

FLUID SAMPLE DATA				Date 5-27-73		Ticket Number 600979	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____				Kind of Job OPEN HOLE Tester MR. WILLINGER		Holliburton District GREAT BEND Witness MR. JONES	
Gravity 37½ ° API @ 60 °F. Gas/Oil Ratio _____ cu. ft./bbl.				Drilling Contractor RED TIGER DRILLING COMPANY		IR S	
EQUIPMENT & HOLE DATA							
				Formation Tested Arbuckle			
				Elevation _____ Ft.			
				Net Productive Interval 17' Ft.			
				All Depths Measured From Kelly Bushing			
				Total Depth 3307' Ft.			
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 784' I.D. 2.764"			
				Drill Pipe Length 2489' I.D. 3.826"			
				Packer Depth(s) 3285'-3290' Ft.			
				Depth Tester Valve 3277' Ft.			
TYPE		AMOUNT		Depth Back		Surface	
				Ft. Pres. Valve		Choke	
Cushion						1" 3/4"	
Recovered	1480	Feet of free oil					
Recovered	420	Feet of water					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Opened tool for 30 minute first flow with a strong blow off bottom of bucket 1/2 minute, continued with a strong blow for 30 minutes, no gas to surface. Closed tool for 30 minute first closed in pressure. Reopened tool for 60 minute second flow with a strong blow throughout. Closed tool for 60 minute second closed in pressure.							
TEMPERATURE		Gauge No. 1839		Gauge No. 1838		Gauge No.	
		Depth: 3278 Ft.		Depth: 3303 Ft.		Depth: _____ Ft.	
		12 Hour Clock		12 Hour Clock		Hour Clock	
Est	°F.	Blanked Off No		Blanked Off Yes		Blanked Off	
3302'						Tool --A.M.	
Actual 103 °F.						Opened 3:40 P.M.	
		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
First Period	Initial Hydrostatic		1718	1759	1733		
	Flow Initial		158	170	166		
	Flow Final		485	493	496		
	Closed in		951←	967	963		
Second Period	Flow Initial		513	512	523		
	Flow Final		744	759	758		
	Closed in		1015←	1024	1029		
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic			1704	1711	1718		

 Legal Location
 Sec. - Twp. - Rng.

 TITTEL
 Lease Name

12-15-14

 A-11
 Well No.

 1
 Test No.

 3290'-3307'
 Tested Interval

 Field Area
 Mea. From Tester Valve

 County
 RUSSELL

 State
 KANSAS

 CITIES SERVICE OIL COMPANY
 Lease Owner/Company Name

Gauge No. 1839			Depth 3278'			Clock No. 3722			12 hour	Ticket No. 600979					
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"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	158	.000		485	.000	513	.000		744					
1	.0338	270	.0200		691	.0667	575	.0335		865					
2	.0676	350	.0400		754	.1334	624	.0670		902					
3	.1014	390	.0600		797	.2001	561	.1005		931					
4	.1352	425	.0800		836	.2668	692	.1340		949					
5	.1690	428	.1000		864	.3335	719	.1675		966					
6	.2030	485	.1200		889	.4000	744	.2010		979					
7			.1400		909			.2345		989					
8			.1600		924			.2680		996					
9			.1800		940			.3015		1003					
10			.2000		951			.3350		1009					
11								.3685		1012					
12								.4020		1015					
13															
14															
15															

Gauge No. 1838			Depth 3303'			Clock No. 7098			12 hour						
0	.000	166	.000		496	.000	523	.000		758					
1	.0327	289	.0202		713	.0660	590	.0337		880					
2	.0654	364	.0404		779	.1320	637	.0674		917					
3	.0981	404	.0606		825	.1980	674	.1011		943					
4	.1308	438	.0808		862	.2640	704	.1348		962					
5	.1635	470	.1010		891	.3300	731	.1685		978					
6	.1960	496	.1212		903	.3960	758	.2022		991					
7			.1414		922			.2359		1000					
8			.1616		937			.2696		1009					
9			.1818		951			.3033		1015					
10			.2020		963			.3370		1021					
11								.3707		1025					
12								.4040		1029					
13															
14															
15															
Reading Interval 5			3			10			5			Minutes			

REMARKS:

600979

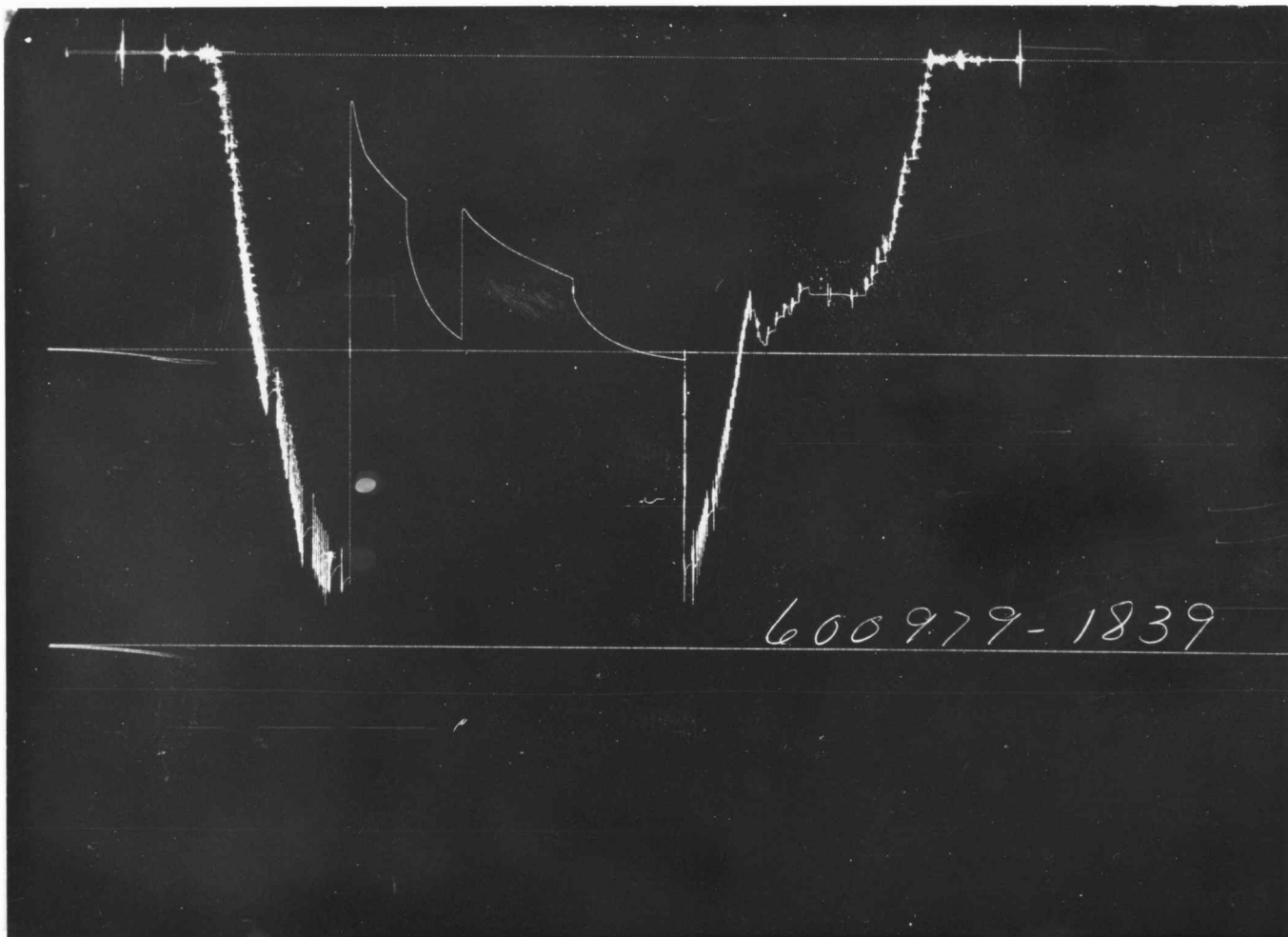
	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	2489'	
Drill Collars	4 $\frac{1}{2}$ "	2.764"	784' WP	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	48.92"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	3277'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	3278'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	3285'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	3290'
Flush Joint Anchor	5"	2.37"	17'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	49.63'	3303'
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

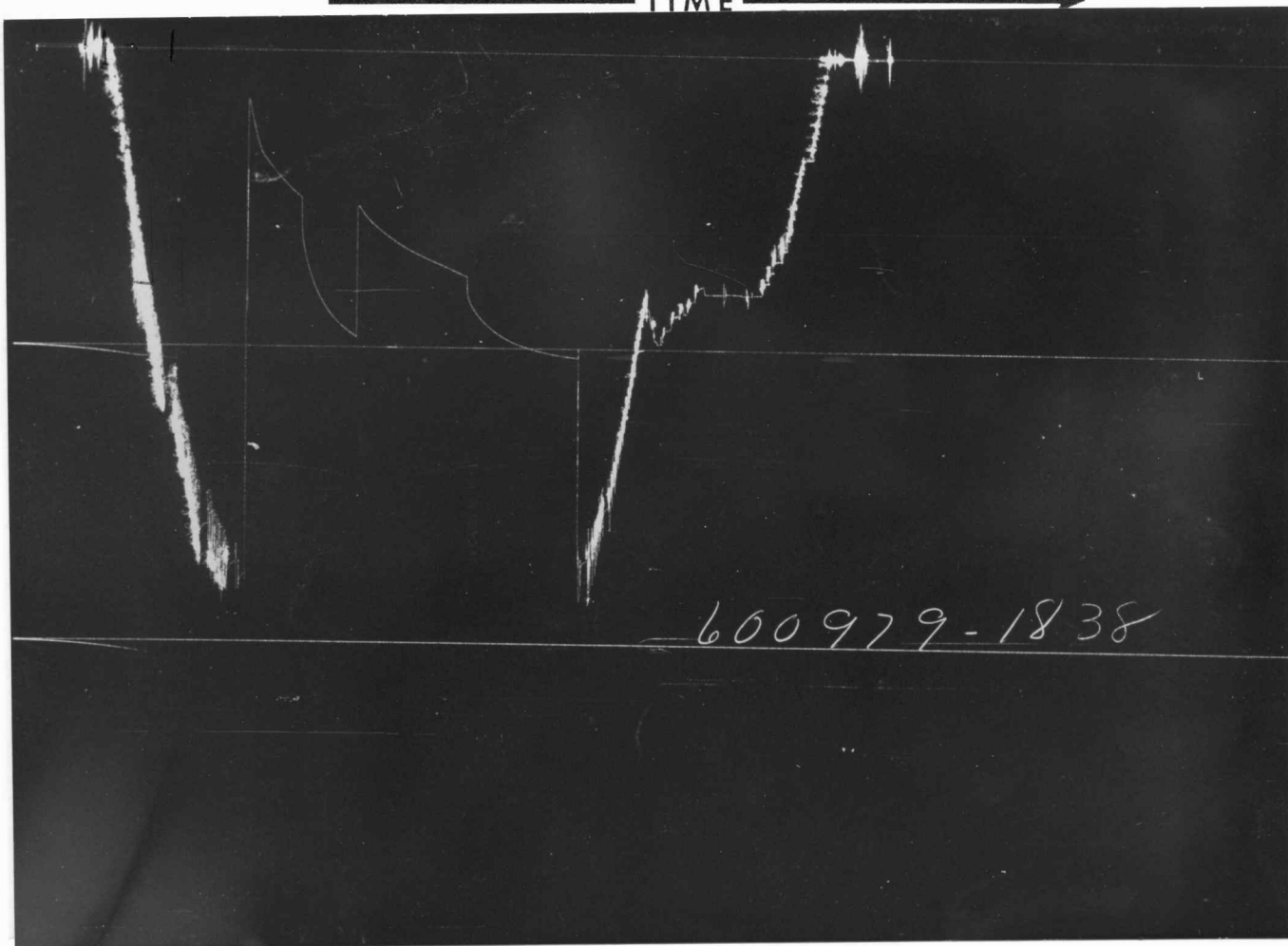


10° each circle

PRESSURE



TIME



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