

[illegible]

Type: ☒ Initial ☐ Annual ☐ Special		Test Date: 8/9/82	
Client: Phillips Petroleum Company		Connection: None	
Well: East Grama Ridge-Morrow Gas		Formation: Morrow	
Comp. No.: 6-13-82	Total Lb. H.: 13250	Plug Back TD: 13203	Elevation: 3611 KE
Core Size: 18.0	d: 4.276	Set At: 13250	Perforations: From 12808 To 12636
Trg. Size: 2.875	d: 6.5	Set At: 12580	Perforations: From Open To Ended
Type Well: Single - Single Well - G.G. or G.O. Multiple		Packer Set At: 12.560	
Single		Lea	
Producing Zone: Tubing	Heat Well Temp. °F: 201	Mean Annual Temp. °F: 12722	Baro. Press. - Fg: 60°
L: 12722		H: 12722	G: 0.600
CO ₂ : 0.327		N ₂ : 0.647	H ₂ S: -
Prover: -		Meter Run: 2.900x1.250	
FLG		FLG	

FLOW DATA						TUBING DATA		GASING DATA		Current of Flow
NO	Press. p.s.i.g.	Depth, ft.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Current of Flow
1	405	8.0	108	4202		PKR				42.0 hr
2	495	16.0	96	4115						1.0 hr
3	500	37.0	104	3918						1.0 hr
4	495	46.0	76	3448						1.0 hr
5										

RATE OF FLOW CALCULATIONS							
NO	Coefficient (4 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super. Compress. Factor, F _{sp}	Rate of Flow G. M.D.
1	7.615	63.76	508.2	.9568	1.291	1.032	619
2	7.615	90.17	508.2	.9671	1.291	1.036	838
3	7.615	137.80	513.2	.9602	1.291	1.034	1345
4	11.230	152.90	508.2	.9650	1.291	1.040	2371
5							

NO	F _g	Temp. °F	T _r	Z	Gas-Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.76	568	1.59	.939	121.975	53	0.600	XXXXXX	671	355
2	.76	568	1.55	.932				XXXXXX		
3	.76	564	1.57	.936						
4	.76	536	1.50	.924						
5										

NO	P _w	P _r	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	4218.2	7793.7	1727.3	2.6071	2.4146
2	4133.2	7708.7	2439.8		
3	3941.4	7553.6	3485.9		
4	3421.5	7219.6	7329.9		
5					

Absolute Use Time: 5484	Mold # 15.025	Angle of Slope A: 48°	Slope, n: .9000
Remarks: Well Produced 1.75 BBL'S Condensate in 4.0 hrs. = 12.50 BBL/D			

Approved By: [Signature]	Conducted By: [Signature]	Calculated By: [Signature]	Checked By: [Signature]
James Well Testing, Inc.	R.L. Townley	J.A. Coleman	PE #2018