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C-122

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

Form C-122
Revised 9-1-65

JAN 10 1974

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 1-3-74	
Company Texas International Petro.		Connection El Paso Natural Gas Company	
Pool Undesignated		Formation Morrow	
Completion Date 7-30-73		Total Depth 11903	Plug Back TD 11800
Casing Size 5 1/2		Well No. 20#	Elevation 3244
Tubing Size 2 3/8		Set At 11903	Perforations: From 11350 To 11724
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 11282	Farm or Lease Name Sun State Com
Producing Thru Tbg. L		Reservoir Temp. °F 181°	Mean Annual Temp. °F 11680
Baro. Press. - P _g 13.2		State New Mexico	
Prover 11680		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.		Temp. °F
SI							3376				26 hrs
1.	4	x	1.250	735	4"	480	3257	440			45 Min
2.	4	x	1.250	735	10"	480	3165	480			1 Hr.
3.	4	x	1.250	740	16"	500	3053	500			1 hr.
4.	4	x	1.250	760	24"	500	2885	530			1 hr.
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	7.469	54.71	748.2	1.012	1.301	1.071	576
2	7.469	86.50	748.2	1.012	1.301	1.071	911
3	7.469	109.78	753.2	1.010	1.301	1.070	1153
4	7.469	136.22	773.2	1.010	1.301	1.073	1435
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.11	508	1.43	.871		Dry			672	354
2	1.11	508	1.43	.871						
3	1.12	510	1.44	.874						
4	1.15	510	1.44	.869						
5										

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1	3389.2	11.486	900.8	3.688	2.208	
2	3164.7	10015.3	2147.6	3.169		
3	3056.0	9339.1	3114.9			
4	2893.4	8371.8				
5						

Absolute Open Flow	3,169	Mcfd @ 15.025	Angle of Slope @	58.75	Slope, n	.607
Remarks:						
Approved By Commission:						
Conducted By:		Calculated By:		Checked By:		
Randy Kiker		Randy Kiker				