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

Form C-1
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-7-73	
Company Kimball Production Company				Connection	
Pool Morrow				Unit	
Completion Date		Total Depth 14,495		Plug Back TD	
Elevation		Farm or Lease Name Federal "One"			
Casing Size 5 1/2	Wt. 20	Set At 4.778	Perforations: From 13,929 To 14,115		Well No. 1
Tubg. Size 2 7/8	Wt. 6.5	Set At 2.441	Perforations: From Open To End		Unit Sec. Twp. Rge.
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At	
Producing Thru Tbg.				County Eddy	
Reservoir Temp. °F 211 @ 13,652		Mean Annual Temp. °F		State New Mexico	
L 13,652	H 13,652	Gg .634	% CO ₂	% N ₂	% H ₂ S
Prover			Meter Run 4"		Taps Flg.

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							4975	74			72 hrs.
1.	4 x 2.250			670	1.00	103	3546	72			1 hr.
2.	4 x 2.250			705	3.00	103	2769	75			1 hr.
3.	4 x 2.250			705	5.00	105	2351	76			1 hr.
4.	4 x 2.250			670	16.00	103	1471	78			1 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, Mcfd
1.	25.64	26.14	693.2	.9568	1.256	1.055	850
2.	25.64	46.42	713.2	.9568	1.256	1.057	1,571
3.	25.64	59.92	713.2	.9594	1.256	1.057	1,957
4.	25.64	104.55	693.2	.9610	1.256	1.055	3,414
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	1.02	568	1.54	.899	20.4	
2.	1.07	568	1.54	.895	48.0 @ 60°	
3.	1.07	565	1.53	.895		
4.	1.02	563	1.53	.899		
5.						

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2}$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n$
1.	3561.9	12687.1	12195.0		1.103	1.103
2.	2789.9	7783.5	17093.6			
3.	2376.6	5643.2	19233.9			
4.	1527.3	2332.6	22549.5			
5.						

Absolute Open Flow 3,766 Mcfd @ 15.025				Angle of Slope 45.0		Slope, n 1.000	
Remarks: Made 15.96 bbls. 48.0 Condensate during test							
Approved By Commission: _____ Conducted By: Tom Hansen Co., Inc. Calculated By: Richard Turner Checked By: _____							