

Latitude

75
005
410

374730

82 17 30

Longitude

Topo Location

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

Company UFG

Farm Cotiga Dev Co (4298)

15' Quad _____
(sec.)

7.5' Quad Naugatuck

District Harder

WELL LOCATION PLAT

County 059 Permit 11

DEEPWELL

LATITUDE 37° 56' 00"

LONGITUDE 82° 17' 30"



7'5 OGIS topo location

7.5' loc 2.85 S
0.41 W

15' loc 2.85 S
(calc.) 2.68 W

Company _____

Farm _____

Quad NAUGATUCK ^{45' SE} 7 1/2'

County Mingo

District HARDEE

WELL LOCATION MAP

File No. 059-1011

plugged 1/16/1944

Deep well-

Mingo 11

Map 1
of
Logan & Mingo Co.
Topo
W. Va. Geol. Survey
1914

UNITED FUEL GAS COMPANY

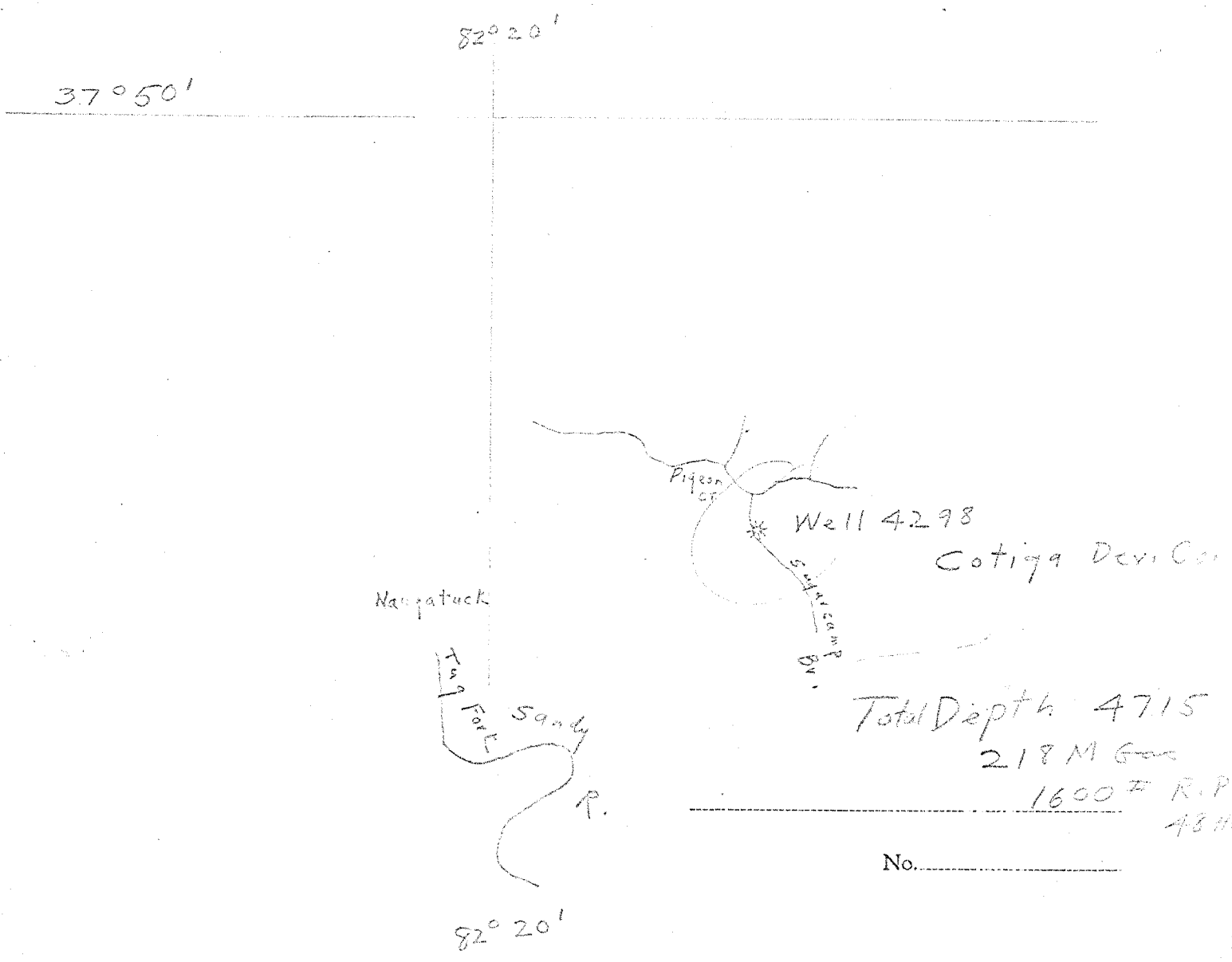
OUTSIDE-LOCATIONS

Mingo Co

Field

Location by United Fuel Gas Co., Well No. 4298
Cotiga Development Co. Farm, on waters of Sugar camp Br.
Pigeon Creek Map Square
Hardee District, Mingo County, West Virginia
Scale 1/62500 Made Comp 1-16, 1931

E. I. 700 Bar Eng. Dept



No.

MINGO - 11.

Conga Dev Co (4298)

37° 50'



S 252

W 295

82° 15'

DEEP WELL

field 243

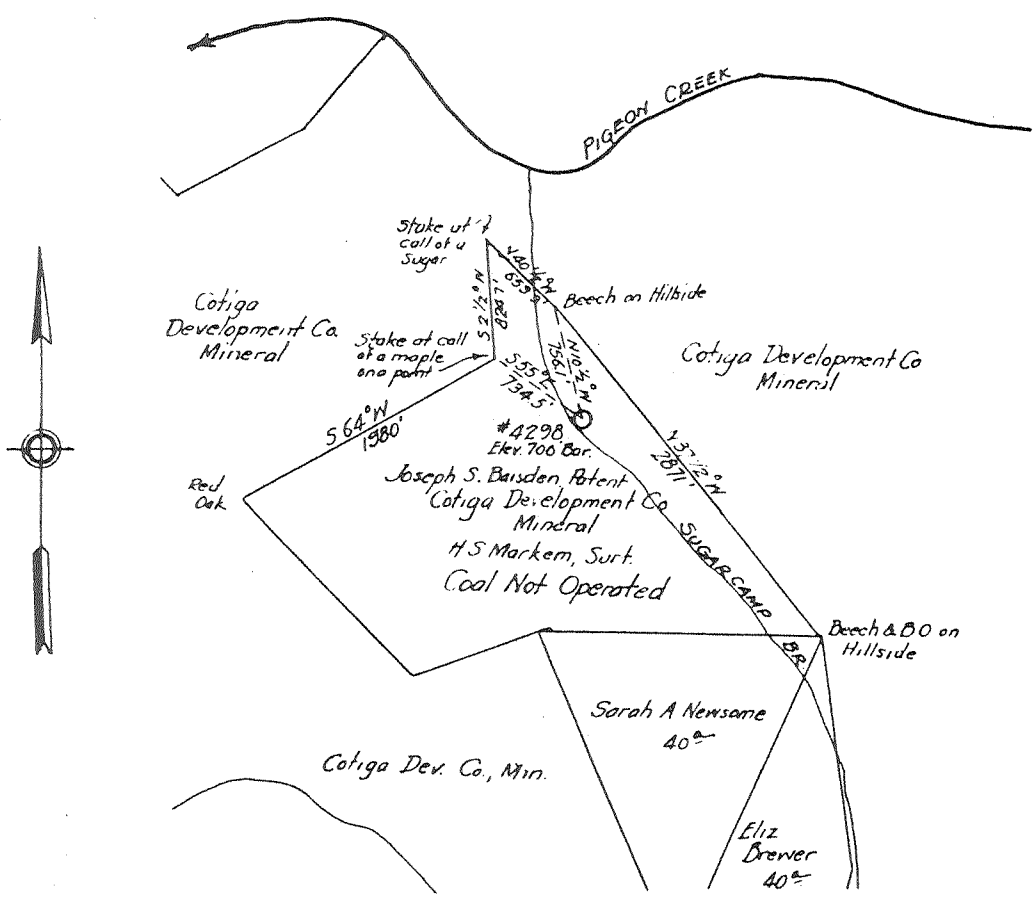
I, the undersigned hereby certify that this map is true and correct, and shows all the information required by Oil & Gas Law, Acts of 1929.

G.A. Cunningham

acknowledged before me a _____ Notary Public _____ of Kanawha County, W. Va. this 27 day of Sept 1930

My Commission expires Feb 28 '35

D. G. Day
Notary Public



Cotiga Development Co.
Well No. 4298
Hardee District
Mingo County W. Va.
Sept. 27, 1930.

Mingo-11

UNITED FUEL GAS CO.
MAP SHOWING
PROPOSED WELL LOCATION
SCALE: - 4 INCHES = 1 MILE

11-P
Mingo-11

Cotiga Development Company No. 4298 Well.

Hardee District, Mingo County, W. Va.

By United Fuel Gas Company.

Permit No. Min-11.

Elevation, 675' B.

218 M. cu. ft. gas; R. P., 1600 lbs.

Located 2.58 mi. S. of 37° 50' and 2.95 mi. W. of 82° 15—SE—Nauga-
tuck Quadrangle.

On west side of Sugarcamp Branch, 1500' above its junction with
Pigeon Creek.

2.5 mi. N. of 15° E. of Naugatuck; 0.95 mi. S. W. of Lenore.

	Top.	Bottom.	Thickness.	Elevation (top)
Big Lime -----	1594	1775	181	— 919
Big Injun Sand -----	1775	1802	27	—1100
Berea Sand -----	2350	2405	55	—1675
Corniferous Lime -----	3712	4370	86 (658)	—3037
Oriskany Sand -----	3798±	3800±	2±	—3123
Newburg Sand -----	4345±	4350	5	—3670
Clinton Sand -----	4709?	4715	6±	—4034

Thickness, Devonian Shales, 1307 feet.

Total depth, 4715'

Remarks: Completed Jan. 16, 1931.

Shot at 4345-4350'

Water, 55'. Hole full water, 1382'. Little gas in Big Lime.

1718-31' (24 M.). Gas, 3798-3800' (Oriskany).

Gas, 4345-4350' (Newburg).

Gas in lime shell at 4560-4564'.

Samples from 4170' to 4715'.

On 29,840 acres.

Deep well

Hardee District, Mingo County, W. Va.
 United Fuel Gas Co., Charleston, W. Va.
 On 34436 acres, surface owned by H. S. Marcum, Lenore, W. Va.,
 and mineral rights by Cotiga Development Co., Provident Tr.
 Bldg., 17th & Chestnut Sts., Philadelphia, Pa.
 Drilled under permit Ming-11, issued Oct. 9, 1930.
 Elevation, ~~700'~~ B. 675' 8"
 1 1/2" casing, 41'; 10", 207'; 8 1/4", 1251'; 6-5/8", 1615'.
 No coal encountered.
 Completion reported to Dept. of Mines Feb. 3, 1931. Completed 01/14/31
 Record to depth of 984' only.
 Fresh water at 55'.

	Top.	Bottom.
Surface	0	14
Quicksand	14	43
Sand, white	43	120
Slate, black	120	208
Slate, white	208	221
Slate, black	221	252
Sand, white	252	320
Slate, black	320	480
Sand, white	480	550
Slate, black	550	665
Salt Sand	665	984

(RECORD INCOMPLETE)

Located: 37° 50' 2.58' S.
 82° 15' 2.95' W.

top thickness Drilled to Newburg, but no
 Big Lick 1594 181' data on Newburg
 Big Lick 1774 27
 Berea 2350 55
 CRFR 3712 86
 ORSK 3798 2
 Newburg 4345 5 see V. 16, p. 624
 Clinton 4709 6 'Sumner's Records
 T.D. = 4715 of Deep wells' by R. Tucker
 1944.

show in Big Lick 1718-31 (24 MCF)

Gas: 3798-3800' (Oriskany)

4345-4350' (Newburg)

4560-4564' ? (Oriskany?)

Shot: 4345-4350

Gas volume = 218 MCF

RP = 1600 lbs

field:

DEEP WELL

WEST VIRGINIA DEPARTMENT OF MINES
Oil and Gas Section

PRELIMINARY DATA SHEET NO. 1

File No. Mingo 11 Well No. 4298

United Fuel Gas Co. Company, of Charleston, West Va.

on the Cotiga Development Co. Farm

containing 34438 acres. Location:

Hardee District, in Mingo County, West Virginia.

The surface of the above tract is owned in fee by H. S. Markem

of Lenore, W. Va. address, and the mineral rights are owned by

Cotiga Development Co. of Provident Tr. Bldg. 17th & Chestnut St. Phila. Pa.

The oil and gas privileges are held under lease by the above named company, and this well is drilled under

permit No. ling 11 issued by the West Virginia Department of Mines, Oil and Gas Section,

October 9, 1930

Elevation of surface at top of well, 700' ^{SPK} Barometric.

The number of feet of the different sized casings used in the well.

feet	size, csg.	feet	size, csg.	feet	size, csg.	feet	size, csg.
41	13"	207	10"				
1251	8 1/2"	1615	6 5/8"				

packer of _____ size, set at _____
packer of _____ size, set at _____

in casing perforated at _____ feet to _____ feet.

in casing perforated at _____ feet to _____ feet.

Coal was encountered at No Coal feet; thickness _____ inches, and at _____

feet; thickness _____ inches; and at _____ feet; thickness _____ inches.

Liners were used as follows: (Give details) _____

February 3, 1931 Date.

Approved United Fuel Gas Co. Owner.

By G. Cunningham Engineer
(Title)

FEB-4 1931

United Fuel Gas Co. Company

Charleston, West Va. Address

Well #4298

COMPLETION DATA SHEET

NO. 2

FORMATION RECORD

Name	Color	Character	Oil, Gas or Water	Top	Bottom	Thickness	Total Depth	Remarks
Surface				0	14			
Sand		Quick		14	43			
Sand	White			43	120			
Slate	Black			120	208			
Slate	White			208	221			
Slate	Black			221	252			
Sand	White			252	320			
Slate	Black			320	480			
Sand	White			480	550			
Slate	Black			550	665			
Sand		Salt		665	684			

Well was not shot at feet; well was shot at feet.

Fresh water at 55 feet; fresh water at salt feet.

Well was producing hole.
dry

February 3, 1931
Date

Approved

United Fuel Gas Co.
Owner

NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

PRELIMINARY DATA SHEET NO. 1

Mingo 11

MIN-11

File No. _____ Well No. 4298

UNITED FUEL GAS Company of Charleston, W. Va.,

on the Cotiga Development Co., Farm

containing 29,840 acres. Location _____

Hardee District, in Mingo County, West Virginia

The surface of the above tract is owned in fee by _____

of _____ address, and the mineral rights are owned by

Cotiga Development Company of _____

The oil and gas privileges are held under lease by the above named company, and this well is drilled under permit

No. Mingo-11 issued by the West Virginia Department of Mines, Oil and Gas Division

October 9th 1936

Elevation of surface at top of well, 675' Surface Barometric

The number of feet of the different sized casings used in the well.

_____ feet _____ size. Wood conductor.

41' feet 1 1/2" size, csg. _____ feet _____ sized csg.

207' feet 10" size, csg. _____ feet _____ sized csg.

1251' feet 8-1/4" size, csg. _____ feet _____ sized csg.

1615' feet 6-5/8" size, csg. _____ feet _____ sized csg.

3854' 4" packer of _____ size, set at _____

Hook Wall packer of 4"x6-5/8"x16" size, set at _____

_____, in casing perforated at _____ feet to _____ feet.

_____, in casing perforated at _____ feet to _____ feet.

Coal was encountered at No Coal feet, thickness _____ inches, and at _____

feet; thickness _____ inches; and at _____ feet; thickness _____ inches.

Liners were used as follows: (Give details) _____

August 13, 1936. Date.

Date.

Approved UNITED FUEL GAS COMPANY Owner.

By G. A. Cunningham (TITLE) Chief Engineer



MIN-11
 UNITED FUEL GAS Company

Charleston, W. Va., Address

Well No. 4298

Mingo 14
 COMPLETION DATA SHEET

No. 2

FORMATION RECORD

Name	Color	Character	Oil, Gas or Water	Top	Bottom	Thickness	Total Depth	Remarks
Surface				0	14	14		
Quick Sand			Water 55'	14	48	29		
Sand				48	120	77		
Black Slate				120	208	88		
White Slate				208	221	13		
Black Slate				221	252	31		
White Sand				252	320	68		
Black Slate				320	480	160		
White Sand				480	550	70		
Black Slate				550	665	115		
Salt Sand				665	984	319		
Black Slate			984	1050	46			
White Sand			1050	1102	72			
Black Slate			1102	1108	6			
Lime			1108	1120	12			
White Sand			1120	1184	64			
Black Slate			1184	1210	26			
White Lime			1210	1216	6			
Red Rock			1216	1226	10			
White Lime			1226	1256	10			
Red Rock			1256	1305	49			
White Lime			1305	1352	47			
White Sand			Water 1352'	1352	1426	74		
Black Slate				1426	1450	4		
Red Rock				1450	1458	8		
White Lime				1458	1470	32		
Black Slate				1470	1476	6		
Black Lime				1476	1519	43		
Black Slate				1519	1554	15		
Black Lime				1554	1590	36		
Black Slate				1590	1594	4		
White Lime				Gas 1718'- 1721'	1594	1775	181	
Big Injun Sd.			1775		1802	27		
White Lime			1802		1900	98		
White Slate			1900		1970	70		
White Sand			1970		1990	20		
White Slate			1990		2020	30		
White Lime			2020		2041	21		
White Slate			2041		2325	284		
Brown Shale			2325		2550	225		
Berea Sand			2550		2405	85		
Brown Shale			2405	2450	25			
Black Lime			2450	2465	15			
White Slate			2465	2725	260			

(Continued)

shot
 Well was not shot at feet; well was shot at feet.

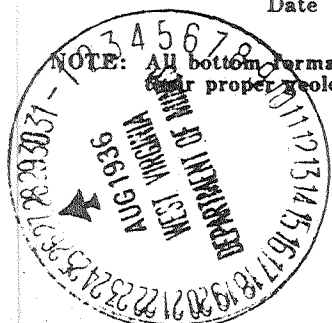
Salt
 Fresh water at salt
 feet; fresh water at feet.

producing
 Well was hole.
 dry

Date

Approved

Owner



NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under proper geological names in the district as well as any local names commonly used in the district for such strata.

UNITED FUEL GAS Company

Charleston, W. Va. Address

COMPLETION DATA SHEET
No. 2
FORMATION RECORD

Well No. 4298 (Continued)

Name	Color	Character	Oil, Gas or Water	Top	Bottom	Thickness	Total Depth	Remarks
White Sand				2725	2733	8		
White Slate				2733	3130	397		
Brown Shale				3130	3333	203		
White Slate				3333	3574	241		
Brown Shale				3574	3712	138		
Corniferous Lime				3712	4370	658		
Gas				3798	3800	2		
Slate & Shells				4345	4350	5		
Red Rock				4370	4390	20		
Green Slate				4390	4403	13		
Lime Shell				4403	4558	155		
Gas				4558	4569	10		
Black Slate				4560	4564	4		
Red Rock				4568	4595	27		
Lime				4595	4630	35		
Slate				4630	4636	6		
Sand				4636	4648	12		
Slate				4648	4669	21		
Lime				4669	4698	29		
Slate				4698	4714	16		
				4714	4715	1		
Total Depth							4715	

3712
1003
siph

Well was shot at ^{shot} ~~not~~ 4545' to 4550' feet; well was shot at _____ feet.

Fresh water at 55' feet; ^{salt} ~~fresh~~ water at 1382' feet.

Well was producing hole. 218,112 cu. ft.

August 13, 1936.

Date

Approved

UNITED FUEL GAS COMPANY

Owner

NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.

