

MEXICO OIL CONSERVATION COM N
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 12-3-73		DEC 12 1973	
Company Hillin Production Co.,				Connection El Paso				O. C. C. ARTESIA. OFFICE	
Pool Winchester 7.				Formation Morrow				Unit	
Completion Date 4-19-73		Total Depth 11257		Plug Back TD 11125		Elevation 3290 C.H.		Farm or Lease Name JCW-State Com.	
Csg. Size 5 1/2	Wt. 17 & 20	d	Set At 11257	Perforations: From 11038 To 11050		Well No. 1-Com.			
Tbg. Size 2 1/2	Wt.	d	Set At 10990	Perforations: From Open To End		Unit Sec. Twp. Rge. C 2 20 28			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual						Packer Set At 10990		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 172 @ 10950		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State N.M.	
L	H	Gg .620	% CO ₂	% N ₂	% H ₂ S	Prover		Meter Run 4.026	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.	
SI							2323	60	Dual	
1.	4.026		2.750	9.35	1.0	70	1747	69		1 hr.
2.	"		"	9.45	2.0	76	1615	70		1 hr.
3.	"		"	9.55	2.7	76	1550	74		1 hr.
4.	"		"	9.65	3.2	74	1475	76		1 hr.
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$ L-10	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	56.63	9.35	(3.162)	.9905	1.270	1.000	2106
2.	"	18.90	"	.9850	"		4234
3.	"	25.78	"	.9850	"		5774
4.	"	30.88	"	.9868	"		6926
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ 192.4 _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ 58.2 _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 2336.2 P _c ² 5458					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.690$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.690$	
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11,705$			
1		1760.2	3098	2360				
2		1628.2	2651	2807				
3		1563.2	2444	3014				
4		1492.2	2228	3230				
5								

Absolute Open Flow _____ 11,705 _____ Mcfd @ 15.025		Angle of Slope @ _____ 45 _____		Slope, n _____ 1.000 _____	
Remarks: _____					
Approved By Commission:		Conducted By: C. Allen Dorsey		Checked By:	
		Calculated By: C. Allen Dorsey			