

FLUID SAMPLE DATA				Date	6-6-81 <th>Ticket Number</th> <td>098696 </td>	Ticket Number	098696
Sampler Pressure _____ P.S.I.G. at Surface				Kind of D.S.T.	OPEN HOLE	Halliburton Location	PRATT
Recovery: Cu. Ft. Gas _____				Tester	MESSER	Witness	SLADEK
cc. Oil _____				Drilling Contractor	BEREDCO # 1		NM S
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested	-		
Tot. Liquid cc. _____				Elevation	-		
Gravity _____ ° API @ _____ °F.				Net Productive Interval	-		
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From	Kelly Bushing		
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth	4302' Ft.		
Recovery Water _____ @ _____ °F. _____ ppm				Main Hole/Casing Size	.875" Ft.		
Recovery Mud _____ @ _____ °F. _____ ppm				Drill Collar Length	277' I.D. 2.25" Ft.		
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Drill Pipe Length	3947' I.D. 3.826" Ft.		
Mud Pit Sample _____ @ _____ °F. 11,000 ppm				Packer Depth(s)	4254' - 4260' Ft.		
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				Depth Tester Valve	4237' Ft.		
Mud Weight _____ 9.0 vis 48 sec.							
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke	
			NONE	NONE	.25"	.75"	
Recovered	3470'	Feet of	oil - gravity was 44				
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks SEE PRODUCTION TEST DATA SHEET...							
TEMPERATURE		Gauge No. 5605	Gauge No. 5604	Gauge No.	TIME		
		Depth: 4239' Ft.	Depth: 4299' Ft.	Depth: _____ Ft.	(00:00-24:00 hrs.)		
Est. _____ °F.		12 Hour Clock	12 Hour Clock	_____ Hour Clock	Tool Opened 1020		
Actual 4297' 104 °F.		Blanked Off -	Blanked Off -	Blanked Off	Opened Bypass 1420		
		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic		-	2031.0	2058	2049.7	Minutes	Minutes
First Period	Flow Initial	-	229.8	309	280.4	_____	_____
	Flow Final	-	346.3	412	424.7	30	30
	Closed in	-	1188.5	1211	1205.3	60	58
Second Period	Flow Initial	-	431.9	392	478.3	_____	_____
	Flow Final	-	658.8	679	676.8	60	61
	Closed in	-	1060.4	1068	1073.9	90	91
Third Period	Flow Initial	-				_____	_____
	Flow Final	-				_____	_____
Final Hydrostatic		-	2021.7	2037	2032.1	_____	_____

Legal Location Sec. - Twp. - Rng. 21 - 34 - 21
 Field Area
 Mea. From Tester Valve
 County
 State
 KANSAS

SHUPE
 Lease Name
 Well No. 2-21
 Test No. 1
 Tested Interval 4260' - 4302'
 RINE DRILLING COMPANY
 Lease Owner/Company Name

098696

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. _____
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

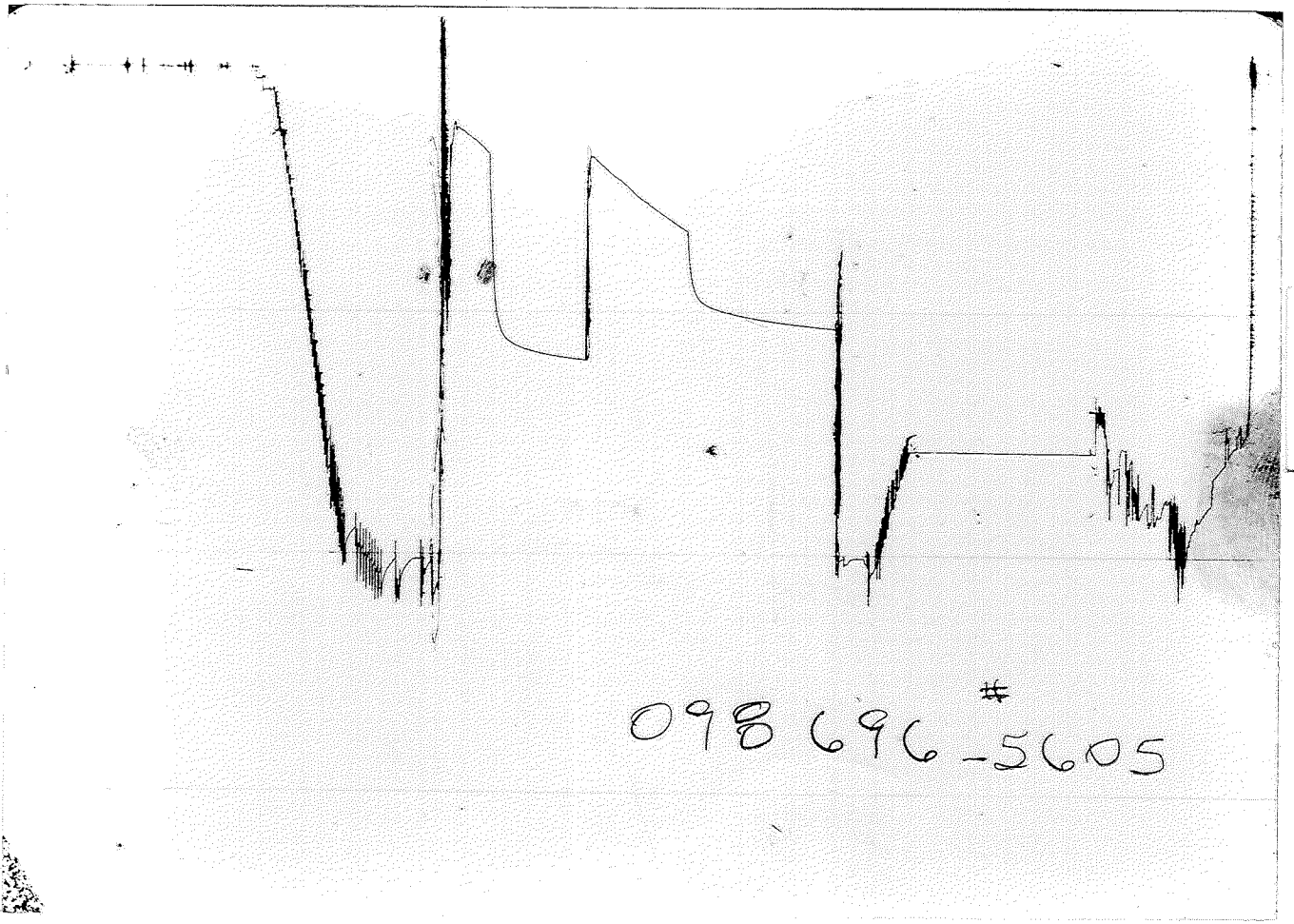
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0230						Received call - starting out of the hole at 0330.
0320						Left camp.
0525						Arrived on location - rig coming out of the hole.
0700						Rig out of the hole.
0710						Started making up the tool.
0815						Tool made up and in the table.
0825						Tool started in the hole.
1017						Tool on bottom.
1020						Tool opened with a weak blow - which built to a very strong blow in 7 minutes.
1050						Tool closed - no gas or oil.
1150						Tool opened - opened floor valve to blow to the pit, blowed small amounts of gas and no oil.
1250						Tool closed.
1420						Hydrospring closed - tool started off bottom.
1515						Oil to the surface - approximately 3470' of oil, put on rig control head - let run off
1700						Dropped bar and circulating.
1810						Started back out of the hole.
2100						Tool out of the hole.
2220						Left location.

Gauge No. 5605		Depth 4239'		Clock No. 17485		12 hour Ticket No. 098696		
First Flow Period		Second Flow Period		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.	
Closed In Pressure		Closed In Pressure		Closed In Pressure		Closed In Pressure		
Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	
0	.000	229.8-0	.000	346.3	.000	431.9	.000	658.8
1	.0332	533.6-0	.0134	791.2*	.0738	402.0**	.0468	939.9***
2	.0663	241.2	.0401	1050.2	.1408	457.7	.0869	971.4
3	.0995	257.7	.0669	1104.5	.2079	519.3	.1269	986.7
4	.1327	286.5	.0937	1123.9	.2749	570.2	.1670	997.9
5	.1658	313.3	.1204	1137.2	.3420	617.1	.2071	1008.1
6	.1990	346.3	.1472	1147.5	.4090	658.8	.2472	1016.3
7			.1739	1154.7			.2873	1022.5
8			.2007	1161.8			.3274	1029.7
9			.2275	1167.0			.3675	1035.8
10			.2542	1172.1			.4076	1040.9
11			.2810	1176.2			.4476	1045.0
12			.3077	1180.3			.4877	1049.1
13			.3345	1183.4			.5278	1053.2
14			.3612	1186.4			.5679	1057.3
15			.3880	1188.5			.6080	1060.4
Gauge No. 5604		Depth 4299'		Clock No. 2486		hour 12		
0	.000	280.4	.000	424.7	.000	478.3	.000	676.8
1	.0315	519.4	.0133	756.6*	.0714	429.8**	.0457	956.0***
2	.0630	319.5	.0398	1057.4	.1363	482.4	.0849	985.6
3	.0945	352.5	.0664	1114.9	.2012	540.9	.1240	1001.0
4	.1260	365.9	.0929	1137.5	.2662	587.9	.1632	1011.2
5	.1575	381.4	.1195	1151.9	.3311	631.9	.2024	1021.5
6	.1890	424.7	.1460	1162.2	.3960	676.8	.2415	1029.7
7			.1726	1170.4			.2807	1036.9
8			.1991	1177.6			.3198	1043.1
9			.2257	1182.7			.3590	1049.2
10			.2522	1187.8			.3982	1054.4
11			.2788	1191.9			.4373	1059.5
12			.3053	1196.0			.4765	1063.6
13			.3319	1199.1			.5157	1067.7
14			.3585	1202.2			.5548	1070.8
15			.3850	1205.3			.5940	1073.9
Reading Interval 5		4		10		6		Minutes
REMARKS: * INTERVAL = 2 MINUTES. ** INTERVAL = 11 MINUTES. *** INTERVAL = 7 MINUTES.								

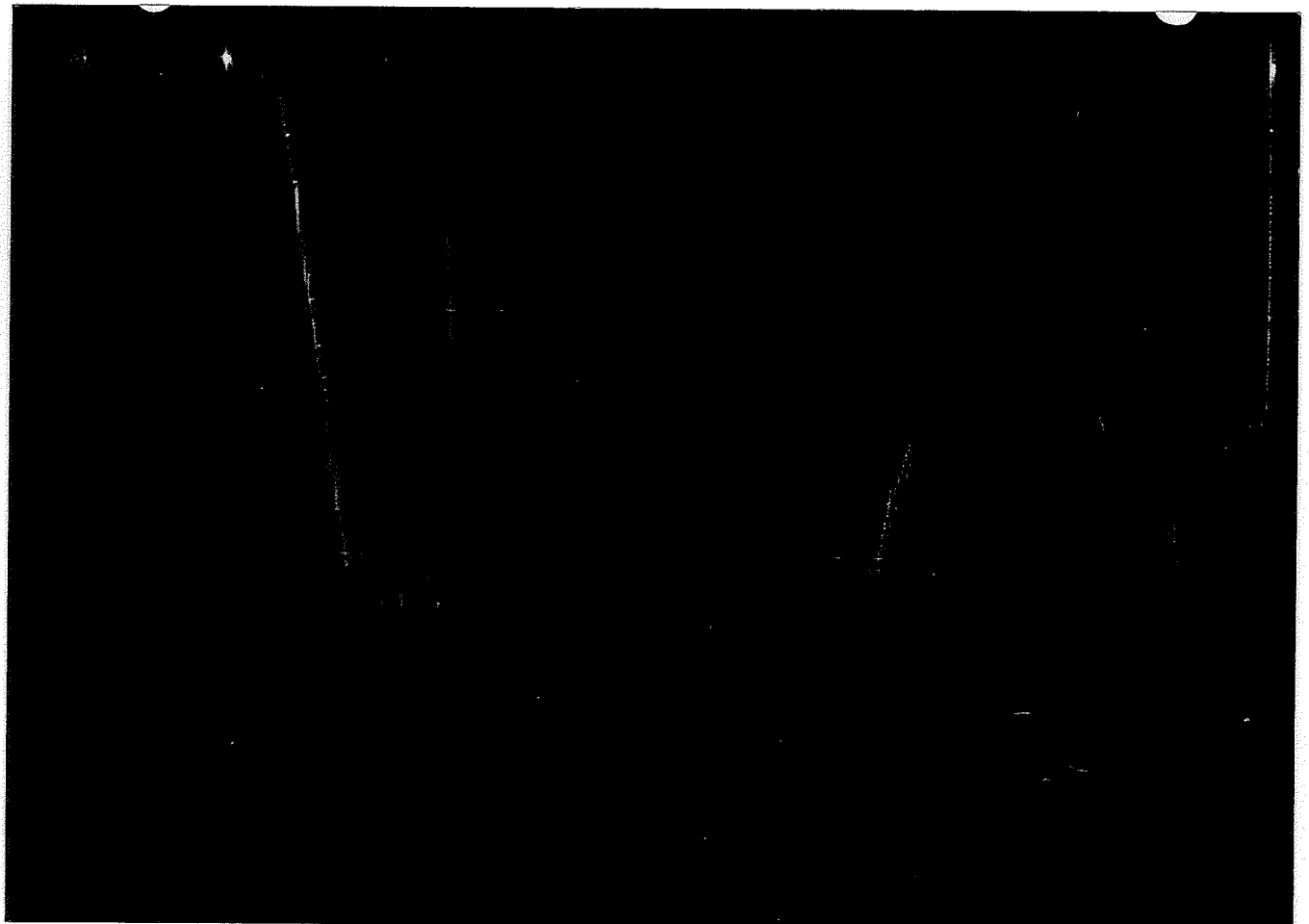


	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	4.5"	3.826"	3947'	
Drill Collars	6"	2.25"	277'	
Reversing Sub	5.625"	2"	1'	
Water Cushion Valve				
Drill Pipe				
Drill Collars				
Handling Sub & Choke Assembly	CHANGE OVERS 6"	2"	2'	
Dual CIP Valve	5.75"	.87"	6'	4232'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4237'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4239'
Hydraulic Jar	5"	1.50"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75" SHOE	5.06"	6'	4254'
Distributor				
Packer Assembly	6.75" SHOE	5.06"	6'	4260'
Flush Joint Anchor	CHANGE OVER	6.00"	2"	1'
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars	6"	2.25"	30'	
Anchor Pipe Safety Joint				
Packer Assembly	CHANGE OVERS	6"	2"	2'
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
FLUSH				
Side Wall Anchor	5"	2.36"	2'	
Drill Collars				
Flush Joint Anchor	HT 500	5"	2.25"	1'
Blanked-Off B.T. Running Case	5"	2.44"	4'	4299'
Total Depth				4302'



↑
PRESSURE
↓

← TIME →



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

TEMPERATURE

RECORDER

CHART

#098696

←
104°

10° each circle