

Flow Time	1st 15	Min.	2nd 45	Min.	Date	12-18-68	Ticket Number	534058 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	MR. NUTTING	Witness	MR. MC COLLUM
Depth Top Gauge	4507	Ft.	No	Blanked Off	Drilling Contractor	LEBEN DRILLING #5	DH	
BT. P.R.D. No.	1839		12	Hour Clock	Elevation	-	Top Packer	-
Initial Hydro Mud Pressure			2336		Total Depth	4523'	Bottom Packer	4510'
Initial Closed in Pres.			925		Interval Tested	4510'-4523'	Formation Tested	Mississippi
Initial Flow Pres.		1	26		Casing or Hole Size	7 7/8"	Casing Perfs.	Top
Final Flow Pres.		1	60		Surface Choke	1	Bottom Choke	3/4"
Final Closed in Pres.			637		Size & Kind Drill Pipe	4 1/2	Drill Collars Above Tester	I.D. - LENGTH
Final Hydro Mud Pressure			2328		Mud Weight	9.7	Mud Viscosity	47
Depth Cen. Gauge		Ft.		Blanked Off	Temperature	116 °F Est.	Anchor Size & Length	ID 3.25" X OD 5.00" X 13'
BT. P.R.D. No.				Hour Clock	Depths Mea. From	Kelly Bushing	Depth of Tester Valve	4498' Ft.
Initial Hydro Mud Pres.					TYPE AMOUNT		Depth Back Pres. Valve	Ft.
Initial Closed in Pres.					Cushion	-		
Initial Flow Pres.		1			Recovered	1080'	Feet of	gas
Final Flow Pres.		2			Recovered	210'	Feet of	clean oil
Final Closed in Pres.		1			Recovered	60'	Feet of	mud cut oil
Final Hydro Mud Pres.		2			Recovered	60'	Feet of	oil cut mud
Depth Bot. Gauge	4519	Ft.	Yes	Blanked Off	Oil A.P.I. Gravity		Water Spec. Gravity	
BT. P.R.D. No.	1838		12	Hour Clock	Gas Gravity		Surface Pressure	psi
Initial Hydro Mud Pres.	2300		2344		Tool Opened		A.M. Tool Closed	A.M. P.M.
Initial Closed in Pres.	934		925		Remarks			
Initial Flow Pres.	37	1	30		Opened tool for 15 minute first flow with a strong blow. Closed tool for 30 minute initial			
Final Flow Pres.	55	2	80		closed in pressure. Reopened tool for 45 minute			
Final Closed in Pres.	641		639		second flow with a strong blow. Closed tool for 30			
Final Hydro Mud Pres.	2300		2330		minute final closed in pressure.			

FORMATION TEST DATA

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NICHOLS
 Lease Name
 G-1
 Well No.
 1
 Test No.
 WILD CAT
 County
 HODGEMAN
 State
 KANSAS
 Owner's District
 CITIES SERVICE OIL COMPANY
 Lease Owner/Company Name

Legal Location
 Sec. - Twp. - Rng.
 NE-SW-25-22-21
 Field Area
 WILD CAT
 County
 HODGEMAN
 State
 KANSAS

Gauge No. 1839		Depth 4507'		Clock 12 hour		Ticket No. 534058				
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\phi}{e}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\phi}{e}$	PSIG Temp. Corr.	
P ₀	.000	26	.000		60	.000	77	.000		136
P ₁	.0204	33	.0212		383	.0336	78	.0207		313
P ₂	.0408	41	.0424		522	.0672	89	.0414		386
P ₃	.0612	47	.0636		615	.1008	96	.0621		431
P ₄	.0816	55	.0848		687	.1344	104	.0828		475
P ₅	.1020	60	.1060		743	.1680	112	.1035		509
P ₆			.1272		792	.2016	120	.1242		539
P ₇			.1484		829	.2352	125	.1449		567
P ₈			.1696		867	.2688	130	.1656		595
P ₉			.1908		898	.3020	136	.1863		620
P ₁₀			.2120		925			.2070		637
Gauge No. 1838		Depth 4519'		Clock 12 hour						
P ₀	.000	30	.000		62	.000	80	.000		136
P ₁	.0186	36	.0207		367	.0328	80	.0205		319
P ₂	.0372	43	.0414		517	.0656	89	.0410		389
P ₃	.0558	49	.0621		617	.0984	96	.0615		436
P ₄	.0744	56	.0828		687	.1312	104	.0820		476
P ₅	.0930	62	.1035		744	.1640	113	.1025		510
P ₆			.1242		792	.1968	121	.1230		538
P ₇			.1449		832	.2296	126	.1435		594
P ₈			.1656		867	.2624	131	.1640		619
P ₉			.1863		898	.2950	136	.1845		639
P ₁₀			.2070		925			.2050		639
Reading Interval 3		3			5		3			Minutes
REMARKS:										

SPECIAL PRESSURE DATA

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534058-1839

PRESSURE

TIME

534058-1838

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

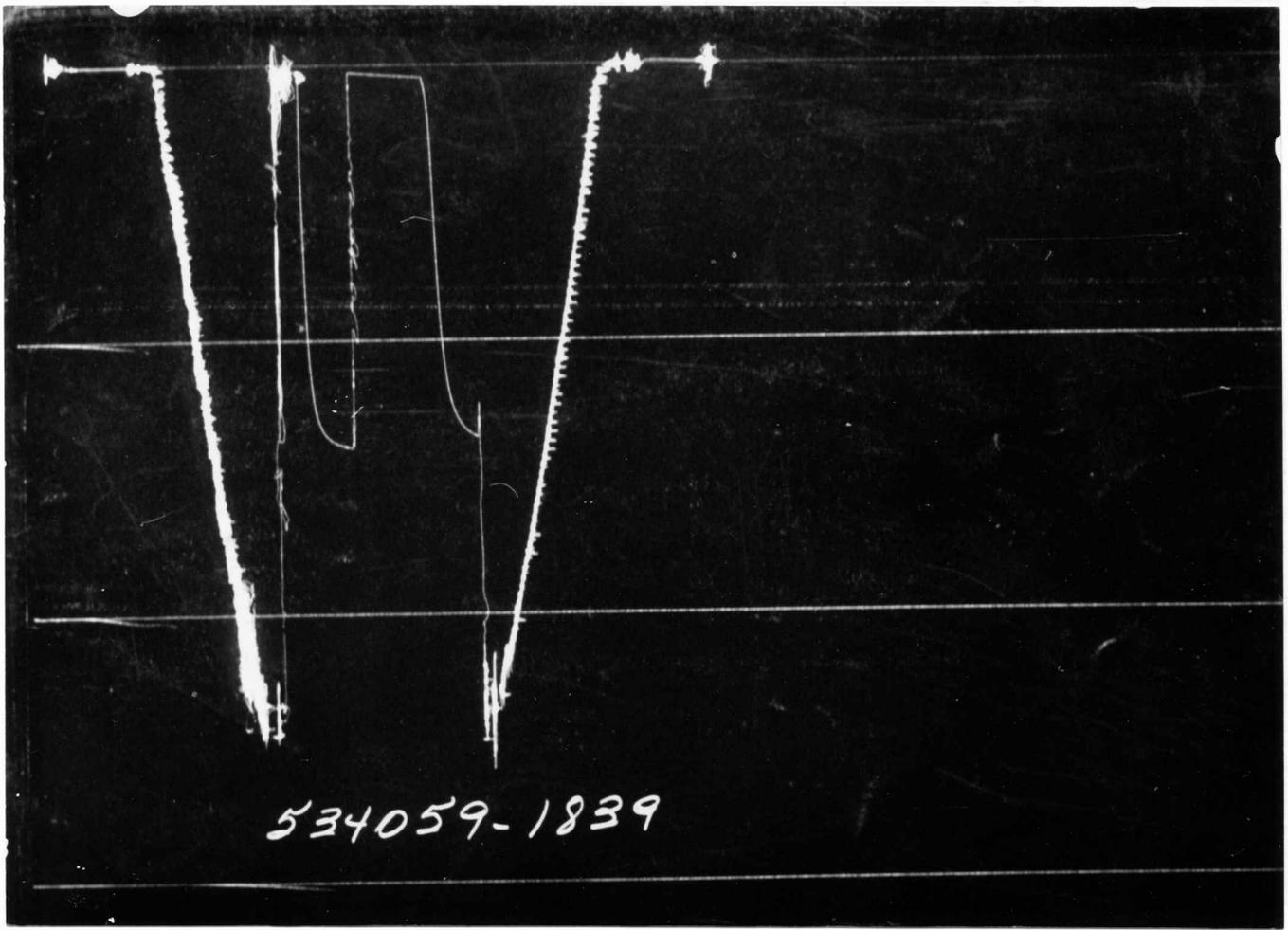
Flow Time	1st Min. 15	2nd Min. 45	Date	12-19-68	Ticket Number	534059 - S
Closed In Press. Time	1st Min. 30	2nd Min. 30	Kind of Job	OPEN HOLE	Halliburton District	GREAT BEND
Pressure Readings	Field	Office Corrected	Tester	MR. NUTTING	Witness	MR. WINES
Depth Top Gauge	4509Ft.	NO Blanked Off	Drilling Contractor	LEBEN DRILLING COMPANY	IC	
BT. P.R.D. No.	1839	12 Hour Clock	Elevation	-	Top Packer	-
Initial Hydro Mud Pressure	-	2348	Total Depth	4533'	Bottom Packer	4523'
Initial Closed in Pres.	-	1390	Interval Tested	4523' - 4533'	Formation Tested	MISSISSIPPI
Initial Flow Pres.	-	1 25	Casing or Hole Size	7 7/8"	Casing Perfs. {	Top
	-	2 30				Bot.
Final Flow Pres.	-	1 24	Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	-	1353	Size & Kind Drill Pipe	4 1/2"	Drill Collars Above Tester	I.D. - LENGTH
Final Hydro Mud Pressure	-	2343	Mud Weight	9.7	Mud Viscosity	47
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	116 °F Est.	Anchor Size & Length	ID 3.75" X 10' OD 5.00"
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHINGS	Depth of Tester Valve	4521' Ft.
Initial Hydro Mud Pres.			TYPE AMOUNT		Depth Back Pres. Valve	Ft.
			Cushion	-		
Initial Closed in Pres.			Recovered	68	Feet of	Slightly oil cut mud
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	4529Ft.	YES Blanked Off	Gas Gravity	-	Surface Pressure	psi
BT. P.R.D. No.	1838	12 Hour Clock	Tool Opened	6:50 PM	A.M. P.M. Tool Closed	8:50 PM A.M. P.M.
Initial Hydro Mud Pres.	2393	2362	Remarks	Opened tool for 15 minute 1st flow with a		
Initial Closed in Pres.	1393	1398		weak blow. Closed tool for 30 minute initial		
Initial Flow Pres.	- 1 105			closed in pressure. Reopened tool for 45 minute		
Final Flow Pres.	37 2 37			2nd flow with a weak blow. Closed tool for 30		
Final Closed in Pres.	- 1 182			minute final closed in pressure.		
Final Hydro Mud Pres.	55 2 53					
Final Closed in Pres.	1357	1358				
Final Hydro Mud Pres.	2393	2353				

Legal Location Sec. - Twp. - Rng. SEC. 25 - 22 - 21 NE/SW Field Area WILDGAT County HODGEMAN State KANSAS
 Lease Name NICHOLS Well No. 1 Test No. 2 Lease Owner/Company Name CITIES SERVICE OIL COMPANY Owner's District KANSAS

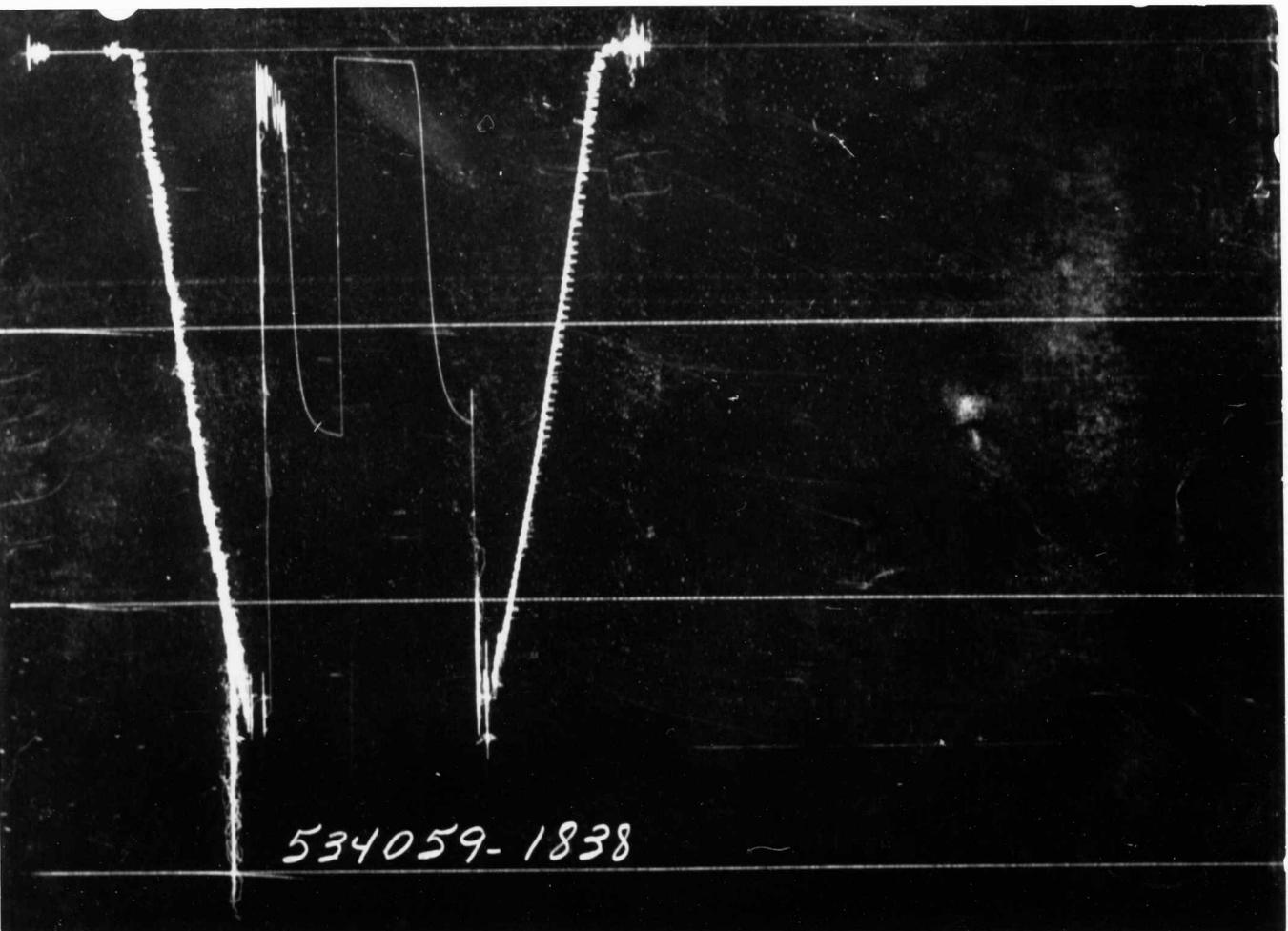
FORMATION TEST DATA

Gauge No.		1839		Depth		4509'		Clock		12 hour		Ticket No.		534059	
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	25	.000		24	.000	30	.000		46					
P ₁	.100	24	.0198		941	.059	32	.0202		177					
P ₂			.0396		1192	.118	36	.0404		579					
P ₃	PLUGGING		.0594		1289	.177	39	.0606		952					
P ₄			.0792		1331	.236	43	.0808		1136					
P ₅			.0990		1353	.295	46	.1010		1229					
P ₆			.1188		1367			.1212		1279					
P ₇			.1386		1376			.1414		1309					
P ₈			.1584		1383			.1616		1329					
P ₉			.1782		1387			.1818		1342					
P ₁₀			.1980		1390			.2020		1353					
Gauge No.		1838		Depth		4529'		Clock		12 hour					
P ₀	.000	105	.000		182	.000	37	.000		53					
P ₁	.106	182	.0207		904	.0614	39	.0214		160					
P ₂			.0414		1184	.1228	43	.0428		551					
P ₃	PLUGGING		.0621		1289	.1842	47	.0642		945					
P ₄			.0828		1335	.2456	49	.0856		1131					
P ₅			.1035		1359	.3070	53	.1070		1231					
P ₆			.1242		1375			.1284		1283					
P ₇			.1449		1384			.1498		1313					
P ₈			.1656		1390			.1712		1335					
P ₉			.1863		1396			.1926		1348					
P ₁₀			.2070		1398			.2140		1358					
Reading Interval			3			9			3			Minutes			
REMARKS:															

SPECIAL PRESSURE DATA //



534059-1839



534059-1838

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

Flow Time	1st Min. 15	2nd Min. 45	Date	12-20-68	Ticket Number	534060-S
Closed In Pres. Time	1st Min. 30	2nd Min. 32	Kind of Job	Open hole	Halliburton District	Great Bend
Pressure Readings	Field	Office Corrected	Tester	C. L. Nutting	Witness	Mr. Wines
Depth Top Gauge	4530 Ft.	no Blanked Off	Drilling Contractor	LEBEN DRILLING COMPANY #5	sm	
BT. P.R.D. No.	1839	12 Hour Clock	Elevation	--	Top Packer	--
Initial Hydro Mud Pressure	-	2349	Total Depth	4545'	Bottom Packer	4533'
Initial Closed in Pres.	-	1358	Interval Tested	4533-45'	Formation Tested	Mississippi
Initial Flow Pres.	-	1 24	Casing or Hole Size	7 7/8"	Casing Perfs.	Top Bet.
Final Flow Pres.	-	1 46	Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	-	2 117	Size & Kind Drill Pipe	4 1/2"	Drill Collars Above Tester	none
Final Hydro Mud Pressure	-	1283	Mud Weight	9.7	Mud Viscosity	47
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	116	*F Est. Anchor Size & Length	ID 3.75" OD 5.00" X 12'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Kelly bushing	Depth of Tester Valve	4521' Ft.
Initial Hydro Mud Pres.			TYPE AMOUNT		Depth Back Pres. Valve	Ft.
Initial Closed in Pres.			Cushion			
Initial Flow Pres.	1		Recovered	40 Feet of	thin slightly oil cut mud	Mea. From Tester Valve
Final Flow Pres.	2		Recovered	60 Feet of	watery mud	
Initial Flow Pres.	1		Recovered	120 Feet of	muddy water	
Final Flow Pres.	2		Recovered	Feet of		
Final Closed in Pres.			Oil A.P.I. Gravity		Water Spec. Gravity	
Depth Bot. Gauge	4541 Ft.	yes Blanked Off	Gas Gravity		Surface Pressure	psi
BT. P.R.D. No.	1838	12 Hour Clock	Tool Opened	A.M. P.M.	Tool Closed	A.M. P.M.
Initial Hydro Mud Pres.	2393	2353	Remarks Tool opened with a weak to fair blow for			
Initial Closed in Pres.	1366	1364	a 15 minute first flow. Closed for a 30 minute			
Initial Flow Pres.	37	1 69	initial closed in pressure. Tool reopened with			
Final Flow Pres.	55	2 63	a fair blow. Took a 32 minute final closed in			
Final Closed in Pres.	128	2 123	pressure.			
Final Hydro Mud Pres.	2393	2343				

Legal Location Sec. - Twp. - Rng. NE SW 25 22 21
 Lease Name NICHOLS
 Well No. 1
 Test No. 3
 Field Area WILD CAT
 County HODGEMAN
 State KANSAS
 Owner's District
 CITY SERVICE OIL COMPANY
 Lease Owner/Company Name

FORMATION TEST DATA

6

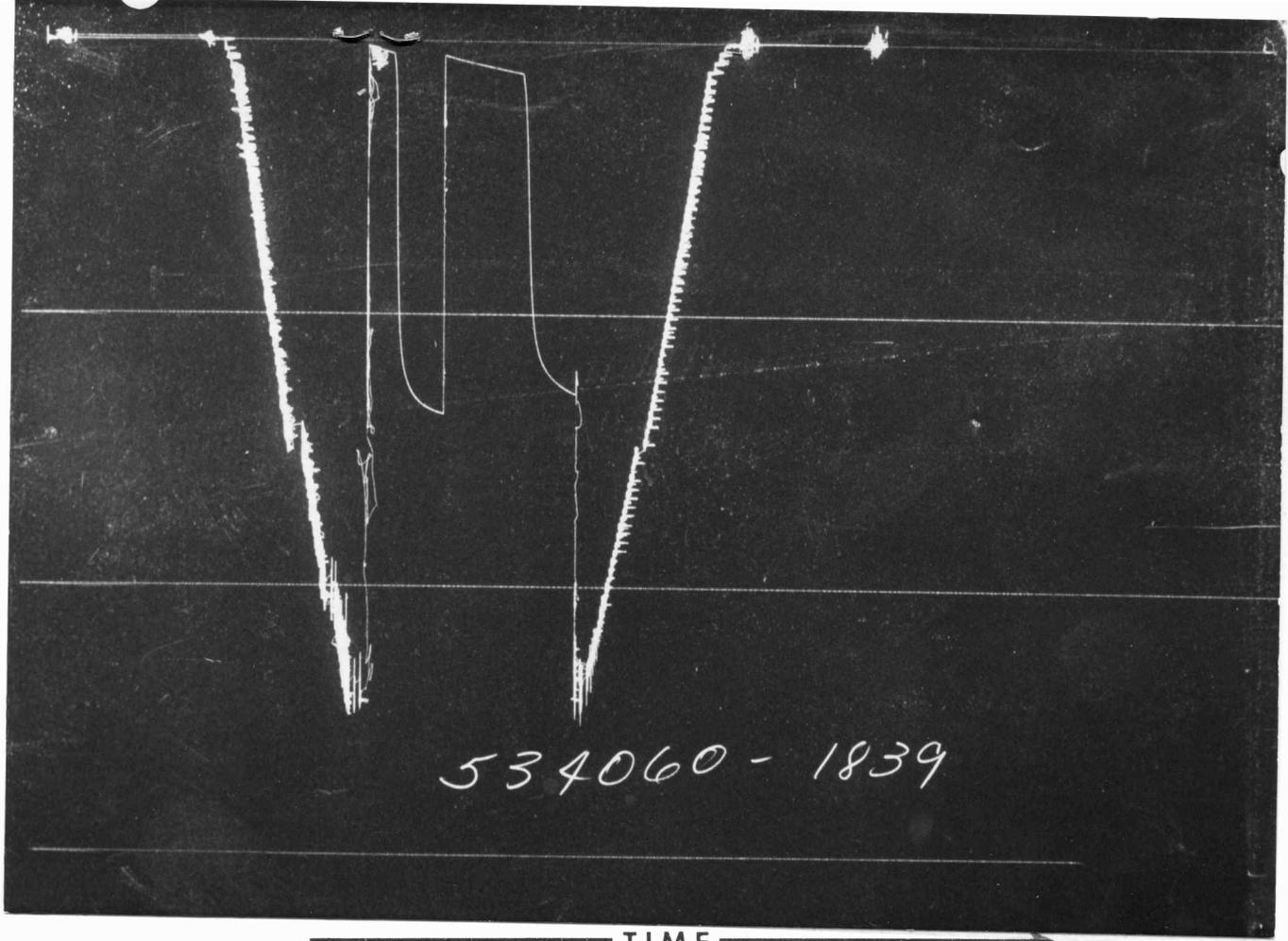
Gauge No. 1839		Depth 4530'		Clock 12 hour		Ticket No. 534060				
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P ₀	.000	24	.000		46	.000	55	.000		117
P ₁	.0204	UTR	.021		703	.0636	68	.0276		601
P ₂	.0408	31	.042		1156	.1272	80	.0552		1071
P ₃	.0612	36	.063		1244	.1908	95	.0828		1167
P ₄	.0816	40	.084		1283	.2544	105	.1104		1213
P ₅	.1020	46	.105		1309	.3180	117	.1380		1239
P ₆			.126		1326			.1656		1258
P ₇			.147		1338			.1932		1272
P ₈			.168		1347			.2208		1283
P ₉			.189		1353					
P ₁₀			.2010		1358					

Gauge No. 1838		Depth 4541'		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	69	.000		54	.000	63	.000		123
P ₁	.0182	UTR	.0209		723	.061	75	.027		607
P ₂	.0364	45	.0418		1160	.122	89	.054		1069
P ₃	.0546	46	.0627		1247	.183	101	.081		1173
P ₄	.0728	49	.0836		1288	.244	112	.108		1218
P ₅	.0910	54	.1045		1314	.305	123	.135		1244
P ₆			.1254		1331			.162		1263
P ₇			.1463		1342			.189		1278
P ₈			.1672		1352			.216		1289
P ₉			.1881		1359					
P ₁₀			.2090		1364					
Reading Interval 3		3		9		4			Minutes	
REMARKS: UTR-Unable to read										

SPECIAL PRESSURE DATA

6

PRESSURE



TIME



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