

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

file.
Form C-122
Revised 9-1-65
RECEIVED *9-1-80*
file

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-4-80		AUG 18 1980	
Company Hillin Production Co.				Connection <i>El Paso natural Gas</i>		O. C. D. ARTESIA, OFFICE	
Pool WING HESTER <i>Burton Flat</i>				Formation Morrow		Unit	
Completion Date 5-16-80		Total Depth 11220		Plug Back TD 11185		Elevation 3298 ft.	
Farm or Lease Name DYU							
Csg. Size 5.5	Wt. 10980	d .635	Set At 10956	Perforations: From 11036 To 11026		Well No. 4	
Thq. Size 2.375	Wt. 10956	d .635	Set At 10956	Perforations: From To		Unit Sec. Twp. Rge. 0 34-19-28	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <i>Multiple</i>				Packer Set At		County Eddy	
Producing Thru 5-16-80		Reservoir Temp. *F 10980		Mean Annual Temp. *F .635		Baro. Press. - P _a .82	
State New Mexico		Prover X		Meter Run X		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	
SI							1455				
1.	4.0		1.0	7.4	3.5	84	814	87			1HR
2.	4.0		1.0	7.4	3.8	89	722	90			1HR
3.	4.0		1.0	7.4	4.2	92	707	91			1HR
4.	4.0		1.0	7.4	4.7	96	642	93			1HR
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1.	4.753	*	518.4	.9777	1.286	1.039	505
2.	4.753	*	518.4	.9732	1.286	1.038	549
3.	4.753	*	518.4	.9706	1.286	1.037	605
4.	4.753	*	518.4	.9671	1.286	1.036	674
5.							

NO.	P _t	Temp. *R	T _r	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.	.77	544	1.52	.926	82800	50°	.605		671	358
2.	.77	549	1.53	.928						
3.	.77	552	1.54	.930						
4.	.77	556	1.55	.932						
5.										

NO.	P _t	P _w	P _c	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.	2081.2	1379.2	4332	2430	1.78272	1.78272
2.		1252.2		2764		
3.		1219.2		2846		
4.		1089.2		3146		
5.						

Associate Open Flow 901	Mcf/d @ 15.025	Angle of Slope θ 45°	Slope, n 1.00
* Square Root Chart Factor 3.162			

Approved By Commission:	Conducted By: <i>San Antonio Co.</i>	Calculated By:	Checked By:
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