FLUID SAMPLE DATA

Sampler Pressure _____ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas _____
cc. Oil _____
cc. Water _____
cc. Mud _____
Tot. Liquid cc. _____
Gravity _____ ° API @ _____ °F.
Gas/Oil Ratio _____ cu. ft./bbl.

	RESISTIVITY		CHLORIDE CONTENT
Recovery Water	____ @ ____ °F.		____ ppm
Recovery Mud	____ @ ____ °F.		
Recovery Mud Filtrate	____ @ ____ °F.		____ ppm
Mud Pit Sample	____ @ ____ °F.		
Mud Pit Sample Filtrate	____ @ ____ °F.		____ ppm
Mud Weight	9.0	vis 45	cp

Date 7-10-71 Ticket Number 288440
Kind of Job STRADDLE OPEN HOLE Halliburton District HAYS
Tester MR. HUGHES Witness MR. RICHARDSON
Drilling Contractor GABBERT AND JONES INCORPORATED DR

EQUIPMENT & HOLE DATA

Formation Tested Lower Kansas City
Elevation 1741' KB Ft.
Net Productive Interval - Ft.
All Depths Measured From Kelly Bushing
Total Depth 3280' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length - I.D. -
Drill Pipe Length 2992' I.D. 3.826"
Packer Depth(s) 3010'-3050' Ft.
Depth Tester Valve 2997' Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve Surface Choke 1/4" Bottom Choke 3/4"

Recovered 5 Feet of mud
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks Opened tool for 15 minute first flow with a very weak blow for 12 minutes. Closed tool for 30 minute first closed in pressure. Reopened tool for 60 minute second flow with no blow. Closed tool for 30 minute second closed in pressure.

TEMPERATURE	Gauge No. 738		Gauge No. 272		Gauge No.		TIME	
	Depth: 3000 Ft.		Depth: 3276 Ft.		Depth: Ft.			
	12 Hour Clock		12 Hour Clock		Hour Clock		Tool ~~A.M.~~	
Est. °F.	Blanked Off No		Blanked Off Yes		Blanked Off		Opened 9:00 P.M.	
3045' Actual 103 °F.	Pressures		Pressures		Pressures		Tool ~~A.M.~~ Closed 11:15 P.M.	
	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	1471	1439		1568				
First Period Flow Initial	8	9					—	—
First Period Flow Final	18	9					15	
First Period Closed in	54	30					30	
Second Period Flow Initial	18	13	HYDROSTATIC				—	—
Second Period Flow Final	18	13	RELEASE:	1149			60	
Second Period Closed in	27	13					30	
Third Period Flow Initial							—	—
Third Period Flow Final								
Third Period Closed in								
Final Hydrostatic	1453	1430		1556			—	—

Legal Location Sec. - Twp. - Rng. 18-7S-16W
Lease Name MELTON
Well No. 1
Test No. 1
Tested Interval 3010'-3050'
Field Area WILDCAT
County ROOKS
State KANSAS
Lease Owner/Company Name MARK RICHARDSON

PRINTED IN U.S.A.

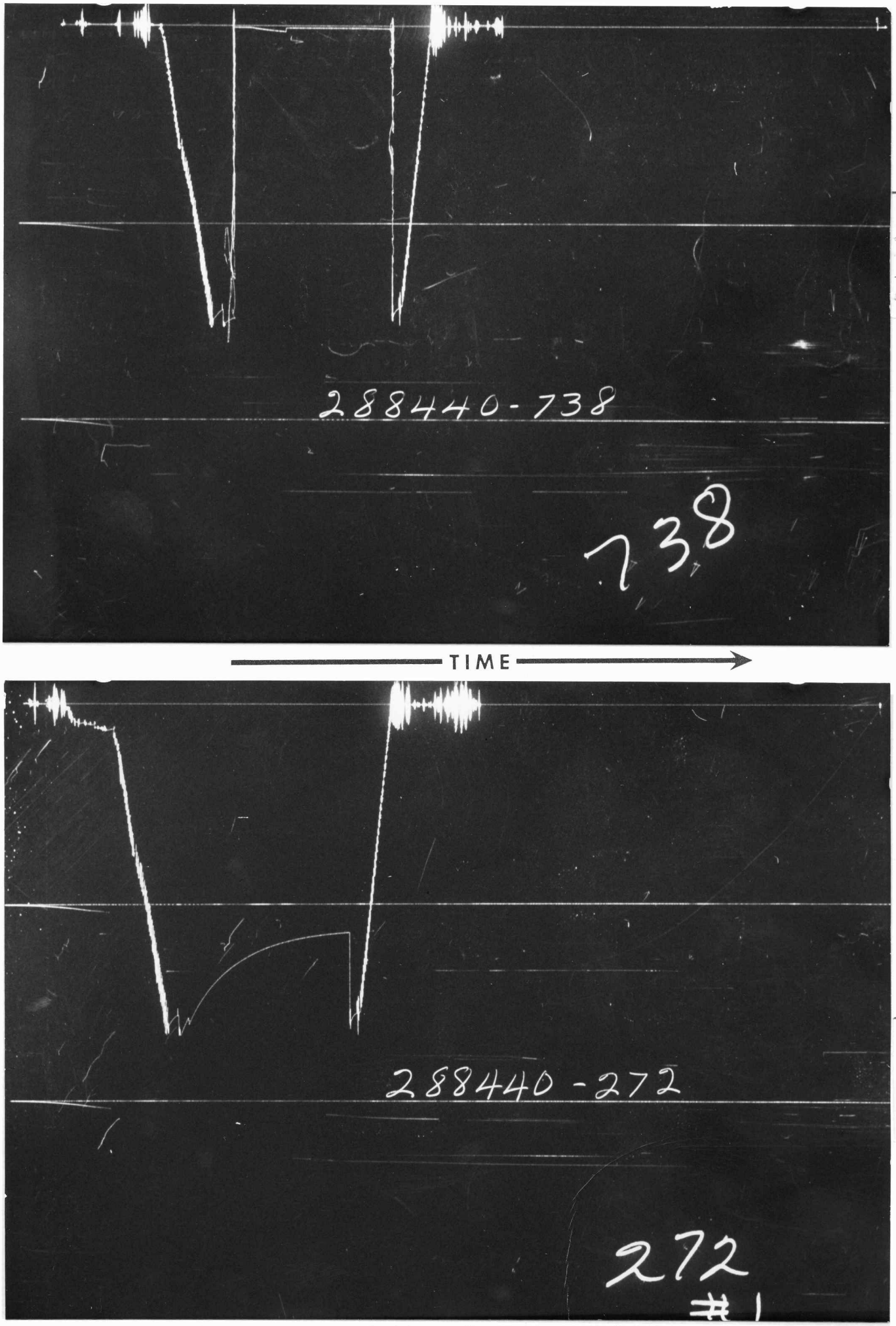
FORMATION TEST DATA

LITTLE'S

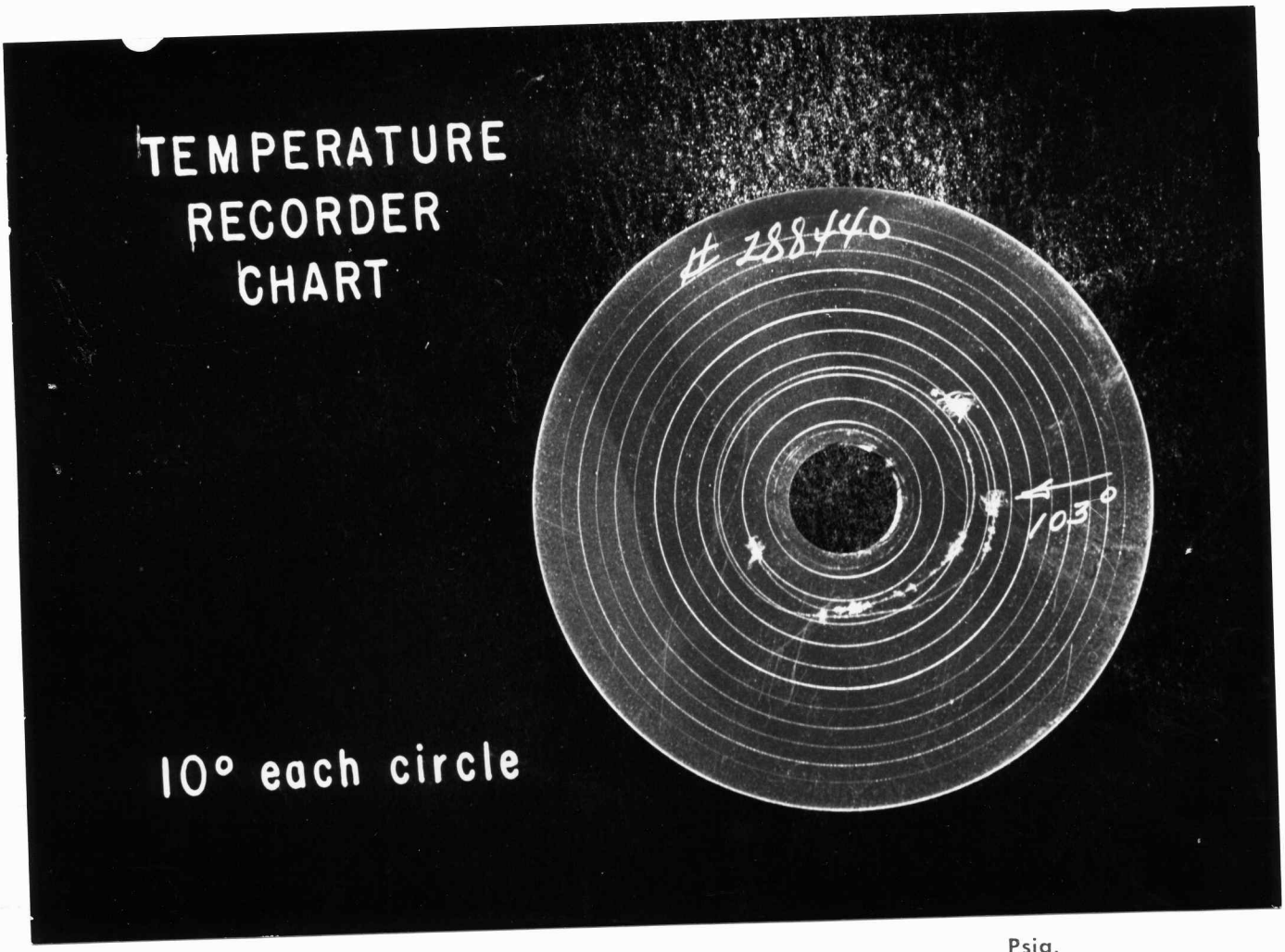
5

288440

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5"		1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	2992'	
Drill Collars				
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	3/4"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5'	2997'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.76"	4'	3000'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	5'	3010'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2.76"	8'	
Pressure Equalizing Tube	4½"	3.82"	29'	
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	6 3/4"	1.53"	5'	3050'
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6"	2.25"	112'	
DP	4½"	3.82"	93'	
Flush Joint Anchor	5"	2.76"	16'	
Blanked-Off B.T. Running Case	5"	2.76"	4'	3276'



Each Horizontal Line Equal to 1000 p.s.i.



P_F	= Final Flow Pressure	Psig.
P_{ot}	= Potentiometric Surface (Fresh Water*)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q_1	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	——
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.