

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 10-16-73		OCT 29 1973	
Company HILLIN PRODUCTION CO.				Connection EL PASO NATURAL GAS COMPANY			
Pool WINCHESTER				Formation MORROW		Unit O.C.C. ARTEBIA, OFFICE	
Completion Date 9-18-73 4-19-73		Total Depth 11,257'		Plug Back TD 11,125		Elevation 3290 GR.	
Csg. Size 5 1/2"		Wt. 17#		Set At 4.892		Perforations: From 11,038 To 11,050	
Tbg. Size 2 7/8"		Wt. 6.50#		Set At 2.441		Perforations: From OPEN To ENDED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Produced G-G SINGLE				Packer Set At 10,990		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 186 @ 11,044		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10994		H 10994		Cg 0.6344		% CO ₂ 0.67	
				% N ₂ 0.51		% H ₂ S -0-	
				Prover ----		Meter Run 4"	
						Taps FLANGE	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i. A	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI				L-10 READINGS			2845.0		PKR.	
1.	4"	x	2.75"	6.85	3.25	72	2190.0	73		
2.	4"	x	2.75"	7.15	5.45	70	2174.0	78		
3.	4"	x	2.75"	7.40	6.65	72	1960.0	79		
4.	4"	x	2.75"	7.70	7.90	72	1549.0	80		
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	L-10 CORRECTION FACTOR	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	41.10	3.162	469.2	0.9887	1.256	1.042	3744
2	41.10	3.162	511.2	0.9905	1.256	1.047	6596
3	41.10	3.162	547.6	0.9887	1.256	1.049	8331
4	41.10	3.162	592.9	0.9887	1.256	1.054	10347
5							

NO.	P _r	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	0.70	532	1.45	0.921	34.018	54.8	0.6344	XXXXXX	670	368
2	0.76	530	1.44	0.913						
3	0.82	532	1.45	0.908						
4	0.88	532	1.45	0.901						
5										

NO.	P _c	P _w	P _r	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		2236.7	5003	3166	1.7982	1.7982
2		2294.5	5265	2904		
3		2157.7	4656	3513		
4		1904.2	3626	4543		
5						

Absolute Open Flow 18,606 Mcfd @ 15.025				Angle of Slope 45.0°		Slope, n 1.000	
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Remarks: 100" - 1000# METER RANGE			
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Approved By Commission:	Conducted By: D.A.T.	Calculated By: R.L.W.	Checked By: J.W.W.
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