

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

Form C-122
Revised 9-1-55

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-25-80	
Company William N. Beach		Production None	
Pool Quail Ridge		Formation Morrow	
Completion Date 4-16-80	Total Depth 13,632'	Flow Back 13,565'	Deviation 3733 KB
Dsg. Size 5.5	Wt. 20	d 4.778	Set At 13,632
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 13,328
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 13,328	Well No. 1
Producing Thru Tubing	Reservoir Temp. °F 184 @ 13402	Mean Annual Temp. °F 60	Baro. Press. - P _g 13.2
L 13,407	H 13,407	G _g 0.697	% CO ₂ 0.7
		% N ₂ 0.32	% H ₂ S Nil
		Prover	Meter Run X
			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.	Temp. °F	Press. p.s.i.g.		Temp. °F
S:	78 Hours										
1.	4.026 X 1.75			450	5	64	1337	74			
2.	4.026 X 1.75			455	10	64	1015	72	Pkr.		60 min.
3.	4.026 X 1.75			460	19	62	978	73	"		60 min.
4.	4.026 X 1.75			470	39	60	868	73	"		60 min.
5.							794	73	"		60 min.

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. Compres. Factor, F _{spv}	Rate of Flow Q, Mhd
1	14.93	48.125	463.2	0.9962	1.198	1.055	904.66
2	14.93	68.425	463.2	0.9962	1.198	1.055	1286.26
3	14.93	94.820	473.2	0.9981	1.198	1.056	1787.53
4	14.93	137.276	483.2	1.0000	1.198	1.059	2600.20
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.G. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.69	524	1.35	0.899	28.3	56.6 @ 60°	0.697	X X X X X	669	388
2	0.70	524	1.35	0.898						
3	0.71	522	1.35	0.896						
4	0.72	520	1.34	0.892						
5										

F _g 2794.2 P _e ² 7808	
NO.	P _e ²
1	2679.2
2	2597.2
3	2531.2
4	2429.2
5	

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 4.094389$		(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 4.094389$	
A.P.G. $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 10646.23$			

Absolute Open Flow	10646.23	Mhd @ 15.025	Angle of Slope @	45°	Slope, n	1.0000
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Remarks: Subsurface pressure measured with Amerado type gauges,
Serial Number--A-14637-N

Approved By Commission:	Conducted By: F. Jones	Calculated By: Tefteller, Inc.	Checked By:
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