

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

Form O-122
Rev. 1-65
RECEIVED
JAN 11 1974
C-122

☒ Initial		☐ Annual		☐ Special		Test Date 1-15-74			
Company Texas International Petro. Corp.				El Paso Natural Gas Company				TIPCO MIDLAND, TEXAS	
Field South Carlsbad				Location Canyon				Unit	
Completion Date 1-10-74		Total Depth 11935		Plug Back TD 11910		Elevation 3315 KB		Farm or Lease Name Allied State	
Core Size 5 1/2	WT. 17 & 20	Set At 11935	Perforations: From 10247 To 10277		Well No. 1				
HT. Size 2 3/8	WT. 4.7	Set At 9689	Perforations: From To		Unit I		Soc. 10	Twp. 23	Rge. 26
Type Well - Single - Bradenford - G.G. or G.O. Multiple Single				Packer Set At 9689		County Eddy			
Producing Thru Tbg.		Reservoir Temp. °F 151 9689		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Tops 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	
51							4335		Packer		24 hr.
1.	4	x	2	406	7.3	92	4065	74			1 hr.
2.	4	x	2	435	21.2	68	3685	75			1 hr.
3.	4	x	2	475	35.0	52	3210	76			1 hr.
4.	4	x	2	600	51.8	49	2570	77			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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	19.81	55.32	419.2	.9706	1.248	1.035	1,374
2	19.81	97.48	448.2	.9924	1.248	1.043	2,495
3	19.81	132.57	483.2	1.008	1.248	1.054	3,482
4	19.81	178.22	613.2	1.011	1.248	1.070	4,766
5.							

NO.	F _t	Temp. °R	T _f	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.	.63	552	1.48	.933	168.33	40.3 @ 60°	.642	X X X X X	670	372
2.	.67	528	1.42	.919				X X X X X	670	378
3.	.73	512	1.38	.901						
4.	.92	509	1.37	.874						
5.										

P ₁ 1318.2		P ₂ 18,006.8	
NO.	P ₁	P ₂	P ₂ ² - P ₁ ²
1		4085.9	16,694.6
2		3726.2	13,844.6
3		3281.1	10,765.6
4		2704.2	7,312.7
5			

(1) $\frac{P_2^2}{P_2^2 - P_1^2} = 1.631$

ACF = 3 $\left[\frac{P_2^2}{P_2^2 - P_1^2} \right]^n = 6.945$

(2) $\left[\frac{P_2^2}{P_2^2 - P_1^2} \right]^n = 1.457$

Absolute Open Flow	6,945	Mcfd @ 15.025	Angle of Slope @	52.5	Slope, n	.770
Remarks: Started making fluid during second rate. 38bbl total fluid made.						

Approved By Commission:	Conducted By: Rick Pagan	Calculated By: Rick Pagan	Checked By: JAN 24 1974
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