

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 12-1-55

Pool Ballard		Formation Pictured Cliffs		County Rio Arriba	
Initial X		Annual		Special	
Company John E. Schalk		Lease Cinco Diablos		Date of Test 10/24/66	
Unit D		Sec. 9		Twp. 23-N	
Casing 4 1/2"		Wt. 9.5		I.D. 4.090	
Tubing 1 1/2"		Wt. 2.75		I.D. 1.610	
Range 4-W		Set at 2805		Perf. 2728	
Purchaser El Paso Natural Gas Co.		Well No. 2		To 2740	
From 2724		To 2740		L 2742	
Gas Pay: 2724		To 2740		G .700	
GL 1919		Bar. Press. 12.0		Type Well - Single - Braden head - G.G. or G.O. Dual	
Producing Through:		Casing X		Tubing	
Date of Completion 10/16/66		Packer No		Reservoir Temp.	
Single-Gas					

OBSERVED DATA

Tested Through:		Prover ☐		Choke ☒		Meter ☐		Type of Taps		
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (Line) Size	(Choke) XXXX Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
1.		3/4	42		59	729	42	729	185	8-Days
2.							59			3-Hrs
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15.025 psia
1.	12-3650		54	1.0010	.9258	1.011	626
2.							
3.							
4.							
5.							

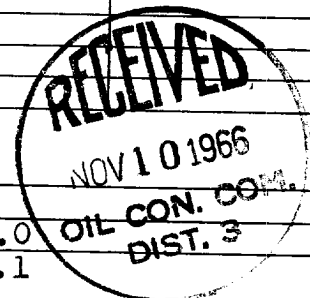
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____

Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____

F_c _____ (1-e^{-S}) _____ P_c **741** P_w **197** P_c² **549.0** P_w² **388.1**

No.	$\frac{P_w}{P_t}$ psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.						388.1	160.9		0.265
2.									
3.									
4.									
5.									



ABSOLUTE POTENTIAL: 695 MCFPD; n 0.85

COMPANY John E. Schalk WITNESSED G.L. Hoffman

ADDRESS Box 2078 Farmington, N.M. COMPANY Beta Development Co

AGENT AND TITLE V.L.Wiederkehr, Consultant