

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-3-70	
Company Southwestern Nat'l Gas, Inc.				Connection None		
Pool South Corbin				Formation Morrow		Unit
Completion Date 3-30-70		Total Depth 13,650'		Plug Back TD 13,585'		Elevation 3754GL
Csg. Size 4-1/2"		Wt. 11.66 lb/ft		Set At 13,650'		Perforations: From 13,116 To 13,197
Tbg. Size 2-3/8"		Wt. 5.95 lb/ft		Set At 13,065'		Perforations: From Open Ended
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 13,065'		County Lea
Producing Thru Tbg.		Reservoir Temp. °F 160 @ 13,000 Est. 60°		Mean Annual Temp. °F		Baro. Press. - P _a
L 13,157		H		G _g 0.662	% CO ₂ 0.88	% N ₂ 0.4
				% H ₂ S 0	Prover	Meter Run 4"
						Taps F

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	4 10/64"	1"		600	31	65°	1500		Pkr		1 hr
1.											
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	4.874	138	614.65	.9943	1.229	1.05	860
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.9	525	1.41		34.4	47.2	0.662	673		
2.										
3.										
4.										
5.										

NO.	P _r ²	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		3,325	11055.6	27498.6	1.4	1.185
2						
3						
4						
5						

Absolute Open Flow 993 Mcfd @ 15.025				Angle of Slope @ 45° assumed		Slope, n 0.5
Remarks:						
Approved By Commission		Conducted By: R. N. Yancey		Calculated By: W.E. Hendon, Jr.		Checked By: --

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APR 20 1970

OIL CONSERVATION COMM.
WASH., D. C.