

Flow Time	1st Min. 15	2nd Min. 45	Date	4-12-68	Ticket Number	423544 - S
Closed In Pres. Time	1st Min. 20	2nd Min. 20	Kind of Job	OPEN HOLE	Halliburton District	HAYS
Pressure Readings	Field	Office Corrected	Tester	MR. HUGHES	Witness	MR. WAITE
Depth Top Gauge	3641 Ft.	Blanked Off NO	Drilling Contractor	RED TIGER DRILLING COMPANY	IC	
BT. P.R.D. No.	366	Hour Clock 12	Elevation	-	Top Packer	3646'
Initial Hydro Mud Pressure	-	1824	Total Depth	3660'	Bottom Packer	3651'
Initial Closed in Pres.	-	1263	Interval Tested	3651'-3660'	Formation Tested	LOWER KANSAS CITY
Initial Flow Pres.	-	1 8 2 34	Casing or Hole Size	7 7/8"	Casing Perfs. } Top Bot.	-
Final Flow Pres.	-	1 32 2 87	Surface Choke	1/4"	Bottom Choke	3/4"
Final Closed in Pres.	-	1165	Size & Kind Drill Pipe	4 1/2" FH & XH	Drill Collars Above Tester	I.D. - LENGTH 1142' FLEX WT.
Final Hydro Mud Pressure	-	1810	Mud Weight	9.5	Mud Viscosity	42
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	-	Anchor Size ID & Length	3.76" X 9'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHINGS	Depth of Tester Valve	3629' Ft.
Initial Hydro Mud Pres.			Cushion	-	Depth Back Pres. Valve	-
Initial Closed in Pres.			Recovered	160	Feet of Watery mud	
Initial Flow Pres.	1		Recovered		Feet of	
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	3657 Ft.	Blanked Off YES	Gas Gravity	-	Surface Pressure	- psi
BT. P.R.D. No.	191	Hour Clock 12	Tool Opened	9:50 AM	Tool Closed	11:30 AM
Initial Hydro Mud Pres.	1906	1859	Remarks Opened tool for 15 minute 1st flow with a			
Initial Closed in Pres.	1274	1273	weak blow. Closed tool for 20 minute initial			
Initial Flow Pres.	20 1 16 28 2 47		closed in pressure. Reopened tool for 45 minute			
Final Flow Pres.	28 1 36 89 2 94		2nd flow with a weak to fair blow. Closed tool			
Final Closed in Pres.	1172	1176	for 20 minute final closed in pressure.			
Final Hydro Mud Pres.	1886	1820				

Legal Location Sec. 13 - 14 - 21
 Lease Name LARK Lueq
 Well No. 1
 Test No. 1
 Field Area
 County TREGO
 State KANSAS
 Lease Owner/Company Name SOLAR OIL COMPANY
 Owner's District WICHITA

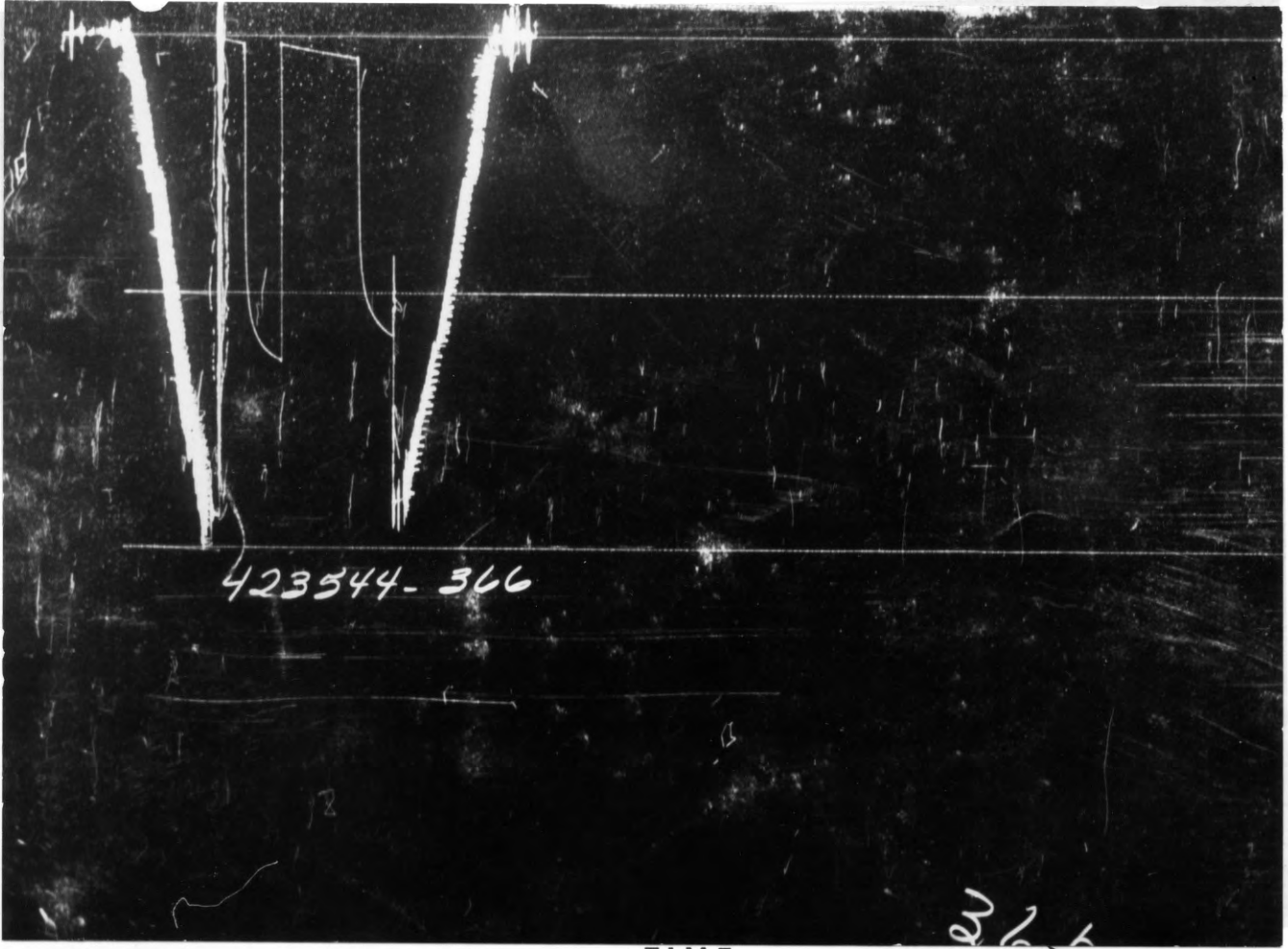
FORMATION TEST DATA

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Gauge No.		366		Depth		3641'		Clock		12 hour		Ticket No.		423544	
First Flow Period			Initial Closed In Pressure			Second Flow Period			Final Closed In Pressure						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\oplus}{\ominus}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\oplus}{\ominus}$	PSIG Temp. Corr.					
P ₀	.000	8	.000		32	.000	34	.000		87					
P ₁	.020	13	.0145		1000	.0596	46	.0138		876					
P ₂	.040	19	.0290		1104	.1192	57	.0276		986					
P ₃	.060	24	.0435		1153	.1788	67	.0414		1039					
P ₄	.080	27	.0580		1185	.2384	77	.0552		1072					
P ₅	.100	32	.0725		1207	.2980	87	.0690		1098					
P ₆			.0870		1225			.0828		1116					
P ₇			.1015		1237			.0966		1132					
P ₈			.1160		1248			.1104		1145					
P ₉			.1305		1255			.1242		1156					
P ₁₀			.1450		1263			.1380		1165					
Gauge No.		191		Depth		3657'		Clock		12 hour					
P ₀	.000	16	.000		36	.000	47	.000		94					
P ₁	.0184	21	.015		999	.0608	52	.0152		846					
P ₂	.0368	25	.030		1109	.1216	63	.0304		998					
P ₃	.0552	29	.045		1161	.1824	75	.0456		1028					
P ₄	.0736	33	.060		1193	.2432	85	.0608		1070					
P ₅	.0920	36	.075		1217	.3040	94	.0760		1100					
P ₆			.090		1234			.0912		1122					
P ₇			.105		1247			.1064		1140					
P ₈			.120		1257			.1216		1154					
P ₉			.135		1266			.1368		1166					
P ₁₀			.150		1273			.1520		1176					
Reading Interval	3		2		9		2		Minutes						
REMARKS:															

SPECIAL PRESSURE DATA

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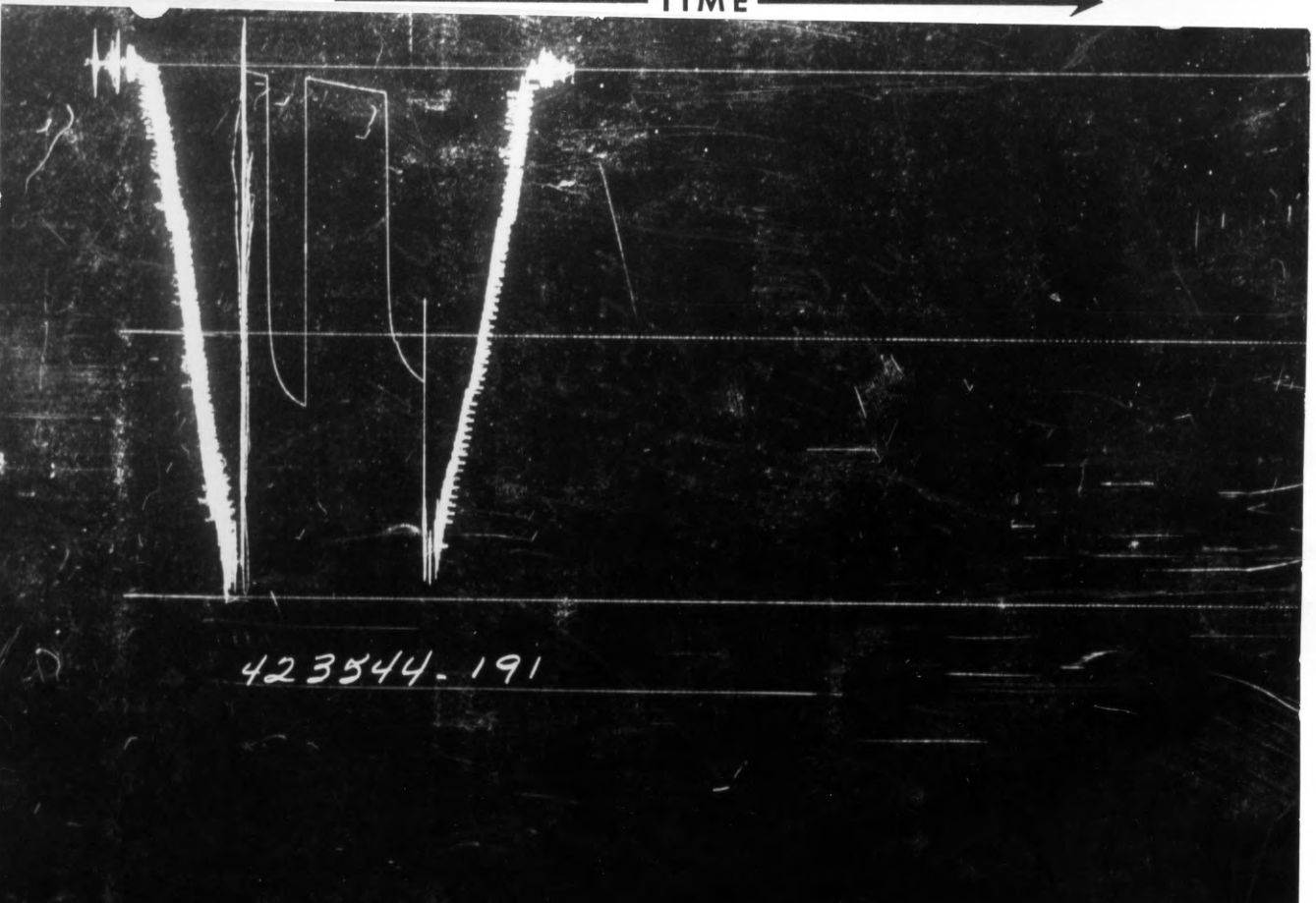


423544-366

PRESSURE

TIME

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423544-191

PRESSURE

TIME

TEMPERATURE
RECORDER
CHART



10° each circle

Flow Time	1st Min. 15	2nd Min. 15	Date	4-14-68	Ticket Number	508833
Closed In Press. Time	1st Min. 15	2nd Min. 20	Kind of Job	OPEN HOLE	Halliburton District	HAYS
Pressure Readings	Field	Office Corrected	Tester	BERENS	Witness	WATTE
Depth Top Gauge	3941' Ft.	Blanked Off NO	Drilling Contractor	RED TIGER DRILLING COMPANY		
BT. P.R.D. No.	294	12 Hour Clock	Elevation	2233' K.B.	Top Packer	3951'
Initial Hydro Mud Pressure		2078	Total Depth	3962'	Bottom Packer	3956'
Initial Closed in Pres.		15	Interval Tested	3956' - 3962'	Formation Tested	ARBUCKLE
Initial Flow Pres.	1	9	Casing or Hole Size	7 7/8"	Casing } Top	-
	2	12			Casing } Bot.	-
Final Flow Pres.	1	9	Surface Choke	1/4"	Bottom Choke	3/4"
Final Closed in Pres.		13	Size & Kind Drill Pipe	4 1/2" API	Drill Collars Above Tester	I.D. - LENGTH 2 1/2" x 1110'
Final Hydro Mud Pressure		2016	Mud Weight	9.8	Mud Viscosity	42
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	106	Anchor Size & Length	ID 3.75" OD 5" X 6'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHING	Depth of Tester Valve	- Ft.
Initial Hydro Mud Pres.			Cushion	NONE	Depth Back Pres. Valve	NONE Ft.
Initial Closed in Pres.			Recovered	6' Feet of mud		
Initial Flow Pres.	1		Recovered	Feet of		
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	3958' Ft.	Blanked Off YES	Gas Gravity		Surface Pressure	psi
BT. P.R.D. No.	374	12 Hour Clock	Tool Opened	6:15 PM	A.M. P.M. Tool Closed	7:20 PM A.M. P.M.
Initial Hydro Mud Pres.	-	2081	Remarks	Tool opened for a 15 minute first flow.		
Initial Closed in Pres.	15	24	Rotated tool for a 15 minute initial closed in			
Initial Flow Pres.	20	1 17	pressure. Tool reopened with a very weak blow for			
Final Flow Pres.	-	1 17	10 minutes. Took a 20 minute final closed in			
Final Closed in Pres.	15	2 20	pressure.			
Final Hydro Mud Pres.	-	2048				

Legal Location Sec. - Twp. - Rng. 13 - 14S - 21W

Lease Name LUGA

Well No. 1

Test No. 2

Field Area

County TREGO

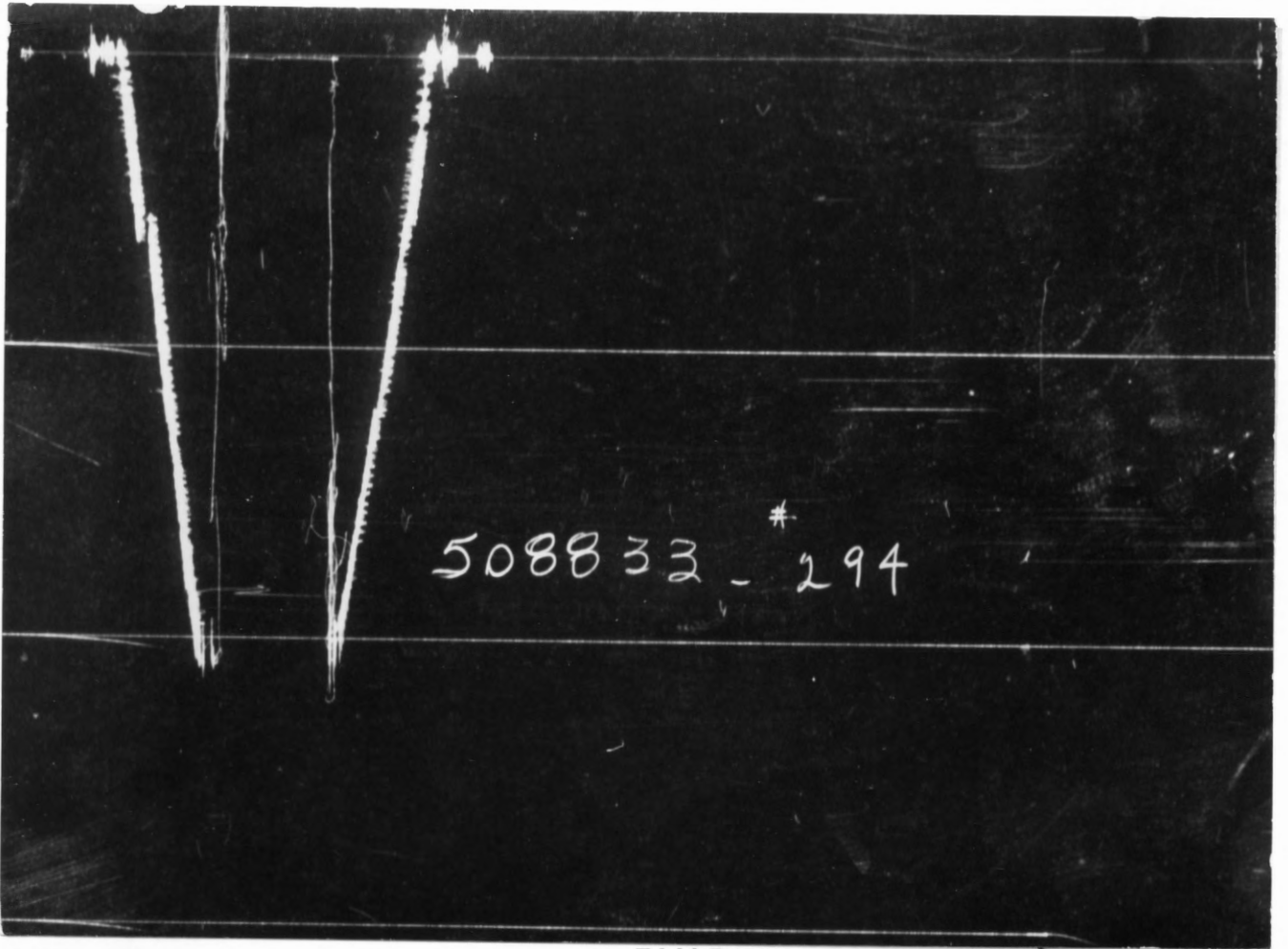
State KANSAS

Lease Owner/Company Name SOLAR OIL COMPANY

Owner's District WICHITA, KANSAS

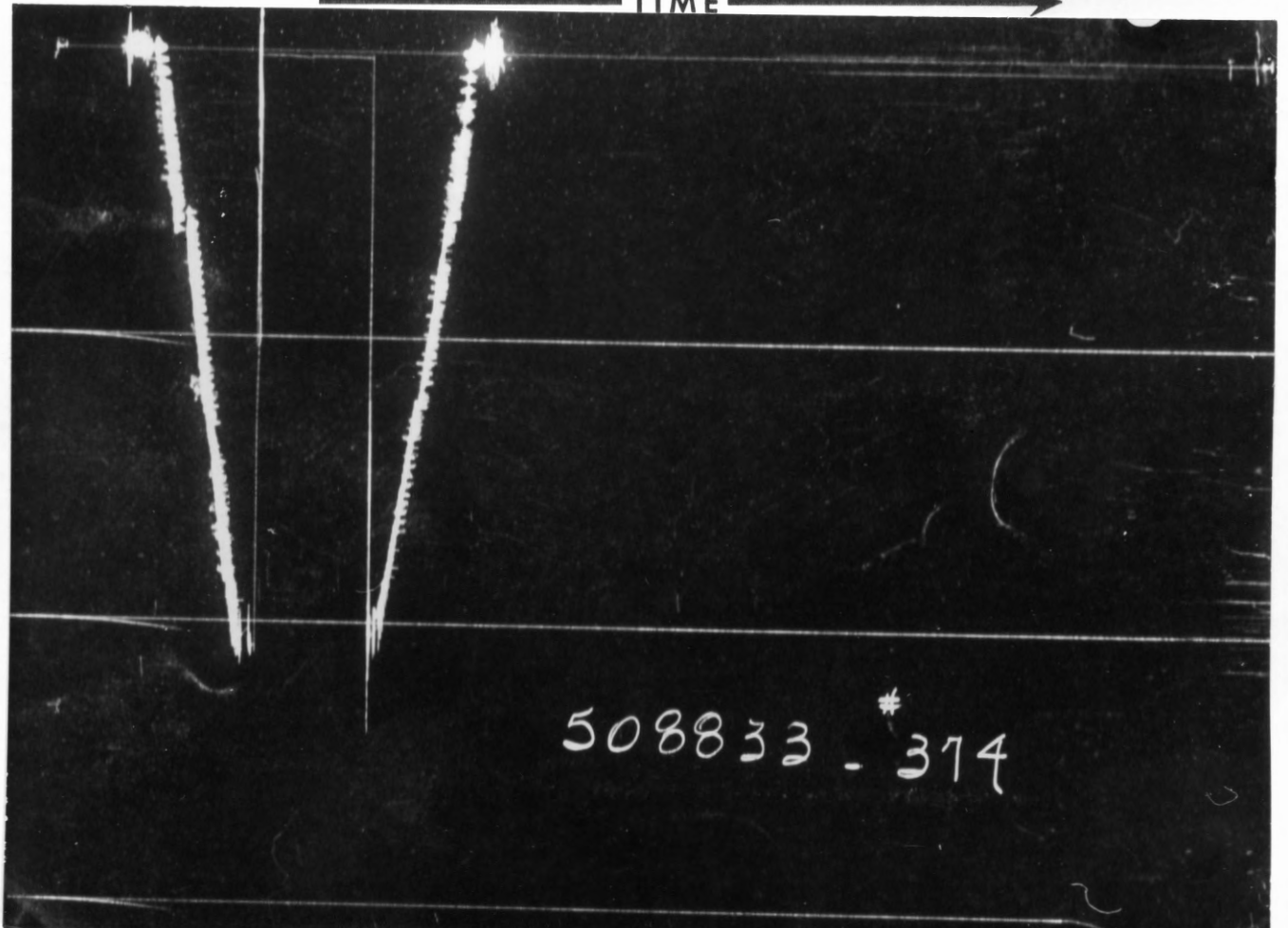
FORMATION TEST DATA

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↑
PRESSURE
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← TIME →



Flow Time	1st 15 Min.	2nd 30 Min.	Date	4-15-68	Ticket Number	508834 -S
Closed In Press. Time	1st 15 Min.	2nd 20 Min.	Kind of Job	OPEN HOLE	Halliburton District	HAYS, KS.
Pressure Readings	Field	Office Corrected	Tester	BERENS	Witness	WAITE
Depth Top Gauge	3960' Ft.	Blanked NO Off	Drilling Contractor	RED TIGER DRILLING COMPANY		
BT. P.R.D. No.	294	12 Hour Clock	Elevation	2233' K.B.	Top Packer	3954'
Initial Hydro Mud Pressure		2086	Total Depth	3974'	Bottom Packer	3958'
Initial Closed in Pres.		900	Interval Tested	3958' - 3974'	Formation Tested	ARBUCKLE
Initial Flow Pres.		1 21	Casing or Hole Size	7 7/8"	Casing } Top	-
		2 30			Casing } Bot.	-
Final Flow Pres.		1 21	Surface Choke	1/2"	Bottom Choke	3/4"
Final Closed in Pres.		2 24	Size & Kind Drill Pipe	4 1/2" API	Drill Callars Above Tester	I.D. - LENGTH 2 1/2" x 1110'
Final Hydro Mud Pressure		2023	Mud Weight	9.8	Mud Viscosity	42
Depth Cen. Gauge		Blanked Off	Temperature	3969' @ 104°F Actual	Anchor Size ID & Length	3.75" OD 5" x 16'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHING	Depth of Tester Valve	- Ft.
Initial Hydro Mud Pres.			Cushion	TYPE AMOUNT NONE	Depth Back Pres. Valve	- Ft.
Initial Closed in Pres.			Recovered	15' Feet of mud	Mud. from Tester Valve	
Initial Flow Pres.			Recovered	4' Feet of free oil		
Final Flow Pres.			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	3970' Ft.	Blanked YES Off	Gas Gravity		Surface Pressure	psi
BT. P.R.D. No.	374	12 Hour Clock	Tool Opened	4:40 AM	Tool Closed	6:00 AMP.M.
Initial Hydro Mud Pres.		2092	Remarks	Tool opened for a 15 minute first flow.		
Initial Closed in Pres.	900	903	Rotated tool for a 15 minute initial closed in			
Initial Flow Pres.	20	1 23	pressure. Tool reopened with a very weak blow for			
Final Flow Pres.	-	2 34	35 minutes. Took a 20 minute final closed in pres			
Final Closed in Pres.	400	420	ure.			
Final Hydro Mud Pres.		2055				

Legal Location Sec. - Twp. - Rng. 13 - 14 - 21

Lease Name IDEX LUGA

Well No. 1

Test No. 3

Field Area

County TREGO

Lease Owner/Company Name SOLAR OIL COMPANY

State KANSAS

Owner's District WIGHTLA, KANSAS

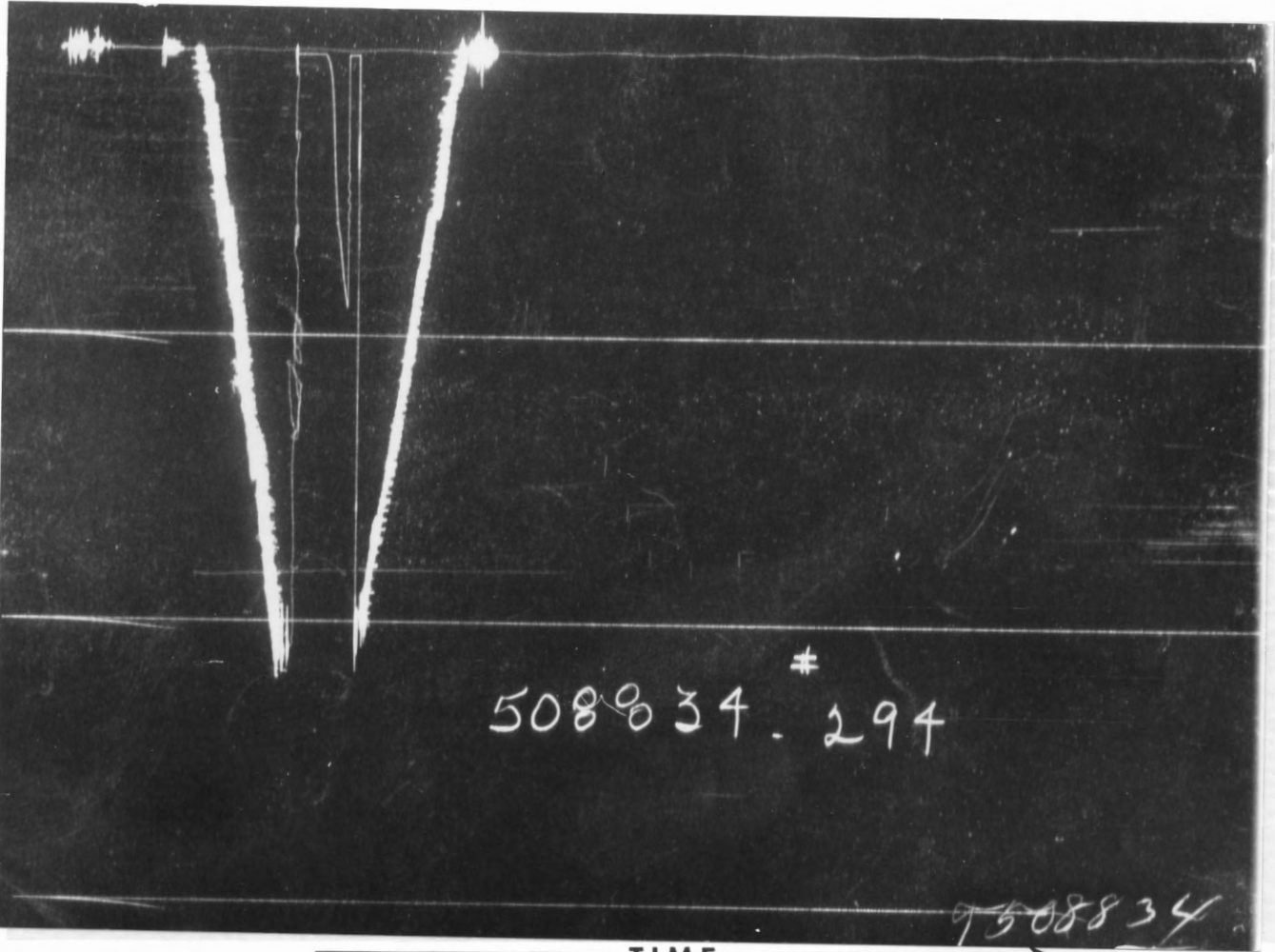
FORMATION TEST DATA

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Gauge No.		294		Depth		3960'		Clock		12 hour		Ticket No.		508834	
First Flow Period			Initial Closed In Pressure			Second Flow Period			Final Closed In Pressure						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \odot}{\ominus}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \odot}{\ominus}$	PSIG Temp. Corr.					
P ₀	.000	21	.000		21	.000	30								
P ₁	.114	21	.0098		32	.041	24 *								
P ₂			.0196		58										
P ₃			.0294		136					CLOCK					
P ₄			.0392		299					STOPPED....					
P ₅			.0490		497										
P ₆			.0588		631										
P ₇			.0686		701										
P ₈			.0784		782										
P ₉			.0882		849										
P ₁₀			.098		900										
Gauge No.		374		Depth		3970'		Clock		12 hour					
P ₀	.000	23	.000		24	.000	34	.000		29					
P ₁	.107	24	.0093		44	.198	29	.132		420					
P ₂			.0186		91										
P ₃			.0279		182										
P ₄			.0372		336										
P ₅			.0465		555										
P ₆			.0558		654										
P ₇			.0651		723										
P ₈			.0744		806										
P ₉			.0837		869										
P ₁₀			.093		903										
Reading Interval			1.5						Minutes						
REMARKS:			* READ AT THE END OF APPROXIMATELY 6½ MINUTES WHEN CLOCK STOPPED.												

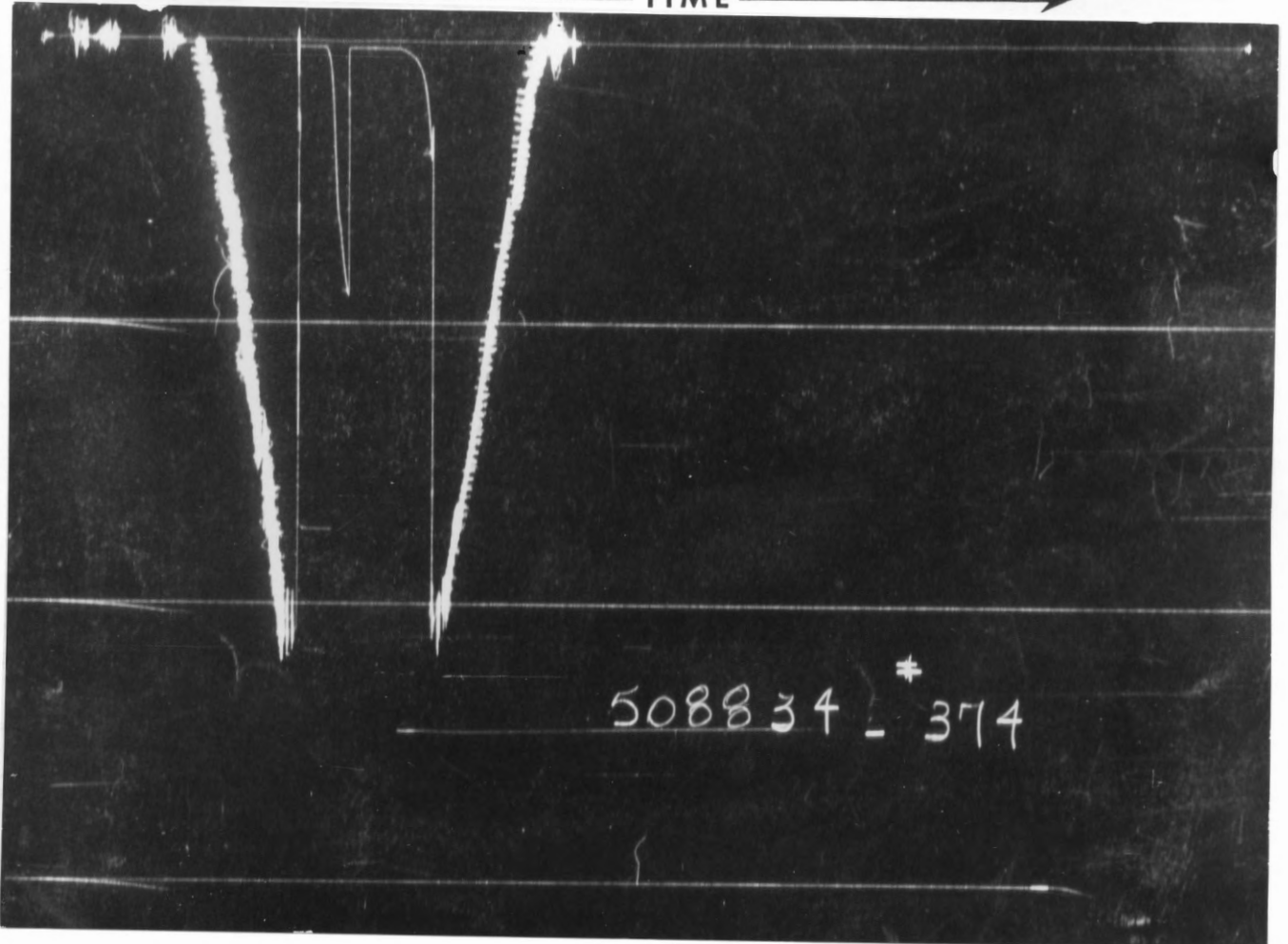
SPECIAL PRESSURE DATA

5



PRESSURE

TIME



TEMPERATURE
RECORDER
CHART



10° each circle