

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Form C-122
Revised 9-1-65

JAN 16 1974

Type Test ☐ Initial ☐ Annual ☒ Special					Test Date 1-7-74		O.C.C.	
Company Texas Inter. Petro. Corp.				Connection El Paso Natural Gas Company			ARTESIA, OFFICE	
Pool Dos Hermanos				Formation Morrow			Unit J	
Completion Date 7-19-73		Total Depth 12,625		Plug Back TD 12034		Elevation 3394		Farm or Lease Name Hudson Fed. Comm.
Csq. Size 5 1/2	Wt. 17-20	d -	Set At 12625	Perforations: From 11777 To 11804		Well No. 1		
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11523	Perforations: From To		Unit Sec. Twp. Rye. J 29 20S 30E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 11523		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 186		Mean Annual Temp. °F 74		Baro. Press. - P _a 13.2		State New Mexico
L *12,633	H	Gg .604	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flg.

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							2521			
1.	4	x	1.500	735	2.4	52	2443	62		
2.	4	x	1.500	738	5.8	66	2277	66		
3.	4	x	1.500	740	9.0	71	2030	67		
4.	4	x	1.500	749	18.5	76	1707	69		
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	11.82	42.38	748.2	1.008	1.287	1.072	697
2.	11.82	66.01	751.2	.9943	1.287	1.064	1062
3.	11.82	82.33	753.2	.9896	1.287	1.062	1316
4.	11.82	118.75	762.2	.9850	1.287	1.060	1886
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	1.12	512	1.43	.870	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	1.12	526	1.47	.883	Specific Gravity Separator Gas _____ X X X X X X X X
3.	1.12	531	1.48	.886	Specific Gravity Flowing Fluid _____ X X X X X
4.	1.14	536	1.50	.890	Critical Pressure _____ 671 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ 358 _____ R _____ R

NO.	P ₁ ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.925$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.422$
1		2460.9	6056.0	366.2		
2		2299.6	5288.2	1134.0		
3		2058.7	4238.2	2184.0		
4		1756.8	3086.3	3335.9		
5						

Absolute Open Flow _____ 2.682 _____ Mcfd @ 13.025			Angle of Slope θ _____ 61.75	Slope, n _____ 537
Remarks: * = Equiv. Length. No Fluid was made at these rates.				
Approved By Commission		Conducted By: Reggie Reston	Calculated By: Reggie Reston	Checked By: