

TEMPERATURE RECORDER CHART

#956171

5/6

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_i	= 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.

	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	5"	-	1'	
Blanked-Off B.T. Running Case	5"	2.44"	4'	4897'
Total Depth				4900'

HT-500

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"	$\log \frac{t + \theta}{\theta}$	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	.0000	62.8	.0000	52.3	47.1	.0000		.0000	68.0								
1	.0333	51.0	.0066	222.5	52.3**	.0606		.0067	202.8								
2	.0667	60.2	.0133	278.7	56.2	.1010		.0133	265.7								
3	.1000	62.8	.0199	290.5	61.5	.1414		.0200	290.5								
4	.1333	56.2	.0265	297.1	64.1	.1818		.0266	298.4								
5	.1667	52.3	.0332	301.0	66.7	.2222		.0333	303.6								
6	.2000	52.3	.0398	302.3	66.7	.2626		.0399	306.2								
7			.0464	303.6	68.0	.3030		.0466	307.5								
8			.0531	303.6				.0532	308.9								
9			.0597	303.6				.0599	308.9								
10			.0663	303.6				.0666	308.9								
11			.1327	304.9				.1997	310.2								
12			.1990	304.9				.3328	310.2								
13			.2653	304.9				.4659	311.5								
14			.3317	306.2				.5990	311.5								
15			.3980	306.2				.6190	311.5								

Gauge No.		6273		Depth		4897'		Clock No.		8090		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	.0000	81.1	.0000	71.9	57.5	.0000		.0000	81.1						
1	.0332	70.6	.0067	226.4	73.2**	.0602		.0067	193.7						
2	.0663	79.8	.0133	303.6	73.2	.1003		.0134	270.9						
3	.0995	82.4	.0200	318.0	79.8	.1405		.0200	304.9						
4	.1327	74.6	.0266	320.6	79.8	.1806		.0267	318.0						
5	.1658	71.9	.0333	321.9	81.1	.2207		.0334	321.9						
6	.1990	71.9	.0399	321.9	81.1	.2609		.0401	323.2						
7			.0466	321.9	81.1	.3010		.0467	323.2						
8			.0532	321.9				.0534	323.2						
9			.0599	321.9				.0601	323.2						
10			.0665	321.9				.0668	323.2						
11			.1330	321.9				.2003	324.6						
12			.1995	323.2				.3339	324.6						
13			.2660	323.2				.4674	324.6						
14			.3325	324.6				.6010	325.9						
15			.3990	324.6				.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.

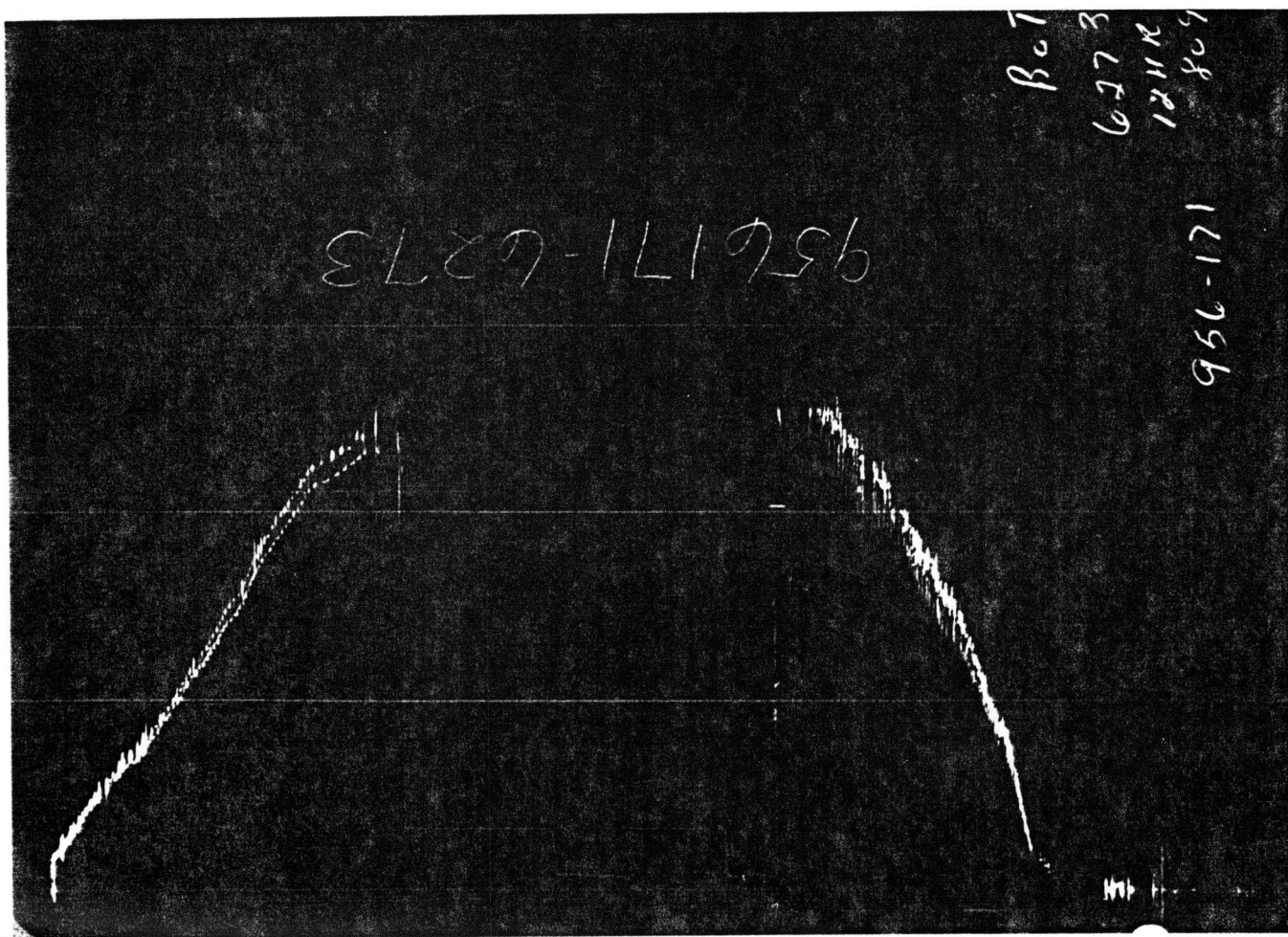
956171

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 to 10" off top of bucket
1400		Opened 1" valve to blow line				
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 Tool in table
1915						

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



PRESSURE

