

[illegible]

603825

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

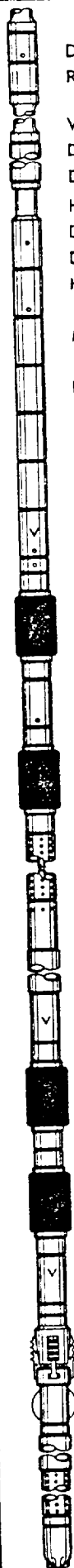
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0230						Special operator on location
						Came out of hole
0630						Unloaded and made up tools
0800						Started tools in hole
1135		BH				Opened tool with good to strong blow
1140		BH	50			Increasing
1142		BH	80			Opened to 1/4"
1143		1/4"	90			Gas to surface - increasing
1145		"	100			Increasing
1150		"	115			Closed tool
1225		"				Reopened tool
1230		"	70			Increasing
1235		"	115			"
1240		"	140			"
1250		"	165			"
1255		"	180			"
1300		"	180			" - steady
1305		"	185			Slight increase
1310		"	185			Steady
1315		"	185			"
1320		"	185			"
1325		"	185			Opened for 60 minutes, closed tool
1526						Started out of hole.

Gauge No.		1516		Depth		7656'		Clock No.		5981		24 hour		Ticket No.		603825	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure		Third Flow Period		Third 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"	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 244.0	.0000		.0000	280.7	.0000	164.1	.0000		.0000	295.8						
1	.0520 280.7	.0135*		.1980	2140.6	.1980	295.8	.0303**		.0303**	1885.5						
2		.0237			2274.8			.0572		.0572	2023.8						
3	Plugging	.0338			2337.6	Plugging		.0841		.0841	2101.7						
4		.0440			2374.4			.1110		.1110	2153.6						
5		.0541			2400.4			.1379		.1379	2194.8						
6		.0643			2415.5			.1648		.1648	2227.2						
7		.0744			2430.7			.1917		.1917	2255.4						
8		.0846			2439.3			.2186		.2186	2279.2						
9		.0947			2448.0			.2456		.2456	2298.7						
10		.1049			2458.8			.2725		.2725	2313.8						
11		.1150			2467.5			.2994		.2994	2326.8						
12								.3263		.3263	2339.8						
13								.3532		.3532	2348.4						
14								.3801		.3801	2359.3						
15								.4070		.4070	2367.9						

Gauge No.		1496		Depth		7703'		Clock No.		5979		24 hour	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third 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"	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 949.1	.0000		.0000	433.6	.0000	530.9	.0000		.0000	473.4		
1	.0510 433.6	.0132*		.1990	2212.8	.1990	473.4	.0298**		.0298**	1929.2		
2		.0232			2303.7			.0563		.0563	2044.3		
3	Plugging	.0319			2352.5	Plugging		.0828		.0828	2117.5		
4		.0428			2385.8			.1094		.1094	2168.5		
5		.0527			2407.9			.1359		.1359	2206.2		
6		.0626			2423.5			.1624		.1624	2239.4		
7		.0725			2439.0			.1889		.1889	2268.2		
8		.0823			2450.1			.2154		.2154	2290.4		
9		.0922			2456.7			.2419		.2419	2310.4		
10		.1021			2467.8			.2684		.2684	2328.1		
11		.1120			2472.2			.2949		.2949	2341.4		
12								.3214		.3214	2354.7		
13								.3479		.3479	2365.8		
14								.3745		.3745	2374.7		
15								.4010		.4010	2383.5		

Reading Interval	3	8	Minutes
REMARKS: *First interval is equal to 4 minutes. ** = 9 minutes.			

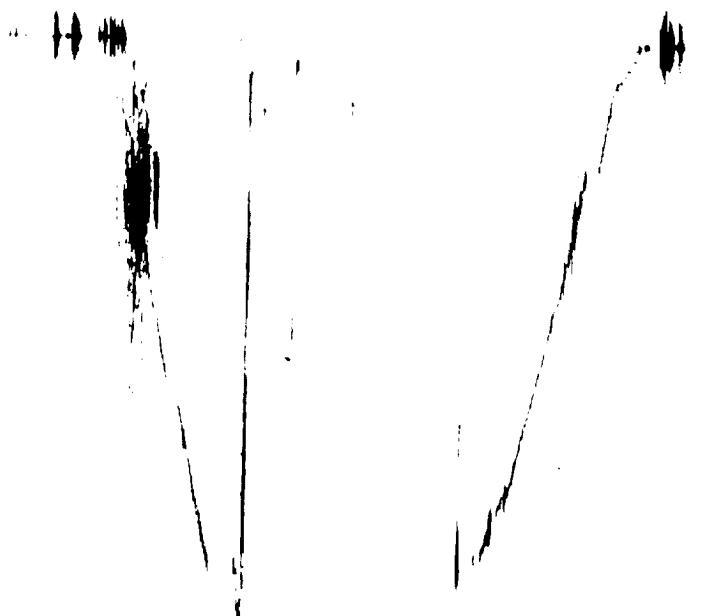


	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6.25"	3'	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	6986'	
Drill Collars	6.25"	2.25"	651'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	7637'
Multiple CIP Sampler	5"	2.38"	4'	
Extension Joint	5"	1.50"	10'	
AP Running Case	5"	3.50"	4'	7656'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7.75"	1.53"	6'	7668'
Distributor	5"	1.68"	3'	
Packer Assembly	7.75"	1.53"	6'	7676'
Flush Joint Anchor				
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	5.75"	3.50"	27'	
Blanked-Off B.T. Running Case	5.75"	3.50"	5'	7703'
Total Depth				7708'

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h)	Feet
$D.R.$	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
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.

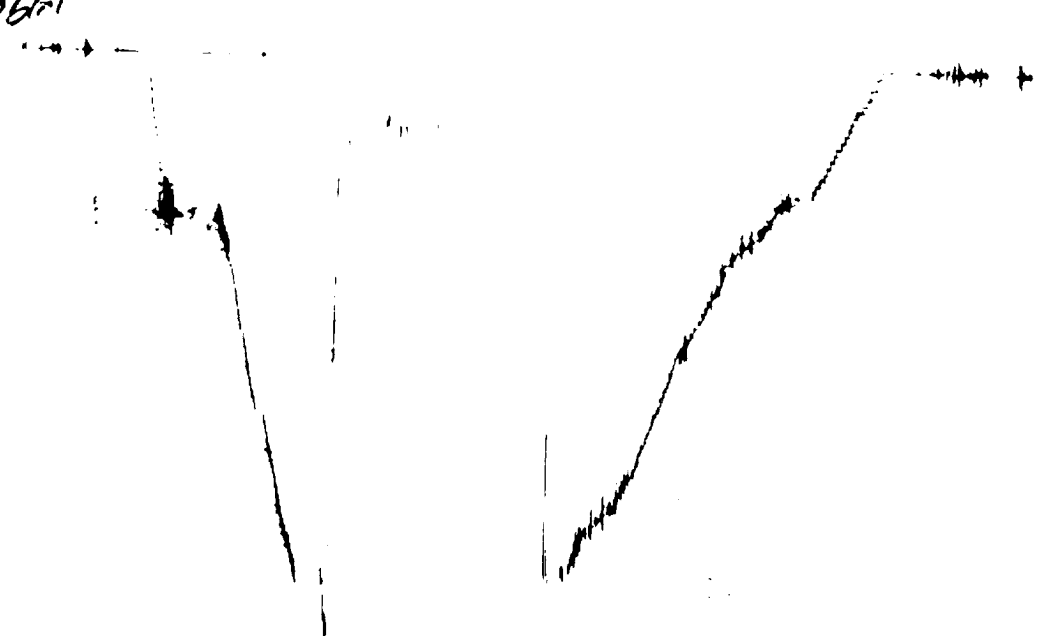


603825-1516

This graph shows a pressure response over time. The pressure starts at a high level, drops sharply to a minimum, and then recovers to a level slightly higher than the initial pressure. The recovery curve is slightly concave down.

PRESSURE

TIME



603825-1496

This graph shows a pressure response over time. The pressure starts at a high level, drops sharply to a minimum, and then recovers to a level slightly higher than the initial pressure. The recovery curve is slightly concave down.

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