

N. MEXICO OIL CONSERVATION COMM. J. V.
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10- 2-81			
Company Union Oil Company of California				Connection					
Pool Undesignated Gem Morrow				Formation Lower Morrow				Unit	
Completion Date 9-14-81		Total Depth 13,800'		Plug Back TD 13,755'		Elevation 3,582'		Farm or Lease Name State "HH"	
Csg. Size 5-1/2"OD	Wt. 17#	d 4.892	Set At 13,800'	Perforations: From 13,584' To 13,624'		Well No. 1			
Tbg. Size 2-7/8"OD	Wt. 6.5#	d 2,441	Set At 13,500'	Perforations: From To		Unit Sec. Twp. Rge. H 36 19-S 32-E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 13,500'		County Lea	
Producing Thru Tubing		Reservoir Temp. *F 177 @ 13,584'		Mean Annual Temp. *F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 13,584'	H 13,584'	G _g .660	% CO ₂ .75	% N ₂ 5.25	% H ₂ S 0.0	Prover 0.0	Meter Run 4.0	Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover 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
SI							3400	60			101
1.	4.00		1.000	300	36	90	300	60	0	0	12
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.75	106.18	313.2	.9723	1.2309	1.0238	618
2.							
3.							
4.							
5.							

NO.	P _t	Temp. *R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.47	550	1.52	.954	14.782	
2.					56.1	
3.						
4.						
5.						

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		323	104	11546	1.0090	1.0077
2						
3						
4						
5						

Absolute Open Flow 623 Mcfd @ 15.025				Angle of Slope θ 49.6		Slope, n .850	
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Remarks: Calculations computed using Garrett Computing System - AOF Program	
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Approved By Commission: C. J. Sexton	Conducted By: Guy Harrod	Calculated By: M. F. Standifer	Checked By: J. C. Merritt
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