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: 6-15-81	
Company: BELCO PETROLEUM CORPORATION			Connection: Natural Gas Pipeline Co. of America		
Pool: Los Medanos Atoka				Unit	
Completion Date: 5-16-81	Total Depth: 14,000'		Plug Back T.D.: 13,235	Elevation: 3324 KB	Farm or Lease Name: James Ranch Unit
Csg. Size: 7 5/8" / 5" Liner	Wt.: 29.7# / 33.7# / 23.06#	d: 6.875" / 6.765" / 4.044"	Set At: 11,993' / 10,795-13,881'	Perforations: From 13,044 To 13,048	Well No.: 11
Tbg. Size: 2 7/8	Wt.: 6.5#	d: 2.441"	Set At: 10,674'	Perforations: From Open To Ended	Unit: E; Sec.: 36; Twp.: 22 S; Rge.: 30 E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 177° @ 10,300		Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.20	State: N. Mex.

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10,674	10,674	.5993	.447	.965	-0-		3"	Flg.

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							1280		PKR	Choke	72 Hr.
1.	3	x	1.75	435	4"	89	1090	73		10.5/64	1 Hr.
2.	3	x	1.75	440	8"	74	970	74		13.5/64	1 Hr.
3.	3	x	1.75	455	11"	73	878	74		16/64	1 Hr.
4.	3	x	1.75	465	14"	71	802	75		18.5/64	1 Hr.
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	15.61	42.34	448.2	.9732	1.292	1.031	875
2.	15.61	60.21	453.2	.9868	1.292	1.035	1,240
3.	15.61	71.76	468.2	.9877	1.292	1.037	1,482
4.	15.61	81.82	478.2	.9896	1.292	1.038	1,695
5.							

NO.	P_t	Temp. °R	T_r	Z
1	.667	549	1.55	.940
2.	.674	534	1.50	.933
3.	.697	533	1.50	.930
4.	.712	531	1.50	.929
5.				

Gas Liquid Hydrocarbon Ratio: T. S. T.M. Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: .5993 Deg.
Specific Gravity Separator Gas: XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. P.S.I.A.
Critical Temperature: 355 R R

P_c* 1403.8 P_c^2 1970.7

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1234.3	1523.5	447.2
2		1102	1214.4	756.3
3		1025.7	1052.1	918.6
4		953.8	909.7	1061
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8573$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6985$

$\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.879$

Absolute Open Flow: 2,879 Mcfd @ 15.025 Angle of Slope θ: 49°27' Slope, n: .85559

Remarks: * Calculated from known bottom hole pressures.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M.R.	M.K.	M.K.