

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

Form C-172
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7/4/84		RECEIVED JUL 09 1984 OIL CON. DIV.	
Company Union Texas Petroleum Corp.				Connection Southern Union Gathering Co.					
Pool Wildcat				Formation Gallup					
Completion Date 5/29/84		Total Depth 6960		Plug Back TD 6912		Elevation 5791		Farm or Lease Name Wright State Com.	
Csg. Size 7.000	Wt. 23.00	d 6.366	Set At 6959	Perforations: From 5810 To 6315		Well No. 1-E			
Tub. Size 2.375	Wt. 4.70	d 1.995	Set At 6316	Perforations: From 6252 To 6258		Unit Sec. Twp. Rge. I 36 32N 13W			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Dual - Gas - Gas						Packer Set At 6458		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L 6241	H	Gg 0.700	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

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	2"		3/4"				1497		1499		14 days
1.							155	70°	637		3 hours
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	12.3650		167	0.9905	0.9258	1.018	1928
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas _____ X X X X X X X X	
3.					Specific Gravity Flowing Fluid _____ X X X X X	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

P _c 1511	P _c ² 2,283,121		
NO.	P _w	P _w ²	P _c ² - P _w ²
1	649	421,201	1,861,920
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.2262$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1652$$

$$AOIF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2247$$

Absolute Open Flow 2247	Mcf @ 15.025	Angle of Slope θ	Slope, n 0.75
-------------------------	--------------	------------------	---------------

Remarks:

Approved By Commission	Conducted By Floyd Woodward	Calculated By Ken Roddy	Checked By
------------------------	-----------------------------	-------------------------	------------