate	1395	1460	65
Salt Sand (hole full water, 1510')	1460	1718	58
Slate	1718	1724	6
Lime	1724	1748	24
Slate (bad cave, 1750-1894')	1748	1894	36
Red rock	1894	1910	16
Lime	1910	1920	10
Slate (bad cave, 1920-1940')	1920	1940	20
Lime	1940	1950	10

IMPERIAL COAL CO. NO. 1412 WELL (Continued).

	Top.	Bottom.	Thickness.
Slate	1950	1980	30
Lime	1980	2000	20
Slate	2000	2040	40
Lime	2040	2063	23
Slate	2063	2070	7
Lime	2070	2080	10
Slate	2080	2100	20
Red rock	2100	2115	15
Lime	2115	2125	10
Slate	2125	2145	20
Maxton Sand	2145	2210	65
Slate	2210	2220	10
Little Lime	2220	2295	75
Pencil Gave	2295	2300	5
Big Lime	2300	2525	225
Big Injun Sand	2525	2590	65
Slate and shell	2590	2695	105
Sand	2695	2740	45
Lime	2740	2815	75
Slate	2815	2980	165
Lime	2980	2985	5
Brown shale	2985	2993	8
Berea Sand (1st oil, 3013-3020') (2nd			
- oil, 3022-3031') (slate break,			
- 3010-3012') (hard sand, 3020-			
- 3022')	2993	3033	40
Slate and shell	3033	3052	19
Total depth		3052	

Cabin Creek District, Kanawha County, W. Va.
 By United Fuel Gas Co., Charleston, W. Va.
 Drilling contractor, G. E. Doty. Map Square 72-45.
 Commenced June 14, 1924; completed Dec. 13, 1924.
 6 $\frac{3}{8}$ " show, bottom of 6 $\frac{3}{8}$ ". 5 $\frac{1}{2}$ " shoe, bottom 5 $\frac{1}{2}$ ".
 8 $\frac{1}{4}$ " casing, 930'; 6 $\frac{3}{8}$ ", 2062'; 5 $\frac{1}{2}$ ", 2326'; all left in.
 Oil well.

	Top.	Bottom.	Thickness.
Sand	0	30	30
Slate	30	34	4
Coal	34	40	6
Lime	40	65	25
Slate	65	70	5
Coal	70	75	5
Lime	75	80	5
Sand	80	90	10
Slate	90	95	5
Coal	95	100	5
Lime	100	125	25
Slate	125	130	5
Coal	130	135	5
Sand	135	175	40
Slate	175	200	25
Sand	200	250	50
Lime	250	300	50
Sand	300	370	70
Slate	370	400	30
Lime	400	455	55
Coal	455	460	5
Lime	460	480	20
Coal	480	485	5
Sand	485	510	25
Slate	510	545	35
Lime	545	600	55
Slate	600	630	30
Sand	630	660	30
Slate	660	665	5
Sand	663	725	62
Coal	725	730	5
Lime	730	775	45
Coal	775	780	5
Sand	780	940	160
Slate	940	1000	60
Sand	1000	1100	100
Slate	1100	1130	30
Sand	1130	1140	10
Slate	1140	1195	55
Grampus Sand	1195	1395	200
Slate	1395	1460	65
Salt Sand (hole full water, 1510')	1460	1718	258
Slate	1718	1724	6
Lime	1724	1748	24
Slate (bad cave, 1750-1894')	1748	1894	146
Red rock	1894	1910	16
Lime	1910	1920	10
Slate (bad cave, 1920-1940')	1920	1940	20
Lime	1940	1950	10

IMPERIAL COAL CO. NO. 1412 WELL (Continued).

	Top.	Bottom.	Thickness.
Slate	1950	- 1980	30
Lime	1980	- 2000	20
Slate	2000	- 2040	40
Lime	2040	- 2063	23
Slate	2063	- 2070	7
Lime	2070	- 2080	10
Slate	2080	- 2100	20
Red rock	2100	- 2115	15
Lime	2115	- 2125	10
Slate	2125	- 2145	20
Maxton Sand	2145	- 2210	65
Slate	2210	- 2220	10
Little Lime	2220	- 2295	75
Pencil Cave	2295	- 2300	5
Big Lime	2300	- 2525	225
Big Injun Sand	2525	- 2590	65
Slate and shell	2590	- 2695	105
Sand	2695	- 2740	45
Lime	2740	- 2815	75
Slate	2815	- 2980	165
Lime	2980	- 2985	5
Brown shale	2985	- 2993	8
Berea Sand (1st oil, 3013-3020') (2nd oil, 3022-3031') (slate break, 3010-3012') (hard sand, 3020- 3022')	2993	- 3033	40
Slate and shell	3033	- 3052	19
Total depth		3052	