

NEW MEXICO 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 9-18-80			
Company Nanco, Inc.				Connection					
Pool Gavilian				Formation Pictured Cliffs				Unit	
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name Locer	
Csg. Size 4 1/2	Wt. d	Set At 3664	Perforations: 3500 to 3516 From 3526 To 3544		Well No. 2				
Tbg. Size 2 3/8	Wt. d	Set At 3550	Perforations: From To		Unit K		Sec. 15	Twp. 25N	Rge. 2W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single gas						Packer Set At		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .650 est.	% CO ₂	% N ₂	% H ₂ S	Prover 6" nipple	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.	
SI	Shut-in						580		964	
1.	2 X 3/4						97	60	185	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.00		109	1.000	1.240	1.011	1503
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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0368$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0312$
1		197	33.8	918.8		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1550$

Absolute Open Flow 1550 Mcfd @ 15.025

Angle of Slope θ 49.64

Slope, n .85

Remarks:

Approved By Commission:	Conducted By: Lynn Alexander	Calculated By: Neil Tefteller	Checked By:
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TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Well : LOCER NO. 2

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Field :

File 2-11021-AOF

CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

1980 Date	Status of Well	Time	Elapsed Time		Wellhead Pressure	
			Hrs.	Min.	Tbg	Csg
9-18	Shut-in				580	964
"	Opened on 3/4" pos.					
"	choke	12:30	0	00		
"	"	12:45	0	15	290	475
"	"	13:00	0	30	185	365
"	"	13:15	0	45	160	306
"	"	13:30	1	00	141	266
"	"	14:00	1	30	128	242
"	"	14:30	2	00	114	211
"	"	15:30	3	00	97	185