

Flow Time	1st 5	Min.	2nd 60	Min.	Date	6-28-63		Ticket Number	402901 S	
Closed In Press. Time	1st 30	Min.	2nd 30	Min.	Kind of Job	Open hole test		Halliburton District	El Dorado	
Pressure Readings	Field		Office Corrected		Tester	Mr. Gasperson		Witness	Mr. Owens	
Depth Top Gauge	1560 Ft.		NO Blanked Off		Drilling Contractor	White & Ellis Drilling Incorporated				
BT. P.R.D. No.	404		12 Hour Clock		Elevation	1248'		Top Packer	-	
Initial Hydro Mud Pressure	782		784		Total Depth	1589'		Bottom Packer	1558'	
Initial Closed in Pres.	450		446		Interval Tested	1558'-1589'		Formation Tested	Cherokee	
Initial Flow Pres.	-	1	10		Casing or Hole Size	7 7/8"		Casing Perfs. { Top	-	
Final Flow Pres.	-	1	31		Surface Choke	1"		Bottom Choke	3/4"	
Final Closed in Pres.	424		419		Size & Kind Drill Pipe	3 1/2" IF		Drill Collars Above Tester	I.D. - LENGTH 2 1/4" x 268'	
Final Hydro Mud Pressure	-		776		Mud Weight	9.6		Mud Viscosity	37	
Depth Cen. Gauge	1587 Ft.		YES Blanked Off		Temperature	100 °F Est. °F Actual		Anchor Size & Length	ID 3 1/2" OD 4.00" X 31'	
BT. P.R.D. No.	328		12 Hour Clock		Depths Mea. From	Kelly Bushings		Depth of Tester Valve	1553' Ft.	
Initial Hydro Mud Pres.	-		797		Cushion	-		Depth Back Pres. Valve	-	
Initial Closed in Pres.	-		456		Recovered	185 Feet of Oil		Med. From Tester Valve		
Initial Flow Pres.	-	1	24		Recovered	145 Feet of Muddy oil				
Final Flow Pres.	-	1	41		Recovered	Feet of				
Final Closed in Pres.	-		428		Recovered	Feet of				
Final Hydro Mud Pres.	-		787		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	3:25 A.M. P.M.		Tool Closed	5:00 A.M. P.M.	
Initial Hydro Mud Pres.					Remarks	Opened tool for 5 minute 1st flow at 3:25.				
Initial Closed in Pres.					Closed tool at 3:30 for 30 minute initial closed					
Initial Flow Pres.	1				in pressure. Reopened tool at 4:00 for 60 minute					
Final Flow Pres.	1				2nd flow with fair blow throughout test. Closed					
Final Closed in Pres.					tool at 5:00 for 30 minute final closed in					
Final Hydro Mud Pres.					pressure.					

FORMATION TEST DATA

YAEGE
Lease Name

16
Well No.
1
Test No.

CITIES SERVICE PETROLEUM COMPANY
Lease Owner/Company Name

MADISON
Owner's District

Legal Location
Sec. - Twp. - Rng.

SEC. 330' - 380' W. of E/4

Field Area

YAEGE

County

RILEY

State

KANSAS

5

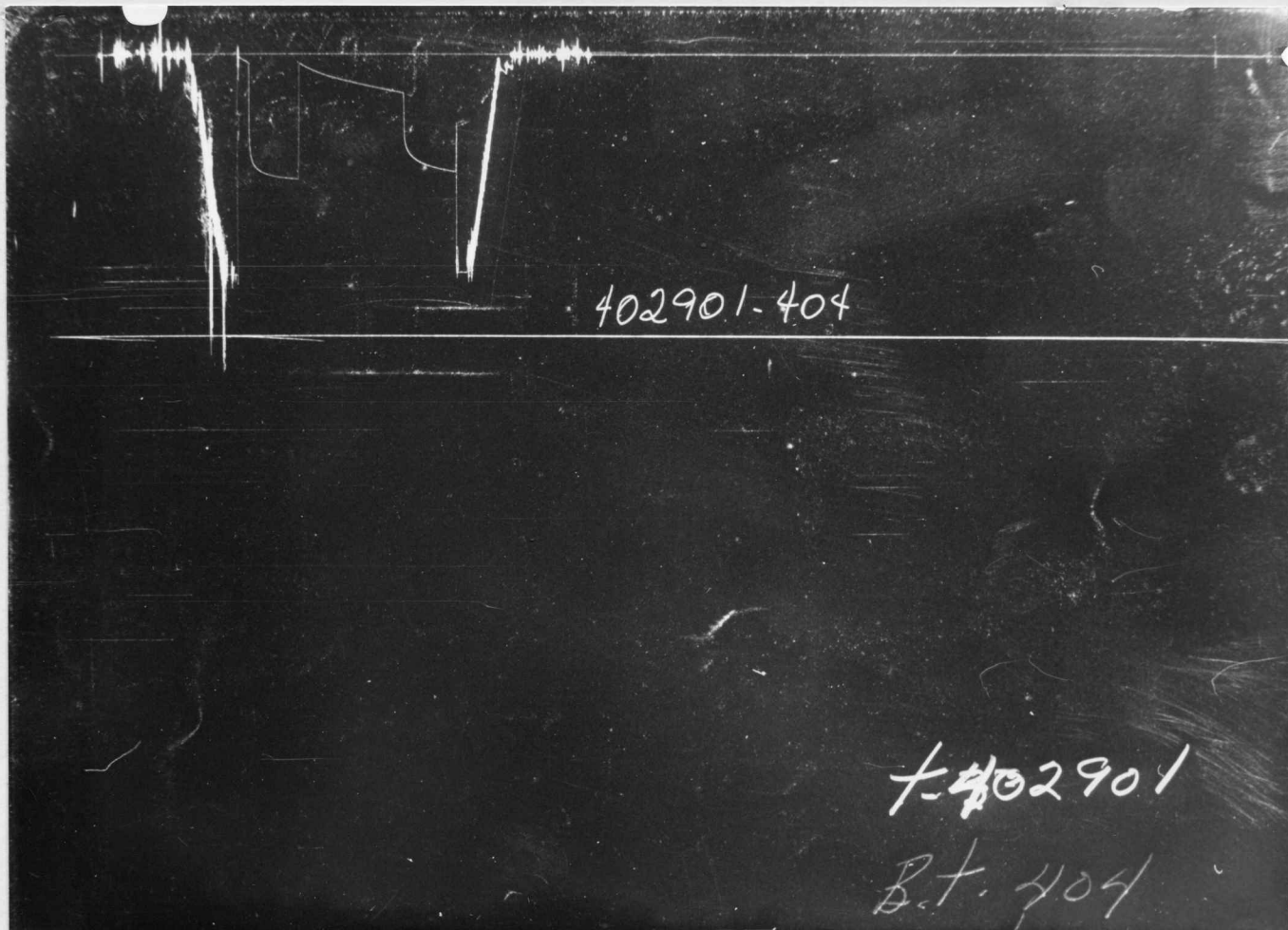
Gauge No. 404			Depth 1560'			Clock 12 hour		Ticket No. 402901		
First Flow Period			Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P ₀	.000	10	.000		31	.000	35	.000		138
P ₁	.0084	14	.020		394	.1048	75	.0209		351
P ₂	.0168	18	.040		414	.2096	99	.0418		371
P ₃	.0252	23	.060		424	.3144	120	.0627		384
P ₄	.0336	27	.080		431	.4190	138	.0836		393
P ₅	.0420	31	.100		435			.1045		399
P ₆			.120		439			.1254		405
P ₇			.140		441			.1463		409
P ₈			.160		443			.1672		413
P ₉			.180		444			.1881		416
P ₁₀			.200		446			.2090		419

Gauge No. 328			Depth 1587'			Clock 12 hour				
P ₀	.000	24	.000		41	.000	49	.000		148
P ₁	.007	28	.020		400	.104	85	.0206		362
P ₂	.014	32	.040		422	.208	109	.0412		381
P ₃	.021	35	.060		433	.312	130	.0618		393
P ₄	.028	38	.080		441	.416	148	.0824		402
P ₅	.035	41	.100		445			.1030		408
P ₆			.120		449			.1236		413
P ₇			.140		451			.1442		418
P ₈			.160		454			.1648		422
P ₉			.180		455			.1854		426
P ₁₀			.200		456			.2060		428
Reading Interval 1			3			15		3 Minutes		
REMARKS:										

SPECIAL PRESSURE DATA

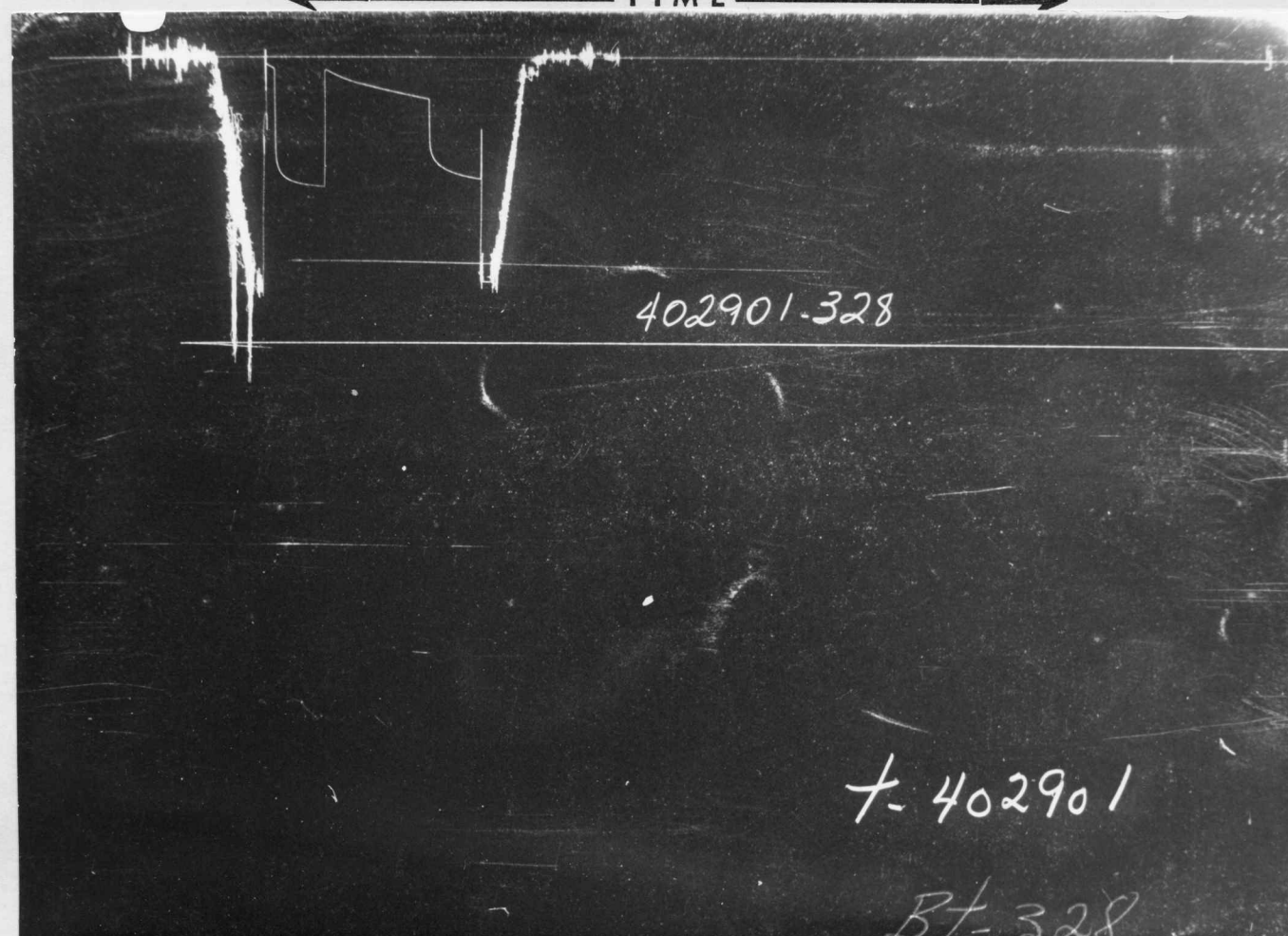
511-5

PRESSURE



+ 402901
B.T. 404

TIME



+ 402901
B.T. 328

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

Flow Time	1st 5 Min.	2nd 60 Min.	Date	6-28-63	Ticket Number	402902 S
Closed In Press. Time	1st 30 Min.	2nd 30 Min.	Kind of Job	OPEN HOLE	Halliburton District	EL DORADO, KANSAS
Pressure Readings	Field	Office Corrected	Tester	WILLIE GASPERSON	Witness	LOUIS OWENS
Depth Top Gauge	1590 Ft.	no Blanked Off	Drilling Contractor	WHITE AND ELLIS DRILLING COMPANY		
BT. P.R.D. No.	404	12 Hour Clock	Elevation	1248' GL	Top Packer	--
Initial Hydro Mud Pressure		789	Total Depth	1604'	Bottom Packer	1597'
Initial Closed in Pres.	567	564	Interval Tested	1597' - 1604'	Formation Tested	Hunton
Initial Flow Pres.	54	1 7 2 61	Casing or Hole Size	7 5/8"	Casing Perfs.	Top Bot.
Final Flow Pres.	234	1 53 2 237	Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	567	562	Size & Kind Drill Pipe	3 1/2"	Drill Collars Above Tester	I.D. - LENGTH 2 1/4" x 168'
Final Hydro Mud Pressure	781	783	Mud Weight	9.6	Mud Viscosity	37
Depth Cen. Gauge		Blanked Off	Temperature	80 °F Est. °F Actual	Anchor Size & Length	ID 3 1/2" X OD 4" 7'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Kelly Bushing	Depth of Tester Valve	1588' Ft.
Initial Hydro Mud Pres.			TYPE	AMOUNT	Depth Back Pres. Valve	-- Ft.
Initial Closed in Pres.			Cushion	--		
Initial Flow Pres.	1		Recovered	475	Feet of oil.	
Final Flow Pres.	2		Recovered	65	Feet of muddy oil.	
Final Closed in Pres.	1		Recovered	60	Feet of water.	
Final Hydro Mud Pres.	2		Recovered		Feet of	
Depth Bot. Gauge	1600 Ft.	yes Blanked Off	Oil A.P.I. Gravity		Water Spec. Gravity	
BT. P.R.D. No.	328	12 Hour Clock	Gas Gravity		Surface Pressure	psi
Initial Hydro Mud Pres.		796	Tool Opened	1:30 P.M.	Tool Closed	3:05 P.M.
Initial Closed in Pres.		569	Remarks	Tool opened @ 1:30 for a 5 minute first flow.		
Initial Flow Pres.	1 23 2 71			Closed tool @ 1:35 for a 30 minute initial closed in pressure. Reopened tool @ 2:05 for a 60 minute sec-		
Final Flow Pres.	1 60 2 241			ond flow with a good blow. Closed tool @ 3:05 for		
Final Closed in Pres.		567		a 30 minute final closed in pressure. Off bottom @		
Final Hydro Mud Pres.		790		8:35.		

FORMATION TEST DATA

YAECE

Lease Name

16

2

CITIES SERVICE PETROLEUM COMPANY

MADISON, KANSAS

Legal Location
Sec. - Twp. - Rng. 330 S - 380W OF E/4 25-11-8E

Well No.

Test No.

Field Area
YAECE

County
RILEY

State

KANSAS

Lease Owner/Company Name

Owner's District

Gauge No. 404			Depth 1590'			Clock 12 hour		Ticket No. 402902		
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	7	.000		53	.000	61	.000		237
P ₁	.0102	18	.0192		523	.1023	115	.0215		537
P ₂	.0204	28	.0384		546	.2046	161	.0430		551
P ₃	.0306	37	.0576		554	.3069	201	.0645		556
P ₄	.0408	45	.0768		558	.409	237	.0860		558
P ₅	.0510	53	.0960		560			.1075		559
P ₆			.1152		561			.1290		560
P ₇			.1344		562			.1505		561
P ₈			.1536		563			.1720		562
P ₉			.1728		564			.1935		562
P ₁₀			.1920		564			.2150		562

Gauge No. 328			Depth 1600'			Clock 12		hour		
P ₀	.000	23	.000		60	.000	71	.000		241
P ₁	.0084	30	.0194		521	.102	121	.0212		542
P ₂	.0168	37	.0388		549	.204	166	.0424		557
P ₃	.0252	44	.0582		559	.306	206	.0636		561
P ₄	.0336	52	.0776		563	.408	241	.0848		564
P ₅	.0420	60	.0970		565			.1060		564
P ₆			.1164		566			.1272		565
P ₇			.1358		567			.1484		566
P ₈			.1552		568			.1696		566
P ₉			.1746		568			.1908		567
P ₁₀			.1940		569			.2120		567

Reading Interval 1 3 15 3 Minutes

REMARKS:

SPECIAL PRESSURE DATA

25

↑
PRESSURE
↓

402902-404

f-402902
BT-404

← TIME →

402902-328

f-402902
BT-328
Blocked

Flow Time	1st	Min.	2nd	Min.	Date	6-28-63	Ticket Number	402903	S
Closed In Press. Time	1st	Min.	2nd	Min.	Kind of Job	OPEN HOLE	Halliburton District	EL DORADO, KS	
Pressure Readings	Field		Office Corrected		Tester	GASPERSON	Witness	MR. OWEN	
Depth Top Gauge	1597 Ft.		Blanked Off No		Drilling Contractor	WHITE & ELLIS DRLG. CO.			
BT. P.R.D. No.	404		12 Hour Clock		Elevation	1248' GL	Top Packer		
Initial Hydro Mud Pressure	782		781		Total Depth	1613'	Bottom Packer	1604'	
Initial Closed in Pres.	567		572		Interval Tested	1604-1613'	Formation Tested	Hunton	
Initial Flow Pres.	117		122		Casing or Hole Size	7 5/8"	Casing Perfs.	{ Top Bot.	
Final Flow Pres.	495		490		Surface Choke	1"	Bottom Choke	3/4"	
Final Closed in Pres.	567		570		Size & Kind Drill Pipe	3 1/2" IF	Drill Collars Above Tester	I.D. - LENGTH 2 1/4" - 168'	
Final Hydro Mud Pressure	782		779		Mud Weight	9.6	Mud Viscosity	38	
Depth Cen. Gauge	1611 Ft.		Blanked Off Yes		Temperature	80	Anchor Size & Length	ID 3 1/2 OD 4" X 9	
BT. P.R.D. No.	328		12 Hour Clock		Depths Mea. From	KB	Depth of Tester Valve	1595' Ft.	
Initial Hydro Mud Pres.	784				Cushion		Depth Back Pres. Valve	Ft.	
Initial Closed in Pres.	573				Recovered	70	Feet of	Oil	
Initial Flow Pres.	134				Recovered	1050	Feet of	Water	
Final Flow Pres.	490				Recovered		Feet of		
Final Closed in Pres.	572				Recovered		Feet of		
Final Hydro Mud Pres.	781				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	10:30 P.M.	A.M. P.M.	Tool Closed	A.M. P.M.
Initial Hydro Mud Pres.					Remarks	Tool opened at 10:30 P.M. for a 5 minute first			
Initial Closed in Pres.						flow. Closed at 10:35 for a 30 minute initial			
Initial Flow Pres.	2					closed in pressure. Reopened tool at 11:05 PM			
Final Flow Pres.	2					with strong blow for a 60 minute final flow. Closed			
Final Closed in Pres.						at 12:05 P.M. for a 30 minute final closed in pressure.			
Final Hydro Mud Pres.									

FORMATION TEST DATA

YAEGE

Lease Name

16

Test No.

CITIES SERVICE PETROLEUM CO.

MADISON, KS

Owner's District

Legal Location

330S

380W-E/4-25-11-8

Field Area

YAEGE

County

RILEY

State

KANSAS

Lease Owner/Company Name

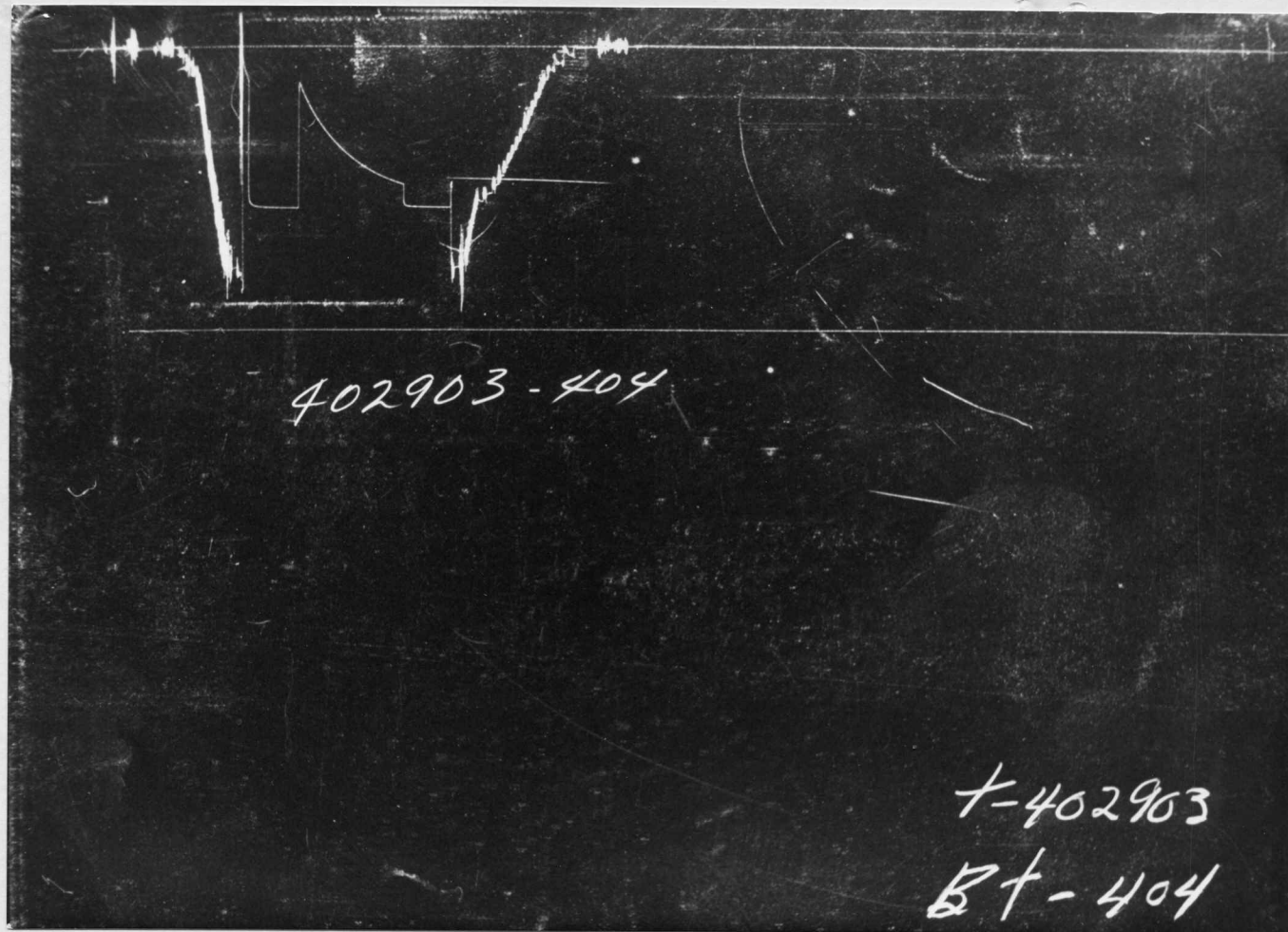
Gauge No.		404		Depth		1597		Clock		12 hour		Ticket No.		402903	
First Flow Period			Initial Closed In Pressure			Second Flow Period			Final Closed In Pressure						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.					
P ₀	.000	22	.000		119	.000	128	.000		490					
P ₁	.0056	46	.0198		564	.1035	297	.0188		567					
P ₂	.0112	72	.0396		567	.2070	394	.0376		568					
P ₃	.0168	88	.0594		569	.3105	452	.0564		569					
P ₄	.0224	104	.0792		570	.4140	490	.0752		569					
P ₅	.0280	119	.0990		570			.0940		570					
P ₆	.0312		.1188		571			.1128		570					
P ₇	.0368		.1386		571			.1316		570					
P ₈	.0424		.1584		571			.1504		570					
P ₉	.0480		.1782		572			.1692		570					
P ₁₀	.0576		.1980		572			.1880		570					

Gauge No. 328			Depth 1611			Clock 12		hour			
P ₀	.000	51	.000		120	.000	134	.000		490	
P ₁	.005	69	.020		564	.1025	301	.0187		569	
P ₂	.010	84	.040		569	.2050	393	.0374		570	
P ₃	.015	98	.060		571	.3075	453	.0561		571	
P ₄	.020	111	.080		572	.4100	490	.0748		571	
P ₅	.025	120	.100		572			.0935		572	
P ₆			.120		572			.1122		572	
P ₇			.140		572			.1309		572	
P ₈			.160		572			.1496		572	
P ₉			.180		573			.1683		572	
P ₁₀			.200		573			.1870		572	
Reading Interval		1	3			15		3			Minutes
REMARKS:											

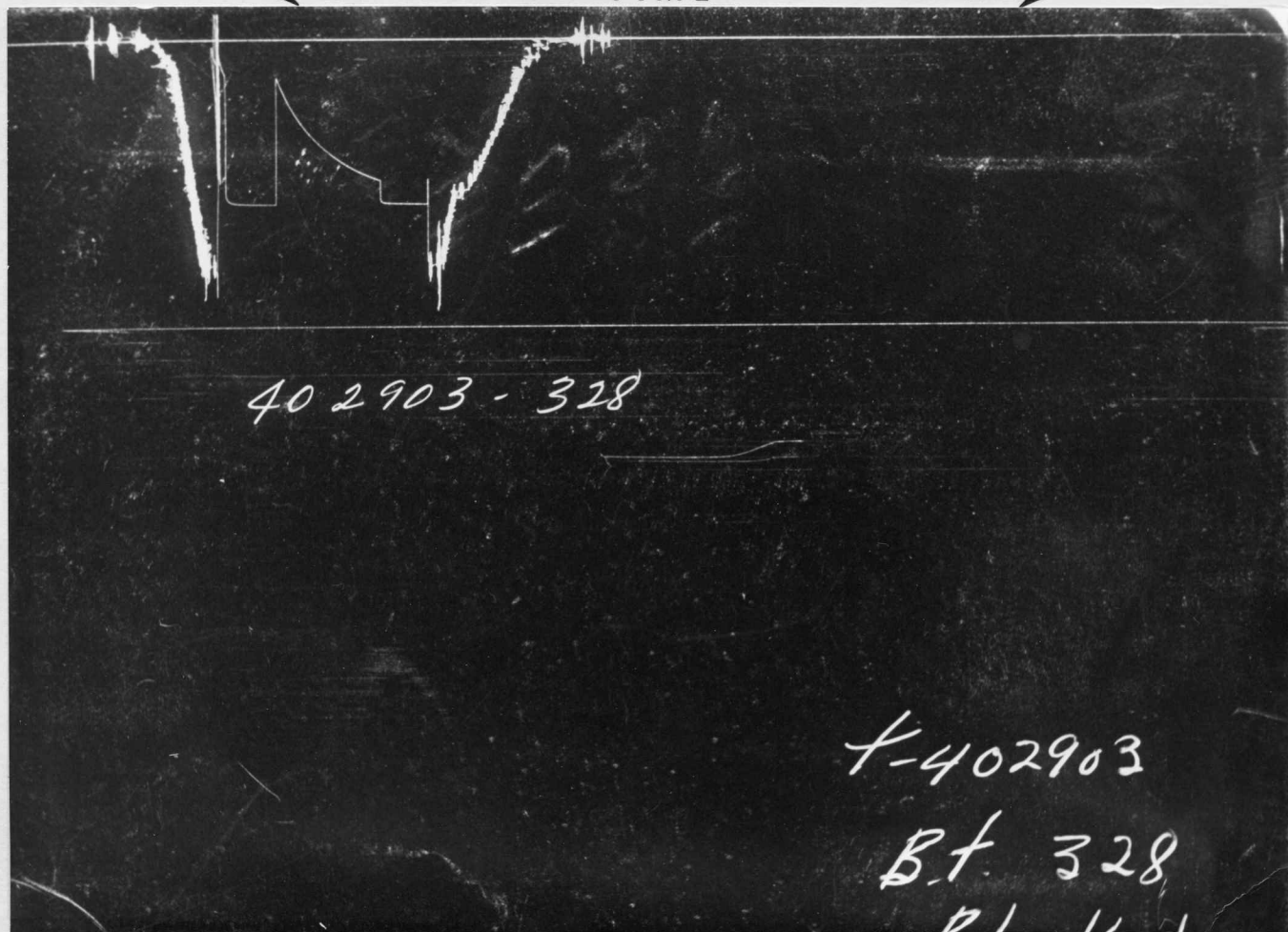
SPECIAL PRESSURE DATA

11-5

↑
PRESSURE
↓



← TIME →



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