

FLUID SAMPLE DATA				Date 3-6-81		Ticket Number 956171		
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 D.S.T. OPEN HOLE Tester MR. WARE Drilling Contractor REACH DRILLING COMPANY bc		Halliburton Location LIBERAL Witness MR. LAYMAN		
MR. LAYMAN TOOK SAMPLES..... 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 9.6 vis 55 sec.				EQUIPMENT & HOLE DATA				
				Formation Tested Mississippi Elevation 1844' KB Net Productive Interval _____ Ft. All Depths Measured From Kelly Bushing Total Depth 4900' Ft. Main Hole/Casing Size 7 7/8" Drill Collar Length 330' I.D. 2.25" Drill Pipe Length 4492' I.D. 3.826" Packer Depth(s) 4849' - 4855' Ft. Depth Tester Valve 4841' Ft.				
Cushion		TYPE	AMOUNT	Depth Back Ft. Pres. Valve	Surface Choke	5/8"	Bottom Choke	.87"
Recovered		125	Feet of	Gas cut mud				Med. From Tester Valve
Recovered			Feet of					
Recovered			Feet of					
Recovered			Feet of					
Recovered			Feet of					
Remarks SEE PRODUCTION TEST DATA SHEET.								County
TEMPERATURE		Gauge No. 6274 Depth: 4846' Ft.		Gauge No. 6273 Depth: 4897' Ft.		Gauge No. _____ Depth: _____ Ft.		TIME (00:00-24:00 hrs.)
Est. _____ ° F.		12 Hour Clock		12 Hour Clock		Hour Clock		Tool Opened 1347
4895' Actual 116 ° F.		Blanked Off NO		Blanked Off YES		Blanked Off		Opened Bypass 1735
		Pressures		Pressures		Pressures		Reported Minutes
		Field	Office	Field	Office	Field	Office	Computed Minutes
Initial Hydrostatic			2364.1	2493.5	2389.1			
First Period	Flow Initial		62.8	52.4	81.1			33
	Flow Final		52.3	52.4	71.9			60
	Closed in		306.2	267.1	324.6			
Second Period	Flow Initial		47.1	52.4	57.5			45
	Flow Final		68.0	81.2	81.1			90
	Closed in		311.5	267.1	325.9			
Third Period	Flow Initial							
	Flow Final							
	Closed in							
Final Hydrostatic			2364.1	2493.5	2389.1			

BAIER

Well No. 1

Test No. 1

4855' - 4900' Extra
Tested Interval

KANSAS OIL CORPORATION

Lease Owner/Company Name

BARBER

State

KANSAS

Legal Location 23 - 33 - 14W

Field Area

956171

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
0940						On location, set clocks & charts
1020						Changed elevators & adjusted rig break
1030						Picked up tool
1120						Tool ready to go in hole, rig shut
						down for lunch
1145						Started in hole with tool
1330						On bottom with tool, laid blow line to
						pit. Hooked up head
1347						Tool opened with a good blow, increasing
1400		Opened 1" valve to blow line				to 10" off top of bucket
1405						Gas to surface
1410		5/8"	4.0	47		
1415		"	2.5	46.5		
1420		"	3.0	46.5		Closed tool
1520						Opened tool, gas to surface
1525		"	3.0	46.5		
1530		"	3.0	46.5		
1535		"	3.0	46.5		
1540		"	3.0	46.5		
1545		"	3.0	46.5		
1550		"	3.0	46.5		
1555		"	3.0	46.5		
1600		"	3.0	46.5		
1605						Closed tool
1735						Pulled tool off bottom
1915						Tool in table

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars	6"	2.50"	1'	5800'
Reversing Sub				
Water Cushion Valve	4½"	3.826"	4492'	
Drill Pipe	6¼"	2¼"	330'	
Drill Collars	4½"	3.826"	4'	
Handling Sub & Choke Assembly	5"	.87"	5'	4836'
Dual CIP Valve				
Dual CIP Sampler	5"	.87"	5'	4841'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4846'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	4849'
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	4855'
Flush Joint Anchor	5"	2.37"	38'	
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				
HT-500	5"	-	1'	
Blanked-Off B.T. Running Case	5"	2.44"	4'	4897'
Total Depth				4900'

Gauge No.		6274		Depth		4846'		Clock No.		17058		12 hour		Ticket No.		956171	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period	
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	.0000 62.8	.0000		.0000	47.1	.0000		.0000	68.0								
1	.0333 51.0	.0066		.0606	52.3**	.0606		.0067	202.8								
2	.0667 60.2	.0133		.1010	56.2	.1010		.0133	265.7								
3	.1000 62.8	.0199		.1414	61.5	.1414		.0200	290.5								
4	.1333 56.2	.0265		.1818	64.1	.1818		.0266	298.4								
5	.1667 52.3	.0332		.2222	66.7	.2222		.0333	303.6								
6	.2000 52.3	.0398		.2626	66.7	.2626		.0399	306.2								
7		.0464		.3030	68.0	.3030		.0466	307.5								
8		.0531						.0532	308.9								
9		.0597						.0599	308.9								
10		.0663						.0666	308.9								
11		.1327						.1997	310.2								
12		.1990						.3328	310.2								
13		.2653						.4659	311.5								
14		.3317						.5990	311.5								
15		.3980						.6190	311.5								

Gauge No.		6273		Depth		4897'		Clock No.		8090		12 hour		Minutes	
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"	PSIG Temp. Corr.
0	.0000 81.1	.0000		.0000	57.5	.0000		.0000	81.1						
1	.0332 70.6	.0067		.0602	73.2**	.0602		.0067	193.7						
2	.0663 79.8	.0133		.1003	73.2	.1003		.0134	270.9						
3	.0995 82.4	.0200		.1405	79.8	.1405		.0200	304.9						
4	.1327 74.6	.0266		.1806	79.8	.1806		.0267	318.0						
5	.1658 71.9	.0333		.2207	81.1	.2207		.0334	321.9						
6	.1990 71.9	.0399		.2609	81.1	.2609		.0401	323.2						
7		.0466		.3010	81.1	.3010		.0467	323.2						
8		.0532						.0534	323.2						
9		.0599						.0601	323.2						
10		.0665						.0668	323.2						
11		.1330						.2003	324.6						
12		.1995						.3339	324.6						
13		.2660						.4674	324.6						
14		.3325						.6010	325.9						
15		.3990						.6210	325.9						
Reading Interval		5		6		***									

REMARKS: *First 10 intervals = 1 minute each; last 5 intervals = 10 minutes each. **Interval = 9 minutes
***First 10 intervals = 1 minute each; next 4 intervals = 20 minutes each; last interval = 3 minutes.

TEMPERATURE RECORDER CHART

#956171

516

10° each circle

- OF_3 = Theoretical Open Flow Potential with/Damage Removed Max. . . . MCF/D
 OF_4 = Theoretical Open Flow Potential with/Damage Removed Min. . . . MCF/D
 P_s = Extrapolated Static Pressure Psig.
 P_f = Final Flow Pressure Psig.
 P_{or} = Potentiometric Surface (Fresh Water *) Feet
 Q = Average Adjusted Production Rate During Test bbls/day
 Q_1 = Theoretical Production w/Damage Removed bbls/day
 Q_g = Measured Gas Production Rate MCF/D
 R = Corrected Recovery bbls
 r_w = Radius of Well Bore Feet
 t = Flow Time Minutes
 t_o = Total Flow Time Minutes
 T = Temperature Rankine °R
 Z = Compressibility Factor —
 μ = Viscosity Gas or Liquid CP
 Log = Common Log

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,
Fresh Water Corrected to 100° F.

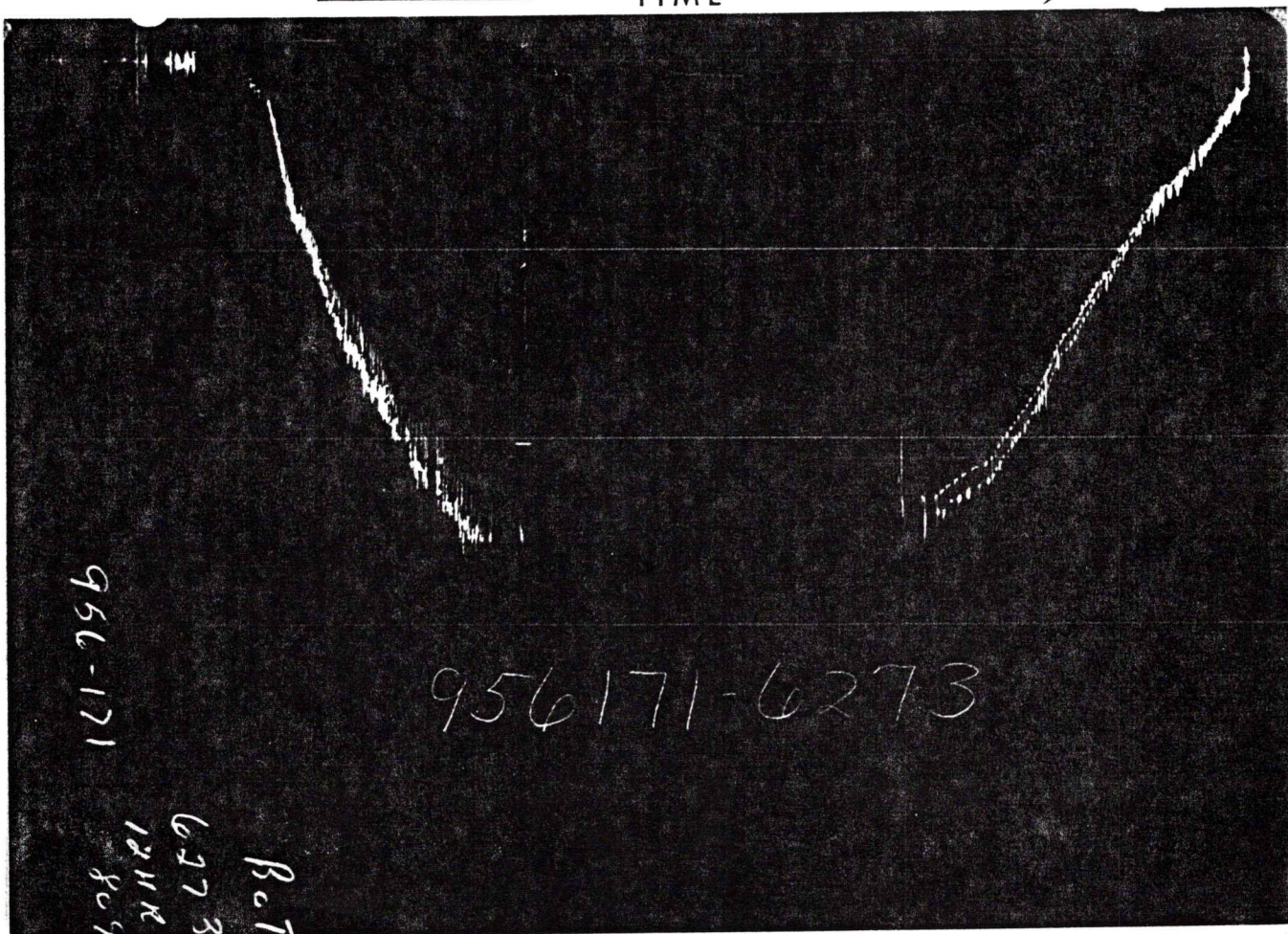
— PRESSURE —
↓

956171

956171-6274

TOF
6274
1244
170

— TIME —→



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