Form 5

STATE OF MARYLAND

DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES

The Johns Hopkins University **BALTIMORE 18, MARYLAND**

WELL COMPLETION REPORT

This report must be submitted within 30 days after completion of the well

WELL DESCRIPTION					Permit Number Four (1)
State the kind of forma depth, their thickness,		CASING AND SCREEN RECORD State the kind and size of casing, liner, shoe, screen, and other accessories (if no casing used, give diameter of well)			Name of Owner Columbian Garbon Co
CW-1512, L. D. Shaff Ctarted drilling 7-1 Completed drip. 10-1 Elev. 2086.36 G Garrett Lounty, Mary Log of Well Soil Lime Slate & Shells Lime Slate & Shells Brown Shale Tulley Lime Slate & Shells Brown Shale Lime Brown Shale Lime Brown broak Lime	h-54 5-51 fromto	10-3/h" D.P. Ran at 39 DIM 8-5/8" 2h# casi Hen with H.B.B packer at 50h' 7" 23# casing ran with 7" sh float in 7" ca when 33 jts. w sacks Acuagel circulation or down on bottom then they had froze on botto drilled out. P cleaned out ho cement on bott	Am't rum 39'4" Am't rum 40'4" Am't r	gas d 325 set culated e. Pipe was 38' and sacks ack lown	PUMPING TEST Hours Pumped
has been book a	ho71 - 4077 ho85 ho85s11- 1160 1160 - 1261 1208 - 1351 71 1351 1504 10/10 - 2º 3271	F. water F.w.ter	7' hole full		Capacity Gallons per Minute
h217-17 6 Before retrofereing 79/10 a. 2" 353 52 Final sen flow although 15/10 ft. h" 2,1'84	na compud r . trafracia. .37	die for Petrofrac	ing record		Well Was Completed Date 10-20-51 Well Driller 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,

2.62

Patrofracing Record

10-20-54 - Pumped 27 bbls. into formation and broke down one time. First started pumping at 1800%. Broke down to 1200% and then built up to 1700% with two trucks. Pumped in 500 gallons und acid and displaced to bottom. Galled 2000 gallons of crude oil mixed with 4,000% sand. Pumped in at 2600% pressure maximum. Displaced it with a proximately 20 bbls. crude oil. Ran 150 gallons Fixafrac - pumped to bottom and could not tell any difference in pumping pressure. Mixed 2,000 gal. crude oil - added 4,000% sand to it and pumped in. Started pumping at 2,600% and built up to 1300% when finished pumping gel. Displaced to bottom. Flushed with another 30 bbls. crude oil. Shut in at 1100% pressure.

Before Petrofracing was gauged 70/10 d. 20 353 MCN - 66 hour pressure 1410/...

Final open flow after Petrofracing 12/10 M. 4" 2,144MCF - 24 hour pressure 1400%.