

Company COLUMBIAN CARBON Co.

Address BOX 873 CHARLESTON, W.VA.

Farm JOE WILLIAMS ETAL
PART OF 300 AC

Tract _____ Acres 150 Lease No. WU-184

Well (Farm) No. 1 Serial No. GW-1388

Elevation (Spirit Level) 598.54

Quadrangle WINFIELD-NC S 378 W 276

County MASON District UNION

Engineer R. B. Anderson

Engineer's Registration No. 2704

File No. _____ Drawing No. W-32-62

Date 4 SEPT. 1962 Scale 1" = 400'

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

WELL LOCATION MAP
FILE NO. MAS-74-REVISED

+ Denotes location of well on United States Topographic Maps, scale 1 to 62500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

unnamed

Sample 0 to 4432' 1-0 (0) DEEP WELL



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION / 0

Quadrangle Winfield SW

Permit No. Mas-74

WELL RECORD

Oil or Gas Well Dry Hole
(KIND)

Company Columbian Fuel Corporation
Address P. O. Box 873, Charleston 23, W. Va.
Farm Joe Williams, et al Acres 300
Location (waters) Mudlick Creek
Well No. 1 - GW-1388 Elev. 598.54'
District Union County Mason
The surface of tract is owned in fee by Joe Williams, et al
Address Arbuckle, W. Va.
Mineral rights are owned by Joe Williams, et al
(for further add. contact Col. Fuel Corp)
Address _____
Drilling commenced 9-27-62
Drilling completed 1-16-63
Date Shot 1-17-63 From 2,960' To T. D.
With 10,600# (159 shells) 4" Atlas Gelatin
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume show _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED not acidized

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			M. B. H.
13 3/8" 48#	32'7"	pulled	Size of <u>8-5/8"</u>
10 3/4" 32#	641'4"	pulled	Depth set <u>1612'DLM</u>
8 1/4" 24#	1625'6"	68'8"	
7" 23#	2300'4"	718'5"	
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
See reverse side

COAL WAS ENCOUNTERED AT none FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

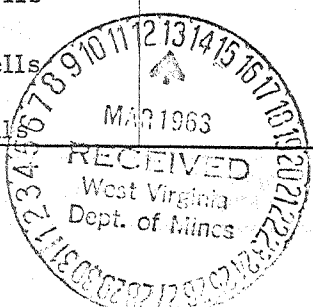
WELL FRACTURED see reverse side

RESULT AFTER TREATMENT dry hole-gas drowned out

ROCK PRESSURE AFTER TREATMENT

Fresh Water 50-55' 70' Feet Salt Water 790' 1055' 1786- 1802' Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil			0	10			
Red Rock and Shells			10	40			
Lime			40	67	F. water	50-55'	3-1/2-13"blr/hr
Red Rock			67	77	F. water	70'	hole full
Slate			77	130			
Red Rock			130	155			
Slate and Shells			155	190			
Red Rock			190	206			
Slate and Shells			206	300			
Red Rock			300	310			
Slate and Shells			310	375			
Red Rock			375	424			
Slate and Shells			424	476			
Red Rock			476	526			
Slate and Shells			526	582			
Red Rock			582	634			
Slate and Shells			634	715			
Red Rock			715	738			
Slate and Shells			738	774			
Sand			774	812	S. water	790'	4-8" blr/hr.
Slate and Shells			812	831			
Sand			831	846			
Slate and Shells			846	863			
Sand			863	879			
Slate and Shells			879	970			
Sand			970	1116	S. water	1055'	hole full
Slate and Shells			1116	1145			



(over)

Formation	Color	Hard or Soft	Top /0	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1145	1194			
Slate and Shells			1194	1338			
Gritty Lime			1338	1401			
Slate and Shells			1401	1435			
Sand			1435	1553			
Big Lime			1553	1719			400M
Sand			1719	1746	Gas	1746-54'	90/10 W. 2"=
Slate and Shells			1746	1786	S. water	1786-1802'	hole full
Sand			1786	1913			
Slate and Shells			1913	2190			
Shale			2190	2209			
Berea Sand			2209	2236			
Slate and Shells			2236	3403			
Shale			3403	3831			
Slate and Shells			3831	4191			
Shale			4191	4314			
Lime			4314	4460	Gas	4406-10'	show
Total depth-----				4460'			
Samples show:							
Corniferous Lime			4314	4403		4314	
Oriskany Sand			4403	4410		599	
Helderburg Lime			4410	4460		3715	
<u>SHOT 1-17-63</u>							
Show gas 4406-10' in Oriskany. Ran 10,600# (159 Shells) of 4" Atlas Gelatin. Top of shot 2,960' - set off with jack - well cleaned self.							
1-22-63 Bridged hole at 2,350' - Filled back to 2,285'. Perforated 7" at 1,968' with 6 jets. Cemented off water. Recemented to 1774' - then perforated from 1,753' to 1,756' with 4 shots / foot. Show gas after perforating - in 9 hours increased to 33 MCF.							
<u>FRACTURED BIG INJUN 2-5-63</u>							
Before fracturing gas gauged 33 MCF. Pumped 1,000 gallons MCA into perforations at 1300# until displaced. Broke down at 2,000#. Maximum injection pressure 2,200#. Used 22,000# sand, 22,100 gallons water and sand, 1160 gallons flush - total fluid 28,540 gallons. Average injection rate 19 bpm - 10 minutes after shut down 1,500#. Opened - flowed - died - swabbed. Salt water drowned out gas. Plugged and abandoned 3-4-63.							
<u>CASING RECORD</u>							
10-6-62	Ran 10-3/4" casing at 634'DLM=636'SLM on shoe - set in 20' red mud.						
10-30-62	Ran 8-5/8" casing with Midget bottom hole packer at 1612'DLM-set in 25' red mud.						
11-19-62	Ran 7" casing with shoe at 2275'SLM. R/L Nipple at 1,573'. Mixed 200 bbls. mud, 16 sacks Aquagel, 4 sacks Hydraton, 1 sack Hi Viscosity Celex, 75 bags Baroid. Cemented with 75 sacks cement - pumped plug to 2246' - Pulled 7" above 1,573' - liner left in from 1573' to 2275'						

Date March 12, 19 63

APPROVED Columbian Fuel Corporation, Owner

By W. S. Moore, Div. Sup't
(Title)