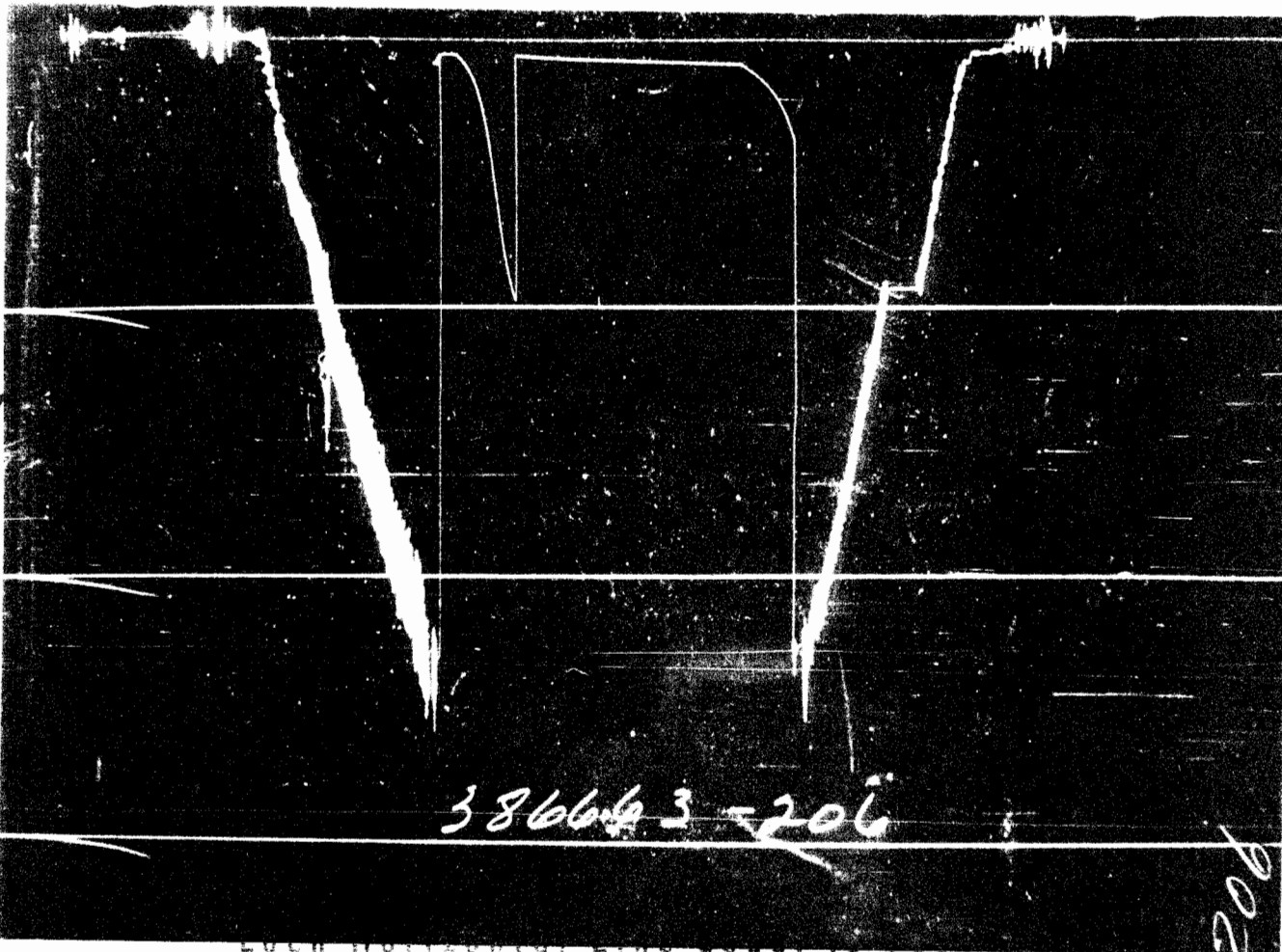




PRESSURE

TIME



Flow Time	1st Min. 5	2nd Min. 60	Date	12-4-64	Ticket Number	386661 S	Legal Location Sec. - Twp. - Rng. 21 14 28
Closed In Press. Time	1st Min. 30	2nd Min. 30	Kind of Job	OPEN HOLE	Halliburton District	HILL CITY	
Pressure Readings	Field	Office Corrected	Tester	H. JOSLIN	Witness	LEE CORNELL	
Depth Top Gauge	3951 Ft.	Blanked No Off	Drilling Contractor	LEBAN DRLG. CO.		JM	
BT. P.R.D. No.	375	12 Hour Clock	Elevation	2586' DF	Top Packer	3966'	
Initial Hydro Mud Pressure		2061	Total Depth	3995'	Bottom Packer	3971'	
Initial Closed in Pres.		12 39	Interval Tested	3971-3995'	Formation Tested	Kansas City	
Initial Flow Pres.		1 16 2 30	Casing or Hole Size	7 7/8"	Casing Perfs. } Top Bot.		
Final Flow Pres.		1 17 2 66	Surface Choke	3/4"	Bottom Choke	3/4"	
Final Closed in Pres.		1127	Size & Kind Drill Pipe	4 1/2" PH	Drill Collars Above Tester	I.D. - LENGTH 2.76-1050'	
Final Hydro Mud Pressure		2042	Mud Weight	9.7	Mud Viscosity	45	
Depth Cen. Gauge		Blanked Off	Temperature	109	Anchor Size & Length	ID 2.76 OD 5" X 24'	
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Derrick Floor	Depth of Tester Valve	3946' Ft.	
Initial Hydro Mud Pres.			Cushion	TYPE none	AMOUNT	Depth Back Pres. Valve Ft.	
Initial Closed in Pres.			Recovered	90	Feet of Muddy saltwater	Mea. From Tester Valve	
Initial Flow Pres.		1	Recovered		Feet of		
Final Flow Pres.		1	Recovered		Feet of		
Final Closed in Pres.		2	Recovered		Feet of		
Final Hydro Mud Pres.			Oil A.P.I. Gravity		Water Spec. Gravity		
Depth Bot. Gauge	3990 Ft.	Blanked Yes Off	Gas Gravity		Surface Pressure	psi	
BT. P.R.D. No.	206	12 Hour Clock	Tool Opened	9:45 p.m.	A.M. P.M.	Tool Closed	11:50 p.m. A.M.
Initial Hydro Mud Pres.	2099	2068	Remarks	Tool opened with a weak blow for a 5 minute			
Initial Closed in Pres.	1237	1250		first flow. Rotated tool for a 30 minute initial			
Initial Flow Pres.	29	1 30 2 45		closed in pressure. Reopened tool with a weak			
Final Flow Pres.	79	1 30 2 80		blow for a 60 minute second flow. Took a 30 min.			
Final Closed in Pres.	1128	1138		final closed in pressure.			
Final Hydro Mud Pres.	2079	2036					

COBERTY

1

1

WALTER DUNLAP JR.

21-14-28

KANSAS

FORMATION TEST DATA

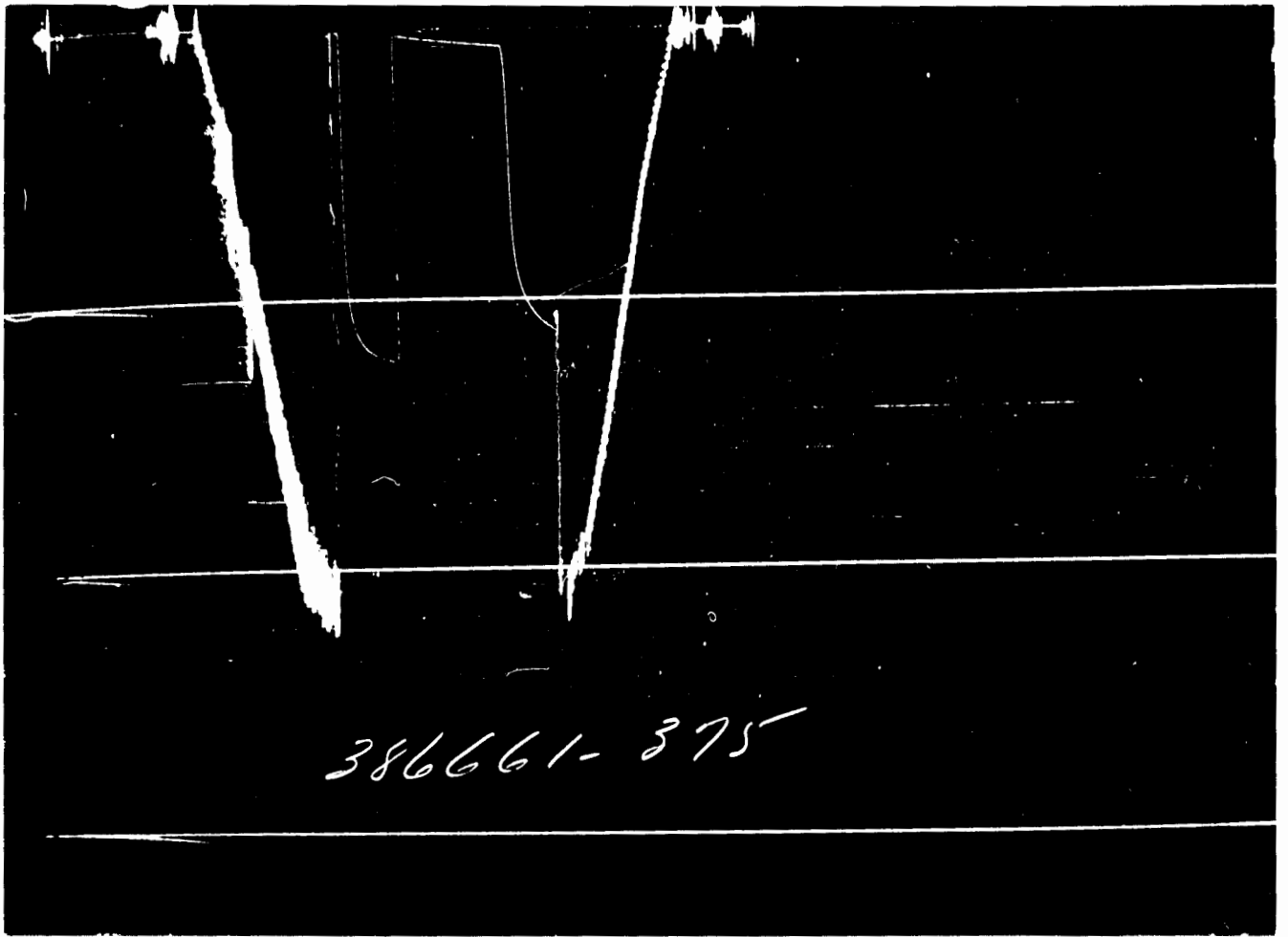
Gauge No. 375		Depth 3951		Clock 12 hour		Ticket No. 386661				
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\phi}{\phi}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\phi}{\phi}$	PSIG Temp. Corr.	
P ₀	.000	16	.000		17	.0 00	30	.000		66
P ₁	.029	17	.0217		892	.103	39	.0205		320
P ₂			.0434		1086	.206	49	.0410		791
P ₃			.0651		1147	.309	58	.0615		927
P ₄			.0868		1179	.412	66	.0820		991
P ₅			.1085		1200			.1025		1033
P ₆			.1302		1213			.1230		1062
P ₇			.1519		1222			.1435		1084
P ₈			.1736		1230			.1640		1101
P ₉			.1953		1235			.1845		1113
P ₁₀			.2170		1239			.2050		1127

Gauge No. 206		Depth 3990		Clock 12 hour						
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\phi}{\phi}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.				
P ₀	.000	30	.000		30	.000	45	.000		80
P ₁	.031	30	.0208		993	.1055	52	.0203		356
P ₂			.0416		1117	.2110	63	.0406		844
P ₃			.0624		1167	.3165	72	.0609		958
P ₄			.0832		1196	.4220	80	.0812		1013
P ₅			.1040		1212			.1015		1049
P ₆			.1248		1224			.1218		1078
P ₇			.1456		1233			.1421		1098
P ₈			.1664		1240			.1624		1114
P ₉			.1872		1246			.1827		1125
P ₁₀			.2080		1250			.2030		1138
Reading Interval		3			15		3		Minutes	

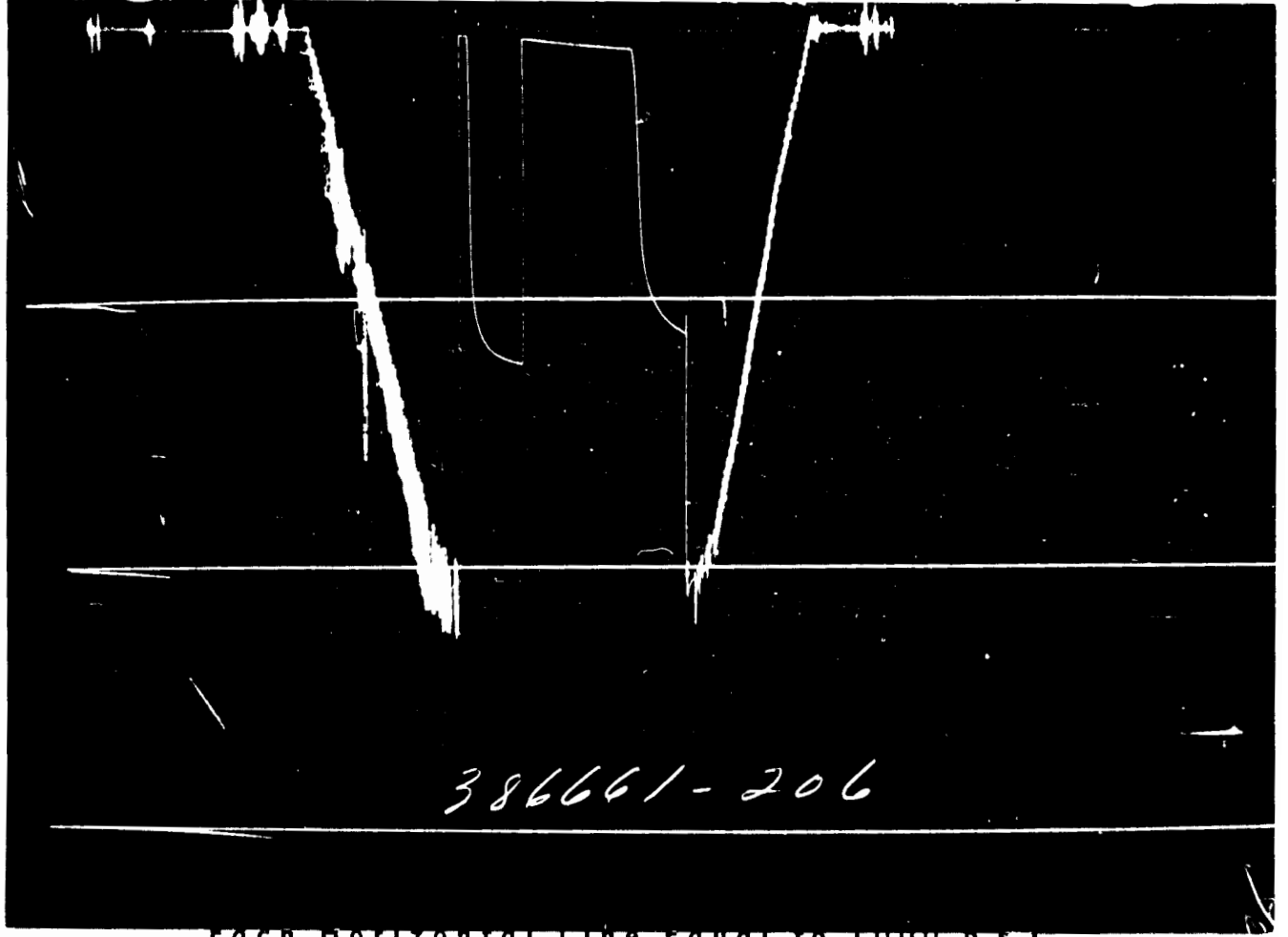
REMARKS:

SPECIAL PRESSURE DATA

↑
PRESSURE
↓



← TIME →



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

Flow Time	1st Min.	2nd Min.	Date	Ticket Number	Legal Location
3	60	12-6-64	386662 S	Sec. - Twp. - Rng.	
Closed In Press. Time	1st Min.	2nd Min.	Kind of Job	Halliburton District	Well No.
30	30	OPEN HOLE	HILL CITY	1	
Pressure Readings	Field	Office Corrected	Tester	Witness	Lease Name
			H. JOSLIN	LEE CORNELL	COBERLY
Depth Top Gauge	Ft.	Blanked Off	Drilling Contractor	IC	Lease Name
4130	no	LEBEN DRILLING COMPANY		IC	COBERLY
BT. P.R.D. No.		Hour Clock	Elevation	Top Packer	Well No.
375	12	2586' DF	4141'		1
Initial Hydro Mud Pressure			Total Depth	Bottom Packer	Well No.
	2167	4160'	4146'		2
Initial Closed in Pres.			Interval Tested	Formation Tested	Well No.
	1189	4146' - 4160' (7')	Pawnee		28
Initial Flow Pres.			Casing or Hole Size	Casing Perfs. } Top Bot.	Field Area
	1 457	7 7/8"			14
	2 588				28
Final Flow Pres.			Surface Choke	Bottom Choke	Field Area
	1 580	3/4"	3/4"		1
	2 1181				2
Final Closed in Pres.			Size & Kind Drill Pipe	Drill Collars Above Tester	Field Area
	*	4 1/2" FH	I.D. - LENGTH	2.76" - 1050'	2
Final Hydro Mud Pressure			Mud Weight	Mud Viscosity	Field Area
	2157	9.6	48		2
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	Anchor Size & Length	Field Area
			111	ID 2.76" X OD 5" 14'	1
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Depth of Tester Valve	Field Area
			Derrick Floor	4125 Ft.	2
Initial Hydro Mud Pres.			Cushion	Depth Back Pres. Valve	Field Area
			none	none	1
Initial Closed in Pres.			Recovered	Feet of salt water.	Field Area
	1	2620			14
Initial Flow Pres.			Recovered	Feet of	Field Area
	2				28
Final Flow Pres.			Recovered	Feet of	Field Area
	1				1
	2				2
Final Closed in Pres.			Recovered	Feet of	Field Area
					1
Final Hydro Mud Pres.			Oil A.P.I. Gravity	Water Spec. Gravity	Field Area
					2
Depth Bot. Gauge	Ft.	Blanked Off	Gas Gravity	Surface Pressure	Field Area
4155	yes			psi	1
BT. P.R.D. No.		Hour Clock	Tool Opened	Tool Closed	Field Area
206	12	10:32 P.M.	A.M. P.M.	12:35 A.M. P.M.	1
Initial Hydro Mud Pres.			Remarks		Field Area
2219	2182		Tool opened for a 3 minute first flow. Closed		14
Initial Closed in Pres.					Field Area
1187	1199		tool for a 30 minute initial closed in pressure.		28
Initial Flow Pres.					Field Area
723	1 472		Reopened tool for a 60 minute second flow with a		1
	2 748		strong blow for 30 minutes, decreasing to weak 30		2
Final Flow Pres.					Field Area
1158	1 707		minutes. Closed tool for a 30 minute final closed		1
	2 1193		in pressure. * INCLUDED IN SECOND FLOW		2
Final Closed in Pres.					Field Area
1177	*				1
Final Hydro Mud Pres.					Field Area
2219	2169				2

FORMATION TEST DATA

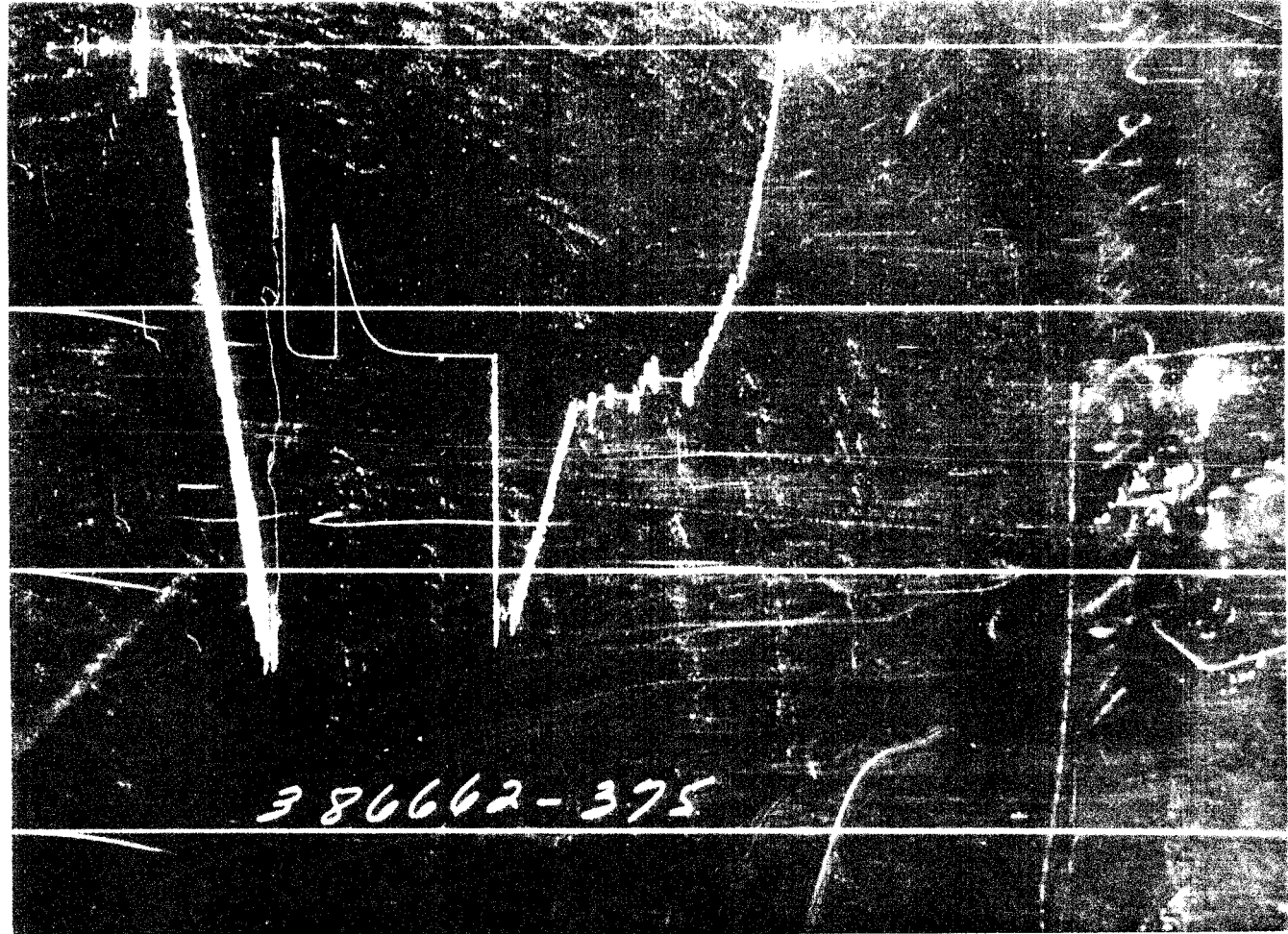
5

COBERLY
 Lease Name
 Well No. 1
 Test No. 2
 WALTER DUNLAP JR.
 Lease Owner/Company Name
 WILDCAT
 County
 GOVE
 State
 KANSAS
 Owner's District

Gauge No.		375		Depth		4130'		Clock		12 hour		Ticket No.		386662	
First Flow Period			Initial Closed In Pressure			Second Flow Period			Final Closed In Pressure						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.					
P ₀	.000	457	.000		580*	.000	588								
P ₁	.021	580*	.0211		1140	.1063	1052	INCLUDED IN SECOND							
P ₂			.0422		1166	.2126	1158	FLOW							
P ₃			.0633		1176	.3189	1174								
P ₄			.0844		1182	.4252	1178								
P ₅			.1055		1184	.5315	1181								
P ₆			.1266		1186	.6380	1181								
P ₇			.1477		1188										
P ₈			.1688		1188										
P ₉			.1899		1188										
P ₁₀			.2110		1189										
Gauge No.		206		Depth		4155'		Clock		12 hour					
P ₀	.000	472	.000		707	.000	748								
P ₁	.020	707	.0207		1066	.1068	1071	INCLUDED IN SECOND							
P ₂			.0414		1083	.2136	1072	FLOW							
P ₃			.0621		1190	.3204	1086								
P ₄			.0828		1194	.4272	1189								
P ₅			.1035		1196	.5340	1192								
P ₆			.1242		1197	.6410	1193								
P ₇			.1449		1198										
P ₈			.1656		1198										
P ₉			.1863		1199										
P ₁₀			.2070		1199										
Reading Interval			3			15			Minutes						
REMARKS:			* Questionable												

SPECIAL PRESSURE DATA

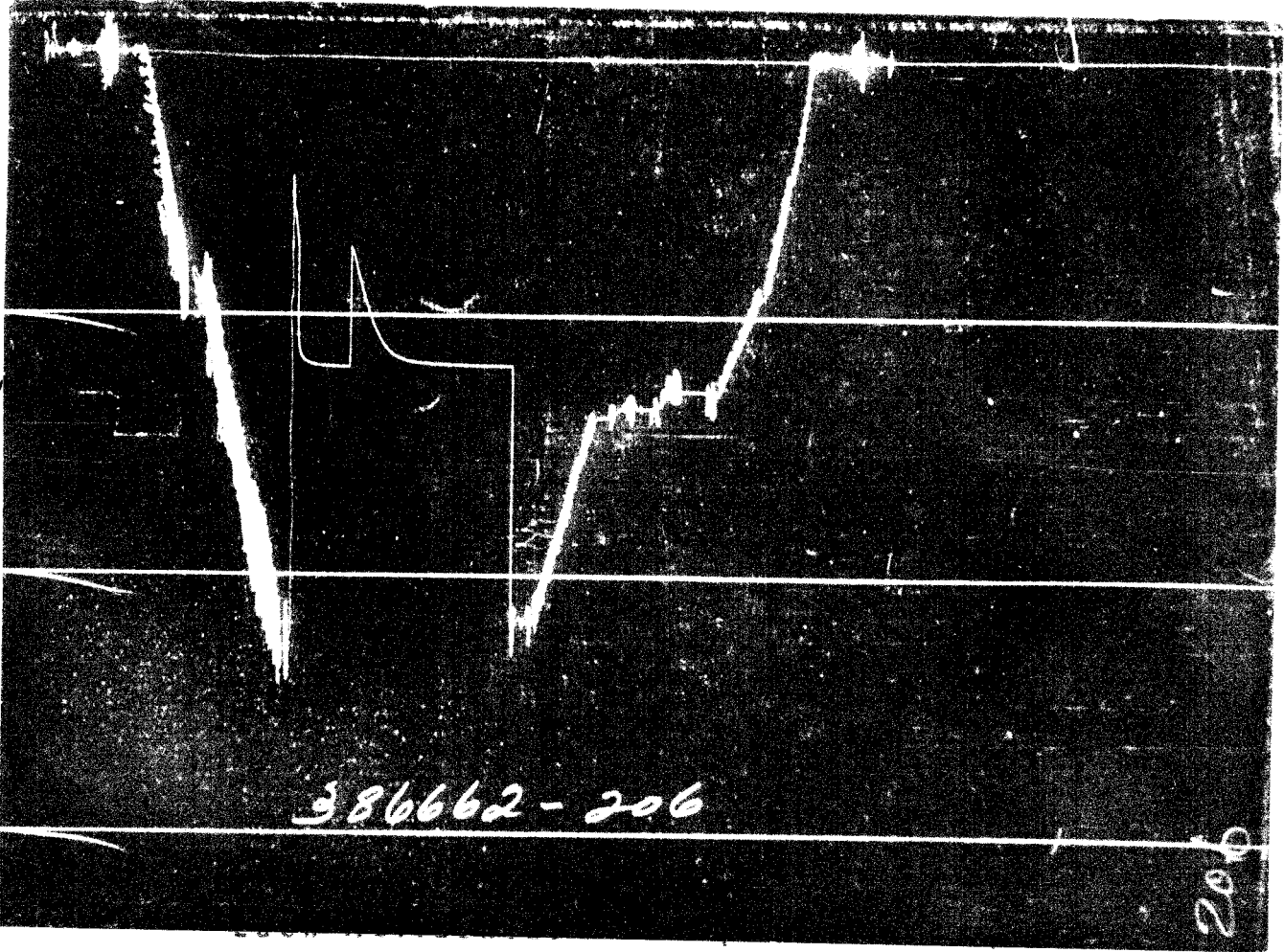
↑
PRESSURE
↓



386662-375

← TIME →

↑
PRESSURE
↓



386662-206

206

Flow Time	1st 10	Min.	2nd 120	Min.	Date	12-6-64	Ticket Number	386663	S	Legal Location Sec. - Twp. - Rng. 21 14 28	Lease Name COBERLY								
Closed In Press. Time	1st 30	Min.	2nd 30	Min.	Kind of Job	OPEN HOLE	Halliburton District	HILL CITY				Well No. 1	Test No. 3						
Pressure Readings	Field		Office Corrected		Tester	H. JOSLIN	Witness	LEE CORNELL						Field Area WILDCAT	Lease Owner/Company Name WALTER DUNLAP, JR.				
Depth Top Gauge	4175	Ft.	no	Blanked Off	Drilling Contractor	LEBEN DRILLING COMPANY	IC									County GOVE	Owner's District KANSAS		
BT. P.R.D. No.	375		12	Hour Clock	Elevation	2586' DF	Top Packer	4190'											
Initial Hydro Mud Pressure			2224		Total Depth	4280'	Bottom Packer	4195'											
Initial Closed in Pres.			937		Interval Tested	4195' - 4280'	Formation Tested	Fort Scott											
Initial Flow Pres.			1 16		Casing or Hole Size	7 7/8"	Casing Perfs.	Top											
			2 22					Bot.											
Final Flow Pres.			1 19		Surface Choke	3/4"	Bottom Choke	3/4"											
Final Closed in Pres.			333		Size & Kind Drill Pipe	4 1/2" FH	Drill Collars Above Tester	I.D. - LENGTH 2.76" - 990'											
Final Hydro Mud Pressure			2204		Mud Weight	9.6	Mud Viscosity	47											
Depth Cen. Gauge		Ft.		Blanked Off	Temperature	112 °F Est. 129 °F Actual	Anchor Size & Length	ID 2.76" OD 5" X	85°										
BT. P.R.D. No.				Hour Clock	Depths Mea. From	Derrick Floor	Depth of Tester Valve	4170	Ft.										
Initial Hydro Mud Pres.					TYPE AMOUNT		Depth Back Pres. Valve	none	Ft.										
Initial Closed in Pres.					Cushion	none	Depth Back Pres. Valve	none	Ft.										
Initial Flow Pres.			1		Recovered	90	Feet of mud.				Mea. From Tester Valve								
Final Flow Pres.			2		Recovered		Feet of												
Final Closed in Pres.			1		Recovered		Feet of												
Final Hydro Mud Pres.			2		Recovered		Feet of												
Oil A.P.I. Gravity					Oil A.P.I. Gravity		Water Spec. Gravity												
Gas Gravity					Gas Gravity		Surface Pressure		psi										
Depth Bot. Gauge	4275	Ft.	yes	Blanked Off	Tool Opened	7:05 P.M.	A.M. P.M.	Tool Closed	10:15 P.M.	A.M. P.M.									
BT. P.R.D. No.	206		12	Hour Clock	Remarks	Tool opened for a 10 minute first flow. Closed													
Initial Hydro Mud Pres.	2278		2274			tool for a 30 minute initial closed in pressure.													
Initial Closed in Pres.	960		975			Reopened tool for a 120 minute second flow with a													
Initial Flow Pres.	-		1 80			weak blow lasting throughout test. Closed tool													
Final Flow Pres.	59		2 74			for a 30 minute final closed in pressure.													
Final Closed in Pres.	-		1 68																
Final Hydro Mud Pres.	99		2 99																
Final Closed in Pres.	367		380																
Final Hydro Mud Pres.	2278		2251																

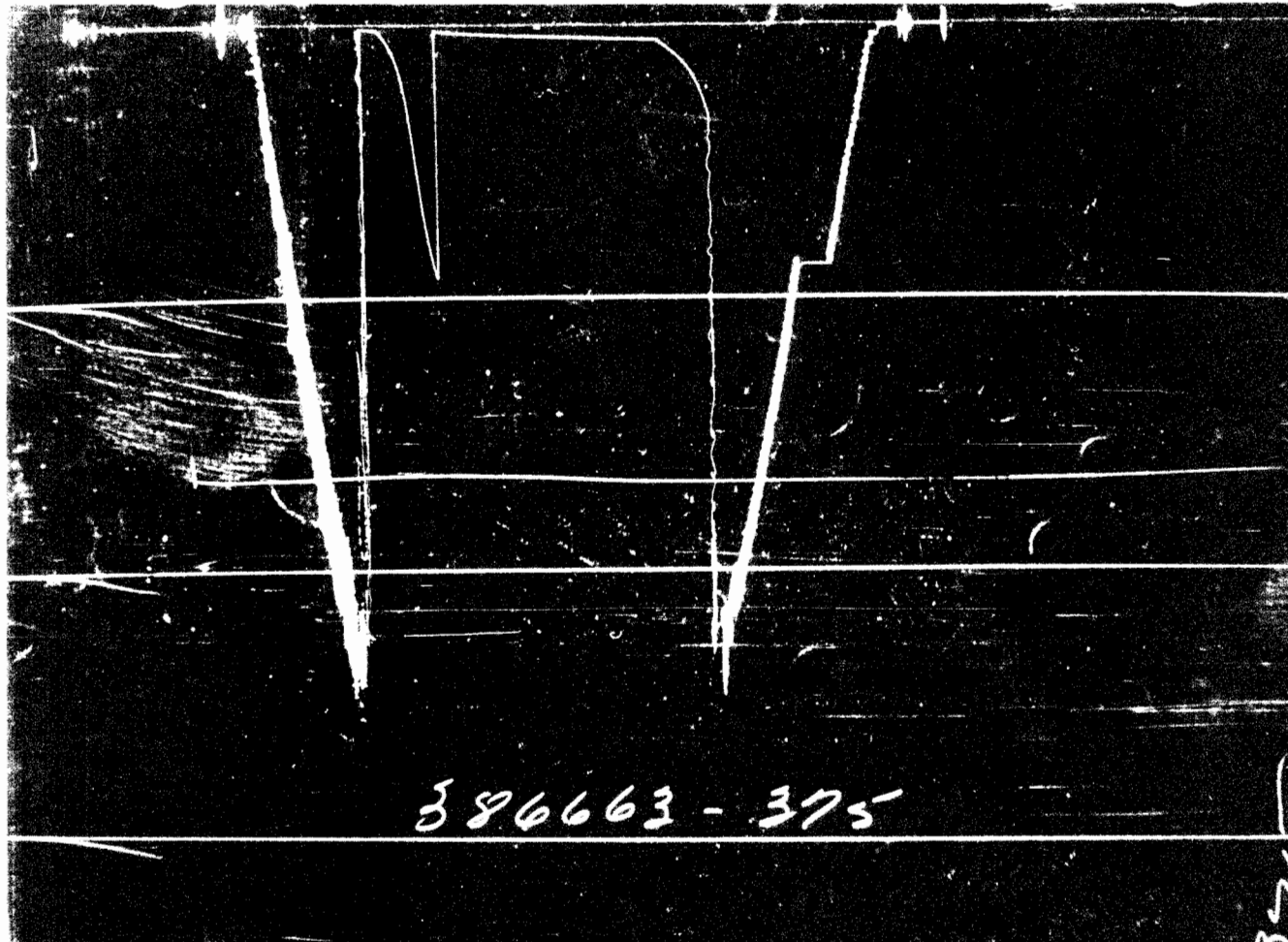
FORMATION TEST DATA

5

Gauge No. 375		Depth 4175'		Clock 12 hour		Ticket No. 386663				
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P ₀	.000	16	.000		19	.000	22	.000		54
P ₁	.061	19	.234		937	.840	54	.200		333
P ₂										
P ₃										
P ₄										
P ₅										
P ₆										
P ₇										
P ₈										
P ₉										
P ₁₀										

Gauge No. 206		Depth 4275'		Clock 12 hour						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P ₀	.000	70	.000		68	.000	74	.000		99
P ₁	.063	68	.228		975	.860	99	.205		380
P ₂										
P ₃										
P ₄										
P ₅										
P ₆										
P ₇										
P ₈										
P ₉										
P ₁₀										
Reading Interval										Minutes
REMARKS:										

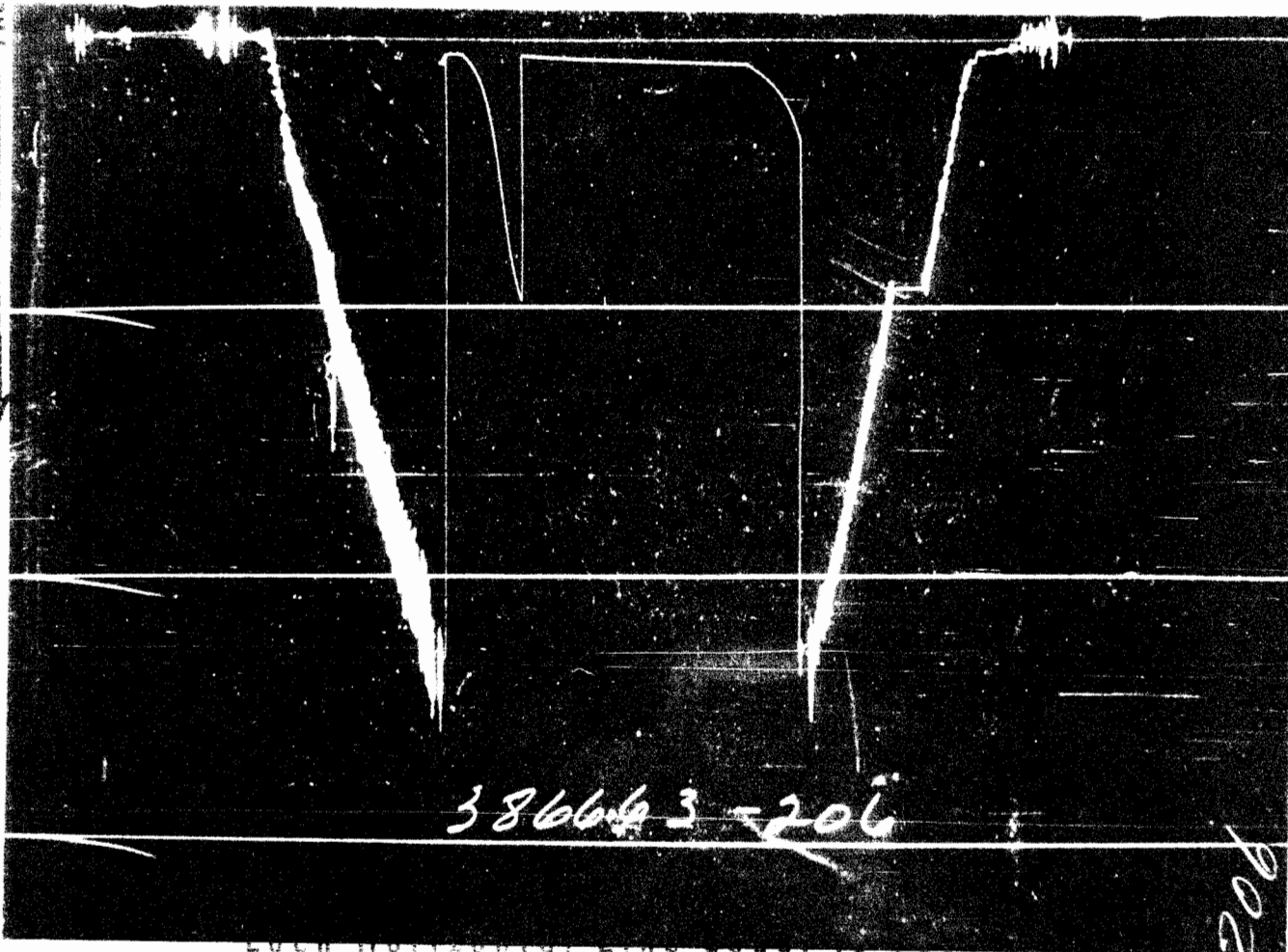
SPECIAL PRESSURE DATA



386663-375

PRESSURE

TIME



386663-206

206