

FLUID SAMPLER DATA				Date 9-22-71		Ticket Number 381201	
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.				Kind of Job OPEN HOLE		Halliburton District HAYS	
				Tester WAHLMEIER		Witness MC NEISH	
				Drilling Contractor HELLAR DRILLING COMPANY		NM	
EQUIPMENT & HOLE DATA							
				Formation Tested Pawnee			
				Elevation 2468'		K.B. _____ Ft.	
				Net Productive Interval -		_____ Ft.	
				All Depths Measured From Kelly Bushing			
				Total Depth 4344'		_____ Ft.	
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length WP 596'		I.D. 2.764"	
				Drill Pipe Length 3627'		I.D. 3.826"	
				Packer Depth(s) 4239' - 4244'		_____ Ft.	
				Depth Tester Valve 4227'		_____ Ft.	
Recovery Water _____ @ _____ ° F. _____ ppm		RESISTIVITY _____		CHLORIDE CONTENT _____			
Recovery Mud _____ @ _____ ° F. _____ ppm							
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm							
Mud Pit Sample _____ @ _____ ° F. _____ ppm							
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm							
Mud Weight 10.3 vis 43 cp							
Cushion TYPE NONE AMOUNT _____		Depth Back Pres. Valve NONE		Surface Choke 1/4"		Bottom Choke 3/4"	
Recovered 30' Feet of mud						Med. From Tester Valve	
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Remarks : Tool opened with a very weak blow for a 10 minute first flow. Ro- tated tool for a 30 minute first closed in pressure. Tool reopened for a 30 minute second flow with a blow which bubbled 2 minutes and died. Took a 30 minute second closed in pressure.							
TEMPERATURE		Gauge No. 738 Depth: 4246' Ft.		Gauge No. 272 Depth: 4341' Ft.		Gauge No. _____ Depth: _____ Ft.	
Est. _____ ° F.		12 Hour Clock		12 Hour Clock		TIME	
Blanked Off NO		Blanked Off YES		Blanked Off		Tool ~~XXXX~~ Opened 2120 P.M.	
4339' @		Pressures		Pressures		Tool ~~XXXX~~ Closed 2300 P.M.	
Actual 110° F.		Field Office		Field Office		Reported Computed	
		Initial Hydrostatic - 2345 2435 2397				Minutes Minutes	
First Period	Flow Initial -	21 75 74					
	Flow Final -	22 78 76					
	Closed in -	78 125 131				10 30	
Second Period	Flow Initial -	30 78 83					
	Flow Final -	24 80 77				30	
	Closed in -	43 95 94				30	
Third Period	Flow Initial -						
	Flow Final -						
	Closed in -						
Final Hydrostatic -		2320 2376 2363					

 Legal Location
 Sec. - Twp. - Rng.

19 - 17 - 23

Lease Name

Well No.

Test No.

Field Area

NESS CITY

County

NESS

State

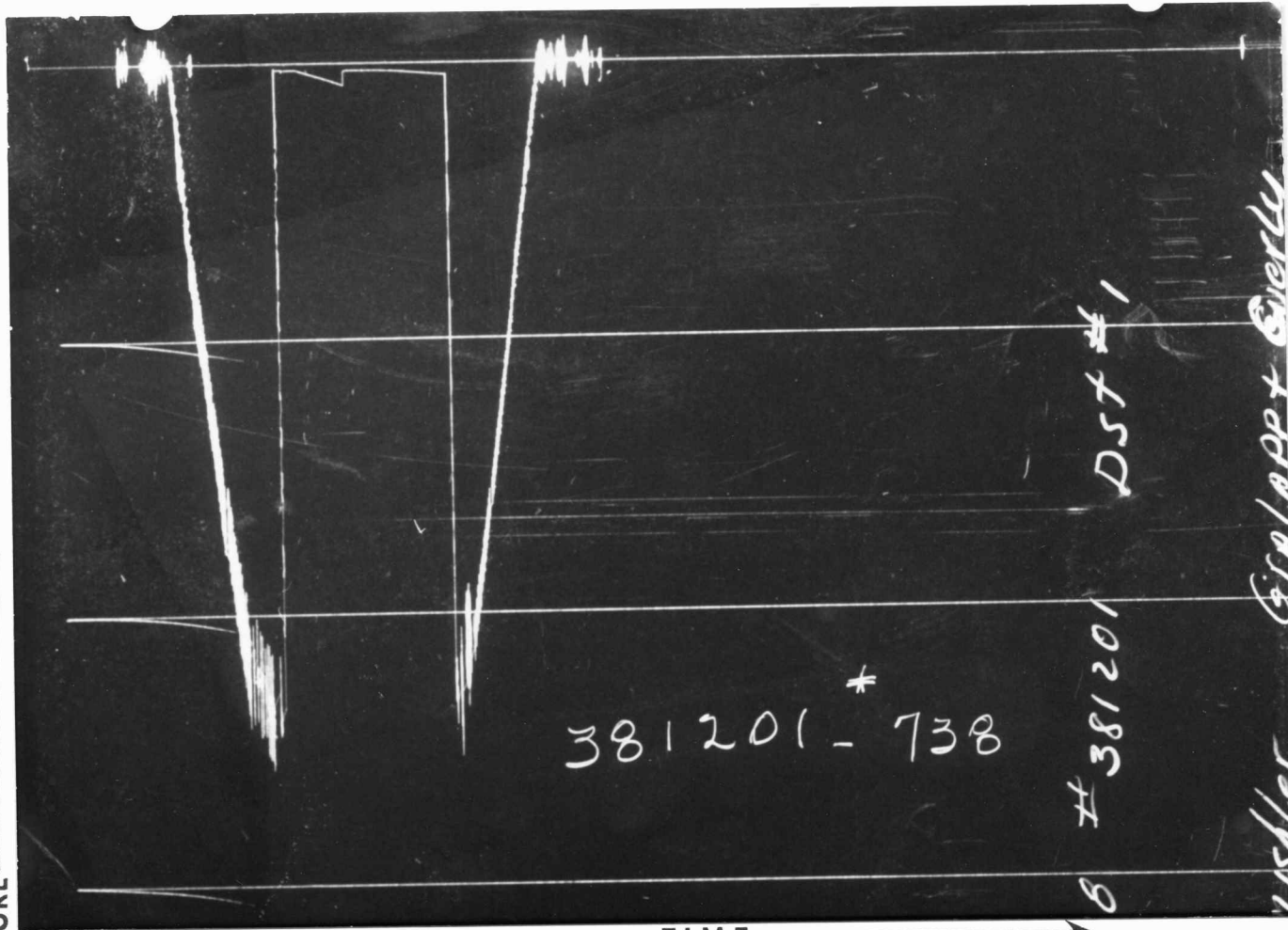
KANSAS

 4244 - 4244
 Tested Interval

 Lessee Owner/Company Name
 STATE OF KANSAS

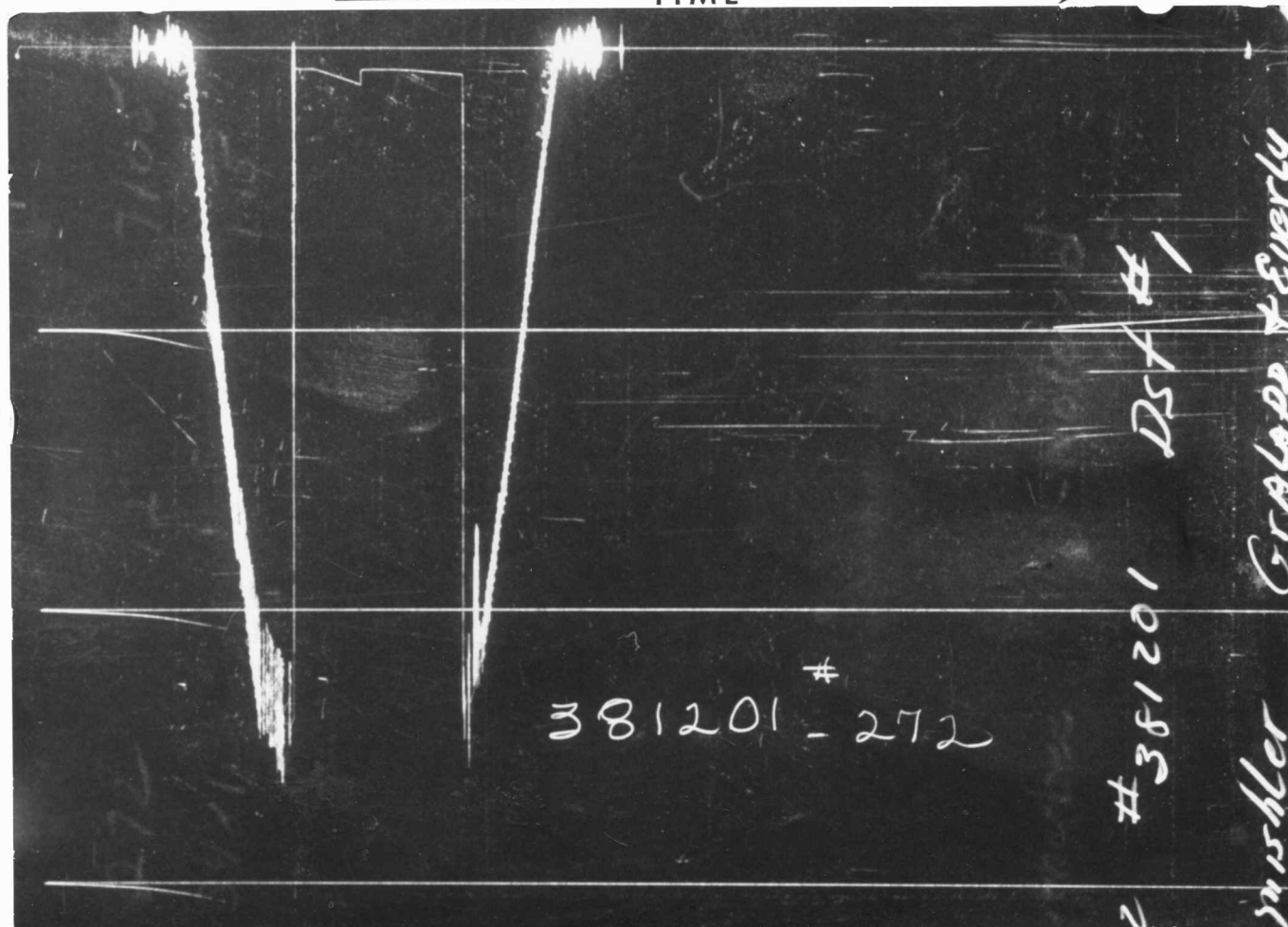
	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3627'	
Drill Collars WEIGHT PIPE	4 1/2"	2.764"	596'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4227'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4246'
Hydraulic Jar	5"	1.00"	3'	
VR Safety Joint	5"	1.00"	2'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	5'	4239'
Distributor				
Packer Assembly	6 3/4"	1.53"	5'	4244'
WEIGHT PIPE	4 1/2"	2.76"	62'	
Flush Joint Anchor	5"	3.84"	30'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.44"	4'	4341'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				

— PRESSURE —



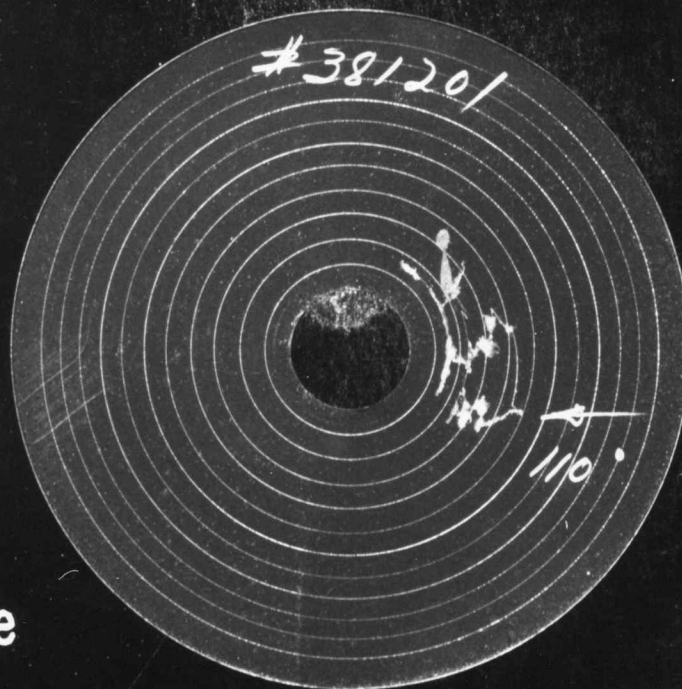
— TIME —

8



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

TEMPERATURE RECORDER CHART



10° each circle

OF_3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF_4	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_F	= Final Flow Pressure	Psig.
P_{or}	= 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.