

MEXICO OIL CONSERVATION COMM. ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-3-68		DEC 9 1968	
Company SOLIO PETROLEUM COMPANY						Connection / NONE		D. C. C. ARTESIA, OFFICE	
Pool NO MILLIAN						Formation MORROW		Unit 640	
Completion Date 12-3-68		Total Depth 10520'		Plug Back TD 10444'		Elevation 3305' KB		Farm or Lease Name STATE 1-19	
Csq. Size 1 1/2	Wt. 11.6	d 1.000	Set At 10472'	Perforations: From 10322' To 10405'		Well No. 1			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10263'	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. G 19 20S 27E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 10263'		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 170 @ 10364'		Mean Annual Temp. °F -		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 10364	H -	G _g .615	% CO ₂ 0.63	% N ₂ 0.17	% H ₂ S 0.00	Prover -	Meter Run X	Taps FLANGE	

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. INT	Temp. °F	Press. p.s.i.g.	
SI							3000	450		
1.	4 11/64		1.000	820	82	820	2125	64	PKR	-
2.	4 9/64		1.000	800	48	78	2437	62	-	-
3.	4 7/64		1.000	760	28	78	2597	60	-	-
4.	4 5/64		1.000	770	17	82	2617	58	-	-
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	4.753	261.39 ✓	833.2	.9795	1.275	1.064	1650.9 ✓
2	4.753	197.57 ✓	813.2	.9831	1.275	1.064	1252.4 ✓
3	4.753	142.04 ✓	793.2	.9831	1.275	1.062	913.0 ✓
4	4.753	115.39 ✓	783.2	.9795	1.275	1.060	726.0 ✓
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	1.24	542	1.51	.884	281.430	
2.	1.21	538	1.50	.883	56.7	
3.	1.18	536	1.50	.886		
4.	1.16	542	1.51	.890		
5.						

A.P.I. Gravity of Liquid Hydrocarbons 56.7				Deq.	
Specific Gravity Separator Gas .6153				XXXXXXXXXX	
Specific Gravity Flowing Fluid XXXXX				-	
Critical Pressure 674 P.S.I.A.				-	
Critical Temperature 358 R				-	

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.894$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.575$
1	-	2863.2	8197.9	7461.5		
2	-	3201.2	10247.2	5411.7		
3	-	3414.2	11656.8	4002.6		
4	-	3449.2	11897.0	3762.4		
5						

Absolute Open Flow 3200 Mcfd @ 15.025				Angle of Slope θ 46°		Slope, n .890	
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Remarks: * BHP @ (-7059) 10364' Used For Pressure Calculation	
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Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	COLEMAN PET. ENG. CO.	JOE A. COLEMAN	JOE A. COLEMAN

