

Flow Time	1st Min. 15	2nd Min. 45	Date	4-5-65	Ticket Number	423025	S
Closed In Press. Time	1st Min. 30	2nd Min. 30	Kind of Job	OPEN HOLE	Halliburton District	GREAT BEND	
Pressure Readings	Field	Office Corrected	Tester	LARRY MOORE	Witness	H. CAIN F. MC COLLUM	
Depth Top Gauge	4381 Ft.	Blanked Off No	Drilling Contractor	PEEL BROS. INC.		JM	
BT. P.R.D. No.	566	Hour Clock 12	Elevation	2232 DF	Top Packer	4386'	
Initial Hydro Mud Pressure	2379	2331	Total Depth	4399'	Bottom Packer	4392'	
Initial Closed in Pres.	1369	1377	Interval Tested	4392-99	Formation Tested	Mississippi	
Initial Flow Pres.	57	1 11 2 75	Casing or Hole Size	7 7/8"	Casing Perfs. } Top Bot.		
Final Flow Pres.	191	1 57 2 197	Surface Choke	1"	Bottom Choke	1"	
Final Closed in Pres.	1369	1373	Size & Kind Drill Pipe	4 1/2" ACME	Drill Collars Above Tester		I.D. - LENGTH
Final Hydro Mud Pressure	2340	2307	Mud Weight	10.1	Mud Viscosity	46	
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	118	Anchor Size & Length	ID 4 1/2 X 7'	
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Kelly Bushing	Depth of Tester Valve	4374'	Ft.
Initial Hydro Mud Pres.			Cushion	none	Depth Back Pres. Valve		Ft.
Initial Closed in Pres.			Recovered	400	Feet of	Free Gassy Oil	
Initial Flow Pres.	1		Recovered	120	Feet of	Muddy Oil	
Final Flow Pres.	1		Recovered	700	Feet of	Gas show from drill pipe.	
Final Closed in Pres.			Recovered		Feet of		
Final Hydro Mud Pres.			Oil A.P.I. Gravity		Water Spec. Gravity		
Depth Bot. Gauge	Ft.	Blanked Off	Gas Gravity		Surface Pressure	psi	
BT. P.R.D. No.		Hour Clock	Tool Opened	9:05	A.M. P.M. Tool Closed	11:05	A.M. P.M.
Initial Hydro Mud Pres.			Remarks	Tool opened with a strong blow for a 15			
Initial Closed in Pres.				minute first flow. Closed at 9:20 for a 30 minute			
Initial Flow Pres.	1			initial closed in pressure. Reopened tool with			
Final Flow Pres.	1			a strong blow for a 45 minute second flow. Took			
Final Closed in Pres.				a 30 minute final closed in pressure.			
Final Hydro Mud Pres.							

FORMATION TEST DATA

4

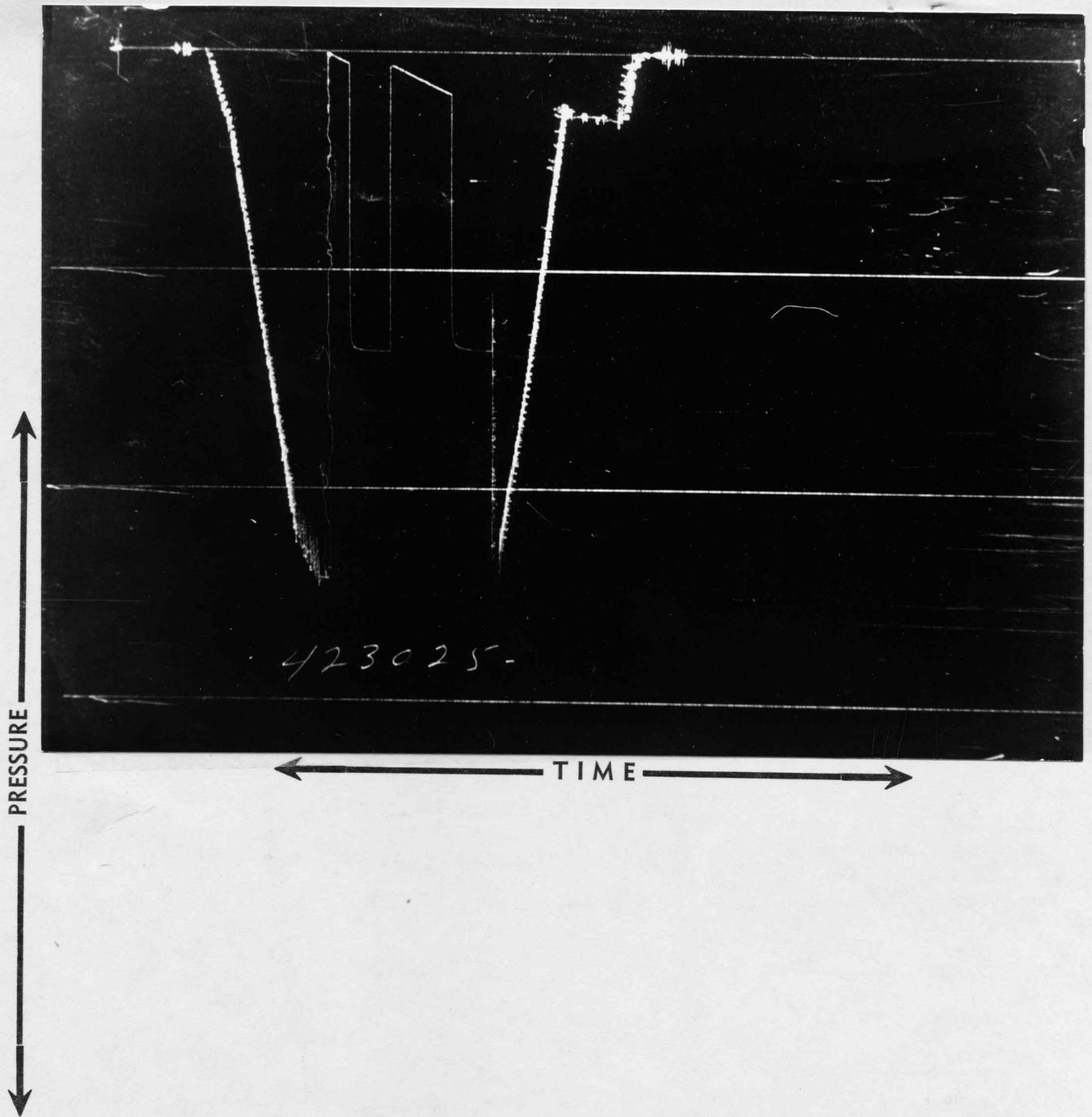
Legal Location Sec. - Twp. - Rng. 10-20-21W
 Lease Name
 A-3
 Well No.
 Test No. 1
 Field Area
 County
 NESS
 State
 KANSAS
 Owner's District
 KANSAS
 CITIES SERVICE OIL COMPANY
 Lease Owner/Company Name

Gauge No. 566		Depth 4381			Clock 12 hour		Ticket No. 423025			
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	11	.000		57	.000	75	.000		197
P ₁	.0206	19	.0205		1346	.059	88	.020		1338
P ₂	.0412	29	.0410		1366	.118	116	.040		1356
P ₃	.0618	39	.0615		1371	.177	142	.060		1362
P ₄	.0824	49	.0820		1373	.236	171	.080		1366
P ₅	.1030	57	.1025		1375	.295	197	.100		1367
P ₆			.1230		1376			.120		1369
P ₇			.1435		1377			.140		1370
P ₈			.1640		1377			.160		1371
P ₉			.1845		1377			.180		1372
P ₁₀			.2050					.200		1373

Gauge No.	Depth			Clock		hour		
P ₀								
P ₁								
P ₂								
P ₃								
P ₄								
P ₅								
P ₆								
P ₇								
P ₈								
P ₉								
P ₁₀								
Reading Interval	3		3		9		3	Minutes

REMARKS:

SPECIAL PRESSURE DATA



Each Horizontal Line Equal to 1000 p s i

Flow Time	1st 15 Min.	2nd 60 Min.	Date	4-6-65	Ticket Number	412176 S
Closed In Press. Time	1st 30 Min.	2nd 30 Min.	Kind of Job	OPEN HOLE	Halliburton District	GREAT BEND
Pressure Readings	Field	Office Corrected	Tester	LARRY MOORE	Witness	JACK MADDOX FRANK MC COLLUM
Depth Top Gauge	4394 Ft.	no Blanked Off	Drilling Contractor	PEEL BROTHERS INCORPORATED		LC
BT. P.R.D. No.	566	12 Hour Clock	Elevation	2232' DF	Top Packer	-
Initial Hydro Mud Pressure	2340	2316	Total Depth	4409'	Bottom Packer	4399'
Initial Closed in Pres.	1369	1379	Interval Tested	4399' - 4409'	Formation Tested	Mississippi
Initial Flow Pres.	29	1 33	Casing or Hole Size	7 7/8"	Casing Perfs.	Top
	182	2 220				Bot.
Final Flow Pres.	210	1 189	Surface Choke	1"	Bottom Choke	1"
Final Closed in Pres.	1369	1369	Size & Kind Drill Pipe	4 1/2" ACME	Drill Collars Above Tester	I.D. - LENGTH none
Final Hydro Mud Pressure	2340	2315	Mud Weight	10.1	Mud Viscosity	48
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	118	Anchor Size & Length	ID OD 1/2" X 10'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Kelly Bushing	Depth of Tester Valve	4385 Ft.
Initial Hydro Mud Pres.			Cushion	none	Depth Back Pres. Valve	- Ft.
Initial Closed in Pres.			Recovered	1398	Feet of free gassy oil.	
Initial Flow Pres.		1	Recovered	244	Feet of gassy muddy oil.	
Final Flow Pres.		1	Recovered	1658	Feet of gas in pipe.	
Final Closed in Pres.			Recovered	1 Gallon	Feet of oily muddy water.	
Final Hydro Mud Pres.			Oil A.P.I. Gravity	38	Water Spec. Gravity	-
Depth Bot. Gauge	4405 Ft.	ye s Blanked Off	Gas Gravity	-	Surface Pressure	- psi
BT. P.R.D. No.	239	12 Hour Clock	Tool Opened	9:53	A.M. P.M. Tool Closed	12:08 A.M. P.M.
Initial Hydro Mud Pres.	2328	2336	Remarks	Tool opened for a 15 minute first flow with		
Initial Closed in Pres.	1378	1383	a strong blow. Closed tool for a 30 minute initial			
Initial Flow Pres.	37	1 34	closed in pressure. Reopened tool for a 60 minute			
Final Flow Pres.	201	2 226	second flow with a strong blow. Closed tool for a			
Final Closed in Pres.	1378	1374	30 minute final closed in pressure.			
Final Hydro Mud Pres.	2328	2322				

Legal Location

Sec. - Twp. - Rng.

10 20 21W

Well No.

Test No.

Field Area

County

NESS

State

KANSAS

Owner's District

MC JUNKIN

Lease Name

A-3

2

CITIES SERVICE OIL COMPANY

Lease Owner/Company Name

NESS

KANSAS

Owner's District

FORMATION TEST DATA

4

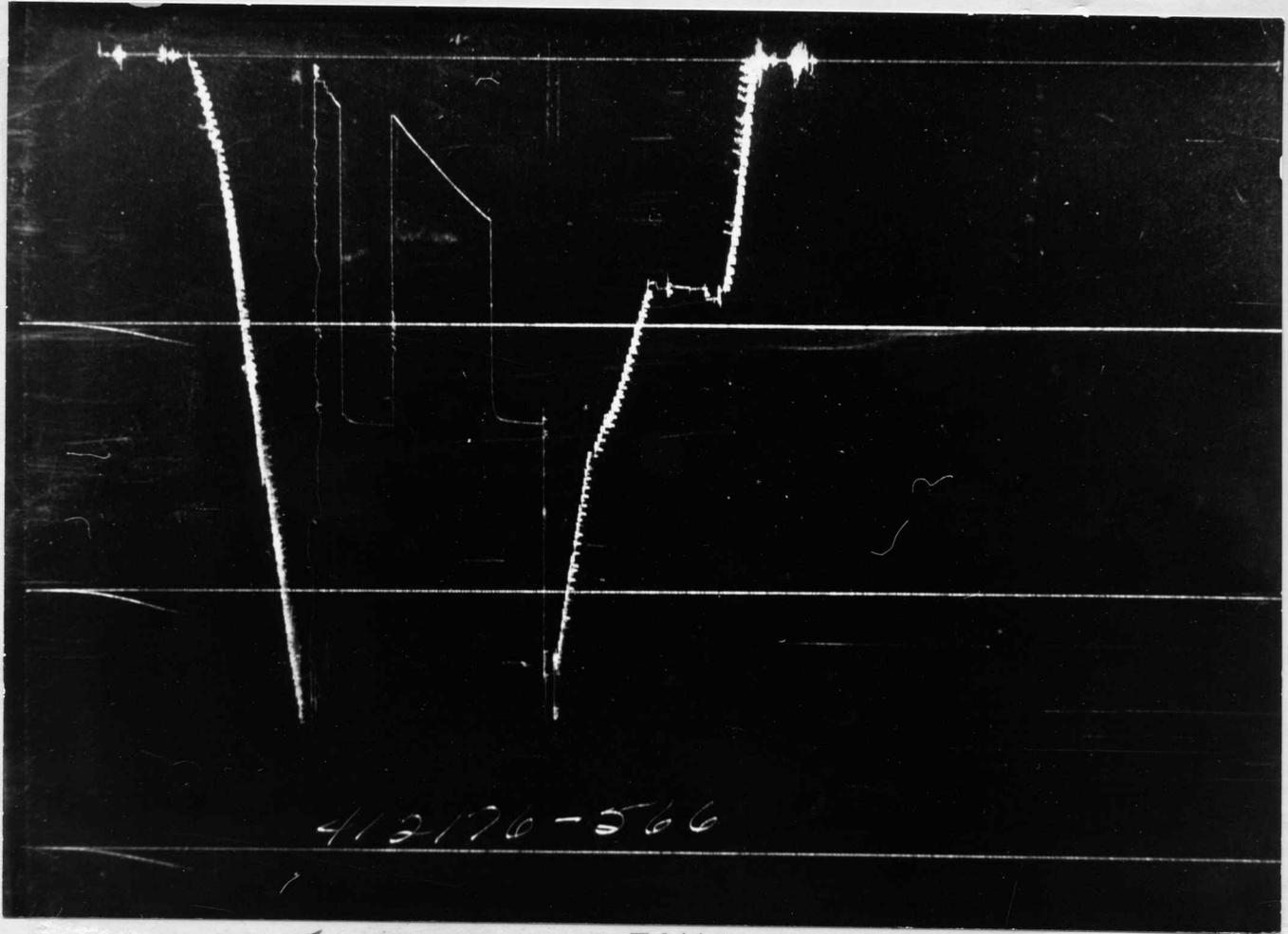
Gauge No.		566		Depth		4394'		Clock		12 hour		Ticket No.		412176	
First Flow Period			Initial Closed In Pressure			Second Flow Period			Final Closed In Pressure						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.					
P ₀	.000	33	.000		189	.000	220	.000		613					
P ₁	.0204	93	.021		1344	.098	325	.0208		1334					
P ₂	.0408	113	.042		1364	.196	430	.0416		1354					
P ₃	.0612	139	.063		1370	.294	530	.0624		3159					
P ₄	.0816	165	.084		1373	.392	613	.0832		1362					
P ₅	.1020	189	.105		1375			.1040		1364					
P ₆			.126		1376			.1248		1366					
P ₇			.147		1377			.1456		1367					
P ₈			.168		1378			.1664		1368					
P ₉			.189		1378			.1872		1369					
P ₁₀			.210		1379			.2080		1369					

Gauge No.		239		Depth		4405'		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	34	.000		193	.000	226	.000		614	
P ₁	.0204	64	.0207		1351	.0983	322	.0206		1345	
P ₂	.0408	99	.0414		1368	.1966	429	.0412		1359	
P ₃	.0612	135	.0621		1375	.2949	437	.0618		1363	
P ₄	.0816	171	.0828		1377	.3930	614	.0824		1367	
P ₅	.1020	193	.1035		1379			.1030		1368	
P ₆			.1242		1380			.1236		1369	
P ₇			.1449		1381			.1442		1371	
P ₈			.1656		1381			.1648		1372	
P ₉			.1863		1382			.1854		1373	
P ₁₀			.2070		1383			.2060		1374	
Reading Interval		3		3		15		3		Minutes	

REMARKS:

SPECIAL PRESSURE DATA

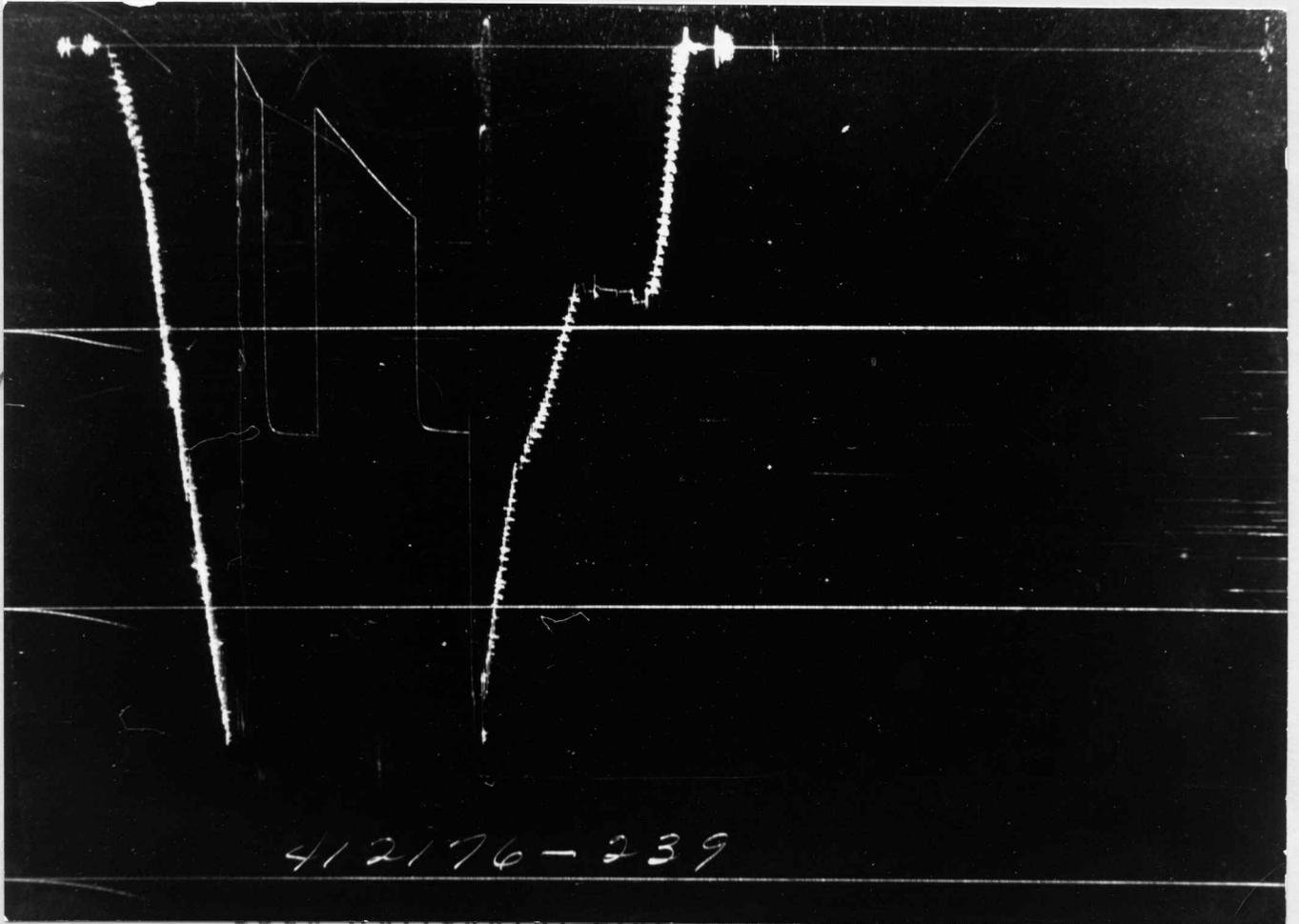
PRESSURE



412176-566

TIME

PRESSURE



412176-239

Each horizontal line equal to 1000 p.s.i.