NEW MEXICO OIL CONSERVATION COMMSSION COPY TO STATE
MULTIPOINT ND ONE POINT BACK PRESSURE TF FOR GAS WELL
Form C-122
Revised 9-1-65

RECEIVED
OCT 4 1976
O. C. C.
ARTESIA, OFFICE

Type Test: ☒ Initial ☒ Annual ☐ Special				Test Date: 9-14-76	
Company: BELCO PETROLEUM CORP.		Connection: LLANO Inc. ~~Gas Co.~~			
Pool: SOUTH CARLSBAD Morrow		Formation: MORROW		Unit:	
Completion Date: 3-14-76	Total Depth: 12,478'	Plug Back TD: 11,589'	Elevation: 3141 GR.	Farm or Lease Name: JARVIS MEAD	
Csg. Size: 7" / Wt.: 29# / d: 6.184" / Set At: 12,478'		Perforations: From 11,114' To 11,549'		Well No.: 1	
Tbg. Size: 2 7/8" / Wt.: 6.5# / d: 2.441" / Set At: 11,080'		Perforations: From OPEN ENDED To		Unit: N / Sec.: 5 / Twp.: 22S / Rge.: 27E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 11,065'		County: EDDY	
Producing Thru: TUBING	Reservoir Temp. °F: 187 @ 11,331'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: NEW MEXICO	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
.11331	11331	0.5858	1.037	1.291	-----	-----	3"	FLANGE

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI						1969.0		PACKER	CHOKE	24 HRS
1.	3"	x 2.00"	575.0	36.0	70	1065.0	79		23/64	120 MIN
2.	3"	x 2.00"	580.0	28.0	68	1250.0	80		21/64	60 "
3.	3"	x 2.00"	580.0	20.0	68	1414.0	82		18/64	60 "
4.	3"	x 2.00"	580.0	11.0	66	1675.0	81		14/64	60 "
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	21.32	145.5	588.2	.9905	1.306	1.043	4185
2.	21.32	128.9	593.2	.9924	1.306	1.083	3857
3.	21.32	108.9	593.2	.9924	1.306	1.083	3259
4.	21.32	80.78	593.2	.9943	1.306	1.085	2427
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	0.87	530	1.53	.920
2.	1.71	528	1.53	.852
3.	1.71	528	1.53	.852
4.	1.71	526	1.52	.849
5.				

Gas Liquid Hydrocarbon Ratio 196.4 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 56.0 @ 60° Deg.
Specific Gravity Separator Gas 0.5858 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 675 P.S.I.A. ____ P.S.I.A.
Critical Temperature 346 R ____ R

P_f 2471.2 P_f^2 6107

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		1897.2	3599	2508
2		2038.2	4154	1953
3		2150.2	4623	1484
4		2288.2	5236	871
5				

(1) $\frac{P_f^2}{P_f^2 - P_s^2}$ = 3.127 (2) $\left[\frac{P_f^2}{P_f^2 - P_s^2}\right]^n$ = 1.950

AOF = Q $\left[\frac{P_f^2}{P_f^2 - P_s^2}\right]^n$ = 7521

Absolute Open Flow 7521 Mcfd @ 15.025 Angle of Slope θ 59.6° Slope, n 0.586

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE @ 11,331 FEET.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	G.J.P.	R.L.W.	J.W.W.