

0+5-NMOCD-Hobbs
1-File
1-RH-Engr.
1-BW

1-CRM-Forem.
1-WIO-Flour

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6/7/82			
Company Getty Oil Company				Connection El Paso Natural Gas					
Pool Bilbrey				Formation Morrow				Unit	
Completion Date 3/18/82		Total Depth 14320'		Plug Back TD 14251'		Elevation 3641.3		Plan. or Lease Name North Bilbrey Fed <i>Cam</i>	
Chg. Size 4 1/2"	Wt. 13.5	d 3.920	Set At 14300	Perforations: From 14174 To 14189		Well No. 1			
Tiq. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 13891	Perforations: From - To -		Unit Sec. Twp. Rge. J 7 21S 32E			
Type Well - Single - Unconhead - G.G. or G.O. Multiple Morrow Gas (Single)						Packer Set At 13881'		County Lea	
Producing thru Tubing		Reservoir Temp. °F 198 @ 14294		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2		State New Mexico	
L -	H -	G _g .6685	% CO ₂ 1.215	% N ₂ .533	% H ₂ S -	Prever	Meter Run 4"	Pipe Flange	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prever Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
5.	4		1.25						Packer		
1.	4		1.25	345	4	94	3035				1.25 Hr.
2.	4		1.25	345	12.25	84	2800				.75 Hr.
3.	4		1.25	345	25	68	2640				1.0 Hr.
4.	4		1.25	345	56.25	74	2200				1.0 Hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf
1	9.643	37.842	358	.9688	1.223	1.032	345.6
2	9.643	66.223	358	.9777	1.223	1.035	612.13
3	9.643	94.604	358	.9924	1.223	1.039	891.05
4	9.643	141.907	358	.9868	1.223	1.036	1325.19
5.							

NO.	P _t	Temp. °R	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	.54	556	1.46	.939	1270	54	.6685		669	382
2	.54	554	1.42	.934						
3	.54	528	1.38	.927						
4	.54	534	1.40	.931						
5.										

NO.	P _t	P _w	P _w '	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1		4582	20997	4276	4.547	4.411
2		4440	19715	5558		
3		4219	17802	7471		
4		3613	13052	12221		
5.						

Absolute Open Flow		2700	Mscf @ 14,025	Angle of Slope α	45.57	Slope, n	.980
Remarks:							

Approved By: Commission	Conducted By: R. Hindi Bill Krafft	Calculated By:	Checked By:
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