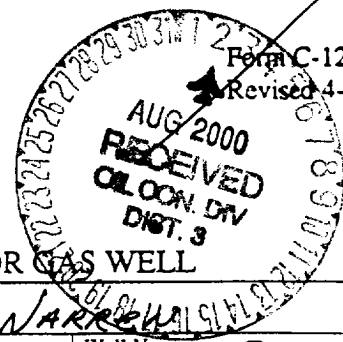


Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088



MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator KIMBELL OIL COMPANY				Lease or Unit Name WARREN			
Type Test ☐ Initial ☐ Annual ☐ Special				Test Date 7/26/2000		Well No. 8	
Completion Date 8-21-2000		Total Depth 2855' G.L.		Plug Back TD 2680' G.L.		Elevation 6820	
Csg. Size 2 7/8"	Wt. 6.5	d 2.441	Set At 2829'	Perforations: From: 2566' To: 2672'		Unit Ltr. - Sec. - TWP - Rge. K 26 25 6	
Tbg. Size 1 1/4"	Wt. 1.8	d 1.049	Set At 2679'	Perforations: From: To:		County Rio Arriba	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At NONE		Formation Basin Fruitland Coak	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press - P. 12 psia	
Connection EPFS							
L	H	Gg 0.650	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run Taps

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	Orifice X 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	7 days					542		592		
1.	2" X 0.375					12.5		74°		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 Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	3.1420		24.5	0.9868	0.9608	1.009	73.3
2.							
3.							
4.							
5.							

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

P_c **604** P_c² **364816**

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		37	1369	363,447
2.				
3.				
4.	CALCULATED			
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.00377$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.00296$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 73.5$

Absolute Open Flow **73.5** Mcfd @ 15.025 Angle of Slope θ Slope, n **0.85**

Remarks:

Approved By Division Conducted By: **E. A. Nantz** Calculated By: Checked By: