

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6/25/81	
Company Kimbell Oil Company		Connection	
Pool Ballard		Formation Pictured Cliffs	
Completion Date 6/18/81		Total Depth 2387	Plug Back TD 2332
Elevation		Farm or Lease Name Coral Com	
Csg. Size 2.875	Wt. 6.5	d 2.441	Set At 2363
Perforations: From 2164 To 2269		Well No. 3	
Thq. Size None	Wt.	d	Set At
Perforations: From To		Unit Sec. Twp. Rge. M-27-25N-6W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At	County Rio Arriba
Producing Thru Casing	Reservoir Temp. °F θ	Mean Annual Temp. °F	Baro. Press. - P _g
State New Mexico			
L	H	Gg est. .650	% 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	Casing Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI									661		7 days
1.	2"		.750	4		68			4	68	3 Hrs.
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	12.365		16	.9924	.9608	1.0000	189
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	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A. _____
5.					Critical Temperature	R _____

P _c 673	P _c ² 452929		
NO.	P _t ²	P _w	P _w ²
1	256	16	256
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0006$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0005$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 189$

Absolute Open Flow 189 Mcfd @ 15.025 Angle of Slope θ Slope n .85

Remarks: DRY

Approved By Division Conducted By: CRW Calculated By: AR Kendrick Checked By: