

THOMAS
Lease Name

6
Well No.

1
Test No.

4341-4350
Tested Interval

KINGMAN
County

KANSAS
State

HINKS PETROLEUM CORPORATION
Lease Owner/Company Name

Legal Location
Sec. - Twp. - Rng.

27 30S 7W NW SW SW

Field Area
RUTH N.E.

FLUID SAMPLE DATA

Sampler Pressure _____ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas _____
cc. Oil _____
cc. Water _____
cc. Mud _____
Tot. Liquid cc. _____

Gravity _____ ° API @ _____ ° F.
Gas/Oil Ratio _____ cu. ft./bbl.

RESISTIVITY CHLORIDE CONTENT
Recovery Water _____ @ _____ ° F. _____ ppm
Recovery Mud _____ @ _____ ° F. _____ ppm
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm
Mud Pit Sample _____ @ _____ ° F. _____ ppm
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm
Mud Weight 9.4 vis 45 cp

Date 2-5-71 Ticket Number 335805
Kind of Job OPEN HOLE Halliburton District GREAT BEND
Tester LARRY MOORE Witness R. GRANT
Drilling Contractor H-30 INCORPORATED SM S

EQUIPMENT & HOLE DATA

Formation Tested Mississippi
Elevation 1601' KB Ft.
Net Productive Interval 9' Ft.
All Depths Measured From Kelly bushing
Total Depth 4350' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length WP 1006.50' I.D. 2.50"
Drill Pipe Length 3132.05' I.D. 3.826"
Packer Depth(s) 4336' - 4341' Ft.
Depth Tester Valve 4324' Ft.

TYPE AMOUNT Depth Back Surface Bottom
Cushion Ft. Pres. Valve 4325' Choke 1/4" Choke 3/4"

Recovered	40	Feet of oil and gas cut mud
Recovered	60	Feet of slightly oil and gas cut watery mud
Recovered		Feet of
Recovered		Feet of
Recovered		Feet of

Remarks Tool opened for 61 minute first flow with weak blow, increased to good blow.
Closed for 43 minute first closed in pressure. Tool reopened for 69
minute second flow with a good blow, gas to the surface in 61 minutes, too
small to measure. Closed for 60 minute second closed in pressure.

TEMPERATURE	Gauge No. 585		Gauge No. 297		Gauge No.		TIME	
	Depth:	4329 Ft.	Depth:	4345 Ft.	Depth:	Ft.	Hour Clock	
Est. °F.	Blanked Off no		Blanked Off yes		Blanked Off		Tool Opened	1412 P.M.
Actual 4344' °F.							Tool Closed	1757 P.M.
	Pressures		Pressures		Pressures		Reported	Computed
	Field	Office	Field	Office	Field	Office	Minutes	Minutes
Initial Hydrostatic	-	2171	2155	2182				
First Period Flow	Initial	35	35	45			60	61
	Final	48	62	55			45	43
	Closed in	716	714	714				
Second Period Flow	Initial	45	53	60			68	69
	Final	62	71	67			60	60
	Closed in	1003	995	1005				
Third Period Flow	Initial							
	Final							
Closed in								
Final Hydrostatic	-	2160	2155	2165				

FORMATION TEST DATA

LITTLE'S

15

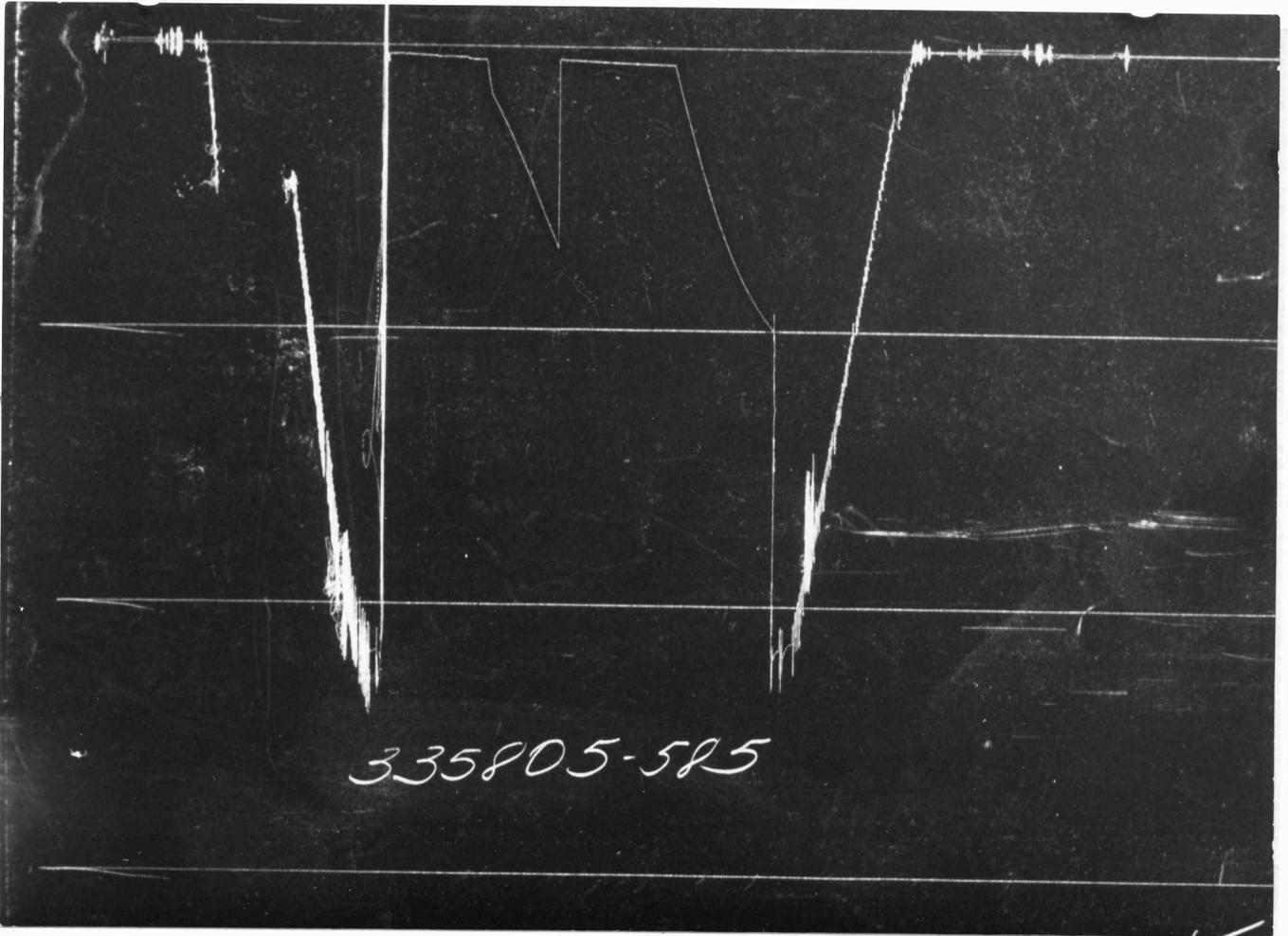
Gauge No.		585		Depth		4329'		Clock No.		7098		12 hour		Ticket No.		335805			
First Flow Period		First In Pressure		Second Flow Period		Second In Pressure		Third Flow Period		Third In Pressure		Time Defl. .000"		PSIG Temp. Corr.		Time Defl. .000"		PSIG Temp. Corr.	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.		
0	.000	.000		.000	45	.000		.000	62	.000		.000	62	.000		.000	62		
1	.0654	.288		.0661	49	.0661		.040	203	.040		.040	203	.040		.040	203		
2	.1308			.1322	52	.1322		.080	332	.080		.080	332	.080		.080	332		
3	.1962			.1983	55	.1983		.120	459	.120		.120	459	.120		.120	459		
4	.2616			.2644	56	.2644		.160	573	.160		.160	573	.160		.160	573		
5	.3270			.3305	58	.3305		.200	676	.200		.200	676	.200		.200	676		
6	.3990*			.3966	60	.3966		.240	761	.240		.240	761	.240		.240	761		
7				.4560**	62	.4560**		.280	839	.280		.280	839	.280		.280	839		
8								.320	905	.320		.320	905	.320		.320	905		
9								.360	959	.360		.360	959	.360		.360	959		
10								.400	1003	.400		.400	1003	.400		.400	1003		
11																			
12																			
13																			
14																			
15																			
Gauge No. 297		Depth		4345'		Clock No.		4197		12 hour		Minutes							
0	.000	.000		.000	60	.000		.000	67	.000		.000	67	.000		.000	67		
1	.0669	.291		.067	54	.067		.0405	208	.0405		.0405	208	.0405		.0405	208		
2	.1338			.134	57	.134		.0810	339	.0810		.0810	339	.0810		.0810	339		
3	.2007			.201	58	.201		.1215	466	.1215		.1215	466	.1215		.1215	466		
4	.2676			.268	62	.268		.1620	578	.1620		.1620	578	.1620		.1620	578		
5	.3345			.335	64	.335		.2025	681	.2025		.2025	681	.2025		.2025	681		
6	.4080*			.402	65	.402		.2430	766	.2430		.2430	766	.2430		.2430	766		
7				.462**	67	.462**		.2835	843	.2835		.2835	843	.2835		.2835	843		
8								.3240	906	.3240		.3240	906	.3240		.3240	906		
9								.3645	960	.3645		.3645	960	.3645		.3645	960		
10								.4050	1005	.4050		.4050	1005	.4050		.4050	1005		
11																			
12																			
13																			
14																			
15																			
Reading Interval 10		10		6		6		6		6		6		6		6			

REMARKS: *Last interval is equal to 11 minutes. **Last = 9 minutes.

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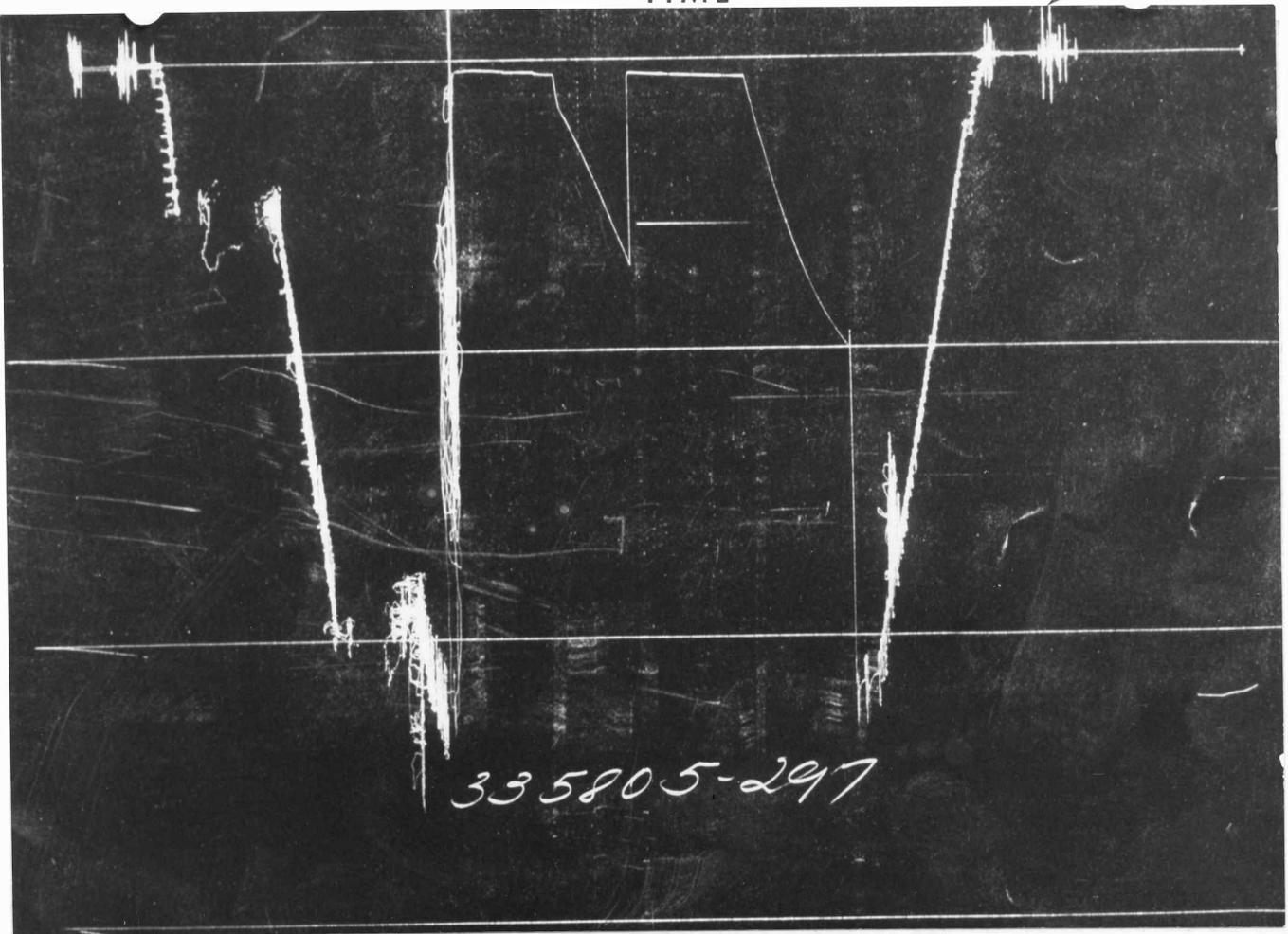


	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3132.05'	
Drill Collars = Weight Pipe	4 1/2"	2.50"	1006.50'	
Handling Sub & Choke Assembly	5"	.87"	60.92"	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	60.21"	4324'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4329'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	4336'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	4341'
Flush Joint Anchor	5"	2.37"	2'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5"	3.06"	61.63"	4345'



PRESSURE

TIME



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

TEMPERATURE
RECORDER
CHART



10° each circle

Legal Location
Sec. - Twp. - Rng.

27 - 30 - 7

Field Area

RUTH NORTHEAST

County

KINGMAN

State

KANSAS

THOMAS

Well No. 6

Test No. 2

4343' - 4360'
Tested Interval

HINKS PETROLEUM CORPORATION
Lease Owner/Company Name

FLUID SAMPLE DATA				Date	2-6-71	Ticket Number	335806
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____ Gravity 38 ° API @ 60 ° F. Gas/Oil Ratio _____ cu. ft./bbl.				Kind of Job	OPEN HOLE	Halliburton District	GREAT BEND
				Tester	MR. MOORE	Witness	MR. GRANT
				Drilling Contractor	H-30 INCORPORATED	IC	S
EQUIPMENT & HOLE DATA							
				Formation Tested	Mississippi		
				Elevation	1601'	KB	Ft.
				Net Productive Interval	17'		Ft.
				All Depths Measured From	Kelly Bushing		
				Total Depth	4360'		Ft.
				Main Hole/Casing Size	7 7/8"		
				Drill Collar Length	WT.P. 1006.50'	I.D. 2.50"	
				Drill Pipe Length	3332.05'	I.D. 3.826"	
				Packer Depth(s)	4338' - 4343'		Ft.
				Depth Tester Valve	4326'		Ft.
				Cushion TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke
					-	4325'	1"
							Bottom Choke
							3/4"
				Recovered	60	Feet of	Oil cut mud
				Recovered	60	Feet of	Heavy oil cut mud
				Recovered	480	Feet of	Froggy oil
				Recovered	510	Feet of	Clean gassy oil
				Recovered	1530	Feet of	Saltwater
Remarks							
Opened tool for 58 minute first flow with a good blow; gas to surface in 6 minutes - too small to measure. Closed tool for 60 minute initial closed in pressure.							
Reopened tool for 59 minute second flow with a good blow. Closed tool for 63 minute second closed in pressure.							
TEMPERATURE		Gauge No. 585	Gauge No. 297	Gauge No.	TIME		
		Depth: 4331' Ft.	Depth: 4355' Ft.	Depth: Ft.			
		12 Hour Clock	12 Hour Clock	Hour Clock	Tool A.M.		
Est. °F.		Blanked Off NO	Blanked Off YES	Blanked Off	Opened 04:15 P.M.		
4354' @ Actual 133 °F.		Pressures		Pressures		Tool A.M.	
		Pressures		Pressures		Closed 08:15 P.M.	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic		-	2175	2191	2194	Reported	Computed
						Minutes	Minutes
First Period	Flow Initial	-	258	309	292		
	Flow Final	-	854	855	862	60	58
	Closed in	-	1423	1437	1437 -	60	60
Second Period	Flow Initial	-	891	899	908		
	Flow Final	-	1181	1190	1190	60	59
	Closed in	-	1424	1437	1438 -	60	63
Third Period	Flow Initial	-					
	Flow Final	-					
	Closed in	-					
Final Hydrostatic		-	2165	2182	2179		

Gauge No. 585		Depth 4331'		Clock No. 7098		12 hour Ticket No. 335806					
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
		$\text{Log } \frac{t + \theta}{\theta}$									
0	.000	.000	854	.000	891	.000	1181	.000	1181		
1	.0678	.0401	1402	.0678	955	.0473	1417	.0473	1417		
2	.1355	.0802	1413	.1356	1012	.0946	1419	.0946	1419		
3	.2033	.1203	1417	.2034	1061	.1419	1420	.1419	1420		
4	.2710	.1604	1419	.2712	1105	.1892	1422	.1892	1422		
5	.3388	.2005	1421	.3390	1147	.2365	1423	.2365	1423		
6	.3930	.2406	1423	.4000	1181**	.2838	1424	.2838	1424		
7		.2807	1423			.3311	1424	.3311	1424		
8		.3208	1423			.3784	1424	.3784	1424		
9		.3609	1423			.4260	1424	.4260	1424		
10		.4010	1423								
11											
12											
13											
14											
15											

Gauge No. 297		Depth 4355'		Clock No. 4197		12 hour	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
		$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$	
0	.000	.000	863	.000	908	.000	1190
1	.0683	.0408	1411	.0685	967	.0482	1428
2	.1366	.0816	1425	.1369	1023	.0964	1434
3	.2048	.1224	1430	.2054	1070	.1446	1435
4	.2731	.1632	1433	.2738	1116	.1928	1436
5	.3414	.2040	1435	.3423	1157	.2410	1437
6	.3960	.2448	1436	.4040	1190**	.2892	1438
7		.2856	1436			.3374	1438
8		.3264	1437			.3856	1438
9		.3672	1437			.4340	1438
10		.4080	1437				
11							
12							
13							
14							
15							

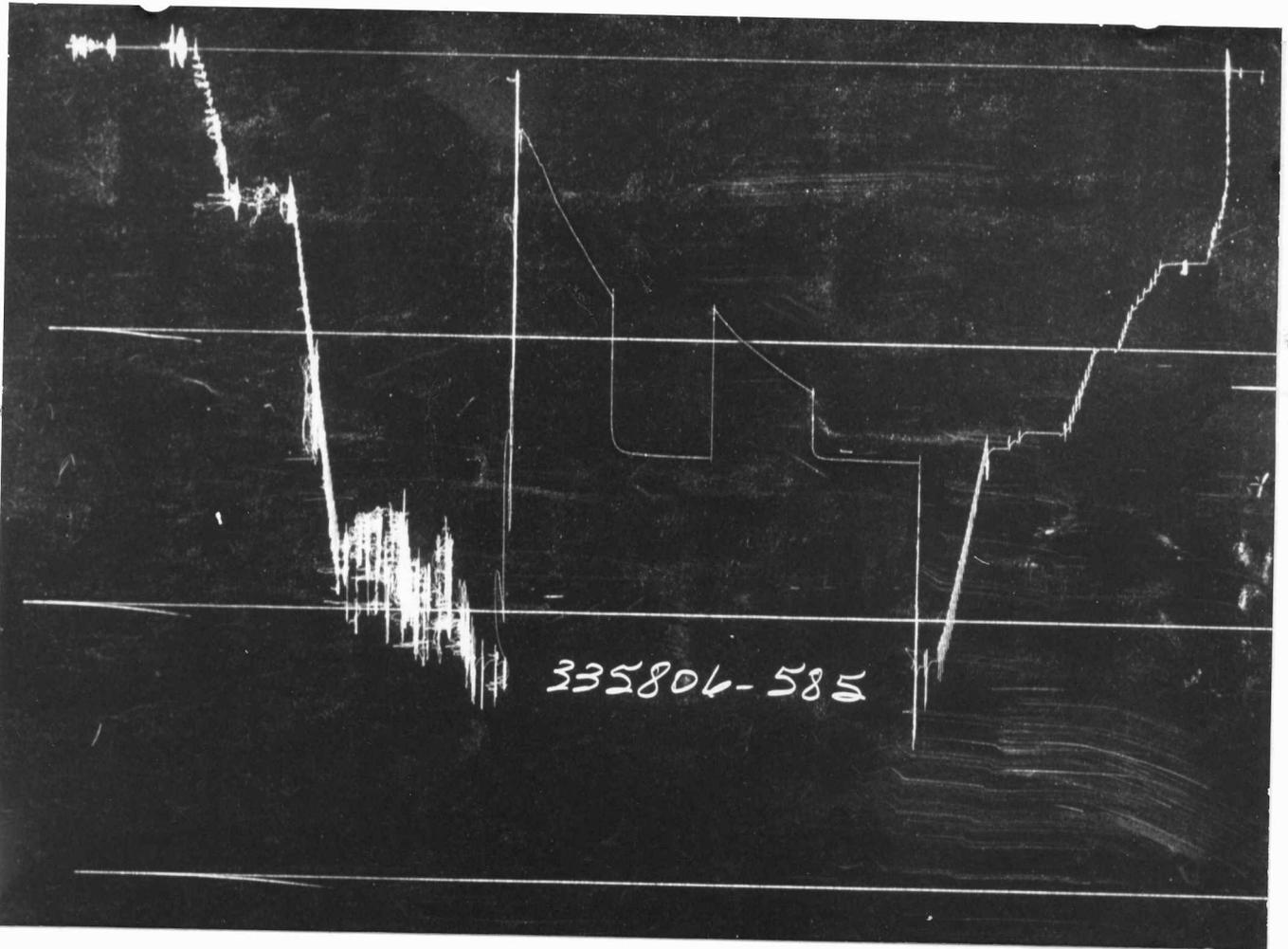
Reading Interval	6	7	10	Minutes
10				

REMARKS: *Last interval equal to 8 minutes **Last interval equal to 9 minutes

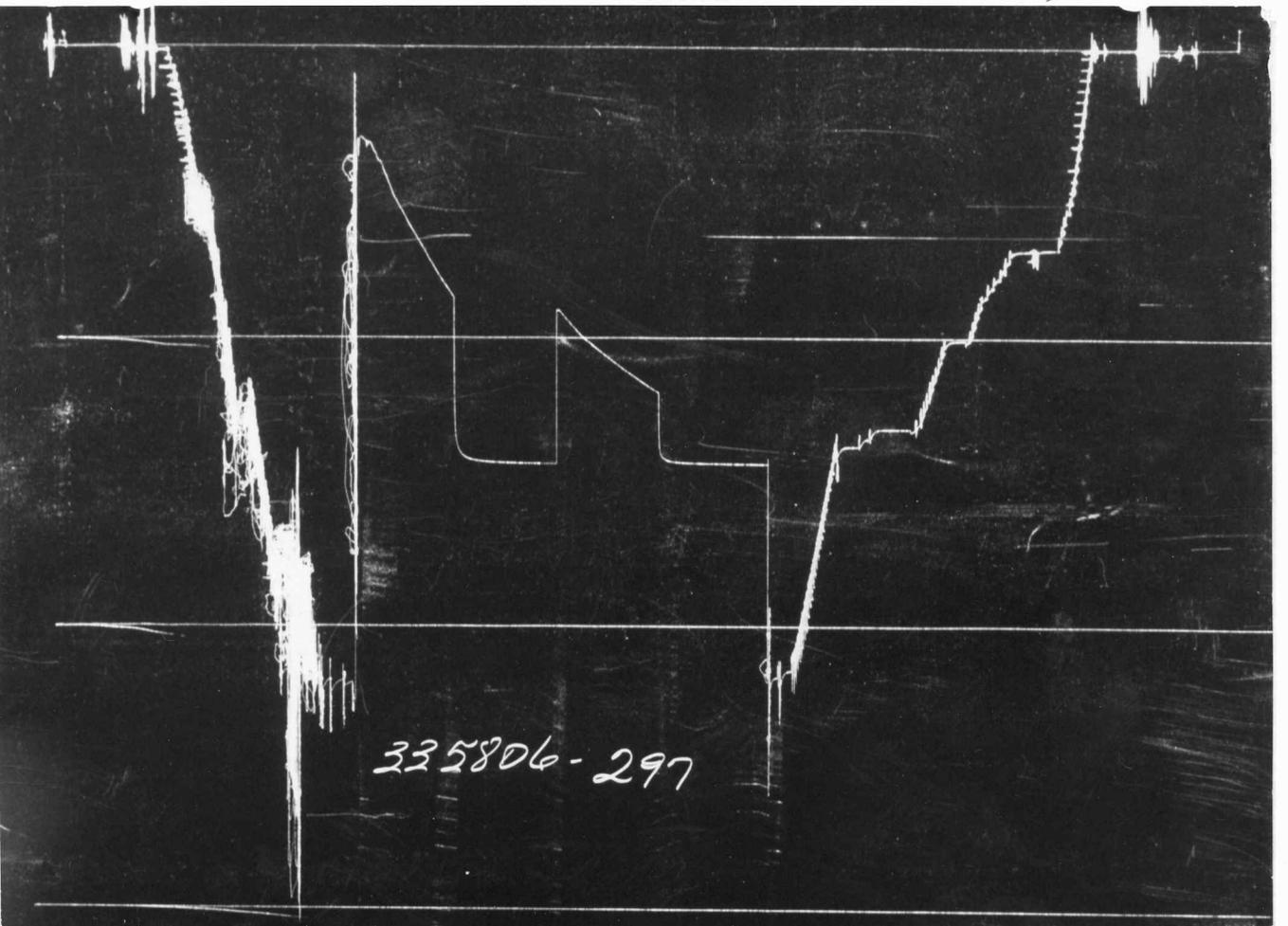


	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3332.05'	
XXXXXX WEIGHT PIPE	4 1/2"	2.50"	1006.50'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	60.92"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4326'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4331'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	4338'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	4343'
Flush Joint Anchor	5"	2.37"	9'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5"	3.06"	61.63"	4355'

↑
PRESSURE
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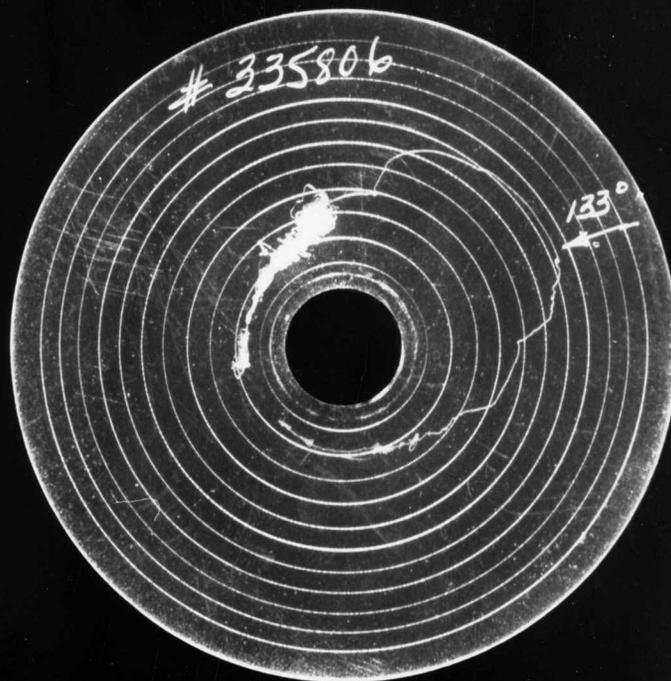


TIME →



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

TEMPERATURE
RECORDER
CHART



10° each circle