

PAULSON

82

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CITIES SERVICE OIL COMPANY

KANSAS

Dec. 2-26

Lease Name

Well No.

Test No.

Lease Owner/Company Name

Owner's District

Legal Location 1320' FROM NL 1320' FROM EL 2 - 265' + 11'

Flow Time	1st 10 Min.	2nd 30 Min.	Date	9-28-63	Ticket Number	330732 - S
Closed In Press. Time	1st 30 Min.	2nd 30 Min.	Kind of Job	OPEN HOLE	Halliburton District	WINFIELD
Pressure Readings	Field	Office Corrected	Tester	REYNOLDS	Witness	HIPPS HECK
Depth Top Gauge	2378' Ft.	NO Blanked Off	Drilling Contractor	H.U. MARTIN DRILLING COMPANY, INC.		
BT. P.R.D. No.	528	12 Hour Clock	Elevation	1380' D.F.	Top Packer	-
Initial Hydro Mud Pressure		1258	Total Depth	2387'	Bottom Packer	2376'
Initial Closed in Pres.		815	Interval Tested	2376' - 2387'	Formation Tested	ARBUCKLE
Initial Flow Pres.	1 9	2 28	Casing or Hole Size	7 7/8"	Casing Perfs. { Top - Bot. -	
Final Flow Pres.	1 21	2 27	Surface Choke	1 1/4"	Bottom Choke	5/8"
Final Closed in Pres.		776	Size & Kind Drill Pipe	4 1/2" F.H.	Drill Collars Above Tester	I.D. - LENGTH 2 1/4" x 88'
Final Hydro Mud Pressure		1233	Mud Weight	9.9	Mud Viscosity	38
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	100 °F Est. °F Actual	Anchor Size & Length	ID 2 3/8" OD 4 1/2" x 11'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHING	Depth of Tester Valve	2372' Ft.
Initial Hydro Mud Pres.			TYPE AMOUNT	Cushion	NONE	Depth Back Pres. Valve 2367' Ft.
Initial Closed in Pres.			Recovered	15' Feet of	drilling mud	Mea. From Tester Valve
Initial Flow Pres.	1		Recovered	3' Feet of	free oil	
Final Flow Pres.	1		Recovered	Feet of		
Final Closed in Pres.			Recovered	Feet of		
Final Hydro Mud Pres.			Oil A.P.I. Gravity	-	Water Spec. Gravity	-
Depth Bot. Gauge	2382' Ft.	YES Blanked Off	Gas Gravity	-	Surface Pressure	0# psi
BT. P.R.D. No.	684	12 Hour Clock	Tool Opened	12:02 PM A.M. 12:42 PM P.M.	Tool Closed	12:12 PM A.M. 1:12 PM P.M.
Initial Hydro Mud Pres.	1246	1261	Remarks	Tool opened with a weak blow for a 10 minute first flow. Rotated tool for a 30 minute initial closed in pressure. Tool re-opened with no blow for a 30 minute second flow. Took a 30 minute final closed in pressure.		
Initial Closed in Pres.	816	817				
Initial Flow Pres.	18 1 12	18 2 31				
Final Flow Pres.	26 1 24	26 2 31				
Final Closed in Pres.	781	779				
Final Hydro Mud Pres.	1228	1239				

FORMATION TEST DATA

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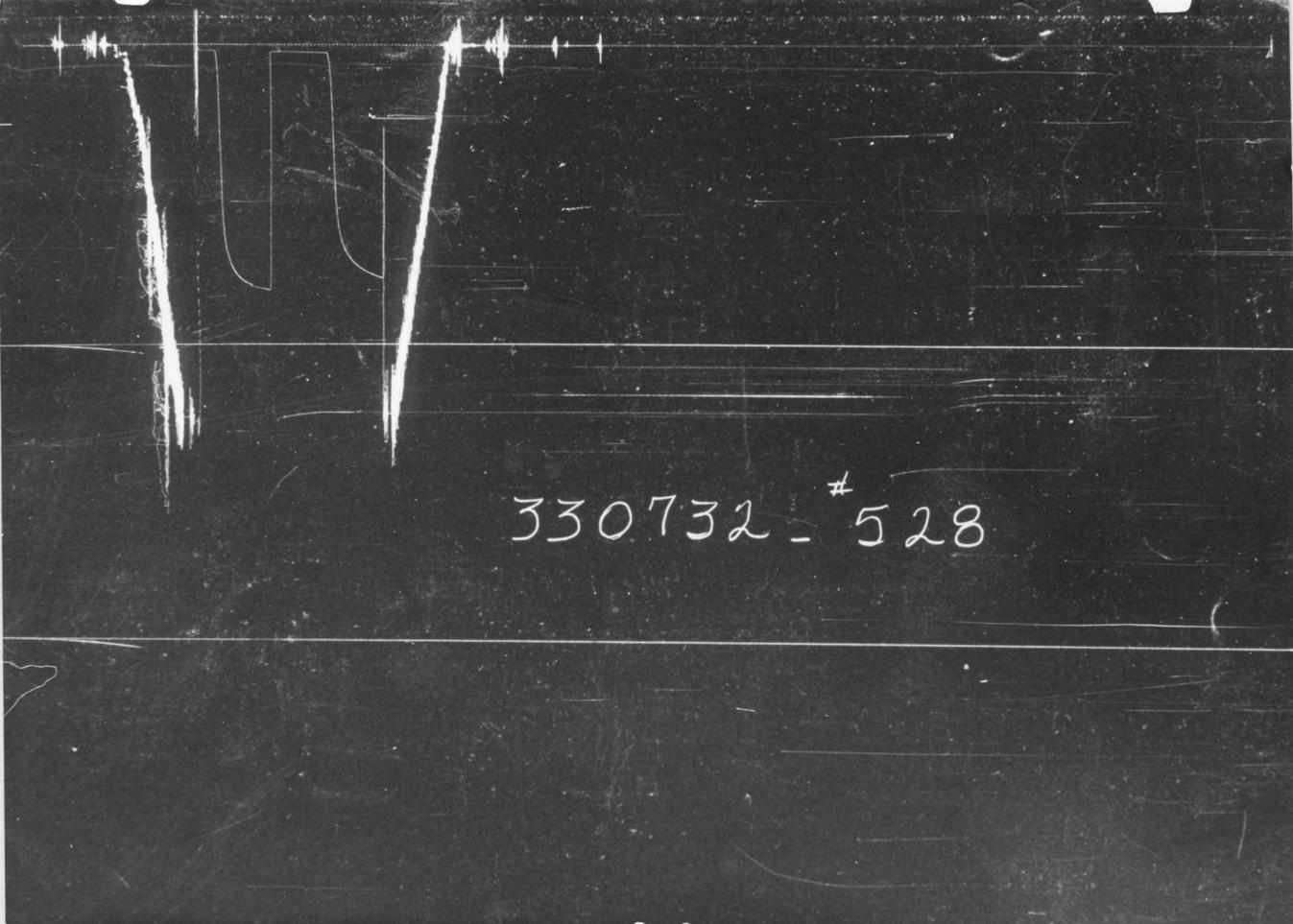
Gauge No. 528		Depth 2378'			Clock 12 hour		Ticket No. 330732			
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	
P ₀	.000	9	.000		21	.000	28	.000		27
P ₁	.0142	19	.0214		369	.222	27	.0214		274
P ₂	.0284	19	.0428		675			.0428		599
P ₃	.0426	20	.0642		737			.0642		674
P ₄	.0568	20	.0856		766			.0856		707
P ₅	.071	21	.1070		783			.1070		729
P ₆			.1284		794			.1284		744
P ₇			.1498		805			.1498		754
P ₈			.1712		809			.1712		763
P ₉			.1926		812			.1926		770
P ₁₀			.214		815			.214		776

Gauge No. 684		Depth 2382'			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	12	.000		24	.000	31	.000		31
P ₁	.0132	22	.0215		447	.210	31	.0218		302
P ₂	.0264	22	.0430		674			.0436		589
P ₃	.0396	23	.0645		738			.0654		670
P ₄	.0528	23	.0860		767			.0872		704
P ₅	.066	24	.1075		784			.1090		728
P ₆			.1290		795			.1308		744
P ₇			.1505		804			.1526		755
P ₈			.1720		809			.1744		766
P ₉			.1935		814			.1962		772
P ₁₀			.215		817			.218		779
Reading Interval 2					3				3 Minutes	
REMARKS:										

SPECIAL PRESSURE DATA

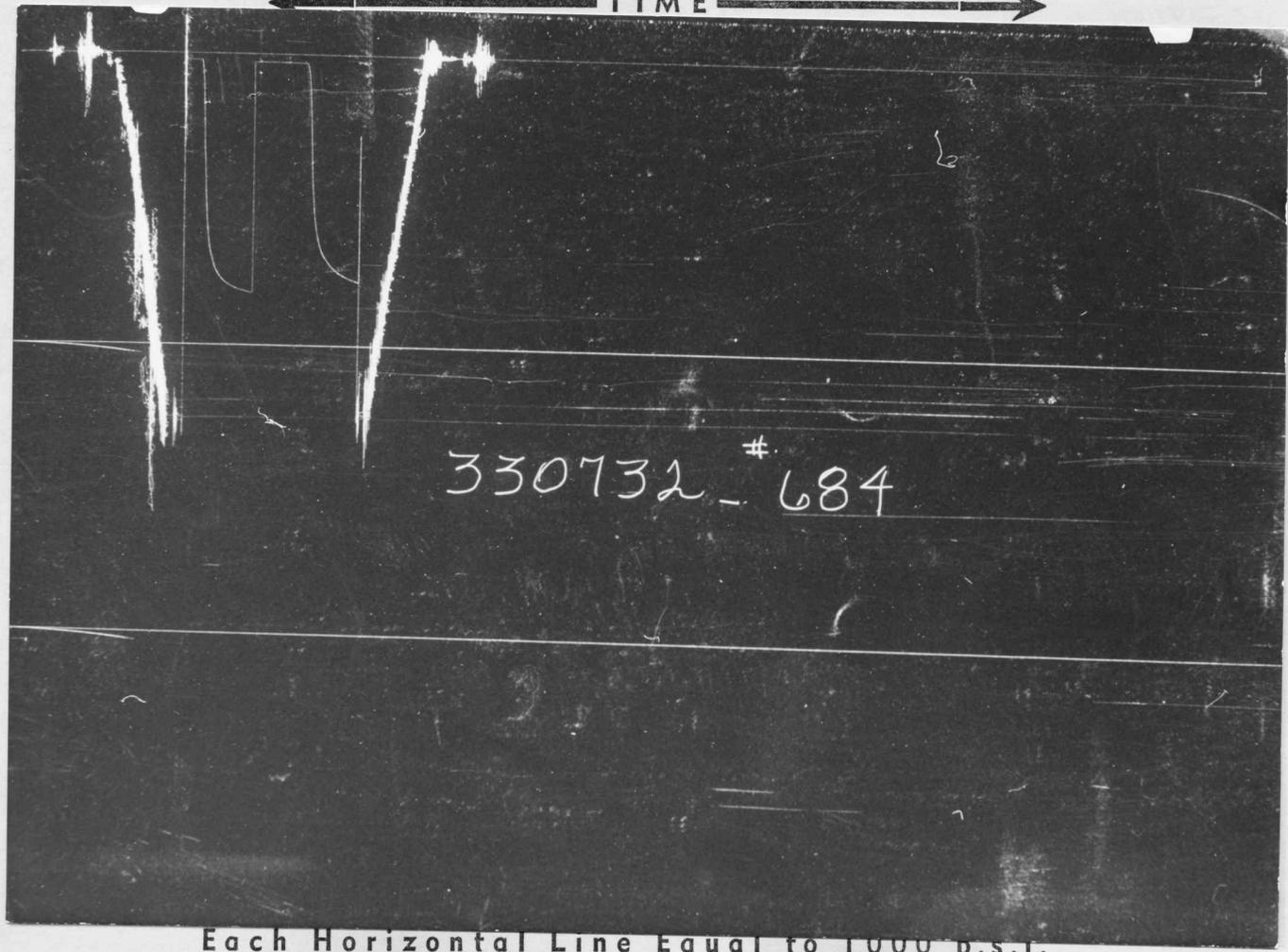
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↑
PRESSURE
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330732-[#]528

← TIME →



330732-[#]684

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

Flow Time	1st 10 Min.	2nd 60 Min.	Date	9-28-63	Ticket Number	330733 - S
Closed In Pres. Time	1st 30 Min.	2nd 30 Min.	Kind of Job	OPEN HOLE	Halliburton District	WINFIELD
Pressure Readings	Field	Office Corrected	Tester	REYNOLDS	Witness	HIPPS & HECK
Depth Top Gauge	2389' Ft.	NO Blanked Off	Drilling Contractor	H.U. MARTIN DRILLING COMPANY, INC.		
BT. P.R.D. No.	528	12 Hour Clock	Elevation	1380' D.F.	Top Packer	-
Initial Hydro Mud Pressure		1261	Total Depth	2412'	Bottom Packer	2387'
Initial Closed in Pres.		854	Interval Tested	2387' - 2412'	Formation Tested	ARBUCKLE
Initial Flow Pres.		1 627	Casing or Hole Size	7 7/8"	Casing Perfs. } Top	-
Final Flow Pres.		1 830	Surface Choke	1 1/4"	Bottom Choke	5/8"
Final Closed in Pres.		855	Size & Kind Drill Pipe	10 JTS. WEIGHT PIPE 4 1/2" F.H.	Drill Collars Above Tester	2 1/4" x 88'
Final Hydro Mud Pressure		1237	Mud Weight	10.1	Mud Viscosity	38
Depth Cen. Gauge		Blanked Off	Temperature	100 °F Est.	Anchor Size & Length	ID 2 3/8" X 25' OD 4 1/2" X 25'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHING	Depth of Tester Valve	2383' Ft.
Initial Hydro Mud Pres.			Cushion	NONE	Depth Back Pres. Valve	2378' Ft.
Initial Closed in Pres.			Recovered	2105' Feet of	free oil	
Initial Flow Pres.		1	Recovered	50' Feet of	heavy oil cut mud	
Final Flow Pres.		1	Recovered	70' Feet of	muddy salt water	
Final Closed in Pres.		2	Recovered		Feet of	
Final Hydro Mud Pres.			Oil A.P.I. Gravity	-	Water Spec. Gravity	-
Depth Bot. Gauge	2393' Ft.	YES Blanked Off	Gas Gravity	-	Surface Pressure	-# psi
BT. P.R.D. No.	684	12 Hour Clock	Tool Opened	10:03 PM 10:43 PM	A.M. P.M.	Tool Closed 10:13 PM ?
Initial Hydro Mud Pres.	1237	1265	Remarks	Tool opened with a strong blow for a 10 minute first flow. Rotated tool for a 30 minute initial closed in pressure. Tool re-opened with a strong blow to a very weak blow in 60 minutes. Took a 30 minute final closed in pressure.		
Initial Closed in Pres.	859	856				
Initial Flow Pres.	667	1 625				
Final Flow Pres.	824	2 837				
Final Closed in Pres.	859	857				
Final Hydro Mud Pres.	1237	1241				

FORMATION TEST DATA

PAULSON
 Lease Name
 82
 Well No.
 2
 Test No.
 CITIES SERVICE OIL COMPANY
 Lease Owner/Company Name
 EL DORADO
 County
 BUTLER
 State
 KANSAS
 Owner's District
 Mc. 2-26

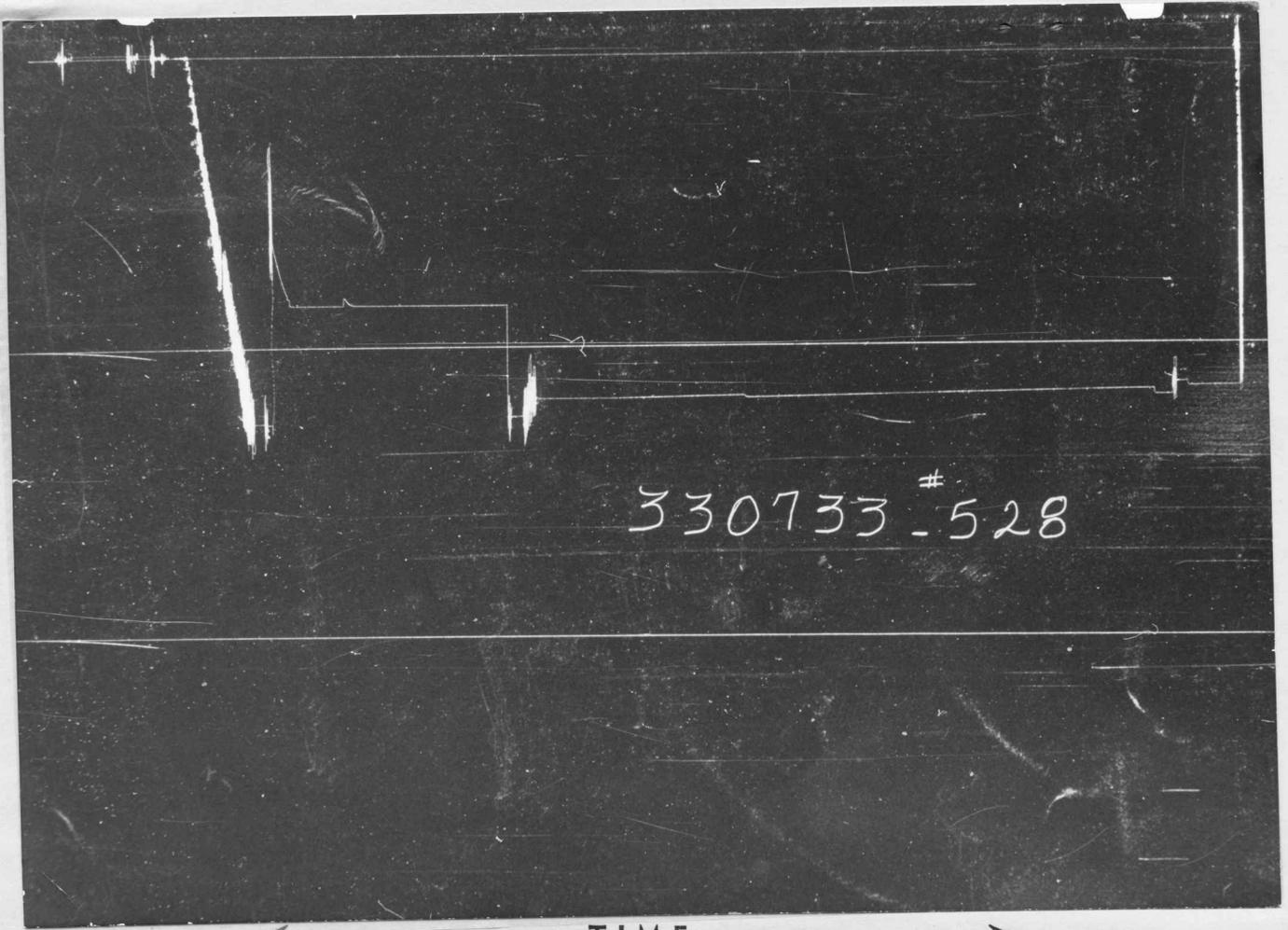
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Gauge No.		528		Depth		2389'		Clock		12 hour		Ticket No.		330733	
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure								
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.					
P ₀	.000	627 *	.000		830	.000	828	.000		855					
P ₁	.0144	679	.217		854	.101	854	.202		855					
P ₂	.0288	732				.202	854								
P ₃	.0432	775				.303	854								
P ₄	.0576	811				.404	855								
P ₅	.072	830													
P ₆															
P ₇															
P ₈															
P ₉															
P ₁₀															
Gauge No.		684		Depth		2393'		Clock		12 hour					
P ₀	.000	625 *	.000		833	.000	831	.000		854					
P ₁	.0142	678	.208		856	.1028	854	.218		857					
P ₂	.0284	736				.2056	854								
P ₃	.0426	778				.3084	854								
P ₄	.0568	811				.411	854								
P ₅	.071	833													
P ₆															
P ₇															
P ₈															
P ₉															
P ₁₀															
Reading Interval		2				15				Minutes					
REMARKS:		* QUESTIONABLE.													

SPECIAL PRESSURE DATA

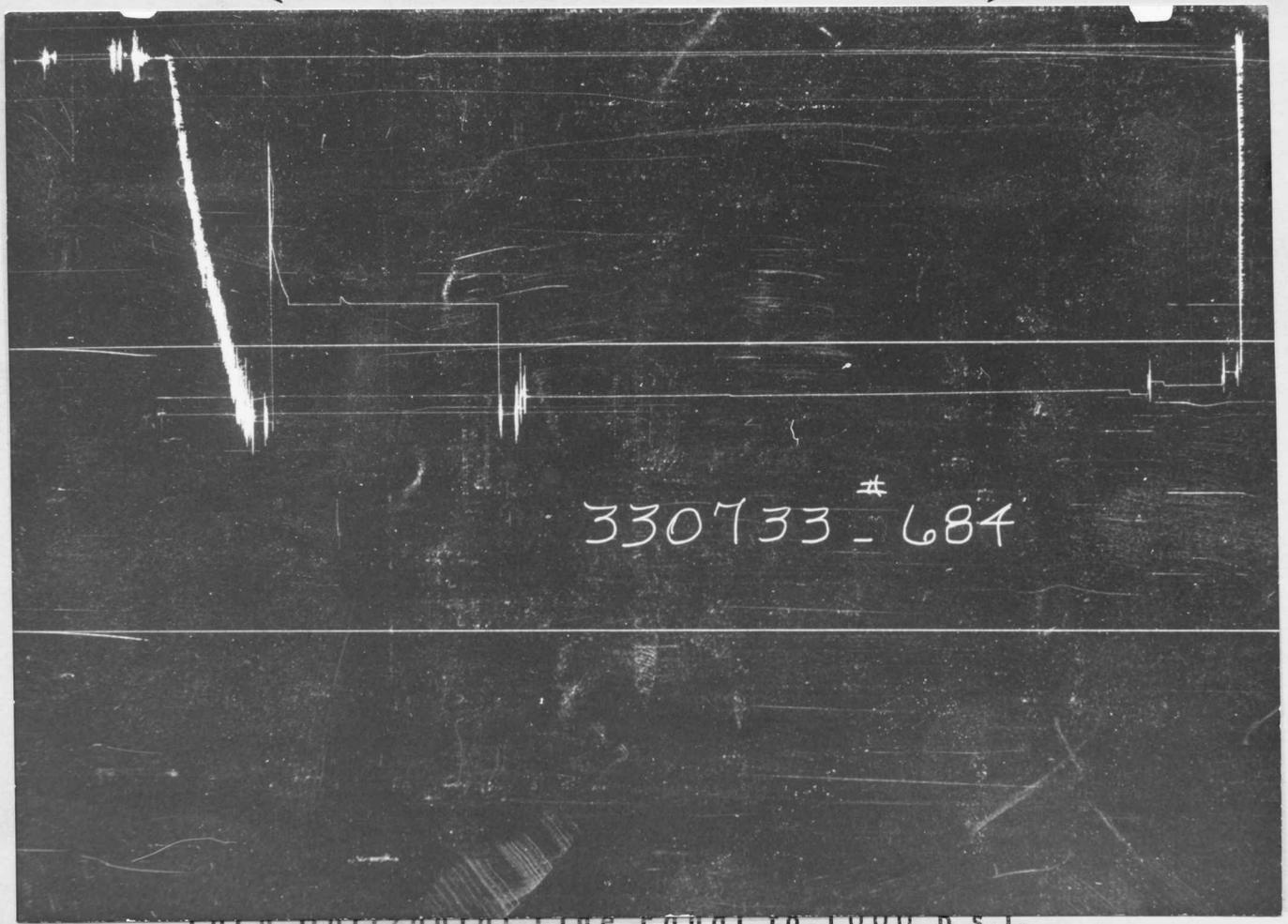
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PRESSURE



330733-528[#]

TIME



330733-684[#]

EACH HORIZONTAL LINE EQUAL TO 1000 p.s.i.