

FLUID SAMPLE DATA				Date 7-1-71		Ticket Number 392807	
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.				Kind of Job OPEN HOLE Halliburton District GREAT BEND		Tester MR. GORDLEY Witness MR. JIRRELS	
Drilling Contractor GARVEY DRILLING COMPANY IC S				EQUIPMENT & HOLE DATA			
RESISTIVITY Recovery Water _____ @ _____ °F. _____ ppm Recovery Mud _____ @ _____ °F. _____ Recovery Mud Filtrate _____ @ _____ °F. _____ ppm Mud Pit Sample _____ @ _____ °F. _____ Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm Mud Weight 9.9 vis 46 cp CHLORIDE CONTENT _____ ppm				Formation Tested Mississippian Elevation 2298' DF _____ Ft. Net Productive Interval 10' _____ Ft. All Depths Measured From Kelly Bushing Total Depth 4517' _____ Ft. Main Hole/Casing Size 7 7/8" Drill Collar Length 1050' WP I.D. 2.764" Drill Pipe Length 3425' I.D. 3.826" Packer Depth(s) 4477' - 4482' _____ Ft. Depth Tester Valve 4466' _____ Ft.			
				TYPE Cushion AMOUNT 25 Depth Back Pres. Valve _____ Ft. Surface Choke 1" Bottom Choke 3/4"			
Recovered _____ Feet of Drilling mud with a show of oil				Med. From Tester Valve			
Recovered _____ Feet of							
Recovered _____ Feet of							
Recovered _____ Feet of							
Recovered _____ Feet of							
Remarks Opened tool for 30 minute first flow with a very weak blow. Closed tool for 60 minute initial closed in pressure. Reopened tool for 30 minute second flow with a very weak blow; dead in 20 minutes - flushed tool and reopened. Closed tool for 60 minute second closed in pressure.							
TEMPERATURE		Gauge No. 1839 Depth: 4467' Ft.		Gauge No. 1838 Depth: 4513' Ft.		Gauge No. _____ Depth: _____ Ft.	
Est. _____ °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Actual 117 °F.		Blanked Off NO		Blanked Off YES		Blanked Off _____	
		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
First Period	Initial Hydrostatic	2361	2366	2399	2385		
	Flow Initial	9	14	31	36		
	Flow Final	12	16	36	41		
Second Period	Closed in	1363	1370	1391	1390		
	Flow Initial	12	24	36	47		
	Flow Final	21	28	54	53		
Third Period	Closed in	1216	1225	1235	1246		
	Flow Initial						
	Flow Final						
Final Hydrostatic		2352	2366	2380	2385		

Legal Location **36 34 - 21 - 23**
 Lease Name **SALMANS**
 Well No. **C-1**
 Test No. **1**
 Field Area **WILDCAT**
 County **HODGEMAN**
 State **KANSAS**
 Tested Interval **4482' - 4517'**
 Lease Owner/Company Name **PETROLEUM, INCORPORATED**

Gauge No.		1839		Depth		4467'		Clock No.		???		12 hour		Ticket No.		392807	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure		Third Flow Period		Third Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0	.000	14		.000	16	.000	24	.000	28	.000	28						
1	.201	16		.0404	70	.207	28	.0403		.0403	61						
2				.0808	381			.0806			155						
3				.1212	770			.1209			463						
4				.1616	1005			.1612			766						
5				.2020	1140			.2015			940						
6				.2424	1224			.2418			1046						
7				.2828	1273			.2821			1118						
8				.3232	1316			.3224			1167						
9				.3636	1346			.3627			1203						
10				.4040	1370			.4030			1225						
11																	
12																	
13																	
14																	
15																	

Gauge No.		1839		Depth		4513'		Clock No.		???		12 hour		Minutes	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.000	36		.000	41	.000	47	.000	53						
1	.203	41		.0403	99	.206	53	.0401	88						
2				.0806	436			.0802	195						
3				.1209	794			.1203	516						
4				.1612	1028			.1604	797						
5				.2015	1160			.2005	962						
6				.2418	1242			.2406	1070						
7				.2821	1293			.2807	1140						
8				.3224	1336			.3208	1187						
9				.3627	1366			.3609	1226						
10				.4030	1390			.4010	1246						
11															
12															
13															
14															
15															

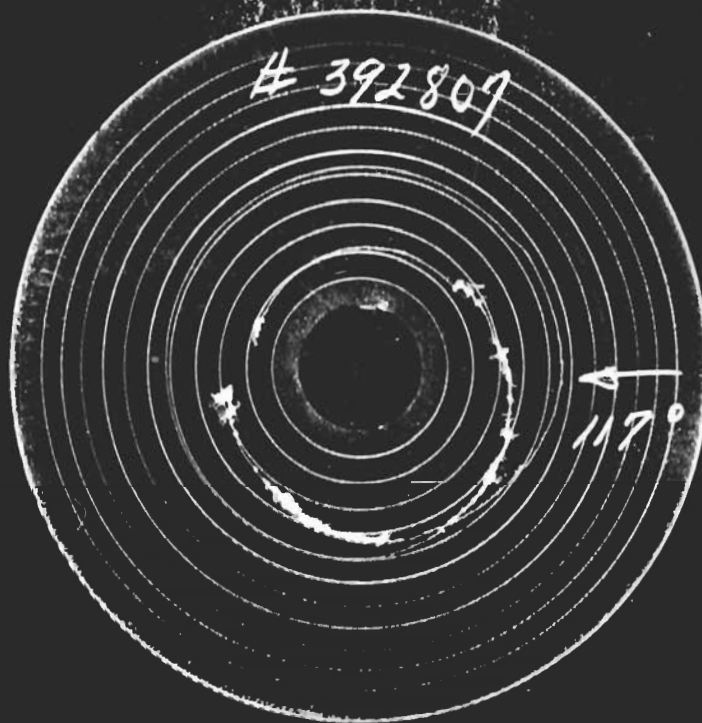
Reading Interval 6

REMARKS:

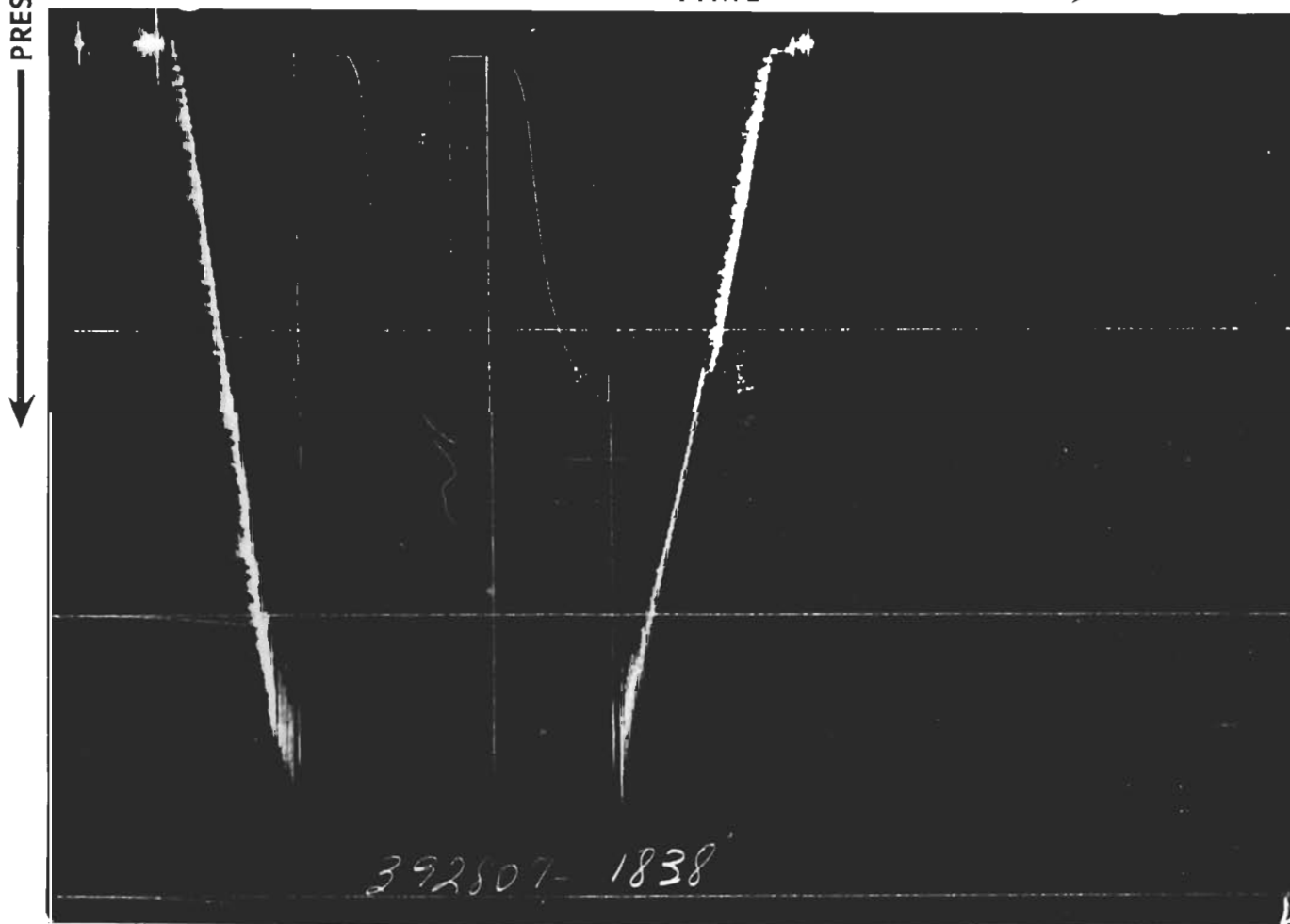
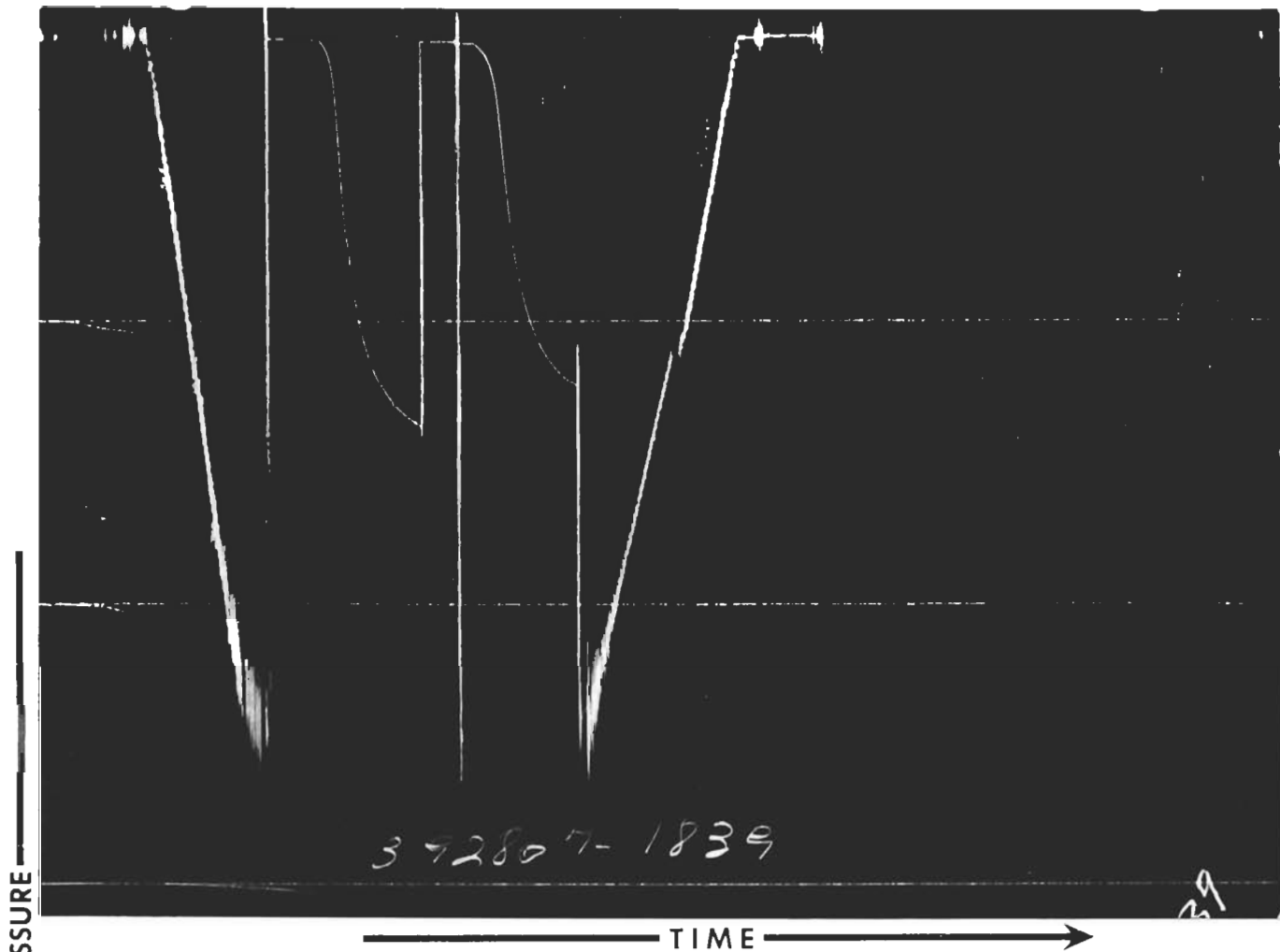


	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	3425'	
Drill Collars	4.50"	2.764"	1050' WP	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	48.92"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4466'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4467'
Hydraulic Jar				
VR Safety Joint	5"	1"	33.40"	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	4477'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	4482'
Flush Joint Anchor	5"	2.37"	35'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	49.63"	4513'
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				

TEMPERATURE
RECORDER
CHART



10° each circle



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

FLUID SAMPLE DATA				Date 7-2-71		Ticket Number 392808	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Holliburton District GREAT BEND	
Recovery: Cu. Ft. Gas _____				Tester GORDLEY		Witness JIRRELS	
cc. Oil _____				Drilling Contractor GARVEY DRILLING COMPANY NM S			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Mississippian			
Tot. Liquid cc. _____				Elevation 2298' D.F. Ft.			
Gravity _____ ° API @ _____ °F.				Net Productive Interval 20' Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 4537' Ft.			
Recovery Water _____ @ _____ °F. _____ ppm				Main Hole/Casing Size 7 7/8"			
Recovery Mud _____ @ _____ °F. _____				Drill Pipe Length WP 1050' I.D. 2.764"			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Drill Pipe Length 3456' I.D. 3.826"			
Mud Pit Sample _____ @ _____ °F. _____ ppm				Packer Depth(s) 4512' - 4517' Ft.			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				Depth Tester Valve 4501' Ft.			
Mud Weight 9.9 vis 49 cp							
TYPE NONE		AMOUNT		Depth Back Pres. Valve NONE		Surface Choke 1"	
Cushion						Bottom Choke 3/4"	
Recovered 15' Feet of drilling mud with scum of oil							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Remarks Tool opened with a weak blow for a 31 minute first flow. Rotated tool for a 60 minute first closed in pressure. Tool reopened for a 31 minute second flow - blow was dead - flushed tool. Took a 58 minute second closed in pressure.							
TEMPERATURE		Gauge No. 1839		Gauge No. 1838		Gauge No. _____	
		Depth: 4502' Ft.		Depth: 4533' Ft.		Depth: _____ Ft.	
		12 Hour Clock		12 Hour Clock		Hour Clock	
Est. _____ °F.		Blanked Off NO		Blanked Off YES		Blanked Off	
4532' @						Tool *****	
Actual 110 °F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		2468		2426		2485	
First Period Flow Initial		16		27		33	
Flow Final		16		36		33	
Closed in		1485		1501		1502	
Second Period Flow Initial		25		36		45	
Flow Final		*		45		39	
Closed in		1364		1373		1378	
Third Period Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		2420		2417		2434	
*Unable to read							

Legal Location Sec. - Twp. - Rng. **36-24 - 21 - 23**

Lease Name **SALMANS**

Well No. **C-1**

Test No. **2**

Tested Interval **4517' - 4537'**

County **WILLIAM**

State **KANSAS**

Operator **HODGEMAN**

Lease Owner/Company Name **PETROLEUM, INCORPORATED**

Field Area **WILLIAM**

Meas. From Tester Valve

Gauge No. 1839		Depth		4502'		Clock No. ???		12 hour		Ticket No. 392808	
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"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$
0	.000 16	.000	16	.000	25	.000	UTR				
1	.208 16	.0389	156	-	UTR	.0359	280				
2		.0778	755			.0718	786				
3		.1167	1084			.1077	1022				
4		.1556	1229			.1436	1145				
5		.1945	1320			.1795	1221				
6		.2334	1379			.2154	1261				
7		.2723	1418			.2513	1298				
8		.3112	1447			.2872	1329				
9		.3501	1469			.3231	1353				
10		.389	1485			.347**	1364*				
11											
12											
13											
14											
15											

Gauge No. 1838		Depth		4533'		Clock No. ???		hour 12	
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.
0	.000 33	.000	33	.000	45	.000	39		
1	.205 33	.0399	194	.205	39	.0406	87		
2		.0798	780			.0812	423		
3		.1197	1101			.1218	884		
4		.1596	1244			.1624	1093		
5		.1995	1339			.2030	1200		
6		.2394	1398			.2436	1265		
7		.2793	1437			.2842	1304		
8		.3192	1465			.3248	1341		
9		.3591	1486			.3654	1367		
10		.399	1502			.392	1378*		
11									
12									
13									
14									
15									

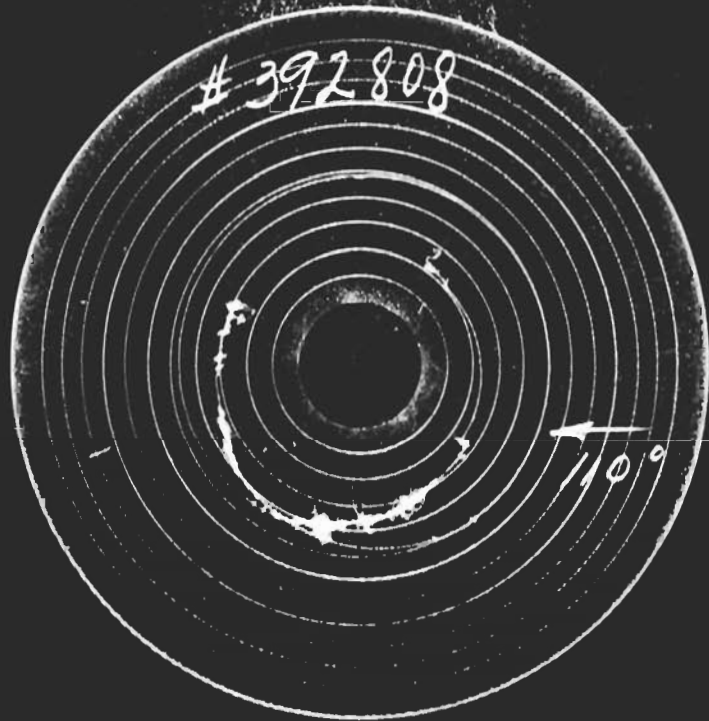
Reading Interval 6

REMARKS: * INTERVAL = 4 MINUTES. ** TIME MEASUREMENT QUESTIONABLE DUE TO CONDITION OF THE CHART. UTR = UNABLE TO READ

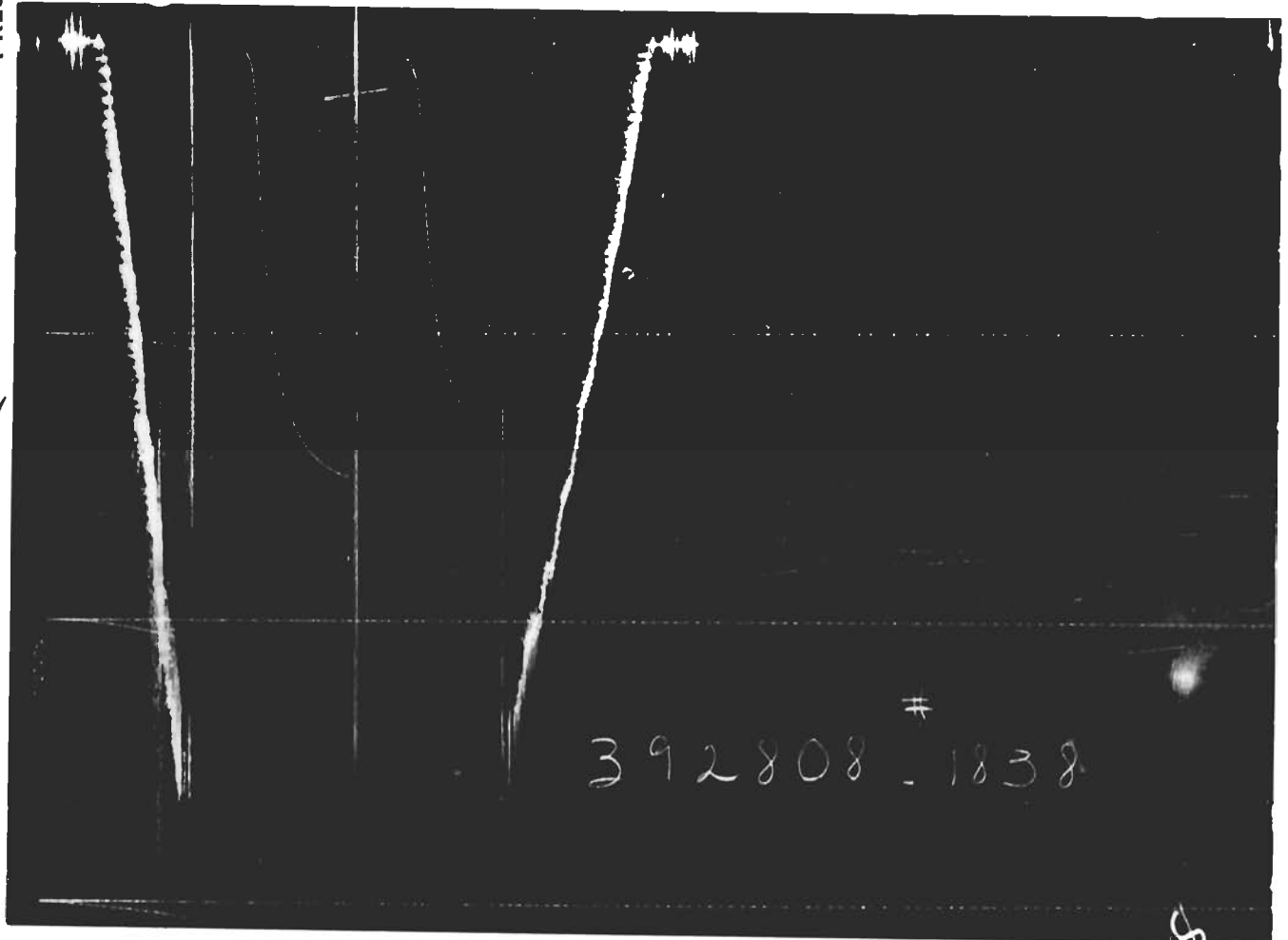
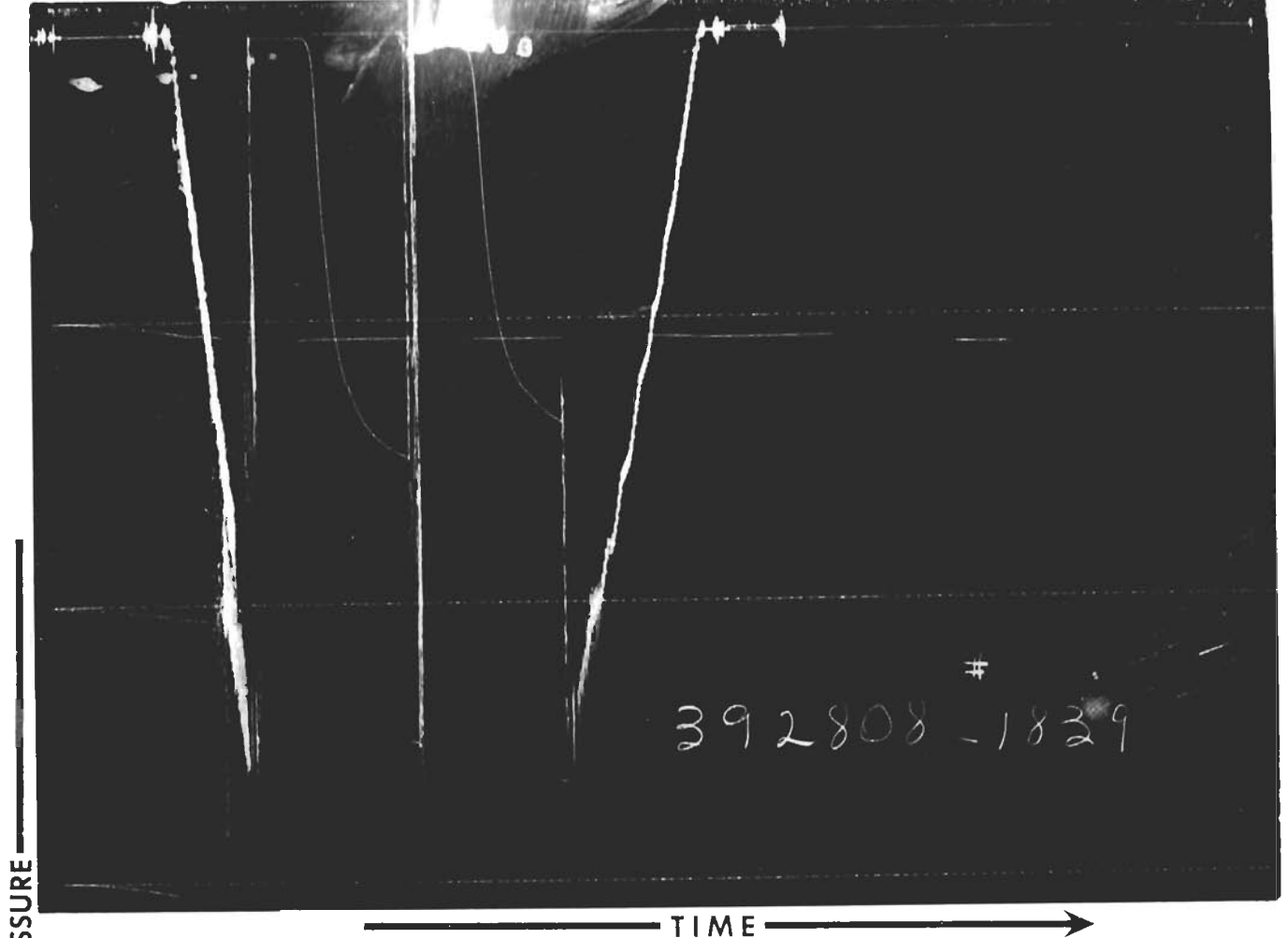
DUE TO CONDITION OF THE CHART...

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	3456'	
Drill Collars	4.50"	2.764"	1050'	
WEIGHT PIPE				
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	48.92"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4501'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4502'
Hydraulic Jar				
VR Safety Joint	5"	1"	33.40"	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	4512'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	4517'
Flush Joint Anchor	5"	2.37"	20'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	49.63"	4533'
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				

TEMPERATURE
RECORDER
CHART



10° each circle



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