

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

Form C-122
 Revised 9-1965

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7/8/82	
Company McIELLAN OIL CORP ✓				Correction Air	
Well Panjick Abo				Formation Abo	
Completion Date 7/3/82		Total Depth 4510		Plug Back TD 4413	
Elevation 3657 Gr		Perforations: From 3984 To 4348		Well No. 2	
Casing Size 4 1/2" 10.5		Set At 4474		Perforations: From Open To Ended	
Tubing Size 2 3/8" 4.7		Set At 4410		Unit Artesia, Office	
Type well - Single - Frothead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 98 @ 4100		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State New Mexico		County Chaves	
L		H		G _g .64	
% CO ₂		% N ₂		% H ₂ S	
Prover 2"		Meter Run		Taps	

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	
1.	2"	X	1.25	2.95			881	85	890		1 hr
2.	2"	X	1.25	13.75			871	83	890		
3.	2"	X	1.25	20.14			814	82	870		
4.	2"	X	1.25	22.58			740	81	860		
5.	2"	X	1.25	23.58			735	81	840		

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcf/d
1	407			.979	.968	1.075	415
2	969			.979	.968	1.070	983
3	1240			.979	.968	1.064	1252
4	1390			.979	.968	1.062	1400
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/MMBtu
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____
3					Specific Gravity Flowing Fluid _____ X X X X X
4					Critical Pressure _____ P.S.I.A.
5					Critical Temperature _____ °R

NO.	P _t ²	P _w ²	P _e ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 7.33$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 4.05$
1	970	948	26.71		ACT = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 5200$	
2	940	884	90.87			
3	917	841	133.68			
4	899	808	166.02			
5						

Absolute Open Flow 5200 Mcf/d @ 13.025 Angle of Slope 35 Slope, n 2.7

Remarks: Bottom hole pressures recorded with Anerada Type gauge

Approved By: _____	Conducted By: KELTIC SERVICES	Calculated By: Kelly	Checked By: _____
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