NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 9-18-80	
Company: Nanco, Inc.		Connection			
Pool: Cavilian		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: 3690		Perforations: From 3534 To 3576		Well No.: 1	
Tbg. Size: 1 1/4 / Wt. / d / Set At: 3561		Perforations: From To		Unit: C Sec.: 15 Twp.: 25N Rge.: 2W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple		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	% CO_2	% N_2	% H_2S	Prover: 6" nipple / Meter Run / Taps

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	Shut-in						400		718		
1.	2	X	3/4				88	60	470		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, Fpv	Rate of Flow Q, Mcfd
1	11.00		100	1.000	1.240	1.010	1378
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °F	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 730 P_c^2 533.9

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		482	232.3	300.6
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7728$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6269$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2242$

Absolute Open Flow 2242 Mcfd @ 15.025 Angle of Slope θ 49.64 Slope, n .85

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Lynn Alexander	Neil Teftellier	

TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Well : LOCEF NO. 1 Page 1 of 4

Field : File 2-11021-AOF

CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

1980 Date	Status of Well	Time	Elapsed Time Hrs.	Min.	Wellhead Pressure Tbg	Csg
9-18	Shut-in				400	718
"	Opened on 3/4 pos. choke	12:30	0	00		
"	"	12:45	0	15	85	600
"	"	13:00	0	30	122	600
"	"	13:15	0	45	106	565
"	"	13:30	1	00	110	550
"	"	14:00	1	30	106	529
"	"	14:30	2	00	97	507
"	"	15:30	3	00	88	470