

LATITUDE 38° 52' 30"

LONGITUDE 81° 52' 30"



7'5 OGIS topo location

7.5' loc 2.355 15' loc _____
 1.38 W (calc.) _____

Company _____

Farm _____

Quad MONT ALTO 7/2'

County MASON

District COLOGNE

WELL LOCATION MAP

File No. 053-0003

DEEP WELL

Mar 13

**Plan of Proposed Location
Of Well No. 1
Federal Fuel Corpⁿ of West Va.
On Gilbert Thornton 159^a Farm
Cologne Dist. Mason Co. - W. Va.
Scale - 50 poles = 1 inch**

Solid lines show extra lines of 159^a.

I, the undersigned, hereby certify that this map is correct and shows all the information to the best of my knowledge and belief required by the Oil and Gas Section of the Mining Laws of West Virginia.

W. G. Gerlach

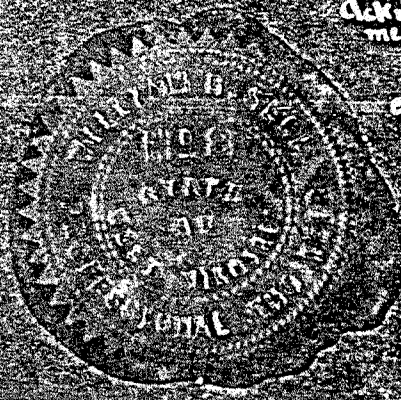
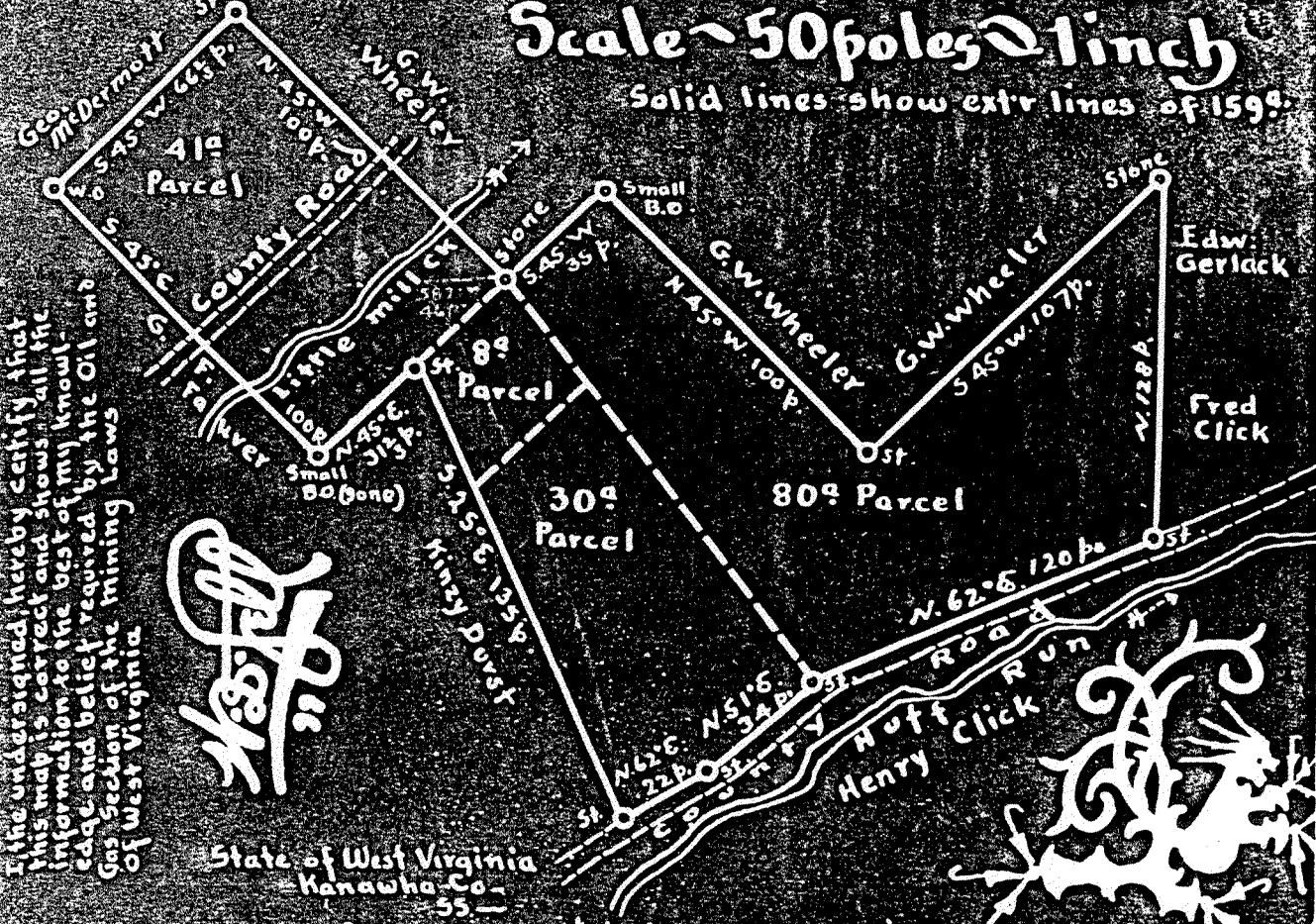
State of West Virginia
Kanawha Co.
55

Acknowledged before
me, a Notary Public
June 18, 1938
My commission
Expires Apr. 23, 1939

R. J. Walsh

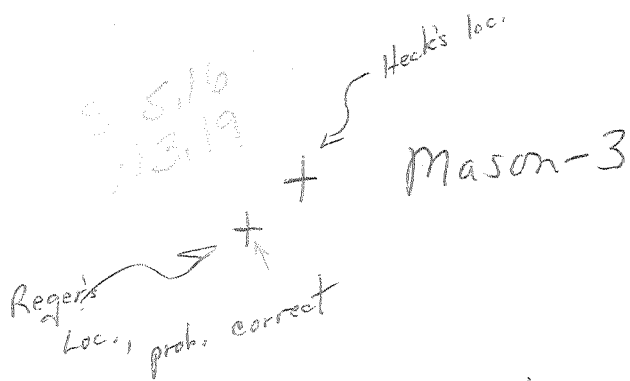
Mason 3
300618

Mag. Mev. in the
Acad. to
Thornton
Var. 251
T. West



81° 50'

38° 55'



Ravenswood - C

OGIS W-10 - 2.25 South 30° 50' 30" E 200 1/2'

1.38 west 81° 50' 30" 2.60 W 81° 30'



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle _____

WELL RECORD

Permit No. W-3

Oil or Gas Well Gas
(KIND)

Company Columbian Carbon Company
Address Box 873, Charleston 23, W. Va.
Farm G.T. Thornton Acres 159
Location (waters) _____
Well No. 1- GW-703 Elev. 634'
District Cologe County Mason
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____

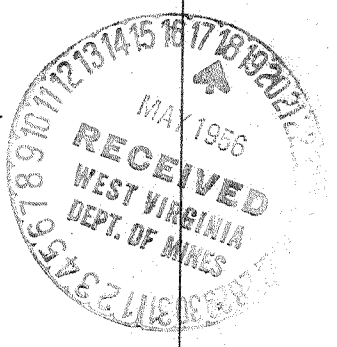
Drilling commenced 6-20-30
Drilling completed 9-22-30
Date Shot From 3076' To 4006'
With 6500# Galatin
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 350,000 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 10' 640' feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer <u>Comb.</u>
13	<u>127' 3"</u>	<u>110' 5"</u>	<u>M.S.A.</u>
10	<u>691' 5"</u>	<u>507' 7"</u>	Size of <u>3x 6-5/8"</u>
8 1/4	<u>133' 11"</u>	<u>pulled</u>	Depth set <u>2060'</u>
6 3/4	<u>2081' 4"</u>	<u>2081' 4"</u>	
5 3/16			
3	<u>3073' 10"</u>	<u>3073' 10"</u>	Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	10			
Lime-fresh water			10	20			
Red Rock			20	30			
Blue Slate			30	35			
Lime			35	55			
Blue Slate			55	75			
Red Rock			75	85			
Blue Slate			85	95			
Red Rock			95	110			
Blue Slate			110	130			
Red Rock			130	150			
Blue Slate			150	170			
Red Rock			170	205			
Blue Slate			205	250			
Red Rock			250	260			
Black Slate			260	300			
Blue Slate			300	350			
Red Rock			350	440			
Slate			440	460			
Red Rock			460	530			
Blue Slate			530	555			
Red Rock			555	625			
Blue Slate			625	640			
Sand- salt water			640	655			
Slate			655	665			
Sand			665	685			
Slate			685	690			
Sand			690	715			
Red Rock			715	765			
Slate			765	820			
Sand			820	925			
Slate			925	1010			
Lime			1010	1020			
Sand			1020	1110			
Lime			1110	1115			
Sand			1115	1145			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1145	1220			
Sand			1220	1250			
Slate			1250	1270			
Lime			1270	1280			
Sand			1280	1300			
Slate			1300	1320			
Lime			1320	1355			
Sand			1355	1420			
Big Lime			1420	1530			
Injum Sand			1530	1550			
Lime			1550	1560			
Slate			1560	1660			
Sand			1660	1740			
Slate			1740	1745			
Sand & Lime			1745	1860			
Slate			1860	2010			
Slate & Shells			2010	2019			
Coffee Slate			2019	2030			
Berea			2030	2059			
Slate			2059	3041	gas	3041'	
Light Shale			3041	3145			
Dark Shale			3145	3240			
Light Shale			3240	3284			
Dark Shale			3284	3292			
Light Shale			3292	3356			
Dark Shale			3356	3532			
Light Shale & Slate			3532	3636	4003		
Dark Shale & Light Shale			3636	3730	634		
Dark Shale & Slate			3730	3850	<u>3369</u>		
Dark Shale			3850	4003			
Corniferous Lime			4003	4006			
			TOTAL DEPTH	4006'			

Date _____, 19____

APPROVED _____, Owner

By _____ (Title)