

FLUID SAMPLE DATA				Date	Ticket Number	
Sampler Pressure	475	P.S.I.G. at Surface		6-11-81	098763	
Recovery: Cu. Ft. Gas	2.147			Kind of D.S.T.	OPEN HOLE	
cc. Oil	1400			Halliburton Location	PRATT	
cc. Water				Tester	BUETTGENBACH	
cc. Mud				Witness	B. SLADEK	
Tot. Liquid cc.	1400			Drilling Contractor	DAMAC # 2 IC	
Gravity	41	° API @ 60 °F.		EQUIPMENT & HOLE DATA		
Gas/Oil Ratio		cu. ft./bbl.		Formation Tested	Toronto	
		RESISTIVITY	CHLORIDE CONTENT	Elevation	1772' Kelly bushing	
Recovery Water		@	°F.	Net Productive Interval		
Recovery Mud		@	°F.	All Depths Measured From	Kelly bushing	
Recovery Mud Filtrate		@	°F.	Total Depth	4297'	
Mud Pit Sample		@	°F.	Main Hole/Casing Size	7 7/8"	
Mud Pit Sample Filtrate		@	°F.	Drill Collar Length	369' I.D. 2.25"	
Mud Weight	9.5	Loss	9.6 vis 37 sec.	Drill Pipe Length	3855' I.D. 3.826"	
				Packer Depth(s)	4254-4260'	
				Depth Tester Valve	4237'	
Cushion	TYPE	AMOUNT	Ft.	Depth Back Pres. Valve	Surface Choke	
Recovered	2904	Feet of gas cut oil			.25"	
Recovered	150	Feet of gas cut mud			Bottom Choke .75"	
Recovered		Feet of				
Recovered		Feet of				
Recovered		Feet of				
Remarks						
SEE PRODUCTION TEST DATA SHEET...Charts indicate partial plugging of anchor perforations during first flow period.						
County						
TEMPERATURE	Gauge No. 698	Gauge No. 697	Gauge No.	TIME		
	Depth: 4239 Ft.	Depth: 4293 Ft.	Depth: Ft.	(00:00-24:00 hrs.)		
Est. °F.	12 Hour Clock	12 Hour Clock	Hour Clock	Tool		
4292	Blanked Off NO	Blanked Off YES	Blanked Off	Opened 2120		
Actual 104 °F.	Pressures		Pressures		By-pass 0155	
	Field	Office	Field	Office	Reported	
Initial Hydrostatic	-	2142.8	2129	2157.7	Minutes	
First Period	Flow Initial	-	558.9	919	848.6	Minutes
	Flow Final	-	908.0	959	945.2	55 *
	Closed in	-	1325.3	1350	1338.1	60 *
Second Period	Flow Initial	-	919.7	929	940.3	Minutes
	Flow Final	-	1134.3	1139	1149.2	60 *
	Closed in	-	1320.2	1340	1333.3	100 *
Third Period	Flow Initial	*See attached incremental pressure sheet				Minutes
	Flow Final					Minutes
Closed in					Minutes	
Final Hydrostatic	-	2100.2	2109	2104.2	Minutes	

Legal Location Sec. - Twp. - Rng. 21 34S 21W  
 Lease Name SHUPE  
 Well No. 1-21-A  
 Test No. 1  
 Tested Interval 4260 - 4297'  
 County CLARK  
 State KANSAS  
 Lease Owner/Company Name RINE DRILLING COMPANY

Casing perms. \_\_\_\_\_ Bottom choke \_\_\_\_\_ Surf. temp \_\_\_\_\_ °F Ticket No. 098763  
 Gas gravity \_\_\_\_\_ Oil gravity \_\_\_\_\_ GOR \_\_\_\_\_  
 Spec. gravity \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm Res. \_\_\_\_\_ @ \_\_\_\_\_ °F  
 Merla tester

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
1230						Received call to be ready at 1600
1315						Left for location
1545						On location, rig still circulating
1645						Rig started out of hole for DST # 1
1840						Started clocks
1855						Rig out of the hole
1858						Picked up tools
1928						Tools made up and in table
1935						Rig started into hole
2117						Tool on bottom-hole had 40' of fill, Driller worked tool up and down, easy to make connection and on orders of tool pusher set down on the last joint and slid to bottom, about 30' Opened tool with strong blow, fluid level dropping slowly at a steady pace, company man wanted to pull tool loose and reset packer.
2120						Tool pulled loose to reset packer, gas to the surface while bleeding off the pressure inside the pipe
2135						On bottom with tool
2142						Opened tool with very strong blow
2145						Gas, installed 1/8" choke in Merla tester
2150		1/8"	5	6.39		Gas

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
2200		1/8"	10	9.45		Gas
2210		"	26	17.3		Gas
2215		"	33	20.3		Gas
						Gas, tool closed, fluid level down
						about 40-50'
2315						Tool opened, gas, company man wanted to
						leave out choke to see if well would flow.
0015	6-12-81					Closed tool - gas.
0155						Tool off bottom, bypass opened..had to
						jar once to get off bottom
0255						Broke wet stand loose, had gas cut mud
						Started to unload mud and oil, could
						not get wet cap in, just had a sack
						around pipe.
0330						Capped until daylight
0660						Rigged up to drop bar
0610						Dropped bar
0630						Reversed out
0730						Started out of hole
0915						Tool in table.
1100						Left location.

RINE DRILLING COMPANY  
 Lease Owner/Company Name

098763  
 Ticket Number PAGE #1

B.T. 698                      B.T. 697                      B.T. \_\_\_\_\_

Depth 4239'-12 Hr.              Depth 4293'-12 Hr.              Depth \_\_\_\_\_

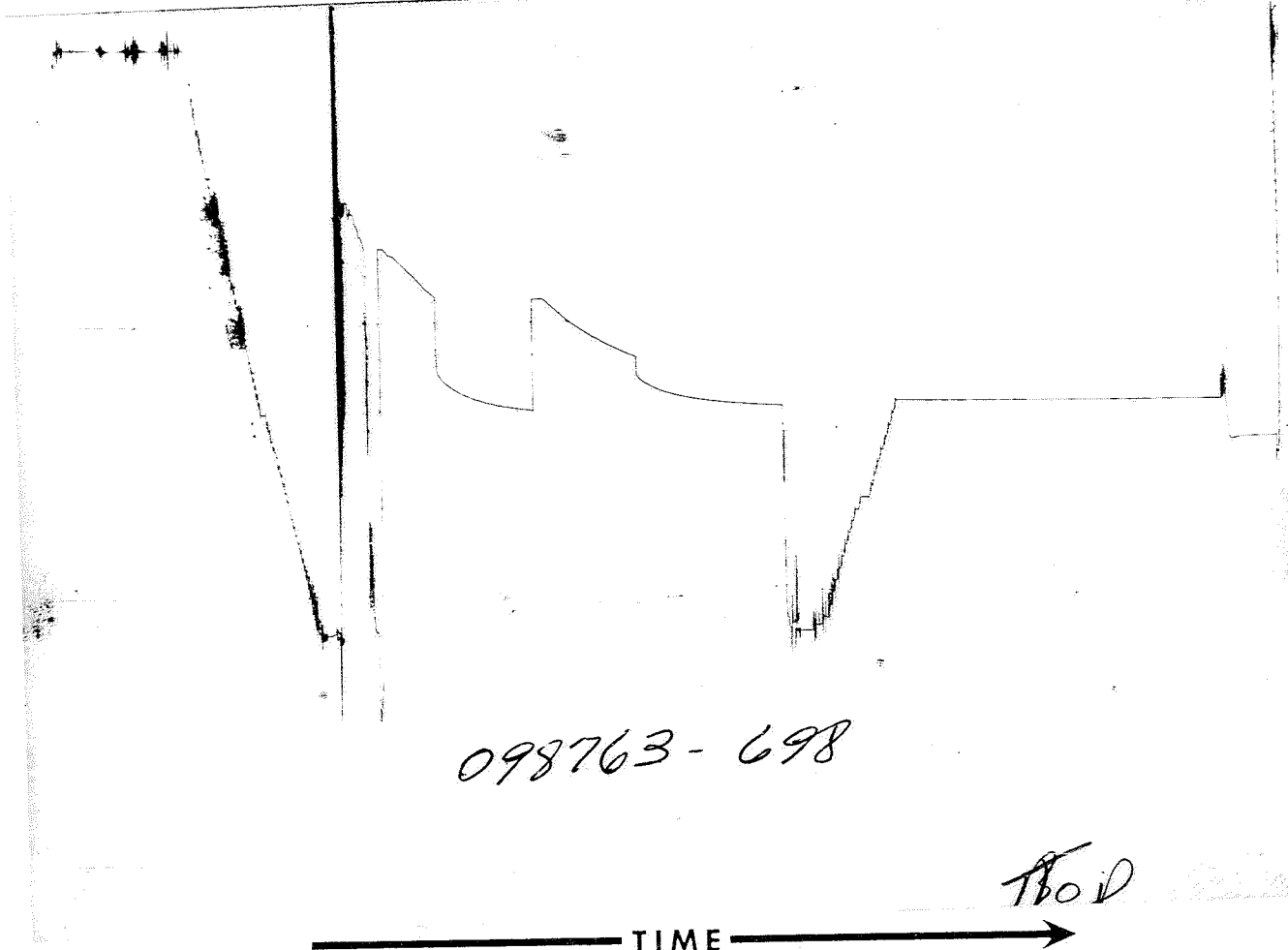
Time Minutes	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Minutes	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
First Flow...			First Flow...					
0		558.9	0		848.6			
10		606.5						
16.3	BB	728.1		PLUGGING				
24.5	AB	729.8						
30		749.6						
40		799.5						
50		861.2						
58.1		908.0	57.9		945.2			
Initial CIP...			Initial CIP...					
0		908.0	0		945.2			
4		1213.2	4		1229.2			
8		1234.7	8		1251.5			
12		1251.3	12		1268.5			
16		1265.3	16		1281.2			
20		1276.0	20		1291.3			
24		1285.7	24		1299.5			
28		1292.8	28		1306.2			
32		1299.4	32		1312.5			
36		1305.2	36		1318.0			
40		1310.6	40		1323.0			
44		1314.4	44		1327.4			
48		1318.0	48		1331.0			
52		1321.6	52		1334.2			
56		1324.2	56		1336.7			
58.2		1325.3	57.9		1338.1			
Second Flow...			Second Flow...					
0		919.7	0		940.3			
10		938.2	10		959.0			
20		990.3	20		1007.7			
30		1033.0	30		1048.2			
40		1069.3	40		1085.1			
50		1100.8	50		1115.8			
62.2		1134.3	61.9		1149.2			

Remarks: \_\_\_\_\_ BB=Before bypass    AB=After bypass



	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	4 1/2"	3.826"	3855'	
Drill Collars				
Reversing Sub	6"	2.625"		
Water Cushion Valve				
Drill Pipe				
Drill Collars	6.25"	2.25"	369'	
Handling Sub & Choke Assembly	Double pin 6.375"	2.375"	1'	4225'
Dual CIP Valve				
Dual CIP Sampler	5.75"	.87"	7'	4232'
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	5.06"	1.53"	6'	4254'
Distributor				
Packer Assembly	5.06"	1.53"	6'	4260'
Flush Joint Anchor	5"	2.36"	30'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.25"	1'	4292'
Blanked-Off B.T. Running Case	5"	2.44"	4'	4293'
Total Depth				4297'

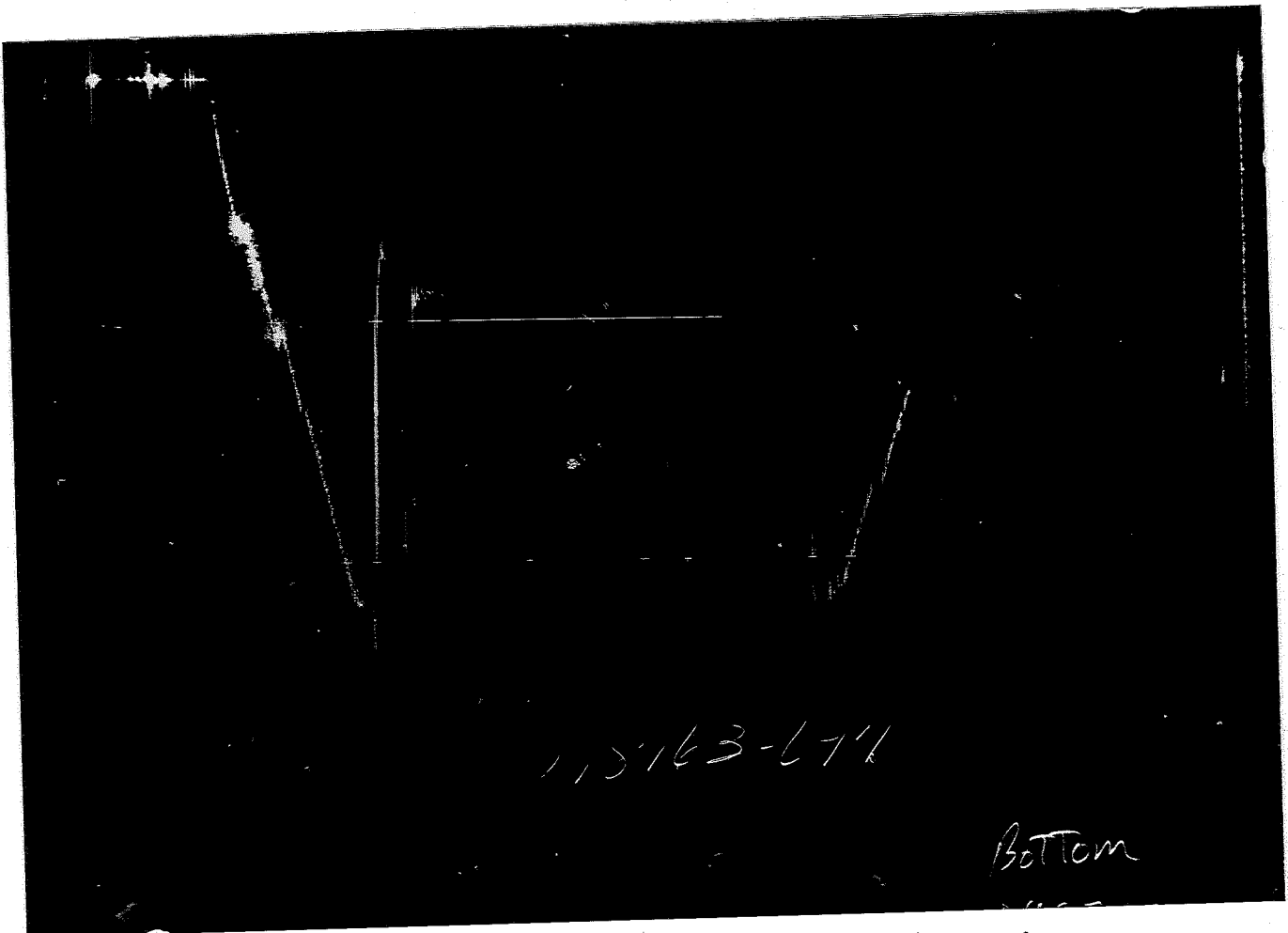
PRESSURE



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TBO D

TIME



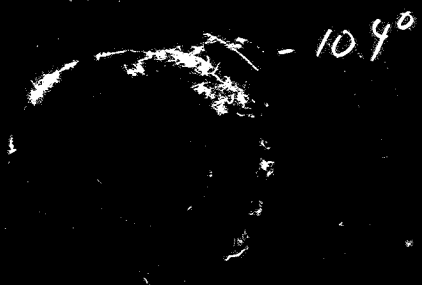
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Bottom

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

TEMPERATURE  
RECORDER  
CHART

0.150



- 10.4°

H.  
098 763

10° each circle