

Flow Time	1st Min.	2nd Min.	Date	Ticket Number	Legal Location
15		50	1-27-69	084329 -A -S	Sec. - Twp. - Rng.
Closed In Pres. Time	1st Min.	2nd Min.	Kind of Job	Halliburton District	Well No.
30		45	OPEN HOLE	PRATT	1
Pressure Readings	Field	Office Corrected	Tester	Witness	Test No.
			THOMPSON	THRASHER	1
Depth Top Gauge	3680' Ft.	NO Blanked Off	Drilling Contractor	Elevation	Top Packer
			H-30, INC.	1876' D.F.	3690'
BT. P.R.D. No.	534	12 Hour Clock	Total Depth	Bottom Packer	3695'
			3725'		
Initial Hydro Mud Pressure	1979	2053	Interval Tested	Formation Tested	KANSAS CITY
			3695' - 3725'		
Initial Flow Pres.	29	1 54	Casing or Hole Size	Casing } Top	-
	48	2 91	7 7/8"	Perfs. } Bot.	-
Final Flow Pres.	48	1 46	Surface Choke	Bottom Choke	3/4
	105	2 99	1"		
Final Closed in Pres.	1025	1016	Size & Kind Drill Pipe	Drill Collars Above Tester	I.D. - LENGTH
			4 1/2" F.H.	-	
Final Hydro Mud Pressure	1960	1990	Mud Weight	Mud Viscosity	47
			9.9		
Depth Cen. Gauge		Blanked Off	Temperature	Anchor Size & Length	ID 3.37" X 30'
			106		OD 5"
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Depth of Tester Valve	3670' Ft.
			KELLY BUSHING		
Initial Hydro Mud Pres.			Cushion	Depth Back Pres. Valve	- Ft.
			NONE		
Initial Closed in Pres.			Recovered	Feet of heavy oil & gas cut mud	190'
Initial Flow Pres.	1		Recovered	Feet of	
	2				
Final Flow Pres.	1		Recovered	Feet of	
	2				
Final Closed in Pres.			Recovered	Feet of	
Final Hydro Mud Pres.			Oil A.P.I. Gravity	Water Spec. Gravity	
Depth Bot. Gauge	3721' Ft.	YES Blanked Off	Gas Gravity	Surface Pressure	psi
BT. P.R.D. No.	533	12 Hour Clock	Tool Opened	A.M. P.M.	Tool Closed
			16:20 FM		17:55 P.M.
Initial Hydro Mud Pres.	1979	2053	Remarks	On bottom @ 16:18 - tool opened @ 16:20	
Initial Closed in Pres.	1101	1100	with a good blow for a 15 minute first flow. Tool		
			closed @ 16:35 for a 30 minute initial closed in		
Initial Flow Pres.	29	1 53	pressure. Tool reopened @ 17:05 with a good blow.		
	48	2 88	Gas to the surface in 45 minutes - not enough to		
Final Flow Pres.	48	1 49	measure. Tool closed @ 17:55 for a 45 minute final		
	105	2 103	closed in pressure. Off bottom @ 18:40...		
Final Closed in Pres.	1025	1018			
Final Hydro Mud Pres.	1960	2000			

DICKMAN

Lease Name

5-27-12

Well No.

Test No.

Field Area

TULKE - GARMIT

County

PRATT

State

KANSAS

GEORGE J. ARIAH

Lease Owner/Company Name

KANSAS

Owner's District

FORMATION TEST DATA

Gauge No. 534		Depth 3680'			Clock 12 hour		Ticket No. 084329 - A			
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 <sub>0</sub>	.000	54	.000	-----	46	.000	91	.000	-----	99
P <sub>1</sub>	.0136	33	.0202	.640	233	.0746	77	.031	1.182	274
P <sub>2</sub>	.0272	36	.0404	.428	433	.1492	82	.062	.909	492
P <sub>3</sub>	.0408	40	.0606	.326	618	.2238	87	.093	.759	658
P <sub>4</sub>	.0544	43	.0808	.265	780	.2984	93	.124	.658	769
P <sub>5</sub>	.068	46	.1010	.223	885	.373	99	.155	.584	842
P <sub>6</sub>			.1212	.193	955			.186	.527	892
P <sub>7</sub>			.1414	.170	1004			.217	.481	934
P <sub>8</sub>			.1616	.152	1043			.248	.443	968
P <sub>9</sub>			.1818	.138	1073			.279	.411	994
P <sub>10</sub>			.202	.126	1098			.310	.384	1016

Gauge No. 533		Depth 3721'			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 <sub>0</sub>	.000	53	.000	-----	49	.000	88	.000	-----	103
P <sub>1</sub>	.0136	40	.0194	.653	220	.0712	77	.0298	1.182	281
P <sub>2</sub>	.0272	41	.0388	.439	414	.1424	84	.0596	.909	490
P <sub>3</sub>	.0408	44	.0582	.336	606	.2136	89	.0894	.759	657
P <sub>4</sub>	.0544	47	.0776	.273	762	.2848	95	.1192	.658	769
P <sub>5</sub>	.068	49	.0970	.230	869	.356	103	.1490	.584	835
P <sub>6</sub>			.1164	.199	944			.1788	.527	891
P <sub>7</sub>			.1358	.176	996			.2086	.481	932
P <sub>8</sub>			.1552	.157	1037			.2384	.443	966
P <sub>9</sub>			.1746	.142	1072			.2682	.411	994
P <sub>10</sub>			.194	.130	1100			.298	.384	1018
Reading Interval 3		3			10		4.5			Minutes

REMARKS:

TICKET NO.

084329A

BT GAUGE NO.

INITIAL

FINAL

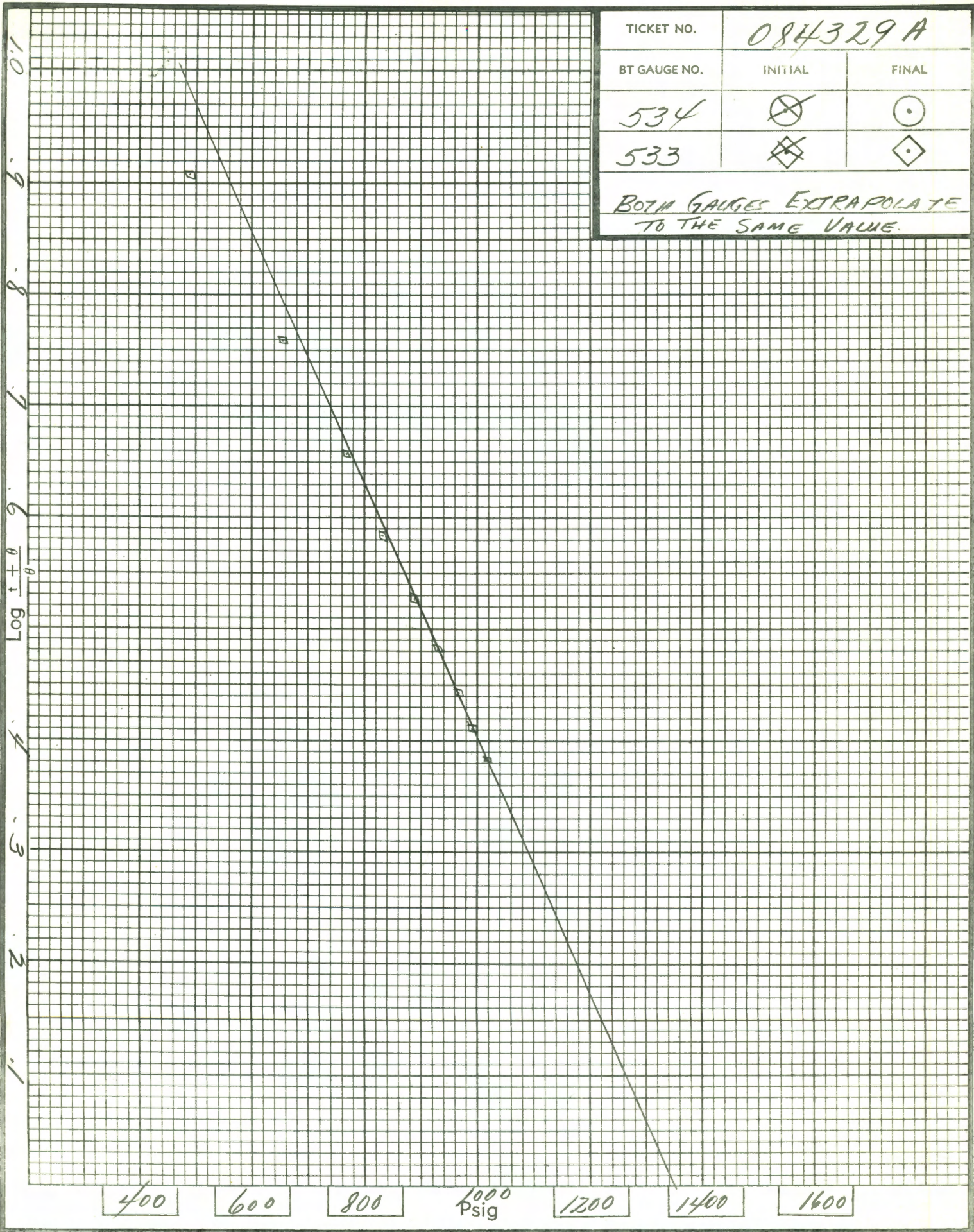
534



533



BOTH GAUGES EXTRAPOLATE  
TO THE SAME VALUE.



EXTRAPOLATED PRESSURE GRAPH

## Liquid Production

B.T. Gauge Numbers		534	533	Ticket Number	084329 A
Initial Hydrostatic		PRESSURE	PRESSURE	Elevation	1876 ft.
		2053	2053		
Final Hydrostatic		1990	2000	Indicated Production	1st Flow - bbls. day
1st Flow	Initial	Time	54	53	Total Flow 36 bbls. day
	Final	15	46	49	
Initial Closed In Pressure		30	1098	2053	Drill Collar Length 0 ft.
2nd Flow		Initial	91	88	Drill Collar I.D. 0 in.
		Final	50	99	103
Final Closed In Pressure		45	1016	1018	Drill Pipe Factor 0.01422 bbls. ft.
Extrapolated Static Pressure		Initial	-	-	Hole Size 7.875 in.
		Final	1355 *	1355 *	Footage Tested 30 ft.
Slope $\frac{psi}{cycle}$		Initial	-	-	Mud Weight 9.9 lbs. gal.
P-10		Final	475	475	Viscosity, Oil or Water 4.0 cp
					Oil API Gravity EST. 37°
					Water Specific Gravity -

Remarks: \* BOTH GAUGES EXTRAPOLATE TO APPROXIMATELY THE SAME VALUE..

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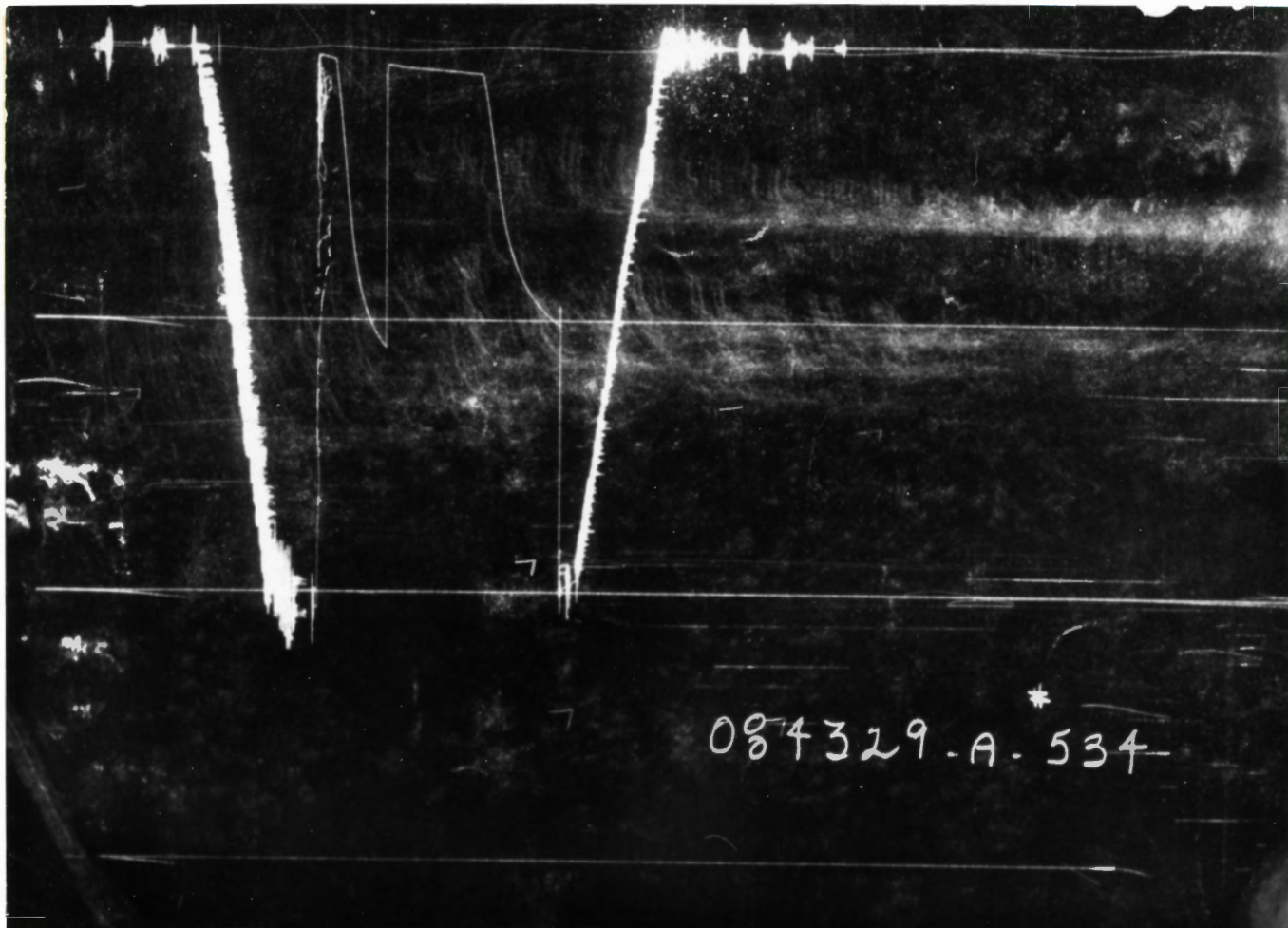
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### SUMMARY

Product	Equation	Gauge No. 534/ Depth 3680'		Gauge No. 533/ Depth 3721'		Units
		Initial	Final	Initial	Final	
Production	$Q = \frac{1440 R}{t}$		31.0		36.0	bbls. day
Transmissability	$\frac{Kh}{\mu} = \frac{162.6 Q}{m}$		5.72		6.76	$\frac{md. ft.}{cp}$
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$		22.88		27.04	md. ft.
Average Effective	$K = \frac{Kh}{h}$		0.763		0.901	md.
Permeability	$K_1 = \frac{Kh}{h_1}$		-		-	md.
Damage Ratio	$DR = .183 \frac{P_s - P_f}{m}$		0.3		0.3	-
Theoretical Potential w/Damage Removed	$Q_1 = Q DR$		31.		36	bbls. day
Approx. Radius of Investigation	$b \approx \sqrt{Kt}$ or $\sqrt{Kt_0}$		7.04		7.65	ft.
	$b_1 \approx \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$		-		-	ft.
Potentiometric Surface *	Pot. = EI - GD + 2.319 Ps		1338		1297	ft.

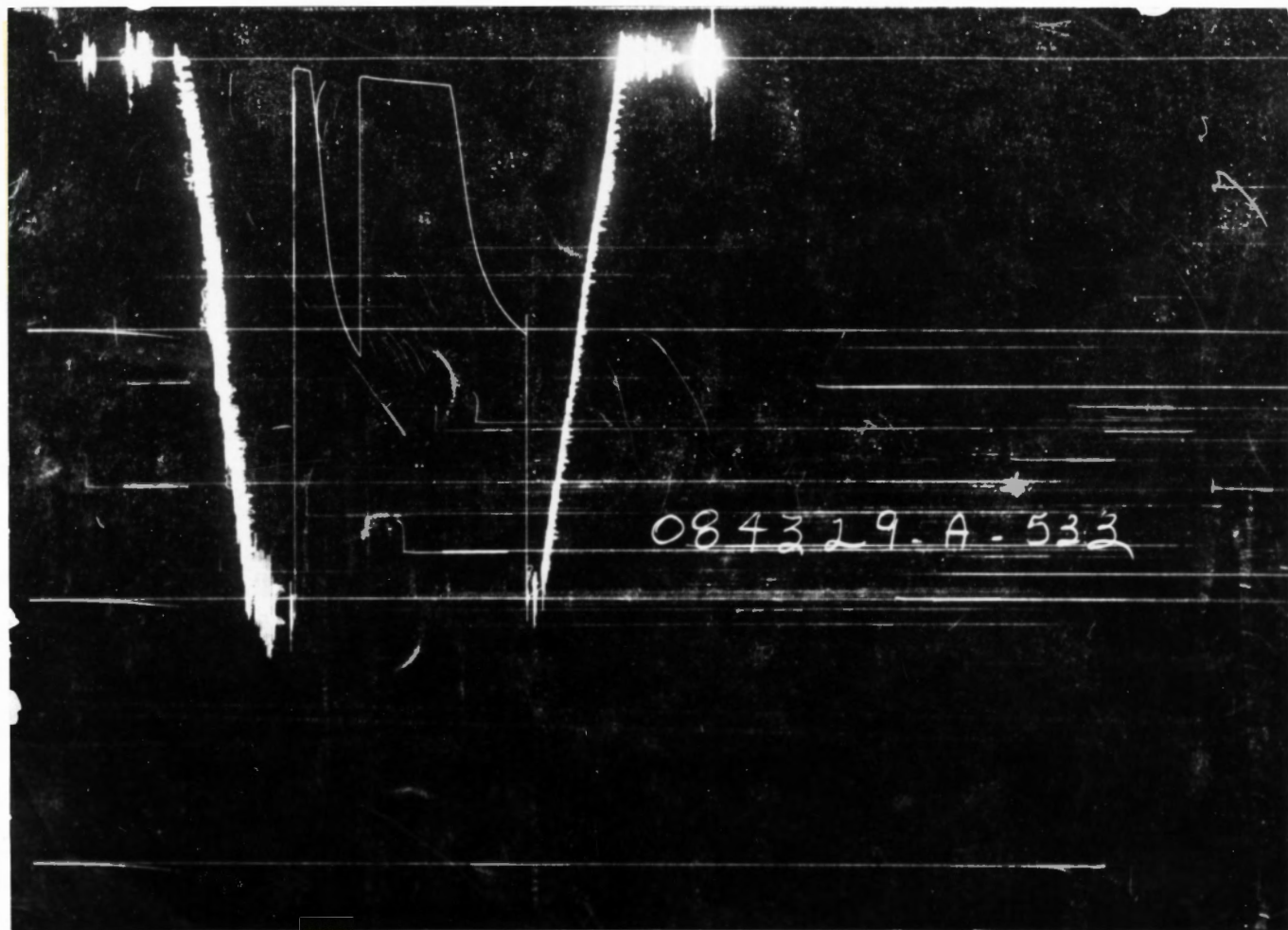
**NOTICE:** These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

↑ PRESSURE ↓



084329-A-534\*

TIME →



084329-A-533\*

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

Flow Time	1st 15	Min.	2nd 45	Min.	Date	1-28-69	Ticket Number	084329-B-S	Legal Location Sec. - Twp. - Rang. SEC. 5 - 27 - 12	Lease Name DICKMAN
Closed In Press. Time	1st 30	Min.	2nd 45	Min.	Kind of Job	OPEN HOLE	Halliburton District	PRATT		
Pressure Readings	Field		Office Corrected		Tester	MR. THOMPSON	Witness	MR. THRASHER		
Depth Top Gauge	3815	Ft.	NO	Blanked Off	Drilling Contractor	H-30 INCORPORATED	IC			
BT. P.R.D. No.	534		12	Hour Clock	Elevation	1876' D.F.	Top Packer	3825'		
Initial Hydro Mud Pressure	1960		2059		Total Depth	3845'	Bottom Packer	3830'		
Initial Closed in Pres.	580		557		Interval Tested	3830'-3845'	Formation Tested	KANSAS CITY		
Initial Flow Pres.	10	1	13		Casing or Hole Size	7 7/8"	Casing Perfs.	Top - Bot. -		
Final Flow Pres.	19	1	15		Surface Choke	1"	Bottom Choke	3/4"		
Final Closed in Pres.	38	2	27		Size & Kind Drill Pipe	4 1/2" F.H.	Drill Collars Above Tester	I.D. - LENGTH -		
Final Hydro Mud Pressure	1940		2030		Mud Weight	9.9	Mud Viscosity	36		
Depth Cen. Gauge		Ft.		Blanked Off	Temperature	107	Anchor Size & Length	ID 3.37" OD 5.00" X 15'		
BT. P.R.D. No.				Hour Clock	Depths Mea. From	KELLY BUSHINGS	Depth of Tester Valve	3805' Ft.		
Initial Hydro Mud Pres.					Cushion	-	Depth Back Pres. Valve	- Ft.		
Initial Closed in Pres.					Recovered	50	Feet of Mud			
Initial Flow Pres.		1			Recovered		Feet of			
Final Flow Pres.		2			Recovered		Feet of			
Final Closed in Pres.		1			Recovered		Feet of			
Final Hydro Mud Pres.		2			Recovered		Feet of			
Final Closed in Pres.					Oil A.P.I. Gravity		Water Spec. Gravity	-		
Depth Bot. Gauge	3841	Ft.	YES	Blanked Off	Gas Gravity	-	Surface Pressure	psi		
BT. P.R.D. No.	533		12	Hour Clock	Tool Opened	17:30	A.M. P.M.	Tool Closed	19:00	
Initial Hydro Mud Pres.	1960		2064		Remarks Opened tool for 15 minute 1st flow with a					
Initial Closed in Pres.	580		563		weak blow. Closed tool for 30 minute initial					
Initial Flow Pres.	10	1	25		closed in pressure. Reopened tool for 45 minute					
Final Flow Pres.	29	2	35		2nd flow with a weak blow. Closed tool for 45					
Final Closed in Pres.	19	1	25		minute final closed in pressure.					
Final Hydro Mud Pres.	38	2	35							
Final Closed in Pres.	1015		1002							
Final Hydro Mud Pres.	1940		2039							

1  
Well No.  
2  
Test No.  
TOKA CARRI County  
PRATT  
GEORGE J. ABIAH  
Lease Owner/Company Name

Field Area

State

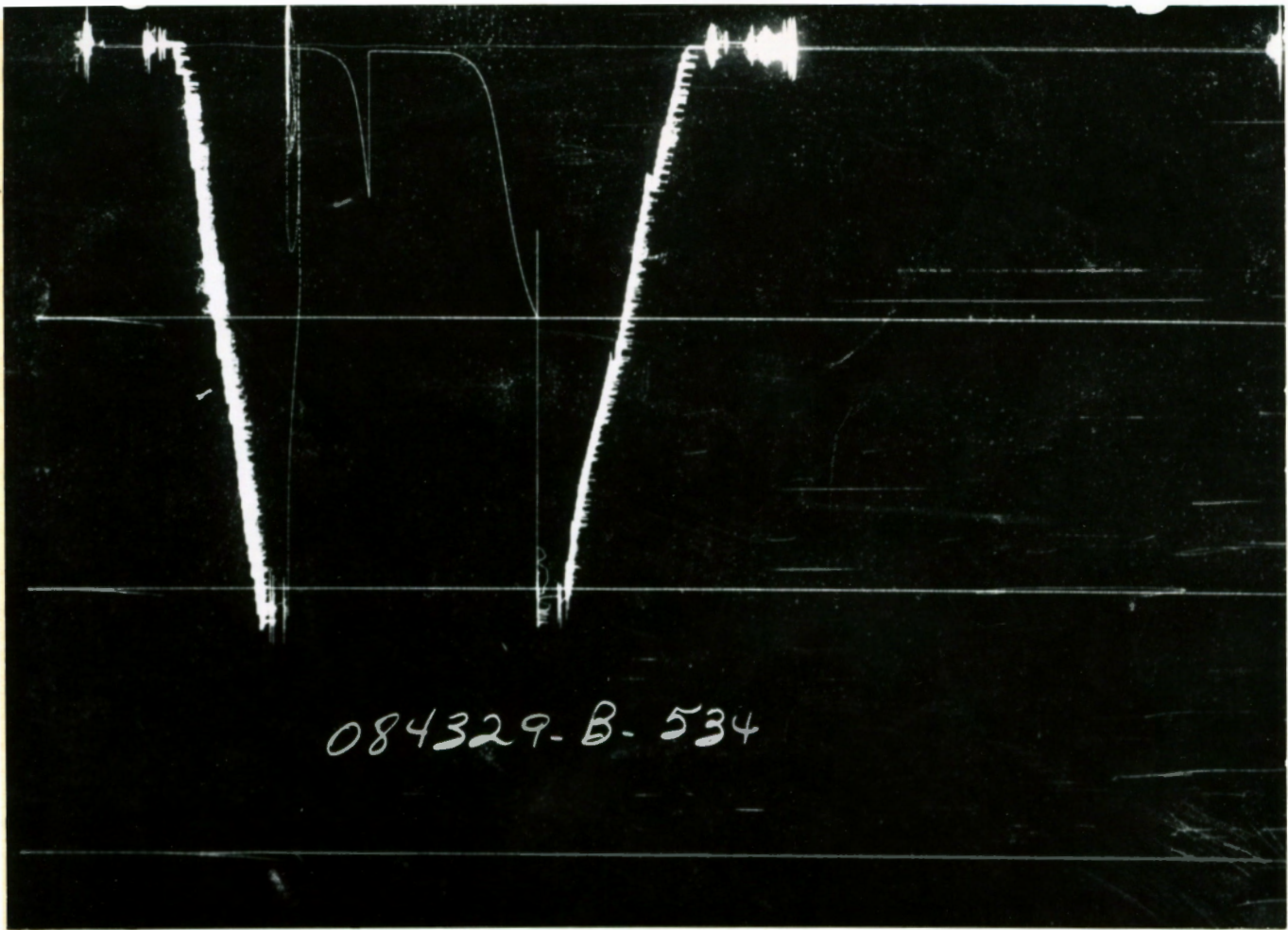
KANSAS

Owner's District  
KANSAS

### FORMATION TEST DATA

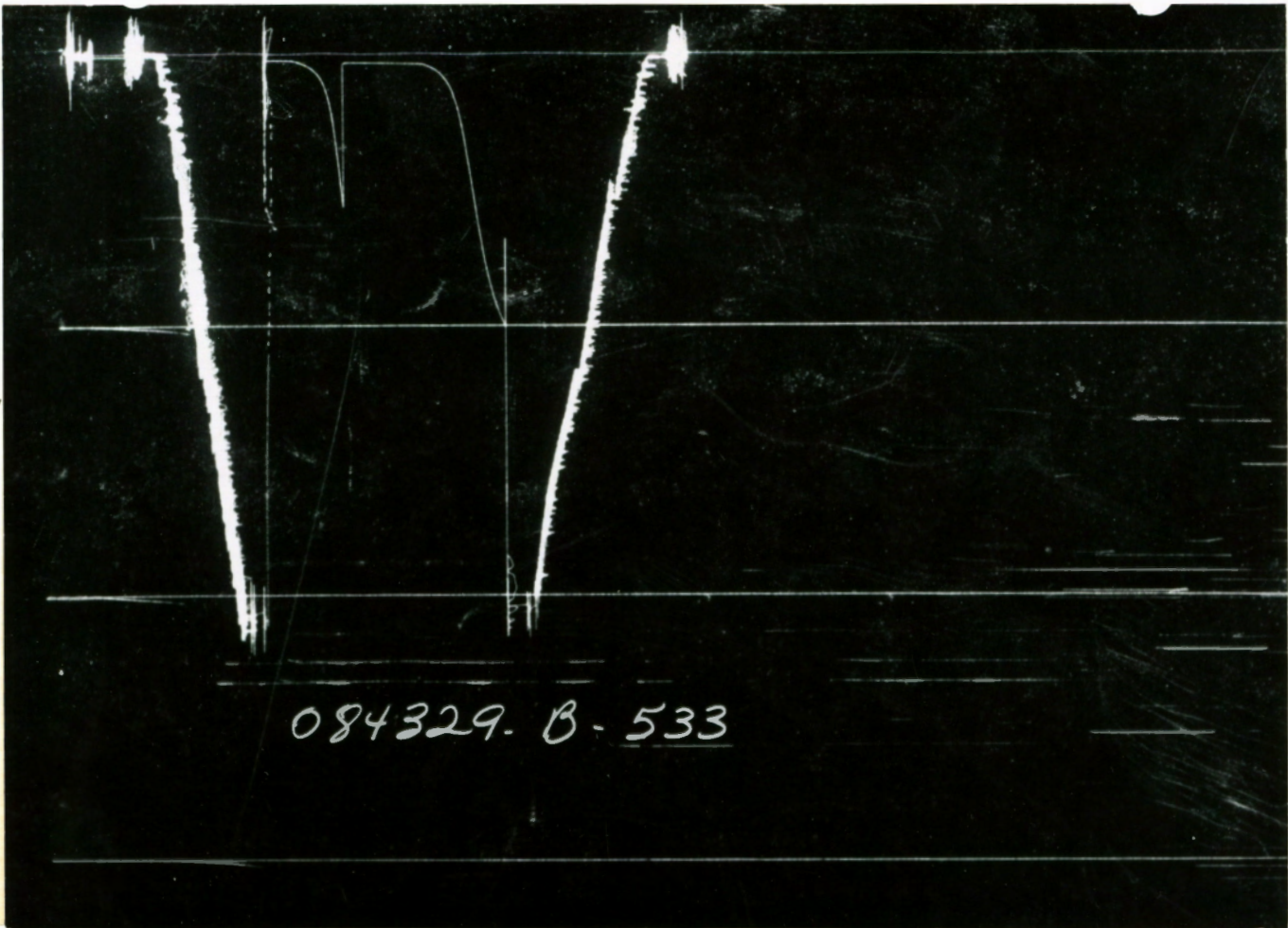
Gauge No. 534		Depth 3815'			Clock 12 hour		Ticket No. 084329 - B			
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\phi}{\phi}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\phi}{\phi}$	PSIG Temp. Corr.	
P <sub>0</sub>	.000	13	.000		15	.000	26	.000		27
P <sub>1</sub>	.109	15	.211		557	.321	27	.0377		40
P <sub>2</sub>								.0754		61
P <sub>3</sub>								.1131		106
P <sub>4</sub>								.1508		196
P <sub>5</sub>								.1885		370
P <sub>6</sub>								.2262		582
P <sub>7</sub>								.2639		768
P <sub>8</sub>								.3016		907
P <sub>9</sub>								.3390		996
P <sub>10</sub>										

Gauge No. 533		Depth 3841'			Clock 12 hour					
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 <sub>0</sub>	.000	25	.000		25	.000	35	.000		35
P <sub>1</sub>	.108	25	.201		563	.304	35	.0359		48
P <sub>2</sub>								.0718		69
P <sub>3</sub>								.1077		112
P <sub>4</sub>								.1436		203
P <sub>5</sub>								.1795		383
P <sub>6</sub>								.2154		594
P <sub>7</sub>								.2513		781
P <sub>8</sub>								.2872		911
P <sub>9</sub>								.3230		1002
P <sub>10</sub>										
Reading Interval							5 Minutes			
REMARKS:										



PRESSURE

TIME



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



Gauge No.		534		Depth		3862'		Clock		12 hour		Ticket No.		084329 - C	
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 <sub>0</sub>	.000	12	.000		13	.000	22	.000		24					
P <sub>1</sub>	.109	13	.0217		21	.306	24	.0349		43					
P <sub>2</sub>			.0434		35			.0698		85					
P <sub>3</sub>			.0651		64			.1047		263					
P <sub>4</sub>			.0868		146			.1396		792					
P <sub>5</sub>			.1085		448			.1745		1123					
P <sub>6</sub>			.1302		907			.2094		1254					
P <sub>7</sub>			.1519		1142			.2443		1315					
P <sub>8</sub>			.1736		1259			.2792		1350					
P <sub>9</sub>			.1953		1317			.3140		1370					
P <sub>10</sub>			.2170		1349										

Gauge No.		533		Depth		3888'		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 <sub>0</sub>	.000	22	.000		22	.000	33	.000		31	
P <sub>1</sub>	.105	22	.0209		30	.293	31	.0334		48	
P <sub>2</sub>			.0418		48			.0668		89	
P <sub>3</sub>			.0627		86			.1002		250	
P <sub>4</sub>			.0836		221			.1336		778	
P <sub>5</sub>			.1045		606			.1670		1126	
P <sub>6</sub>			.1254		988			.2004		1266	
P <sub>7</sub>			.1463		1177			.2338		1324	
P <sub>8</sub>			.1672		1272			.2672		1357	
P <sub>9</sub>			.1881		1324			.3010		1377	
P <sub>10</sub>			.2090		1355						
Reading Interval			3			5			Minutes		

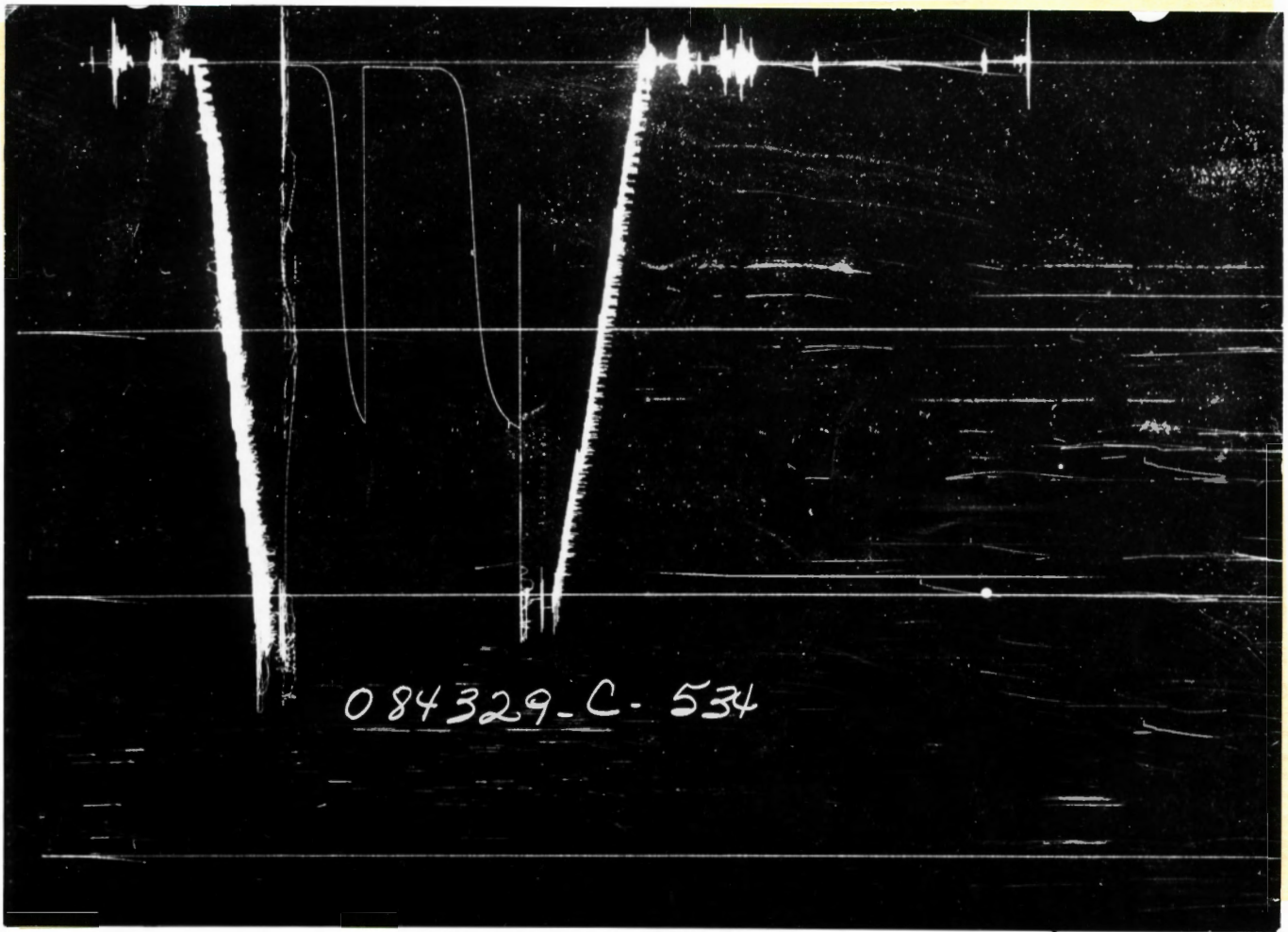
SPECIAL PRESSURE DATA

5

TEMPERATURE  
RECORDER  
CHART

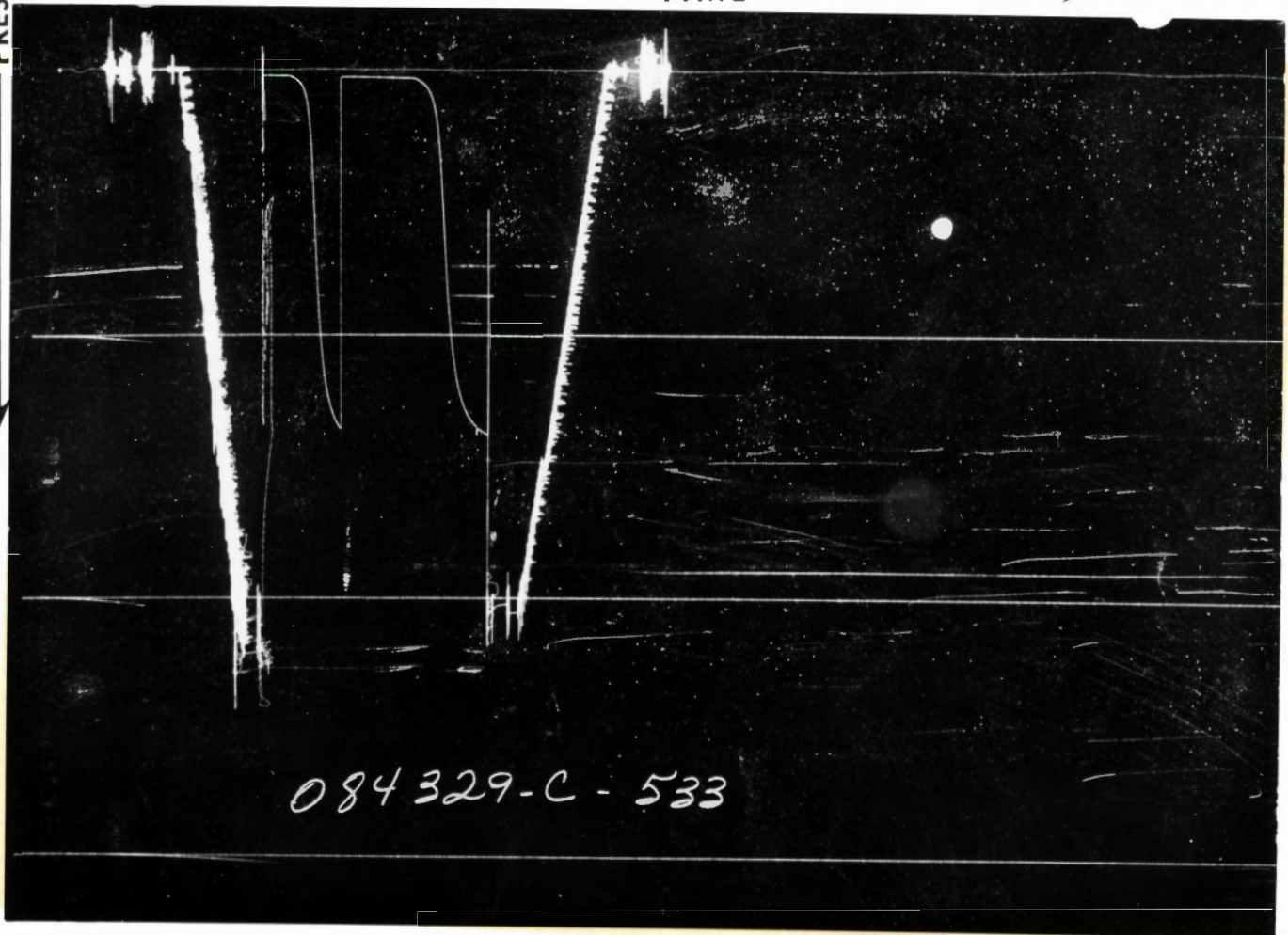


10° each circle



PRESSURE

TIME



PRESSURE

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

Flow Time	1st Min.	2nd Min.	Date	1-31-69	Ticket Number	084329-D-S
Closed In Press. Time	1st Min. 30	2nd Min. 45	Kind of Job	OPEN HOLE	Halliburton District	PRATT
Pressure Readings	Field	Office Corrected	Tester	THOMPSON	Witness	THRASHER
Depth Top Gauge	4080' Ft.	NO Blanked Off	Drilling Contractor	H-30, INC.		
BT. P.R.D. No.	534	12 Hour Clock	Elevation	1876' D.F.	Top Packer	4087'
Initial Hydro Mud Pressure	2172	2241	Total Depth	4130'	Bottom Packer	4091'
Initial Closed in Pres.	494	468	Interval Tested	4091' - 4130'	Formation Tested	MISSISSIPPI
Initial Flow Pres.	19	1 22	Casing or Hole Size	7 7/8"	Casing Perfs.	Top -
	29	2 11				Bot. -
Final Flow Pres.	29	1 23	Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	599	592	Size & Kind Drill Pipe	4 1/2" F.H.	Drill Collars Above Tester	I.D. - LENGTH
Final Hydro Mud Pressure	2152	2183	Mud Weight	10.1	Mud Viscosity	37
Depth Cen. Gauge		Blanked Off	Temperature	4124' @ 120° F Actual	Anchor Size & Length	ID. 37" X 39" OD 5"
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHING	Depth of Tester Valve	4070' Ft.
Initial Hydro Mud Pres.			TYPE AMOUNT		Depth Beck Pres. Valve	- Ft.
Initial Closed in Pres.			Cushion	NONE		
Initial Flow Pres.		1	Recovered	40' Feet of mud		
Final Flow Pres.		2	Recovered	Feet of		
Final Closed in Pres.		1	Recovered	Feet of		
Final Hydro Mud Pres.		2	Recovered	Feet of		
Depth Bot. Gauge	4126' Ft.	YES Blanked Off	Oil A.P.I. Gravity		Water Spec. Gravity	
BT. P.R.D. No.	533	12 Hour Clock	Gas Gravity		Surface Pressure	psi
Initial Hydro Mud Pres.	2172	2257	Tool Opened	4:50	A.M. Tool Closed	6:20 A.M. P.M.
Initial Closed in Pres.	494	484	Remarks	On bottom @ 4:49 - tool opened @ 4:50 with a good blow for a 15 minute first flow. Tool closed @ 5:05 for a 30 minute initial closed in pressure. Tool reopened @ 5:35 with a good blow, which continued throughout the test. Tool closed @ 6:20 for a 45 minute final closed in pressure. Off bottom @		
Initial Flow Pres.	19	1 54				
Final Flow Pres.	29	2 39				
	29	1 42				
	38	2 38				
Final Closed in Pres.	599	609				
Final Hydro Mud Pres.	2152	2194				

Legal Location  
Sec. - Twp. - Rng.

5 - 27 - 12

Field Area  
TUKA CARMCounty  
PRATTState  
KANSAS

Lease Name

Well No.

Test No.

Lease Owner/Company Name

Owner's District

DIKEMAN

1

4

GEORGE J. ABIAH

KANSAS

FORMATION TEST DATA

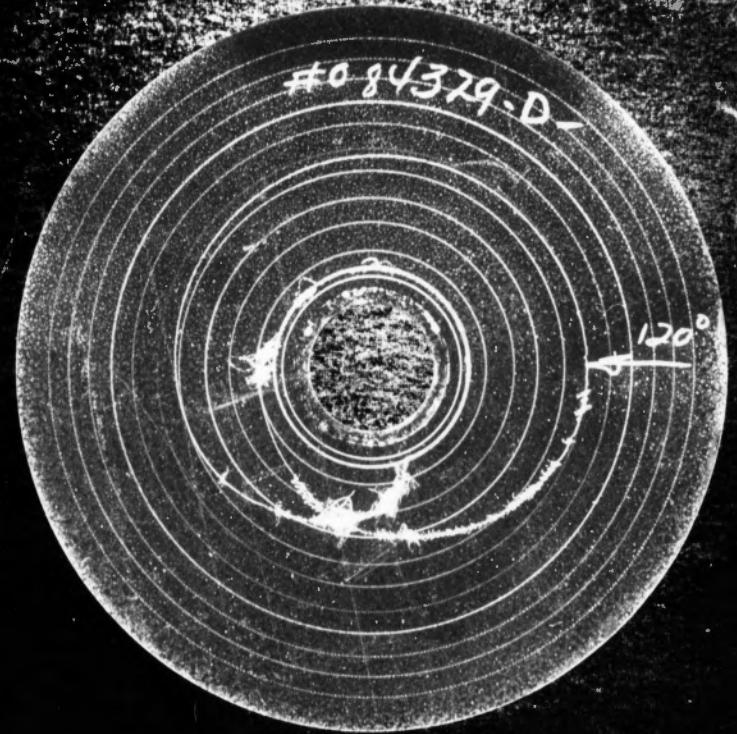
5 7:05.

Gauge No.		534		Depth		4080'		Clock		12 hour		Ticket No.		084329 -D	
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 <sub>0</sub>	.000	22	.000		23	.000	11	.000		21					
P <sub>1</sub>	.110	23	.0202		93	.0624	19	.0335		102					
P <sub>2</sub>			.0404		147	.1248	19	.0670		180					
P <sub>3</sub>			.0606		197	.1872	20	.1005		250					
P <sub>4</sub>			.0808		245	.2496	20	.1340		310					
P <sub>5</sub>			.1010		293	.312	21	.1675		369					
P <sub>6</sub>			.1212		328			.2010		422					
P <sub>7</sub>			.1414		369			.2345		470					
P <sub>8</sub>			.1616		404			.2680		514					
P <sub>9</sub>			.1818		438			.3015		557					
P <sub>10</sub>			.202		468			.335		592					
Gauge No.		533		Depth		4126'		Clock		12 hour					
P <sub>0</sub>	.000	54	.000		42	.000	39	.000		38					
P <sub>1</sub>	.108	42	.0195		105	.302	38	.0319		130					
P <sub>2</sub>			.0390		160			.0638		208					
P <sub>3</sub>			.0585		213			.0957		277					
P <sub>4</sub>			.0780		261			.1276		339					
P <sub>5</sub>			.0975		302			.1595		394					
P <sub>6</sub>			.1170		344			.1914		444					
P <sub>7</sub>			.1365		383			.2233		490					
P <sub>8</sub>			.1560		418			.2552		534					
P <sub>9</sub>			.1755		453			.2871		573					
P <sub>10</sub>			.195		484			.319		609					
Reading Interval			3			9			4.5 Minutes						
REMARKS:															

SPECIAL PRESSURE DATA

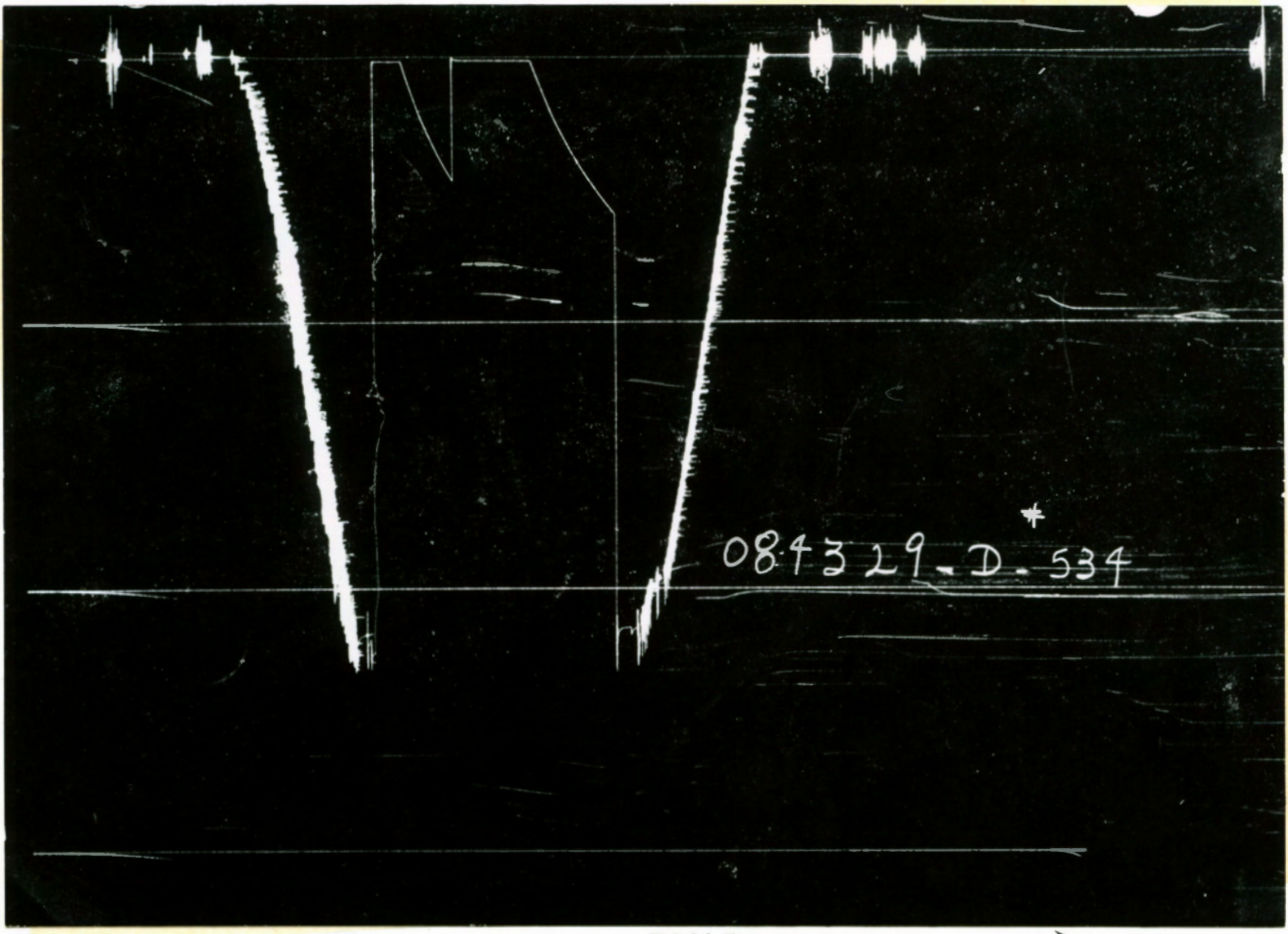
5

TEMPERATURE  
RECORDER  
CHART

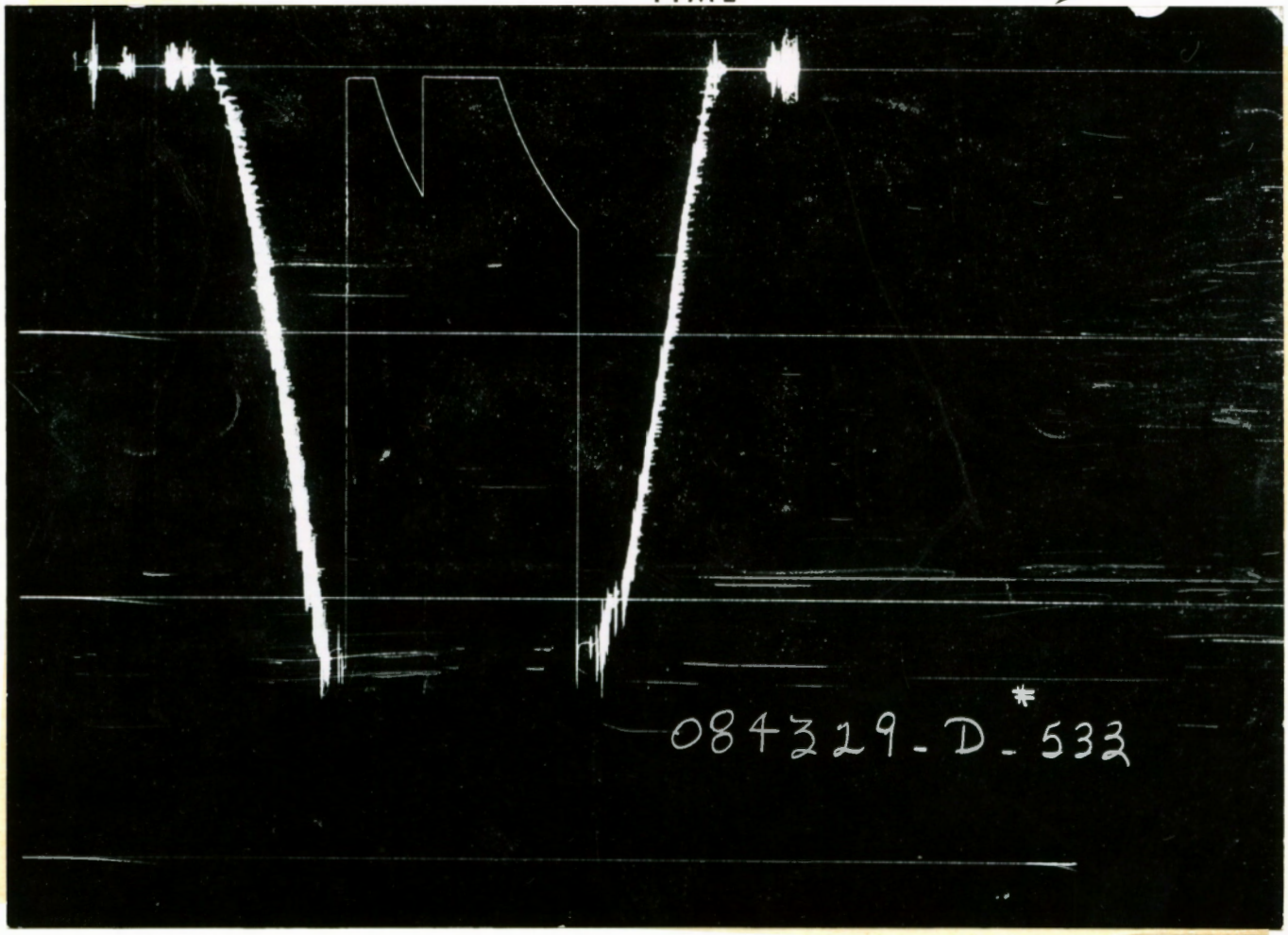


10° each circle

PRESSURE



TIME



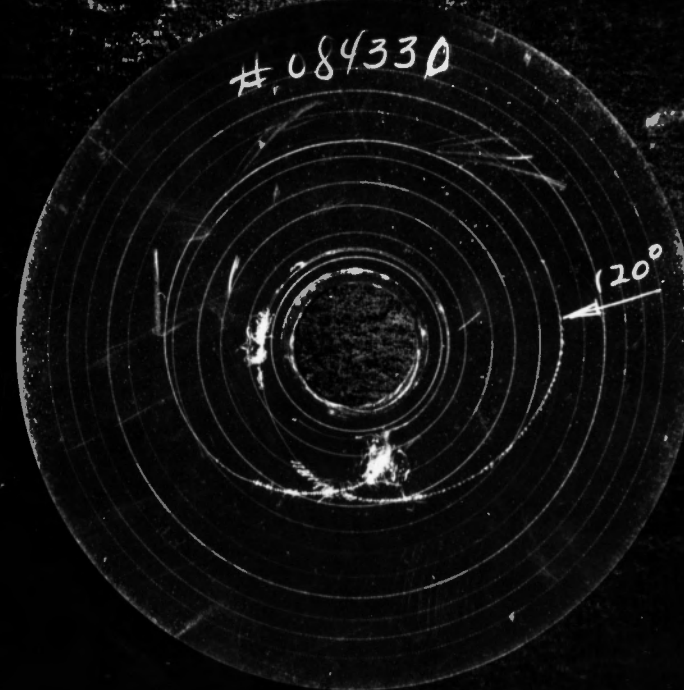
Each Horizontal Line Equal to 1000 p.s.i.

Flow Time	1st 15	Min.	2nd 45	Min.	Date	2-1-69	Ticket Number	084330	
Closed In Press. Time	1st 30	Min.	2nd 45	Min.	Kind of Job	Open hole	Halliburton District	Pratt	
Pressure Readings	Field			Office Corrected		Tester	Bill Thompson	Witness	Glen Thasher
Depth Top Gauge	4130	Ft.	Blanked no Off		Drilling Contractor	H-30 INCORPORATED	sm		
BT. P.R.D. No.	534	Hour 12		Clock	Elevation	1876' DF	Top Packer	4137'	
Initial Hydro Mud Pressure	2209	2193			Total Depth	4200'	Bottom Packer	4142'	
Initial Closed in Pres.	180	177			Interval Tested	4142-4200'	Formation Tested	Viola	
Initial Flow Pres.	10	1	17		Casing or Hole Size	7 7/8"	Casing Perfs.	Top	
	19	2	21					Bot.	
Final Flow Pres.	19	1	17		Surface Choke	1"	Bottom Choke	3/4"	
	28	2	24						
Final Closed in Pres.	161	175			Size & Kind Drill Pipe	4 1/2" FH	Drill Collars Above Tester		
Final Hydro Mud Pressure	2190	2181			Mud Weight	10.1	Mud Viscosity	42	
Depth Cen. Gauge	Ft.		Blanked Off		Temperature	°F Est. 4194' @120°F Actual		Anchor Size ID & Length OD	3.37" x 58'
BT. P.R.D. No.	Hour 12		Clock		Depths Mea. From	Kelly bushing	Depth of Tester Valve	4120 Ft.	
Initial Hydro Mud Pres.	TYPE		AMOUNT		Cushion	Ft.		Depth Back Pres. Valve	Ft.
Initial Closed in Pres.	Recovered		20		Feet of mud		Mea. From Tester Valve		
Initial Flow Pres.	1		Recovered		Feet of				
	2		Recovered		Feet of				
Final Flow Pres.	1		Recovered		Feet of				
	2		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	4196	Ft.	Blanked yes/Off		Gas Gravity	Surface Pressure		psi	
BT. P.R.D. No.	533	Hour 12		Clock	Tool Opened	12:35	A.M. P.M.	Tool Closed	2:05
Initial Hydro Mud Pres.	2220	2239			Remarks	Tool opened with a good blow for a 15			
Initial Closed in Pres.	219	208			minute first flow. Closed for a 30 minute				
Initial Flow Pres.	38	1	54		initial closed in pressure. Tool reopened with				
	48	2	58		a good blow. Took a 45 minute final closed in				
Final Flow Pres.	48	1	52		pressure.				
	57	2	59						
Final Closed in Pres.	200	210							
Final Hydro Mud Pres.	2201	2216							

Legal Location Sec. - Twp. - Rng. 5 27 12  
 Lease Name DIKEMAN  
 Well No. 1  
 Test No. 2  
 Field Area IUKA CARMIT  
 County PRATT  
 State KANSAS  
 Lease Owner/Company Name GEORGE J. ABIAH  
 Owner's District KANSAS

FORMATION TEST DATA

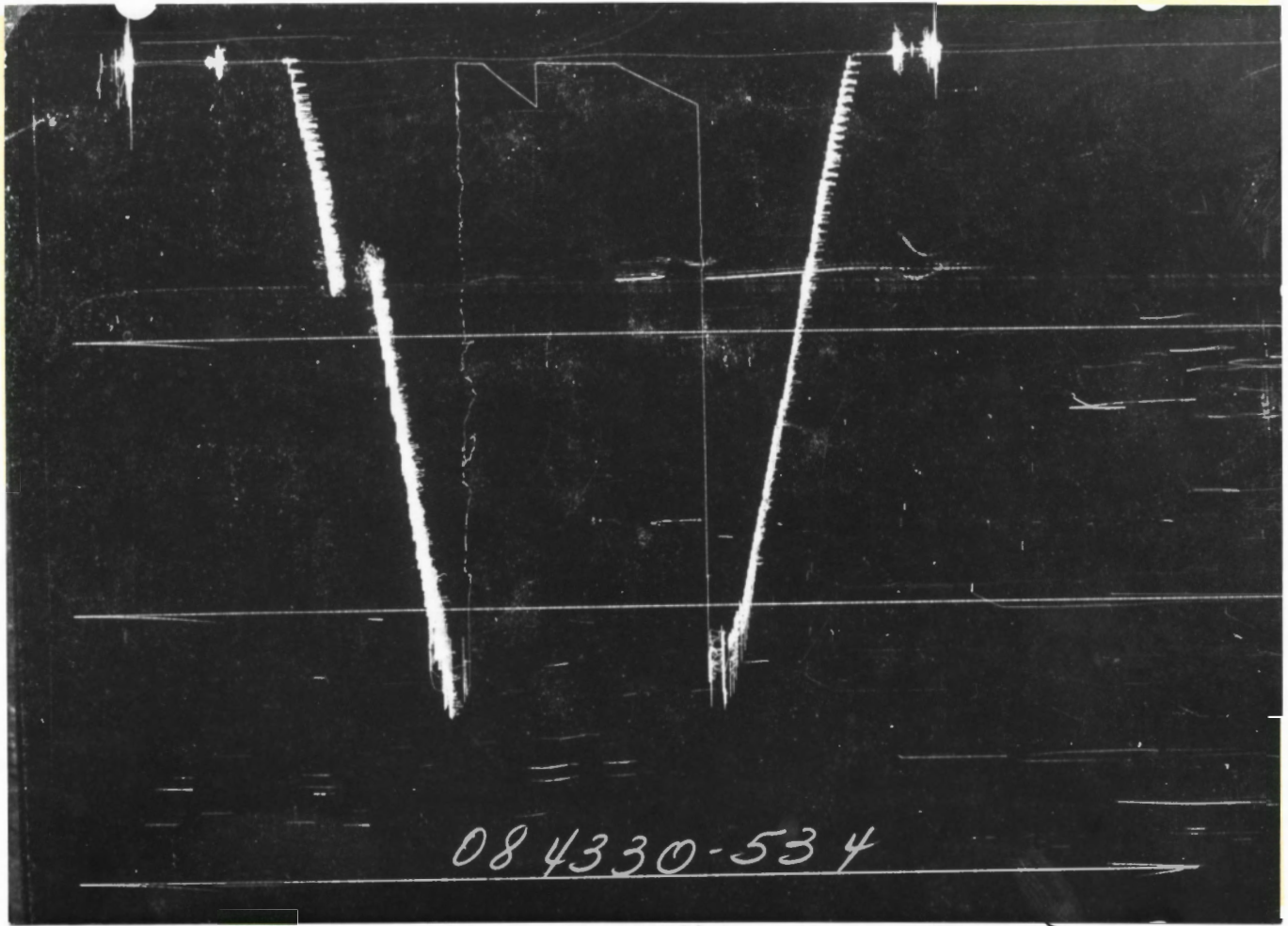
TEMPERATURE  
RECORDER  
CHART



10° each circle

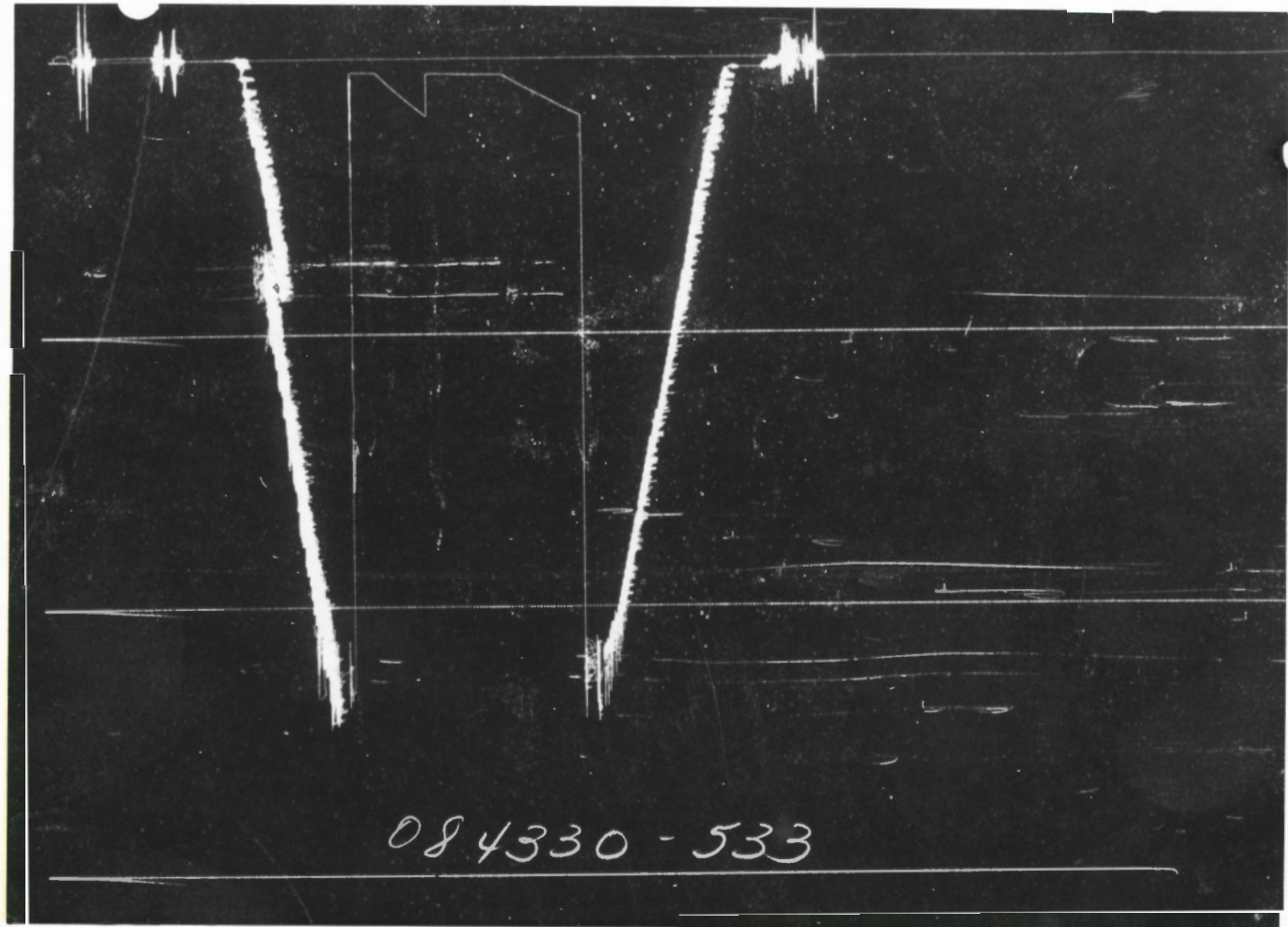
PRESSURE

↓



084330-534

TIME



084330-533

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

Flow Time	1st	Min.	2nd	Min.	Date	Ticket Number		
15			30		2-1-69	084331		
Closed in Press. Time	1st	Min.	2nd	Min.	Kind of Job	Halliburton District		
30			30		OPEN HOLE	PRATT		
Pressure Readings	Field			Office Corrected				
				Tester MR. THOMPSON				
				Witness MR. THRASHER				
Depth Top Gauge	4190	Ft.	NO	Blanked Off	Drilling Contractor	H-30 INCORPORATED	IC	
BT. P.R.D. No.	534		12	Hour Clock	Elevation	1876' D.F.	Top Packer	4198'
Initial Hydro Mud Pressure	2297		2226		Total Depth	4235'	Bottom Packer	4202'
Initial Closed in Pres.	86		77		Interval Tested	4202'-4235'	Formation Tested	SIMPSON
Initial Flow Pres.	10		1	11	Casing or Hole Size	7 7/8"	Casing Perfs.	Top
	19		2	21				Bot.
Final Flow Pres.	19		1	14	Surface Choke	1"	Bottom Choke	3/4"
	19		2	16				
Final Closed in Pres.	29		30		Size & Kind Drill Pipe	4 1/2" F.H.	Drill Collars Above Tester	-
Final Hydro Mud Pressure	2278		2207		Mud Weight	10.1	Mud Viscosity	42
Depth Cen. Gauge		Ft.		Blanked Off	Temperature	-	Anchor Size & Length	ID 3.37" OD 5.00" X -
BT. P.R.D. No.				Hour Clock	Temperatures	4229' @ 120 °F Actual	°F Est.	
Initial Hydro Mud Pres.					Depths Mea. From	KELLY BUSHINGS	Depth of Tester Valve	4180'
Initial Closed in Pres.					Cushion	-	Depth Back Pres. Valve	-
Initial Flow Pres.			1		Recovered	15	Feet of Mud	
			2					
Final Flow Pres.			1		Recovered		Feet of	
			2					
Final Closed in Pres.					Recovered		Feet of	
Final Hydro Mud Pres.					Oil A.P.I. Gravity	-	Water Spec. Gravity	-
Depth Bot. Gauge	4231	Ft.	YES	Blanked Off	Gas Gravity	-	Surface Pressure	- psi
BT. P.R.D. No.	533		12	Hour Clock	Tool Opened	6:27 PM	A.M. P.M.	
Initial Hydro Mud Pres.	2297		2240		Tool Closed	7:42 PM	A.M. P.M.	
Initial Closed in Pres.	105		95		Remarks Opened tool for 15 minute 1st flow. Closed tool for 30 minute initial closed in pressure.			
Initial Flow Pres.	19		1	31	Reopened tool for 30 minute 2nd flow. Closed			
	29		2	42				
Final Flow Pres.	29		1	35	tool for 30 minute final closed in pressure.			
	29		2	38				
Final Closed in Pres.	48		48					
Final Hydro Mud Pres.	2278		2224					

Legal Location  
Sec. - Twp. - Rng.

SEC. 5 - 27 - 12

Field Area

TUKA CARM

County

PRATT

State KANSAS

Lessee Name

Well No.

Test No.

GEORGE J. ABIAH  
Lessee Owner/Company Name

Owner's District

FORMATION TEST DATA

TEMPERATURE  
RECORDER  
CHART



10° each circle

084331-534

PRESSURE

TIME

084331-533

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

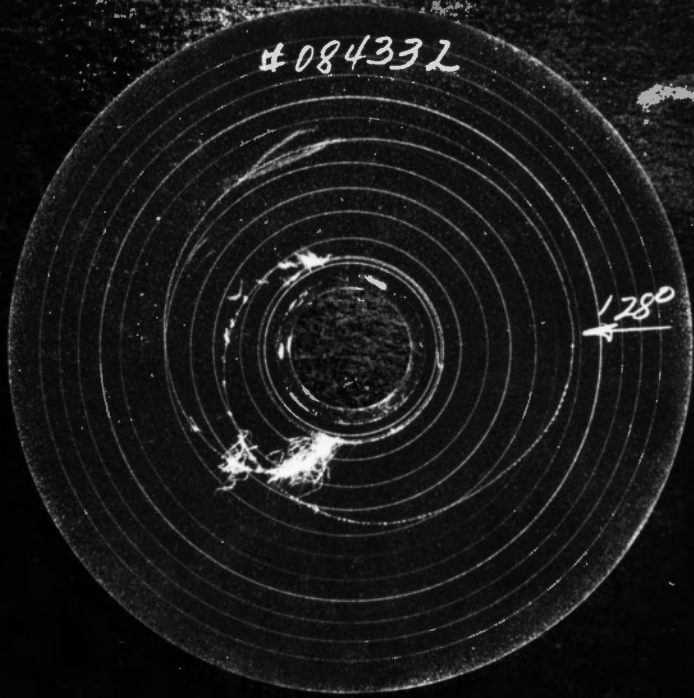
Flow Time	1st Min.	2nd Min.	Date	Ticket Number
15	45	2-2-69	084332 - S	
Closed In Pres. Time	1st Min.	2nd Min.	Kind of Job	Halliburton District
30	45	OPEN HOLE	PRATT	
Pressure Readings	Field	Office Corrected	Tester	Witness
			MR. THOMPSON	MR. THRASHER
Depth Top Gauge		Blanked Off	Drilling Contractor	
4272 Ft.	NO		H-30 INCORPORATED	IC
BT. P.R.D. No.		Hour Clock	Elevation	Top Pecker
534	12		1876' D.F.	4282'
Initial Hydro Mud Pressure			Total Depth	Bottom Pecker
2238	2251		4300'	4287'
Initial Closed in Pres.			Interval Tested	Formation Tested
1484	1488		4287'-4300'	-
Initial Flow Pres.			Casing or Hole Size	Casing Perfs. { Top Bot. }
10	1	15	7 7/8"	{ Top - Bot. -
47	2	72		
Final Flow Pres.			Surface Choke	Bottom Choke
47	1	53	1"	3/4"
142	2	139		
Final Closed in Pres.			Size & Kind Drill Pipe	Drill Collars Above Tester
1484	1485		4 1/2" F.H.	-
Final Hydro Mud Pressure			Mud Weight	Mud Viscosity
2219	2220		9.9	41
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	Anchor Size & Length
			-	ID 3.37"
			4294' @ 128 °F Actual	OD 5.00" X 13'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Depth of Tester Valve
			KELLY BUSHINGS	4262' Ft.
Initial Hydro Mud Pres.			Cushion	Depth Back Pres. Valve
			-	-
Initial Closed in Pres.			Recovered	Feet of
			60	Free oil
Initial Flow Pres.			Recovered	Feet of
			90	Heavy oil & gas cut mud
Final Flow Pres.			Recovered	Feet of
			150	Water
Final Closed in Pres.			Recovered	Feet of
Final Hydro Mud Pres.			Oil A.P.I. Gravity	Water Spec. Gravity
			34	-
Depth Bot. Gauge		Blanked Off	Gas Gravity	Surface Pressure
4296 Ft.	YES		-	- psi
BT. P.R.D. No.		Hour Clock	Tool Opened	Tool Closed
533	12		2:35 PM	4:05 PM
Initial Hydro Mud Pres.			Remarks	
2238	2261		Opened tool for 15 minute 1st flow with a	
Initial Closed in Pres.			good blow. Closed tool for 30 minute initial	
1484	1494		closed in pressure. Reopened tool for 45 minute	
Initial Flow Pres.			2nd flow with a good blow throughout test.	
10	1	26		
47	2	82		
Final Flow Pres.			Closed tool for 45 minute final closed in pressure.	
47	1	60		
142	2	147		
Final Closed in Pres.				
1484	1492			
Final Hydro Mud Pres.				
2219	2228			

Legal Location Sec. 5 - 27 - 12  
 Lease Name DIKEMAN  
 Well No. 1  
 Test No. 7  
 Field Area IUKA CARMIT  
 County PRATT  
 State KANSAS  
 Lease Owner/Company Name GEORGE J. ABLAH  
 Owner's District KANSAS

FORMATION TEST DATA

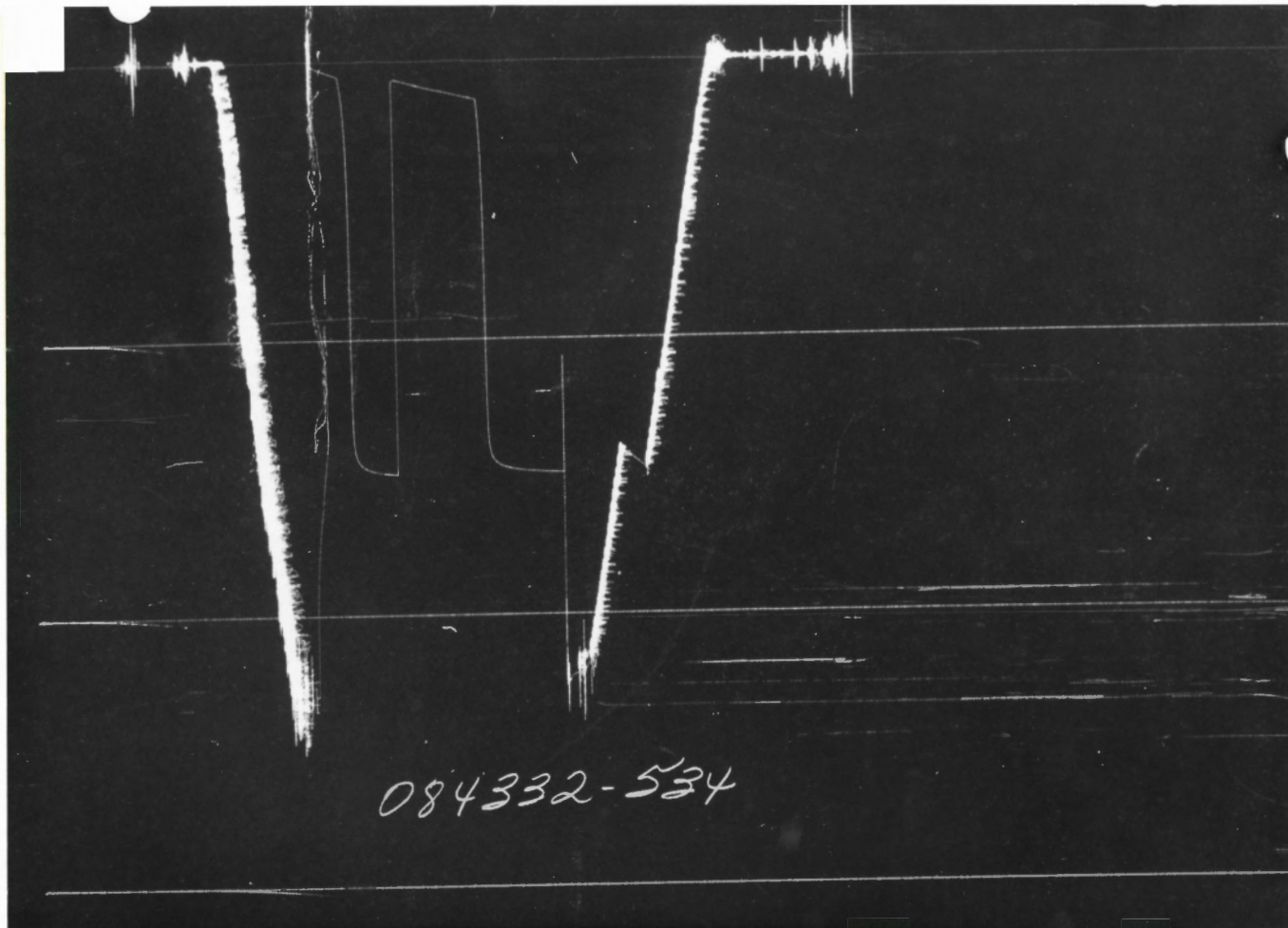
Gauge No.		534		Depth		4272'		Clock		12 hour		Ticket No.		084332	
First Flow Period			Initial Closed In Pressure			Second Flow Period			Final Closed In Pressure						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\bullet}{\bullet}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\bullet}{\bullet}$	PSIG Temp. Corr.					
P <sub>0</sub>	.000	15	.000		53	.000	72	.000		139					
P <sub>1</sub>	.0224	23	.0203		257	.0644	79	.0348		1415					
P <sub>2</sub>	.0448	31	.0406		1398	.1288	97	.0696		1456					
P <sub>3</sub>	.0672	39	.0608		1449	.1932	110	.1044		1468					
P <sub>4</sub>	.0896	46	.0812		1465	.2576	125	.1392		1474					
P <sub>5</sub>	.1120	53	.1015		1474	.3220	139	.1740		1478					
P <sub>6</sub>			.1218		1478			.2088		1480					
P <sub>7</sub>			.1421		1482			.2436		1482					
P <sub>8</sub>			.1624		1484			.2784		1484					
P <sub>9</sub>			.1827		1486			.3130		1485					
P <sub>10</sub>			.2030		1488										
Gauge No.		533		Depth		4296'		Clock		12 hour					
P <sub>0</sub>	.000	26	.000		60	.000	82	.000		147					
P <sub>1</sub>	.0206	32	.0203		305	.0624	87	.0336		1419					
P <sub>2</sub>	.0412	39	.0406		1403	.1248	105	.0672		1461					
P <sub>3</sub>	.0618	46	.0609		1455	.1872	117	.1008		1473					
P <sub>4</sub>	.0824	54	.0812		1470	.2496	132	.1344		1480					
P <sub>5</sub>	.1030	60	.1015		1479	.3120	147	.1680		1485					
P <sub>6</sub>			.1218		1484			.2016		1487					
P <sub>7</sub>			.1421		1488			.2352		1490					
P <sub>8</sub>			.1624		1491			.2688		1491					
P <sub>9</sub>			.1827		1492			.3020		1492					
P <sub>10</sub>			.2030		1494										
Reading Interval		3		3		9		5		Minutes					
REMARKS:															

TEMPERATURE  
RECORDER  
CHART



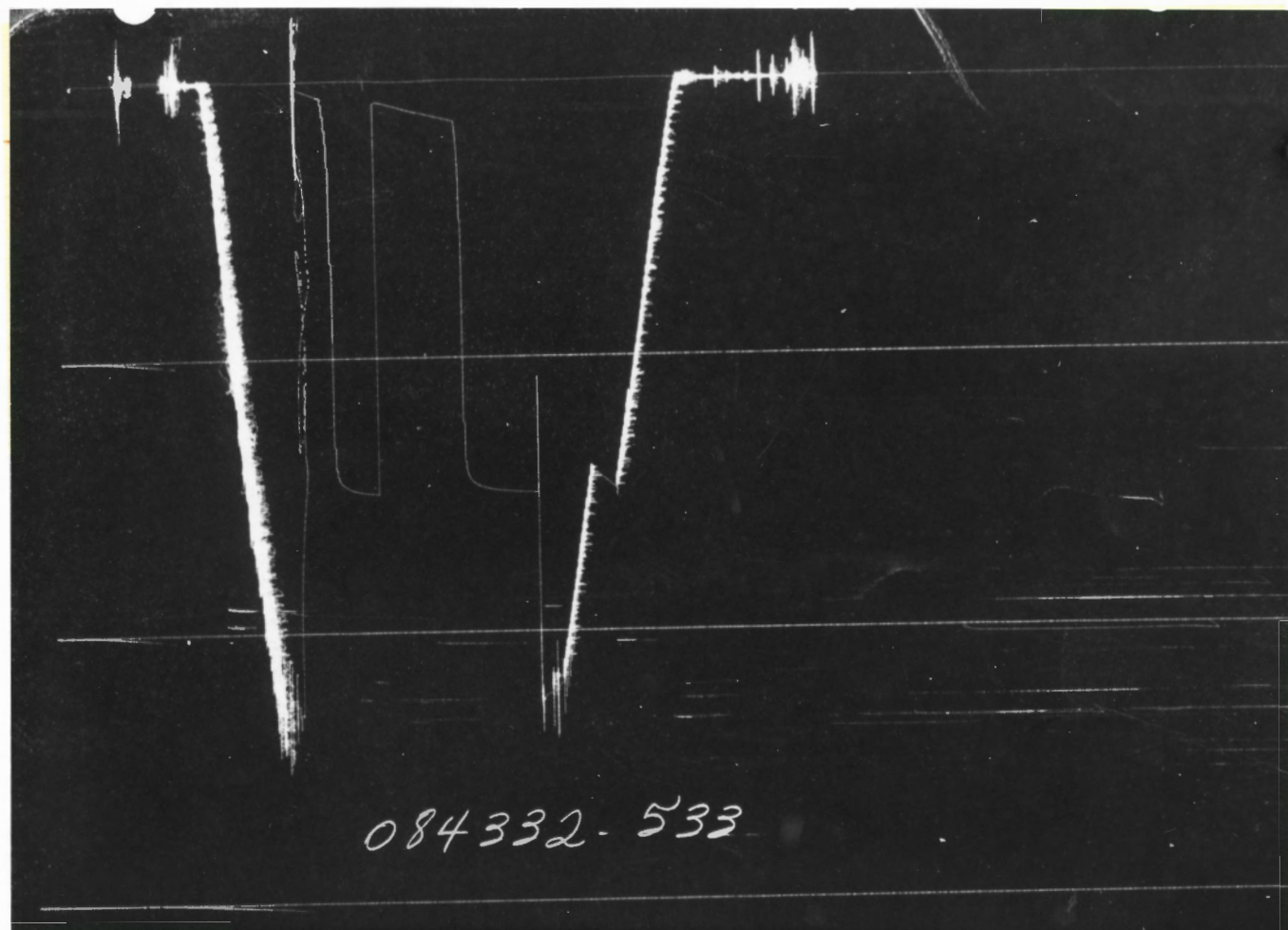
10° each circle

PRESSURE



084332-534

TIME



084332-533

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

Flow Time	1st	Min.	2nd	Min.	Date	Ticket Number
	15		45		2-4-69	084333 - S
Closed In Press. Time	1st	Min.	2nd	Min.	Kind of Job	Halliburton District
	30		45		STRADDLE TEST OPEN HOLE	PRATT
Pressure Readings	Field			Office Corrected		Tester
						THOMPSON
Depth Top Gauge	4390'	Ft.	NO	Blanked Off	Drilling Contractor	H-30 DRILLING, INC.
BT. P.R.D. No.	534		12	Hour Clock	Elevation	1876' D.F. Top Packer 4404'
Initial Hydro Mud Pressure	2334		2394		Total Depth	4513' Bottom Packer 4414'
Initial Closed in Pres.	1503		1493		Interval Tested	4404' - 4414' Formation Tested ARBUCKLE
Initial Flow Pres.	10	1	4		Casing or Hole Size	7 7/8" Casing { Top - Perfs. { Bot. -
Final Flow Pres.	10	1	4		Surface Choke	1" Bottom Choke 3/4"
Final Closed in Pres.	1522		1519		Size & Kind Drill Pipe	4 1/2" F.H. Drill Collars Above Tester - I.D. - LENGTH
Final Hydro Mud Pressure	2315		2314		Mud Weight	9.7 Mud Viscosity 42
Depth Cen. Gauge	4410'	Ft.	YES	Blanked Off	Temperature	*F Est. Anchor Size ID 3.37" X 10' 4408' @ 130°F Actual OD 5"
BT. P.R.D. No.	1717		12	Hour Clock	Depths Mea. From	KELLY BUSHING Depth of Tester Valve 4380' Ft.
Initial Hydro Mud Pres.	CLOCK STOPPED.				Cushion	NONE Ft. Depth Back Pres. Valve - Ft.
Initial Closed in Pres.	NO READINGS ARE				Recovered	15' Feet of mud
Initial Flow Pres.	AVAILABLE. 2..				Recovered	Feet of
Final Flow Pres.	2				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	4509'	Ft.	YES	Blanked Off	Gas Gravity	Surface Pressure psi
BT. P.R.D. No.	533		12	Hour Clock	Tool Opened	5:10 PM A.M. Tool Closed 6:40 PM A.M. P.M.
Initial Hydro Mud Pres.	2334		2536		Remarks	On bottom @ 5:08 - tool opened @ 5:10 with
Initial Closed in Pres.	-		-			a weak blow for a 15 minute first flow. Rotated
Initial Flow Pres.	-	2	-			tool for a 30 minute initial closed in pressure.
Final Flow Pres.	-	2	-			Tool reopened @ 5:55 with a weak blow - which died
Final Closed in Pres.	HYDROSTATIC	RELEASE:	1813			in 30 minutes. Tool closed @ 6:40 for a 45 minute
Final Hydro Mud Pres.	2315		2403			final closed in pressure. Off bottom @ 7:25...

FORMATION TEST DATA

Legal Location Sec - Twp - Rng. C-SE-NW-SW - 5 - 27 - 12

DIKEMAN  
Lease Name

1  
Well No.

8  
Test No.

Field Area

IUKA GARMI

County

PRATT

State

KANSAS

GEORGE J. ABLAH  
Lease Owner/Company Name

Owner's District  
KANSAS

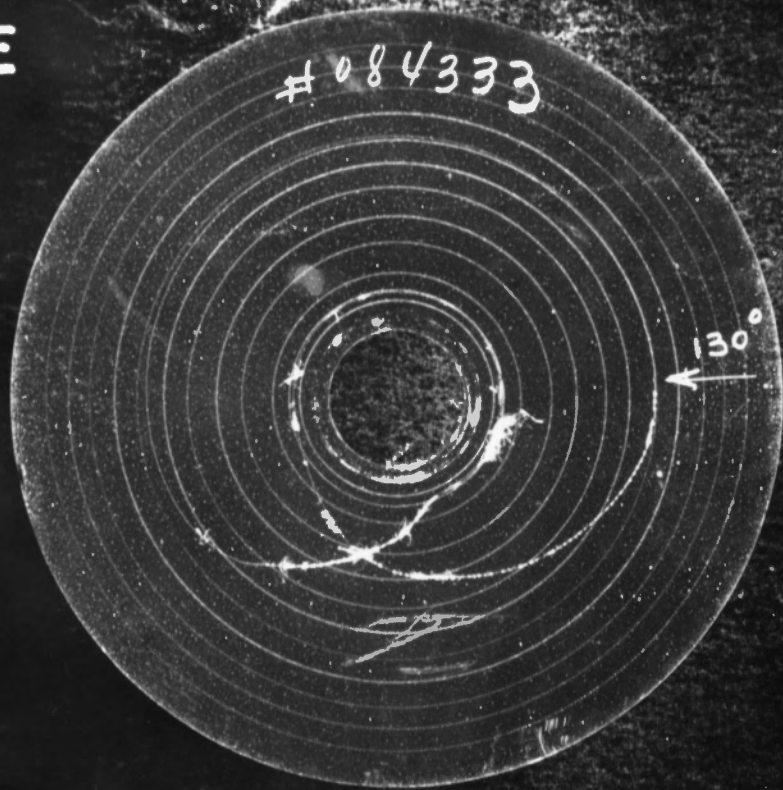
5-27-12

Gauge No.		534		Depth		4390'		Clock		12 hour		Ticket No.		084333	
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 <sub>0</sub>	.000	4		4	.000	8		.000		9					
P <sub>1</sub>	.105	4		83	.303	9		.0303		96					
P <sub>2</sub>				767				.0606		908					
P <sub>3</sub>				1110				.0909		1232					
P <sub>4</sub>				1276				.1212		1353					
P <sub>5</sub>				1351				.1515		1418					
P <sub>6</sub>				1402				.1818		1457					
P <sub>7</sub>				1435				.2121		1484					
P <sub>8</sub>				1461				.2424		1501					
P <sub>9</sub>				1479				.2727		1511					
P <sub>10</sub>				1493				.303		1519					

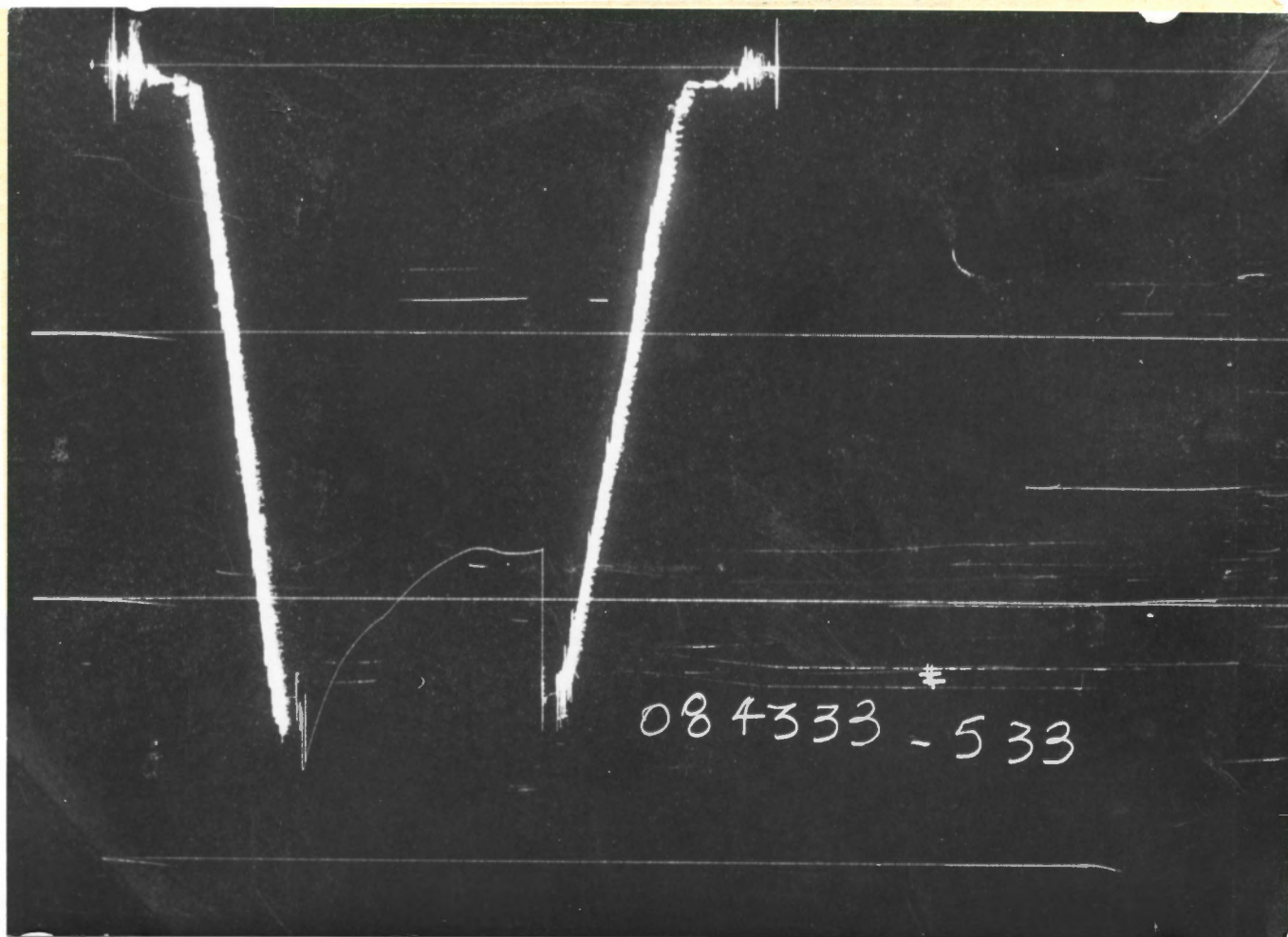
Gauge No.		1717		Depth		4410'		Clock		12 hour	
P <sub>0</sub>											
P <sub>1</sub>											
P <sub>2</sub>				CLOCK STOPPED... NO READINGS ARE AVAILABLE....							
P <sub>3</sub>											
P <sub>4</sub>											
P <sub>5</sub>											
P <sub>6</sub>											
P <sub>7</sub>											
P <sub>8</sub>											
P <sub>9</sub>											
P <sub>10</sub>											
Reading Interval				3				4.5 Minutes			
REMARKS:											

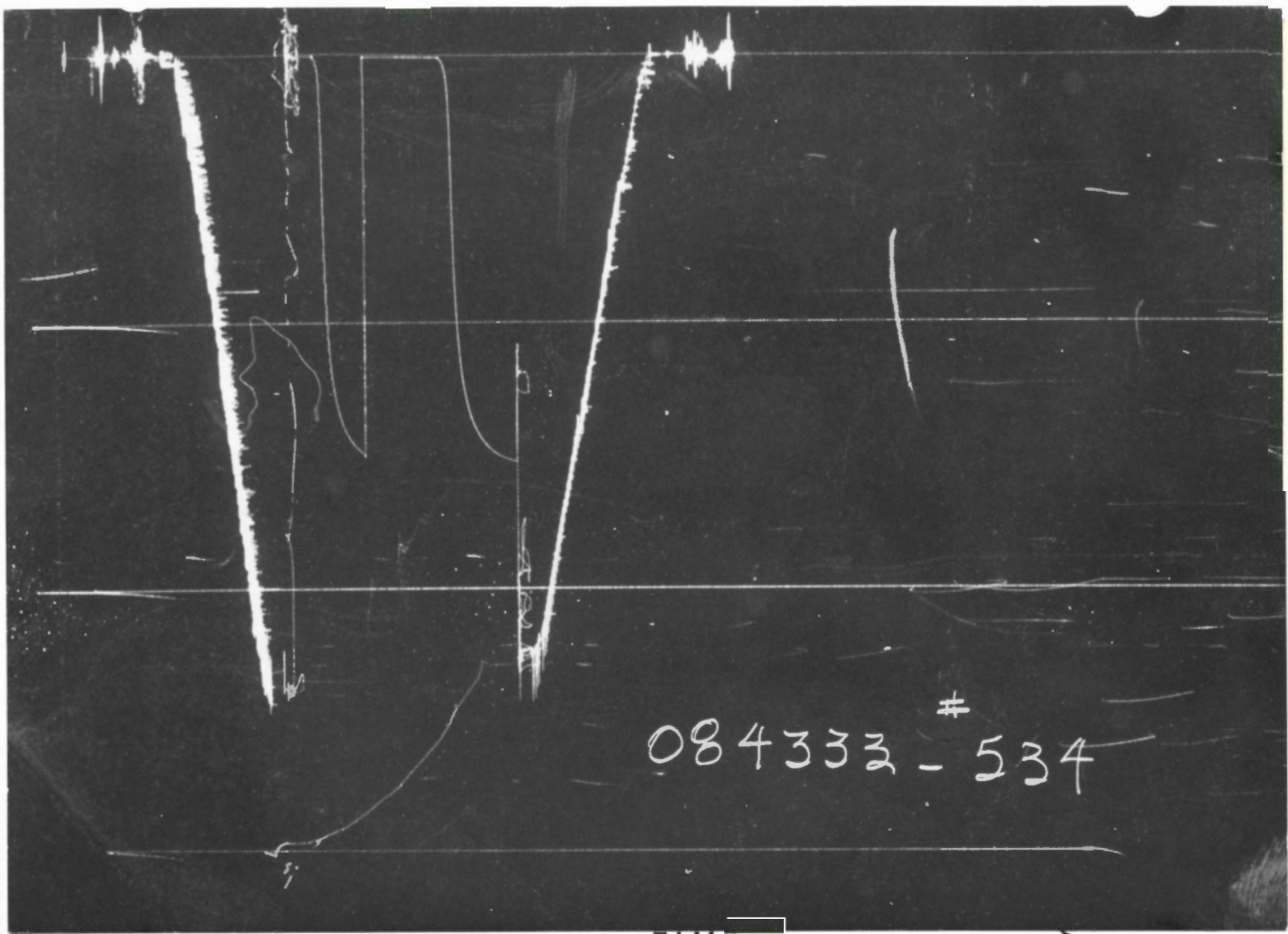
SPECIAL PRESSURE DATA

TEMPERATURE  
RECORDER  
CHART



10° each circle





084333 - 534 #

This graph shows pressure (y-axis) versus time (x-axis). The y-axis is labeled 'PRESSURE' with a downward arrow. The x-axis is labeled 'TIME' with a rightward arrow. The plot features two prominent V-shaped curves, one on the left and one on the right, both starting from a high pressure level and dropping to a lower level before rising back up. There are also several faint, irregular lines and a vertical line in the center of the plot.



084333 - 1717 #

This graph shows pressure (y-axis) versus time (x-axis). The y-axis is labeled 'PRESSURE' with a downward arrow. The x-axis is labeled 'TIME' with a rightward arrow. The plot features a single, very sharp and narrow V-shaped curve on the left side, starting from a high pressure level and dropping to a lower level before rising back up. The rest of the plot is mostly blank with some faint horizontal lines.

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

Flow Time	1st Min.	2nd Min.	Date	Ticket Number	Legal Location
15	45	2-5-69	084334-S	Sec. - Twp. - Rng.	
Closed In Press. Time	1st Min.	2nd Min.	Kind of Job	Halliburton District	Well No.
45	60	Straddle Open hole	Pratt		
Pressure Readings	Field	Office Corrected	Tester	Witness	Lease Name
			Bill Thompson	Glen Thrasher	
Depth Top Gauge	4355 Ft.	no Blanked Off	Drilling Contractor	H-30 DRILLING INCORPORATED sm	
BT. P.R.D. No.	534	12 Hour Clock	Elevation	1876' DF	Top Packer
					4370'
Initial Hydro Mud Pressure	2334	2332	Total Depth	4513'	Bottom Packer
					4397'
Initial Closed in Pres.	1531	1528	Interval Tested	4370-4397'	Formation Tested
					Arbuckle
Initial Flow Pres.	38	1 52	Casing or Hole Size	7 7/8"	Casing Perfs. } Top
	151	2 163			Bot.
Final Flow Pres.	151	1 155	Surface Choke	1"	Bottom Choke
	463	2 473			3/4"
Final Closed in Pres.	1531	1527	Size & Kind Drill Pipe	4 1/2" FH	Drill Collars Above Tester
					I.D. - LENGTH
Final Hydro Mud Pressure	2315	2331	Mud Weight	9.9	Mud Viscosity
					42
Depth Cen. Gauge	4390 Ft.	yes Blanked Off	Temperature	°F Est. 4388' @ 133 °F Actual	Anchor Size ID & Length OD
					3.37" X 116'
BT. P.R.D. No.	1717	12 Hour Clock	Depths Mea. From	Kelly bushing	Depth of Tester Valve
					Ft.
Initial Hydro Mud Pres.	2334	2301	Cushion		Depth Back Pres. Valve
					Ft.
Initial Closed in Pres.	1531	1547	Recovered	1200	Feet of sulphur water
Initial Flow Pres.	38	1 34	Recovered		Feet of
	151	2 184			
Final Flow Pres.	151	1 174	Recovered		Feet of
	463	2 491			
Final Closed in Pres.	1531	1546	Recovered		Feet of
Final Hydro Mud Pres.	2315	2296	Oil A.P.I. Gravity		Water Spec. Gravity
Depth Bot. Gauge	4509 Ft.	yes Blanked Off	Gas Gravity		Surface Pressure
					psi
BT. P.R.D. No.	533	12 Hour Clock	Tool Opened	10:45	A.M. Tool Closed
					A.M. P.M.
Initial Hydro Mud Pres.	2334	2360	Remarks	Tool opened with a good blow for a 15	
				minute first flow. Closed in for a 45 minute	
Initial Closed in Pres.				initial closed in pressure. Tool reopened for	
Initial Flow Pres.		1		a 45 minute second flow. Took a 60 minute	
		Hydrostatic		final closed in pressure. Unable to scribe	
Final Flow Pres.		1		3000# line on BT. Chart 1717.	
		2 Release			
Final Closed in Pres.		1728			
Final Hydro Mud Pres.	2315	2354			

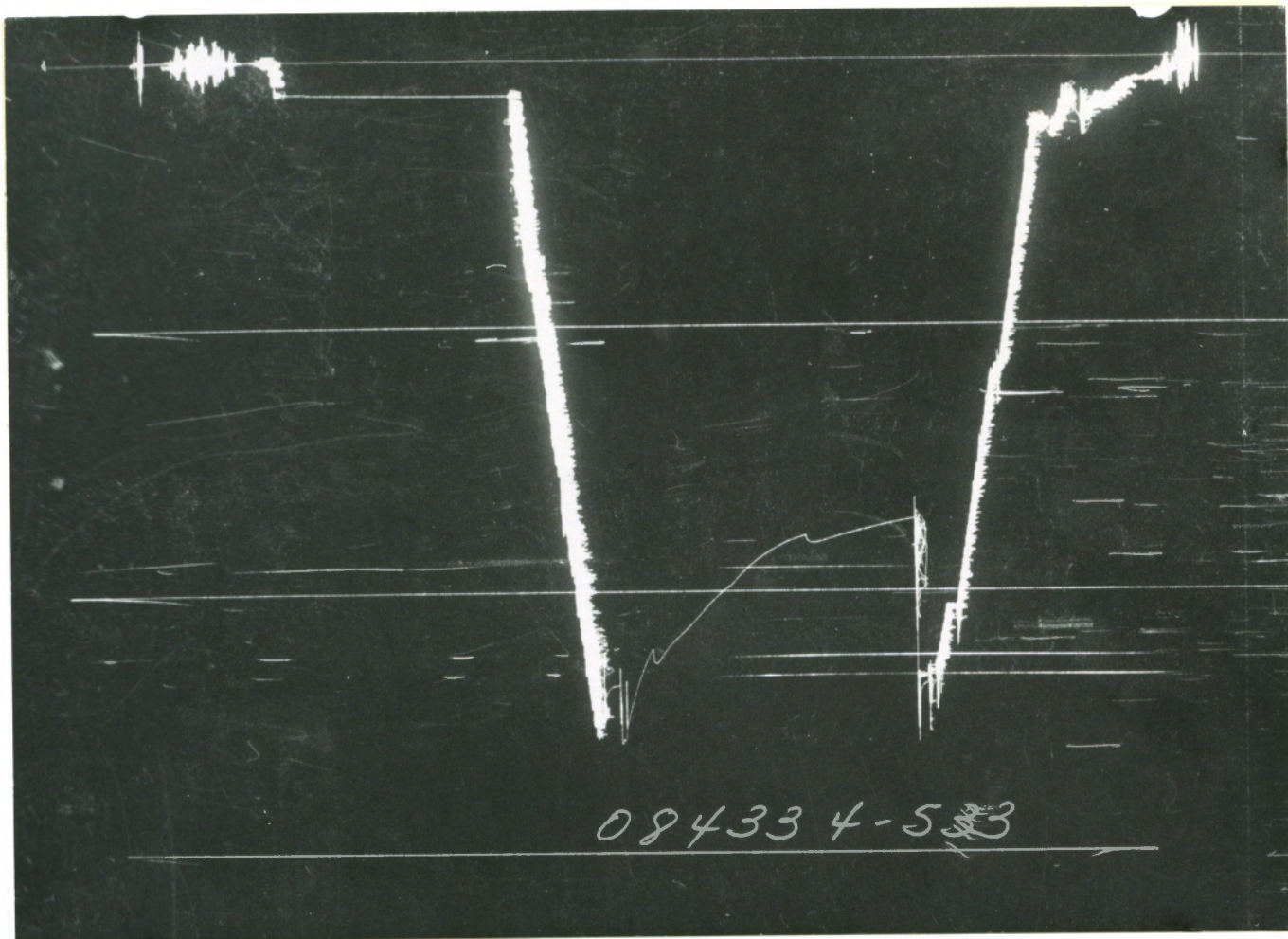
FORMATION TEST DATA

5 27 12  
 Field Area TUKA CARRI  
 County PRATT  
 State KANSAS  
 Lease Owner/Company Name GEORGE J. ADLARI  
 Owner's District KANSAS

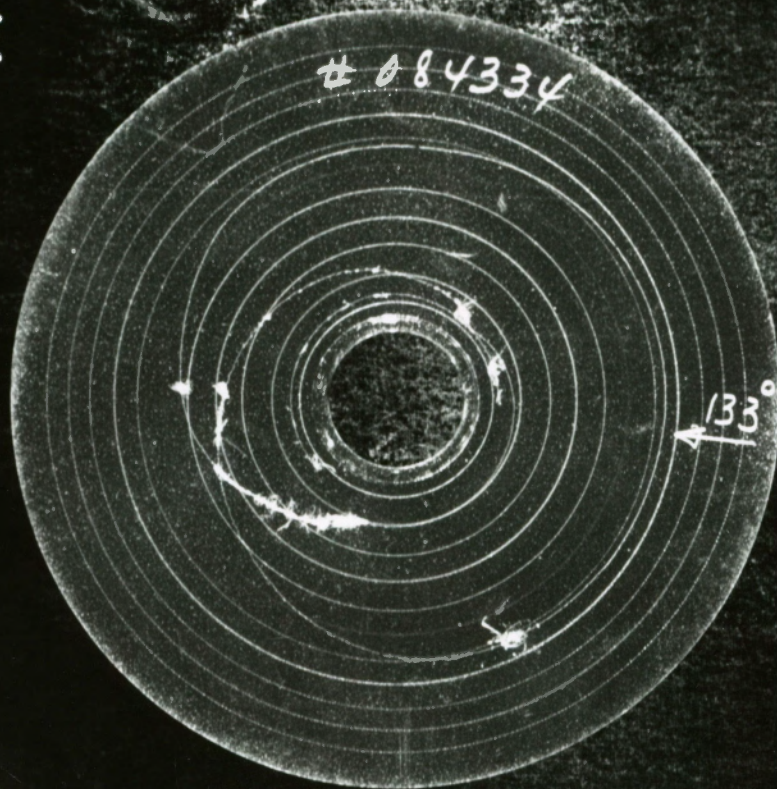
Gauge No.		534		Depth		4355'		Clock		12 hour		Ticket No.		084334	
First Flow Period			Initial Closed In Pressure			Second Flow Period			Final Closed In Pressure						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.					
P <sub>0</sub>	.000	52	.000		155	.000	163	.000		473					
P <sub>1</sub>	.0206	57	.0294		1521	.0602	241	.0417		1521					
P <sub>2</sub>	.0412	76	.0588		1525	.1204	318	.0834		1524					
P <sub>3</sub>	.0618	102	.0882		1525	.1806	390	.1251		1525					
P <sub>4</sub>	.0824	133	.1176		1526	.2408	437	.1668		1526					
P <sub>5</sub>	.1030	155	.1470		1526	.3010	473	.2085		1526					
P <sub>6</sub>			.1764		1527			.2502		1526					
P <sub>7</sub>			.2058		1527			.2919		1526					
P <sub>8</sub>			.2352		1527			.3336		1527					
P <sub>9</sub>			.2646		1527			.3753		1527					
P <sub>10</sub>			.2940		1528			.4170		1527					

Gauge No.		1717		Depth		4390'		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 <sub>0</sub>	.000	34	.000		174	.000	184	.000		491	
P <sub>1</sub>	.0212	59	.0301		1541	.0606	262	.0423		1542	
P <sub>2</sub>	.0424	87	.0602		1544	.1212	339	.0846		1543	
P <sub>3</sub>	.0636	117	.0903		1544	.1818	414	.1269		1543	
P <sub>4</sub>	.0848	146	.1204		1545	.2424	459	.1692		1543	
P <sub>5</sub>	.1060	174	.1505		1547	.3030	491	.2115		1545	
P <sub>6</sub>			.1806		1547			.2538		1547	
P <sub>7</sub>			.2107		1547			.2961		1547	
P <sub>8</sub>			.2408		1547			.3384		1547	
P <sub>9</sub>			.2709		1547			.3807		1547	
P <sub>10</sub>			.3010		1547			.4230		1546	
Reading Interval		3		4.5		9				6 Minutes	

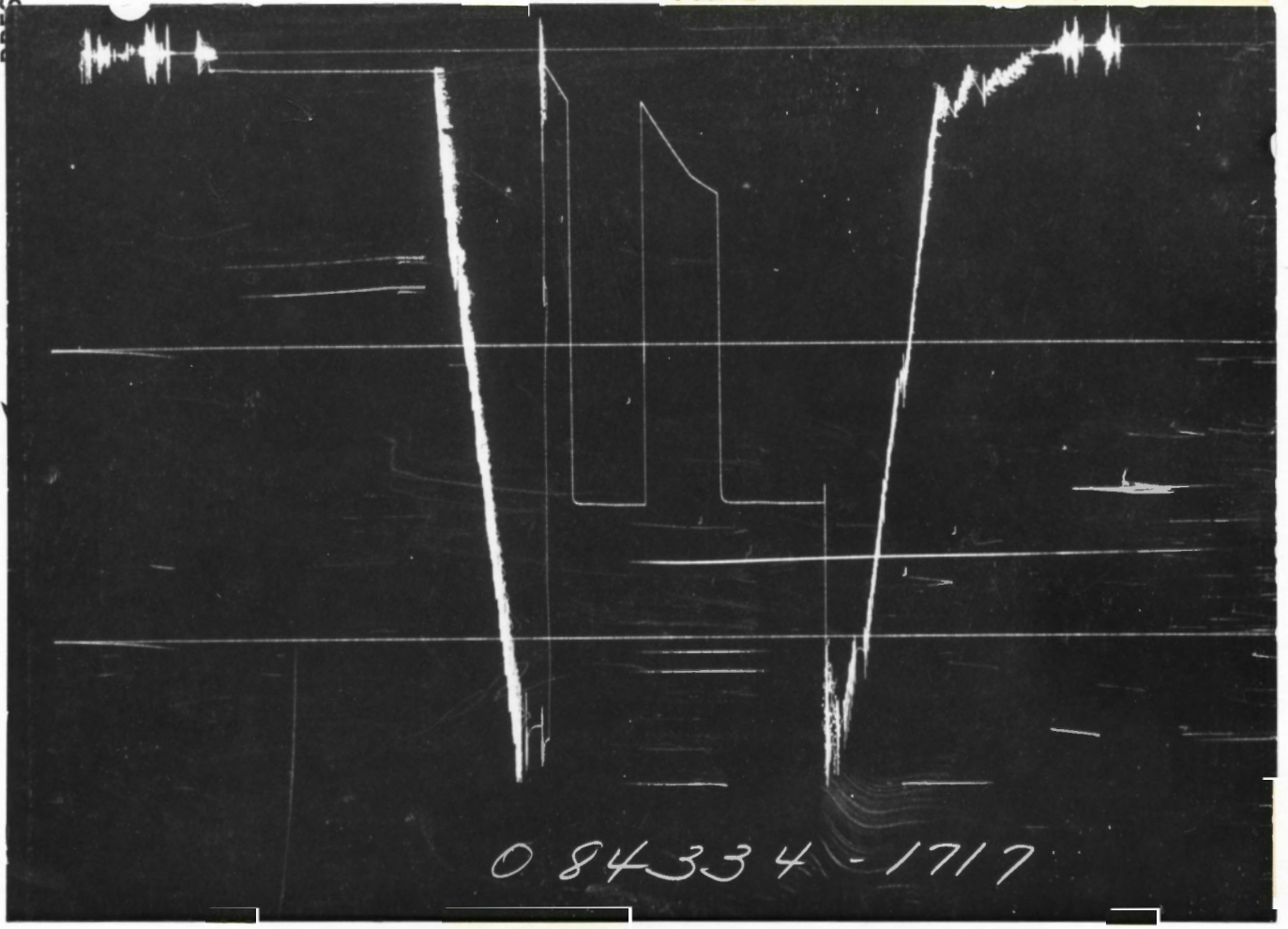
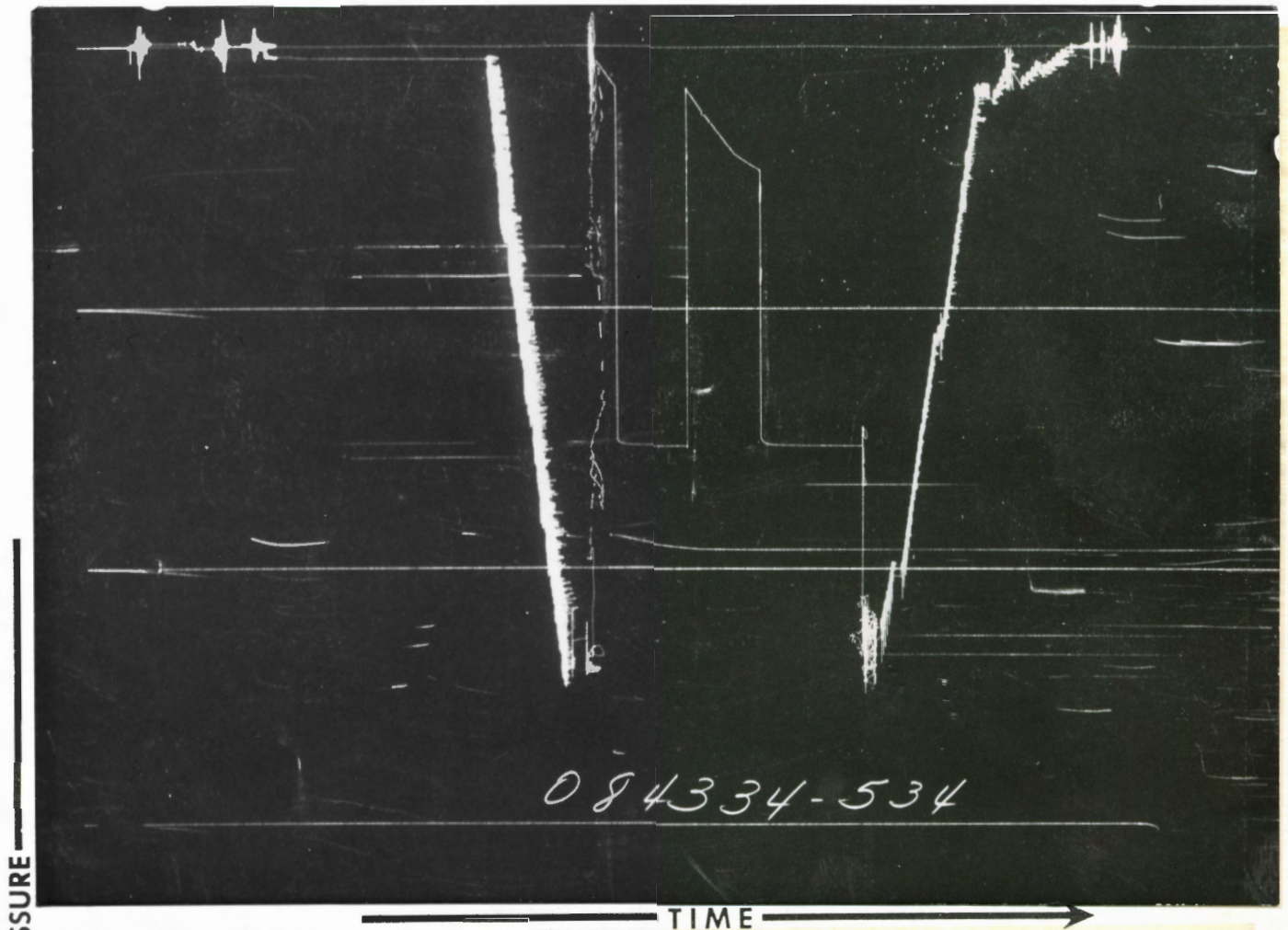
REMARKS:



TEMPERATURE  
RECORDER  
CHART



10° each circle



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

Flow Time	1st	Min.	2nd	Min.	Date	Ticket Number
	15		30		2-6-69	084335
Closed In Press. Time	1st	Min.	2nd	Min.	Kind of Job	Halliburton District
	45		60		STRADDLE TEST OPEN HOLE	PRATT
Pressure Readings	Field			Office Corrected	Tester	Witness
					THOMPSON	THRASHER
Depth Top Gauge	3647'	Ft.	NO	Blanked Off	Drilling Contractor	H-30 drilling, inc.
BT. P.R.D. No.	534		12	Hour Clock	Elevation	1876' D.F.
Initial Hydro Mud Pressure	1969		1973		Top Packer	3662'
Initial Closed in Pres.	123		128		Bottom Packer	3705'
Initial Flow Pres.	10	1	18		Interval Tested	3705-3662'
Final Flow Pres.	19	2	30		Formation Tested	KANSAS CITY
Final Flow Pres.	19	1	21		Casing or Hole Size	7 7/8"
Final Closed in Pres.	47		50		Surface Choke	1"
Final Hydro Mud Pressure	1950		1973		Bottom Choke	3/4"
Depth Cen. Gauge	3701'	Ft.	YES	Blanked Off	Size & Kind Drill Pipe	4 1/2" F.H.
BT. P.R.D. No.	1717		12	Hour Clock	Mud Weight	9.9
Initial Hydro Mud Pres.	1969		2000		Mud Viscosity	42
Initial Closed in Pres.	123		146		Temperature	3700' @ 116° F Est. Actual
Initial Flow Pres.	10	1	37		Anchor Size & Length	ID 3.37" X 43' OD 5"
Final Flow Pres.	19	2	48		Depths Mea. From	KELLY BUSHING
Final Flow Pres.	19	1	38		Cushion	NONE
Final Closed in Pres.	47		65		Depth Back Pres. Valve	-
Final Hydro Mud Pres.	1990		2000		Recovered	20' Feet of mud
Depth Bot. Gauge	3715'	Ft.	YES	Blanked Off	Recovered	Feet of
BT. P.R.D. No.	533		12	Hour Clock	Recovered	Feet of
Initial Hydro Mud Pres.	1969		1998		Recovered	Feet of
Initial Closed in Pres.	-		-		Oil A.P.I. Gravity	
Initial Flow Pres.	-	1	-		Water Spec. Gravity	
Final Flow Pres.	-	2	-		Gas Gravity	
Final Closed in Pres.	-	1	-		Surface Pressure	psi
Final Hydro Mud Pres.	1950		1998		Tool Opened	A.M. P.M.
					Tool Closed	A.M. P.M.
					Remarks	On bottom @ 10:13 - tool opened @ 10:15
						for a 15 minute first flow, Tool closed @ 10:30
						for a 45 minute initial closed in pressure. Tool
						reopened @ 11:15 for a 30 minute second flow period.
						Tool closed @ 11:45 for a 60 minute final closed in
						pressure. Off bottom @ 12:45...

FORMATION TEST DATA

Legal Location  
Sec. - Twp. - Rng. 5 - 27 - 12

DICKEMAN  
Lease Name

1  
Well No. 10

Field Area

TUCA CARM

County

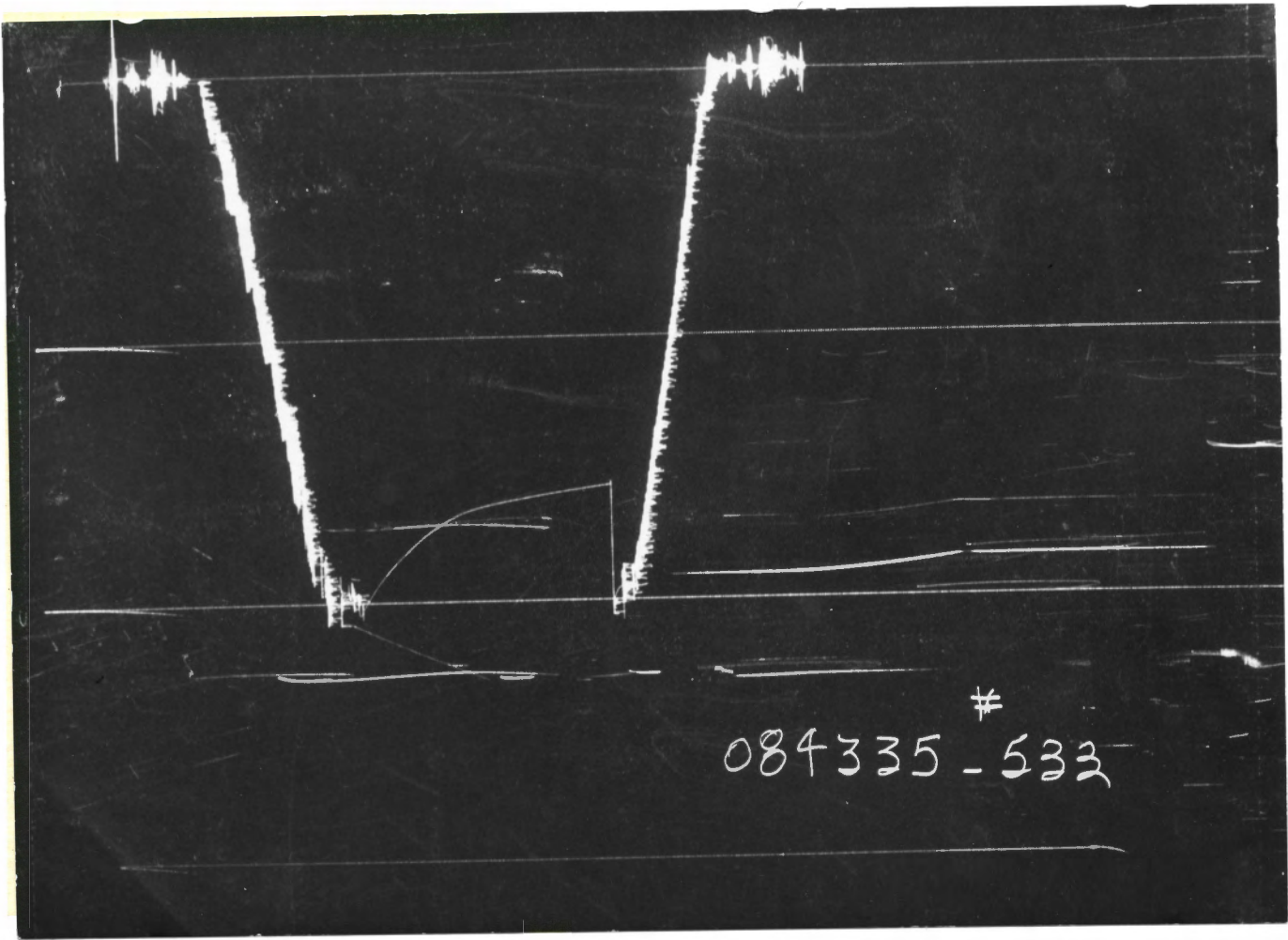
PRATT

State

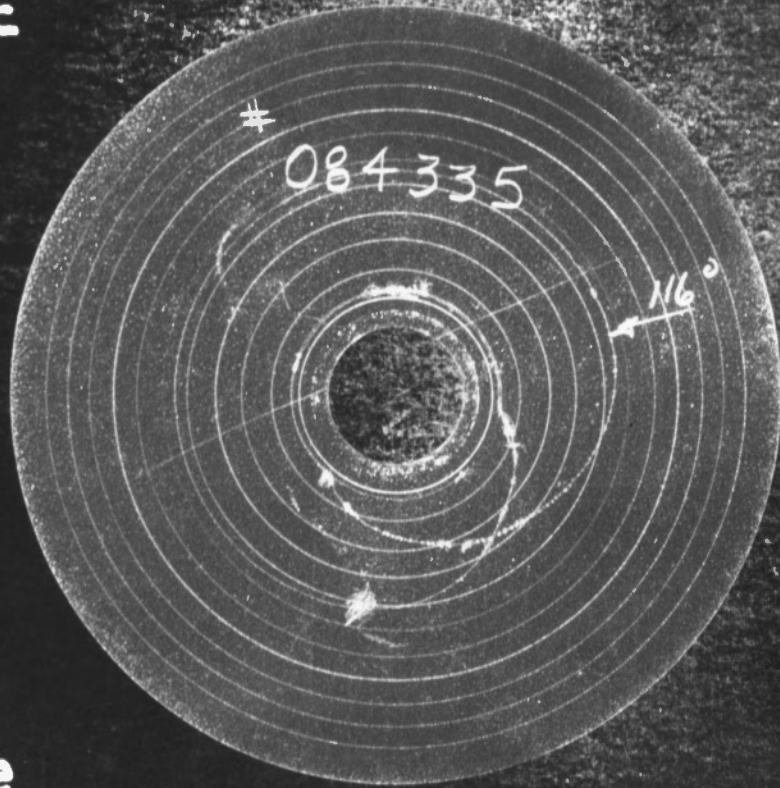
KANSAS

GEORGE J. ABIAH  
Lease Owner/Company Name

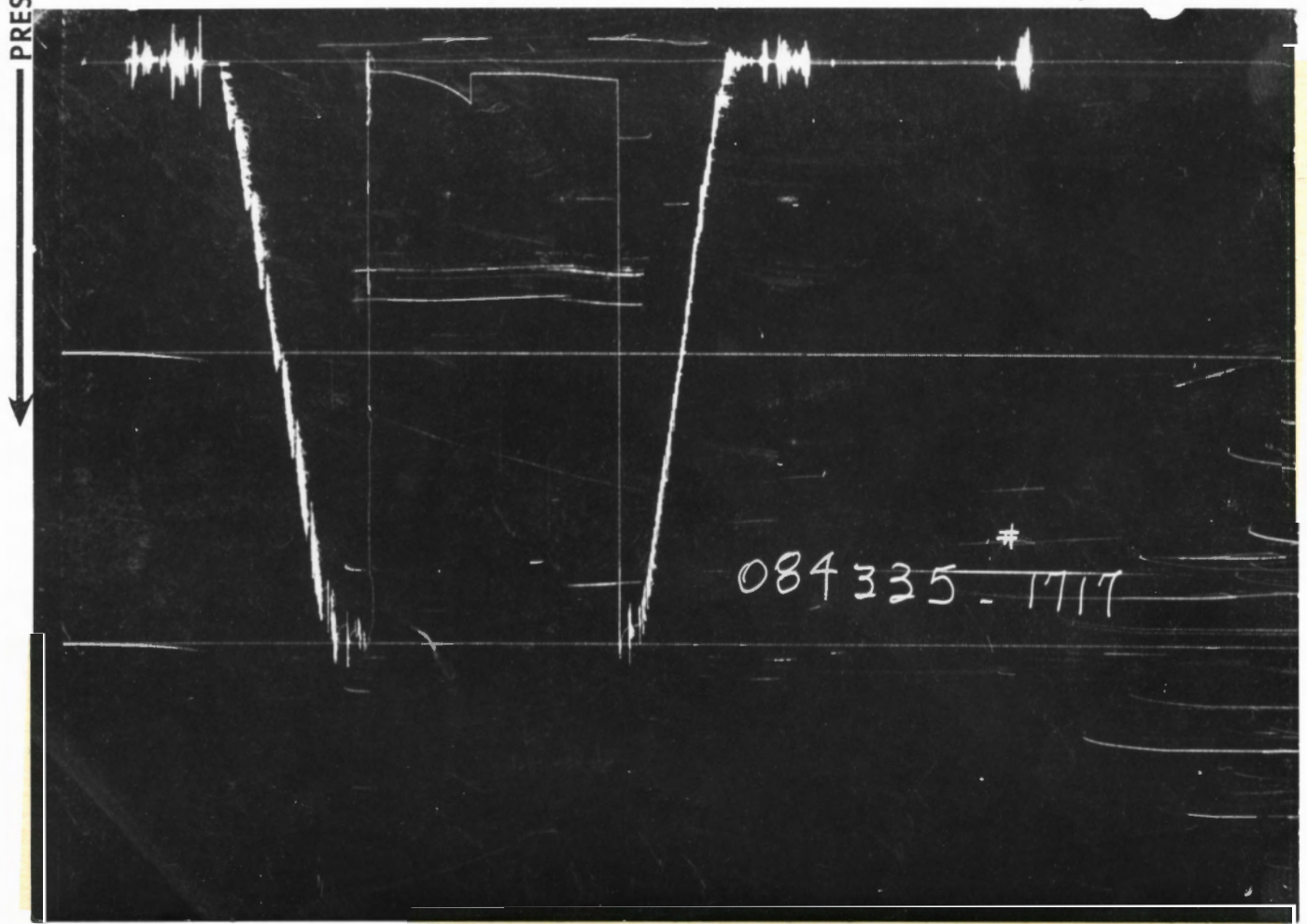
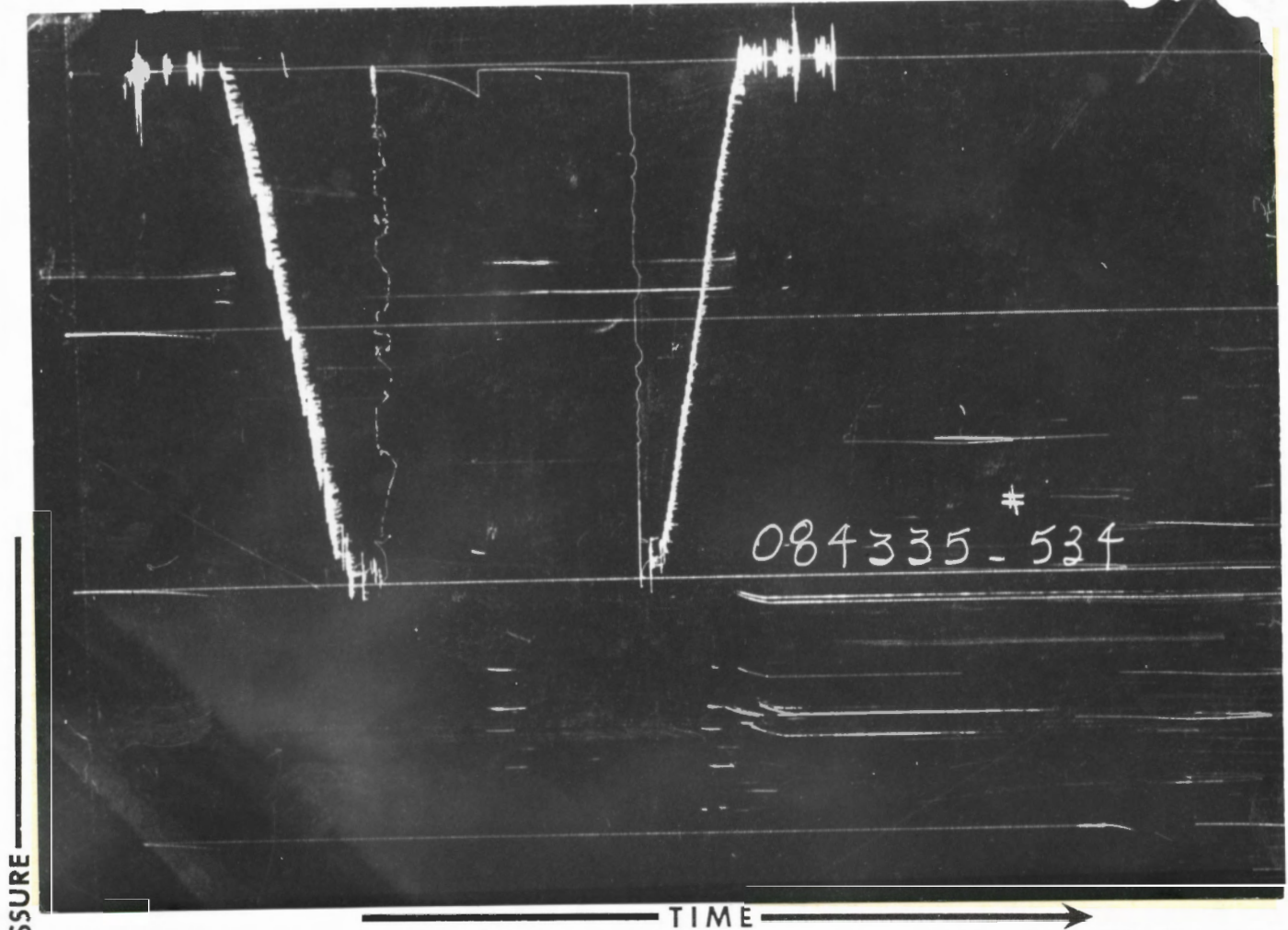
KANSAS  
Owner's District



**TEMPERATURE  
RECORDER  
CHART**



10° each circle

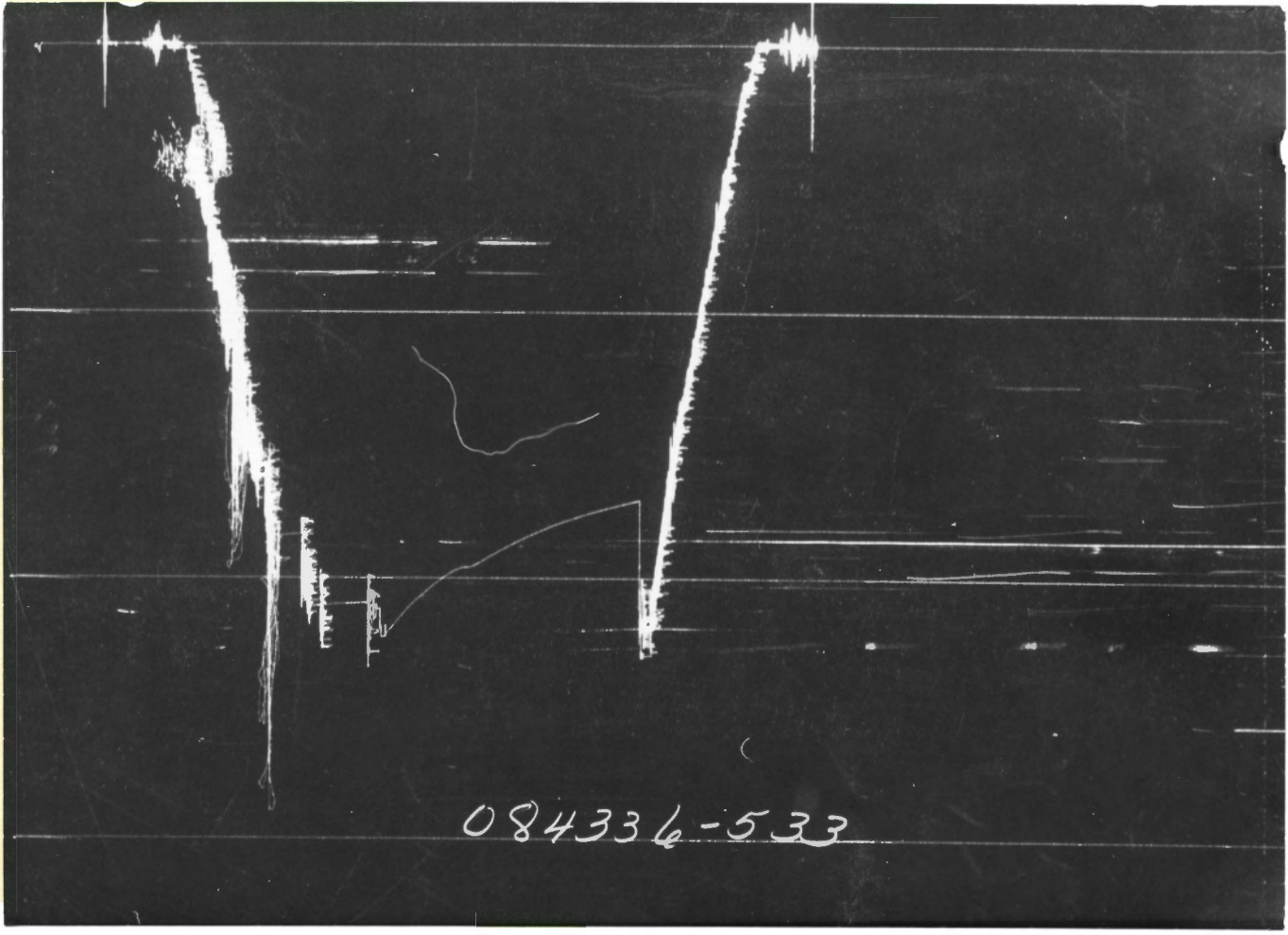


Each Horizontal Line Equal to 1000 p.s.i.

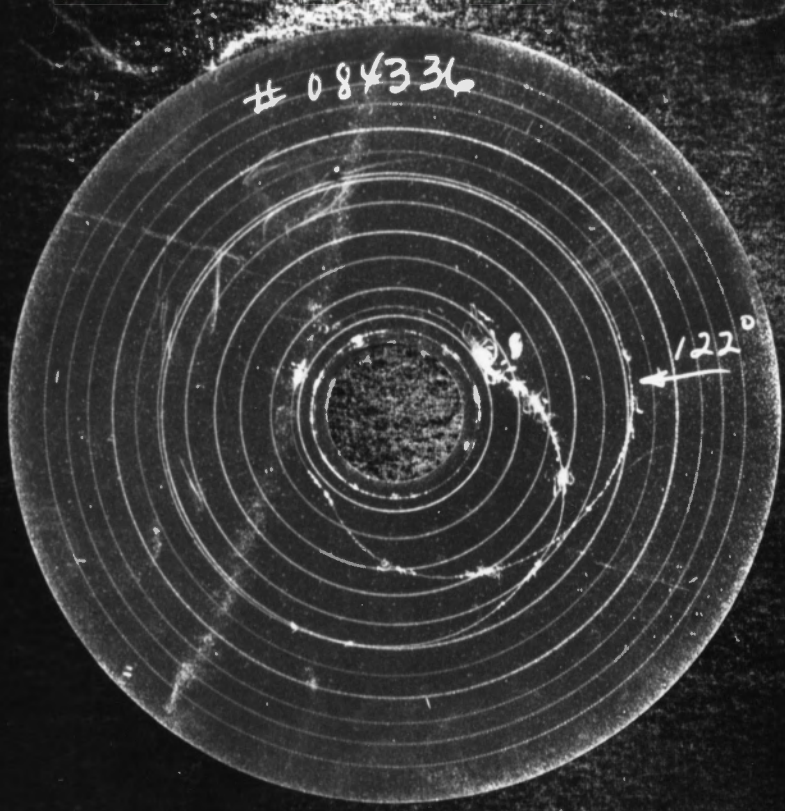
Flow Time	1st 15 Min.	2nd 30 Min.	Date	2-6-69	Ticket Number	084336
Closed In Press. Time	1st 45 Min.	2nd 60 Min.	Kind of Job	STRADDLE OPEN HOLE	Halliburton District	PRATT
Pressure Readings	Field	Office Corrected	Tester	BILL THOMPSON	Witness	GLEN THRASHER
Depth Top Gauge	3965 Ft.	No Blanked Off	Drilling Contractor	H30, INCORPORATED		DH
BT. P.R.D. No.	534	12 Hour Clock	Elevation	1876' DF	Top Packer	3980'
Initial Hydro Mud Pressure	2126	2112	Total Depth	4513'	Bottom Packer	4000'
Initial Closed in Pres.	132	125	Interval Tested	3980' 4000'	Formation Tested	Kansas City
Initial Flow Pres.	10	1 13	Casing or Hole Size	7 7/8"	Casing Perfs. } Top	-
	10	2 22			Casing Perfs. } Bot.	-
Final Flow Pres.	10	1 15	Surface Choke	1"	Bottom Choke	3/4"
	19	2 16				
Final Closed in Pres.	28	32	Size & Kind Drill Pipe	4 1/2" FH	Drill Collars Above Tester	-
Final Hydro Mud Pressure	2142	2099	Mud Weight	9.9	Mud Viscosity	42
Depth Cen. Gauge	3994 Ft.	Yes Blanked Off	Temperature	3963' - 122°	Anchor Size & Length	ID 3.37" X 20' OD 5"
BT. P.R.D. No.	1717	12 Hour Clock	Depths Mea. From	Kelly Bushing	Depth of Tester Valve	3955' Ft.
Initial Hydro Mud Pres.	2126	2139	TYPE AMOUNT		Depth Back Pres. Valve	- Ft.
Initial Closed in Pres.	132	136	Cushion	- Ft.	Recovered	5' Feet of mud
Initial Flow Pres.	10	1 24			Recovered	Feet of
	10	2 31			Recovered	Feet of
Final Flow Pres.	10	1 24			Recovered	Feet of
	19	2 27			Recovered	Feet of
Final Closed in Pres.	28	43				
Final Hydro Mud Pres.	2142	2128	Oil A.P.I. Gravity		Water Spec. Gravity	
Depth Bot. Gauge	4015 Ft.	Yes Blanked Off	Gas Gravity		Surface Pressure	psi
BT. P.R.D. No.	533	12 Hour Clock	Tool Opened	8:00 AM	A.M. Tool Closed	9:30 AM
Initial Hydro Mud Pres.	2126	2227	Remarks			
Initial Closed in Pres.			Opened tool for 15 minute first flow. Closed tool for 45 minute initial closed in pressure.			
Initial Flow Pres.		1	Reopened tool for 30 minute final flow. Closed			
		2	tool for 60 minute final closed in pressure.			
Final Flow Pres.		1	HYDROSTATIC RELEASE			
Final Closed in Pres.		1706				
Final Hydro Mud Pres.	2142	2215				

Legal Location Sec. - Twp. - Rng. 5-27-12  
 Lease Name DIKEMAN  
 Well No. 1  
 Test No. 11  
 Field Area IUKA CARMIE County PRATT  
 Lease Owner/Company Name GEORGE J. ARLAH  
 Owner's District KANSAS

FORMATION TEST DATA



**TEMPERATURE  
RECORDER  
CHART**



10° each circle

PRESSURE

TIME

084336-534

084336-1717

*x-lines in error*

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

Flow Time	1st Min.	2nd Min.	Date	Ticket Number	084337	S	
Closed In Pres. Time	45	60	Kind of Job	STRADDLE OPEN HOLE	Halliburton District	PRATT	
Pressure Readings	Field	Office Corrected	Tester	BILL THOMPSON	Witness	GLEN THRASLER	
Depth Top Gauge	3547' Ft.	Blanked Off No	Drilling Contractor	H-30 INCORPORATED	DH		
BT. P.R.D. No.	534	12 Hour Clock	Elevation	1876' DF	Top Packer	3562'	
Initial Hydro Mud Pressure	2161	1886	Total Depth	4513'	Bottom Packer	3578'	
Initial Closed in Pres.	1342	1359	Interval Tested	3563' - 3578'	Formation Tested	Douglas	
Initial Flow Pres.	57	1	Casing or Hole Size	7 7/8"	Casing Perfs.	Top	
	321	2				331	Bot.
Final Flow Pres.	312	1	Surface Choke	1"	Bottom Choke	3/4"	
	624	2				633	
Final Closed in Pres.	1342	1345	Size & Kind Drill Pipe	4 1/2" F <sub>h</sub>	Drill Collars Above Tester	-	
Final Hydro Mud Pressure	2142	1879	Mud Weight	9.9	Mud Viscosity	42	
Depth Cen. Gauge	3574' Ft.	Blanked Yes Off	Temperature	122 °F Est.	Anchor Size & Length	ID 3.37"	
				3572' - 121 °F Actual		OD 5"	X 16'
BT. P.R.D. No.	1717	12 Hour Clock	Depths Mea. From	Kelly Bushing	Depth of Tester Valve	3537' Ft.	
Initial Hydro Mud Pres.	2164	1892	TYPE AMOUNT		Depth Back Pres. Valve	- Ft.	
			Cushion	-		-	
Initial Closed in Pres.	1342	1367	Recovered	1260'	Feet of water		
Initial Flow Pres.	57	1	Recovered		Feet of		
	321	2				337	
Final Flow Pres.	312	1	Recovered		Feet of		
	624	2				642	
Final Closed in Pres.	1342	1354	Recovered		Feet of		
Final Hydro Mud Pres.	2142	1885	Oil A.P.I. Gravity		Water Spec. Gravity		
Depth Bot. Gauge	3593' Ft.	Blanked Yes Off	Gas Gravity		Surface Pressure	psi	
BT. P.R.D. No.	533	12 Hour Clock	Tool Opened	3:30 PM	A.M. P.M.	Tool Closed	
Initial Hydro Mud Pres.	2161	1893	Remarks	Opened tool for 15 minute initial flow with			
Initial Closed in Pres.			a good blow. Closed tool for 45 minute initial				
Initial Flow Pres.	1		closed in pressure. R <sup>E</sup> Opened tool for 45 minute				
	2		final flow. Closed tool for 60 minute final				
Final Flow Pres.	1		HYDROSTATIC RELEASE				
Final Closed in Pres.		1503	closed in pressure.				
Final Hydro Mud Pres.	2142	1886					

Legal Location Sec. - Twp. - Rng. 5-27-12  
 Lease Name  
 Wall No.  
 Test No.  
 Field Area  
 LUKA CARM  
 County  
 PRATT  
 State  
 KANSAS

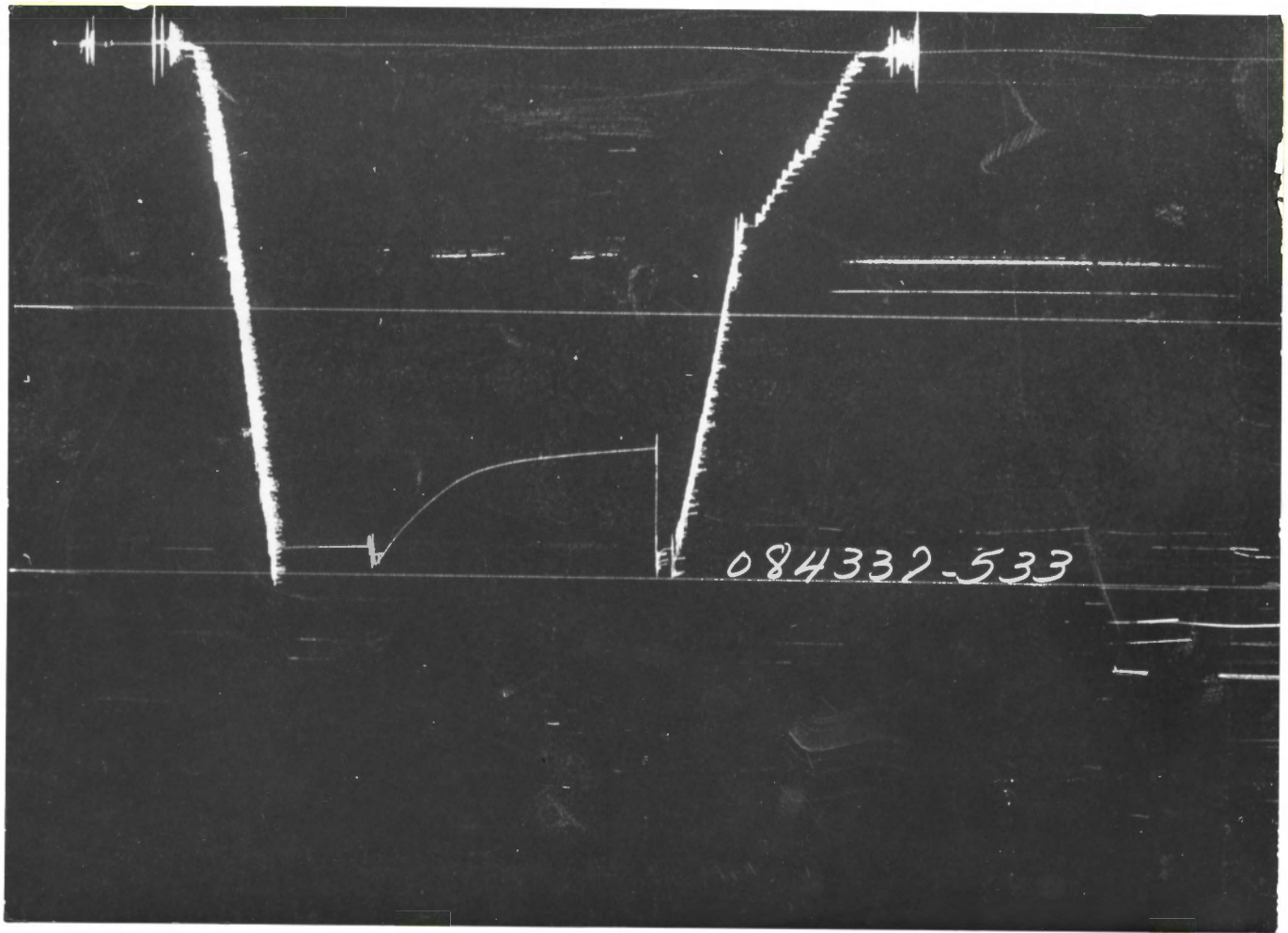
Lease Owner/Company Name  
 J. ADLATH  
 Owner's District  
 KANSAS

FORMATION TEST DATA

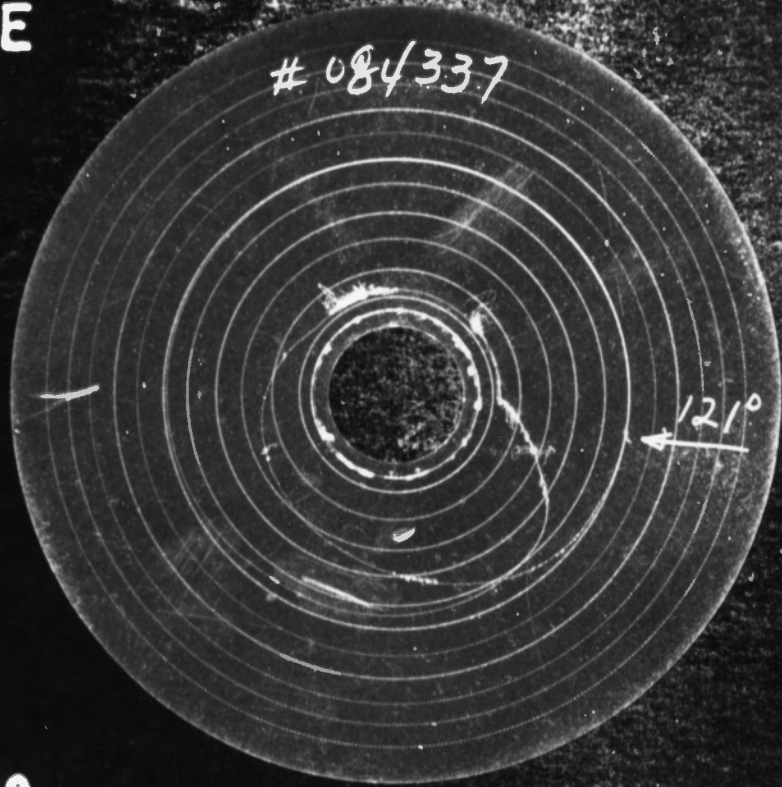
Gauge No. 534		Depth 3547'		Clock 12 hour		Ticket No. 084337				
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	
P <sub>0</sub>	.000	74	.000		318	.000	331	.000		633
P <sub>1</sub>	.022	114	.0352		1215	.0618	446	.0424		1195
P <sub>2</sub>	.044	171	.0704		1270	.1236	502	.0848		1264
P <sub>3</sub>	.066	225	.1056		1300	.1854	550	.1272		1288
P <sub>4</sub>	.088	272	.1408		1319	.2472	594	.1696		1304
P <sub>5</sub>	.110	318	.1760		1331	.3090	633	.2120		1315
P <sub>6</sub>			.2112		1341			.2544		1324
P <sub>7</sub>			.2464		1348			.2968		1331
P <sub>8</sub>			.2816		1354			.3392		1336
P <sub>9</sub>			.3170		1359			.3816		1341
P <sub>10</sub>								.4240		1345
Gauge No. 1717		Depth 3574'		Clock 12 hour						
P <sub>0</sub>	.000	139	.000		355	.000	337	.000		642
P <sub>1</sub>	.021	176	.0339		1219	.059	457	.0409		1229
P <sub>2</sub>	.042	231	.0678		1279	.118	512	.0818		1271
P <sub>3</sub>	.063	279	.1017		1310	.177	561	.1227		1295
P <sub>4</sub>	.084	313	.1356		1330	.236	603	.1636		1312
P <sub>5</sub>	.105	355	.1695		1342	.295	642	.2045		1323
P <sub>6</sub>			.2034		1351			.2454		1332
P <sub>7</sub>			.2373		1358			.2863		1339
P <sub>8</sub>			.2712		1364			.3272		1345
P <sub>9</sub>			.3050		1367			.3681		1348
P <sub>10</sub>								.4090		1354
Reading Interval 3		5		9		6				Minutes
REMARKS:										

SPECIAL PRESSURE DATA

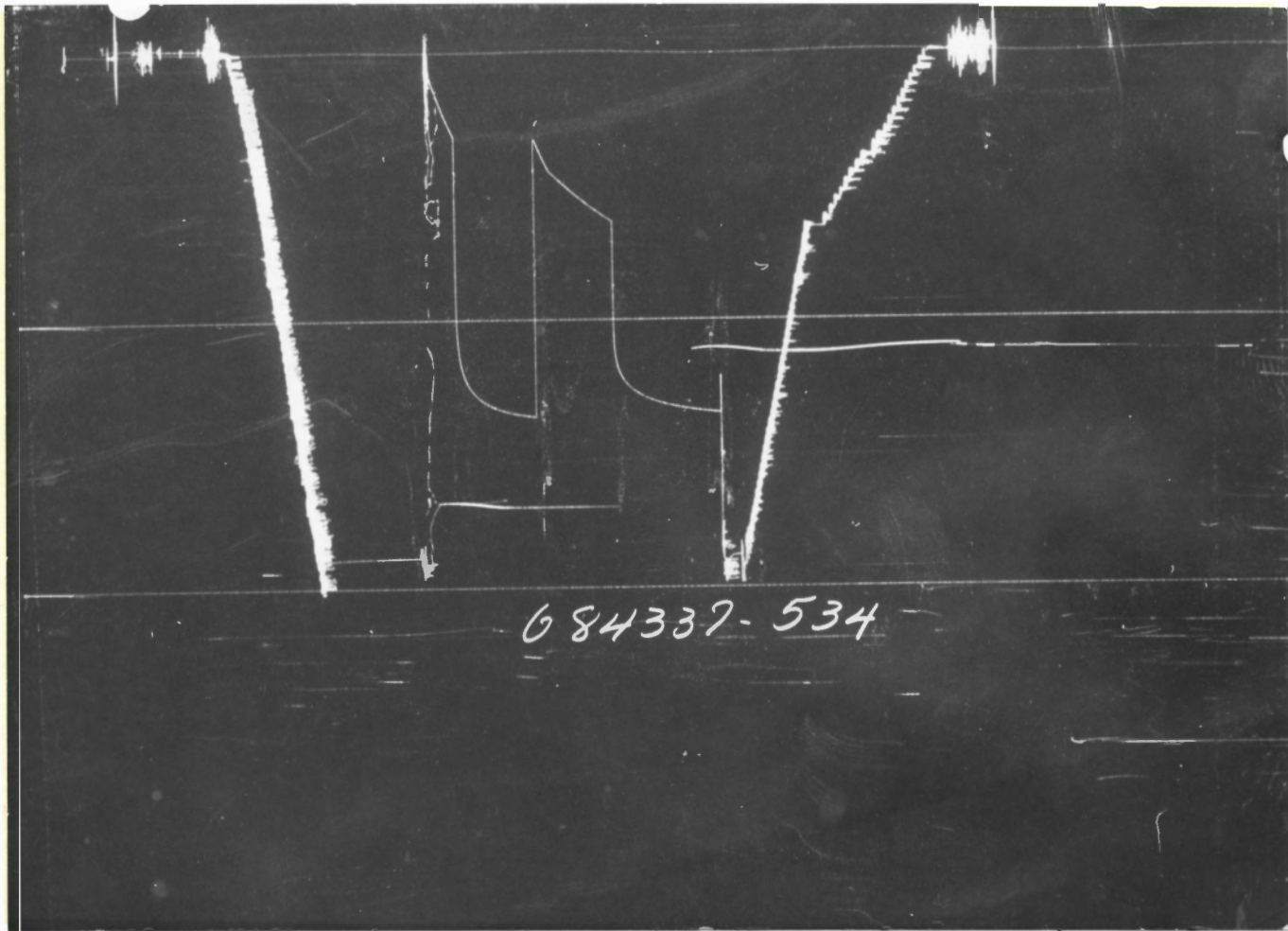
5



**TEMPERATURE  
RECORDER  
CHART**

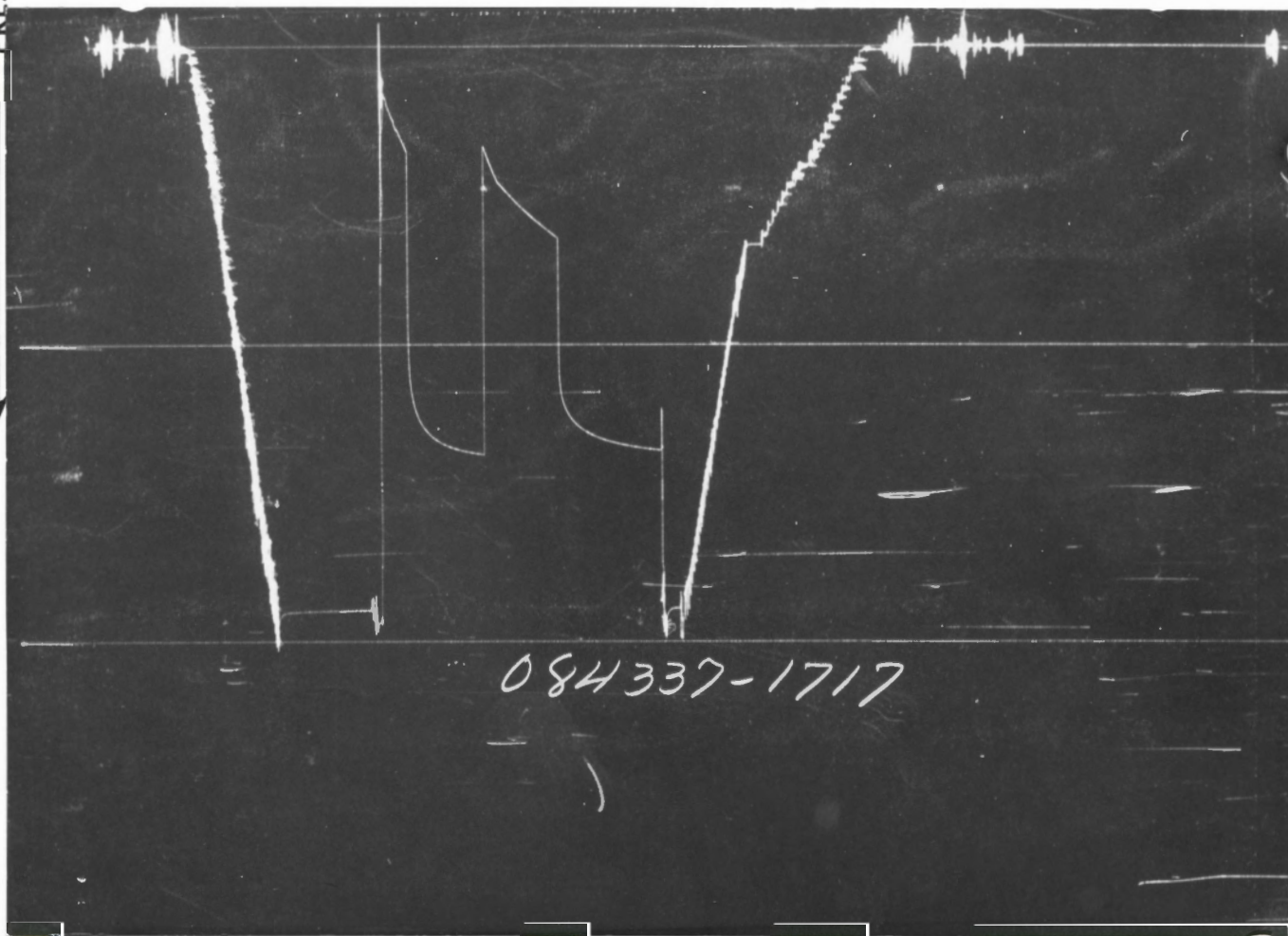


10° each circle



PRESSURE

TIME



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

# NOMENCLATURE

<b>b</b>	= Approximate Radius of Investigation .....	Feet
<b>b<sub>1</sub></b>	= Approximate Radius of Investigation (Net Pay Zone h <sub>1</sub> ) .....	Feet
<b>D.R.</b>	= Damage Ratio .....	—
<b>El</b>	= Elevation .....	Feet
<b>GD</b>	= B.T. Gauge Depth (From Surface Reference) .....	Feet
<b>h</b>	= Interval Tested .....	Feet
<b>h<sub>1</sub></b>	= Net Pay Thickness .....	Feet
<b>K</b>	= Permeability .....	md
<b>K<sub>1</sub></b>	= Permeability (From Net Pay Zone h <sub>1</sub> ) .....	md
<b>m</b>	= Slope Extrapolated Pressure Plot (Psi <sup>2</sup> /cycle Gas) .....	psi/cycle
<b>OF<sub>1</sub></b>	= Maximum Indicated Flow Rate .....	MCF/D
<b>OF<sub>2</sub></b>	= Minimum Indicated Flow Rate .....	MCF/D
<b>OF<sub>3</sub></b>	= Theoretical Open Flow Potential with/Damage Removed Max. ....	MCF/D
<b>OF<sub>4</sub></b>	= Theoretical Open Flow Potential with/Damage Removed Min. ....	MCF/D
<b>P<sub>s</sub></b>	= Extrapolated Static Pressure .....	Psig.
<b>P<sub>f</sub></b>	= Final Flow Pressure .....	Psig.
<b>P<sub>or</sub></b>	= Potentiometric Surface (Fresh Water *) .....	Feet
<b>Q</b>	= Average Adjusted Production Rate  During Test .....	bbls/day
<b>Q<sub>1</sub></b>	= Theoretical Production w/Damage Removed .....	bbls/day
<b>Q<sub>g</sub></b>	= Measured Gas Production Rate .....	MCF/D
<b>R</b>	= Corrected Recovery .....	bbls
<b>r<sub>w</sub></b>	= Radius of Well Bore .....	Feet
<b>t</b>	= Flow Time .....	Minutes
<b>t<sub>o</sub></b>	= Total Flow Time .....	Minutes
<b>T</b>	= Temperature Rankine .....	°R
<b>Z</b>	= Compressibility Factor .....	—
<b>μ</b>	= Viscosity Gas or Liquid .....	CP
<b>Log</b>	= Common Log	

\* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.