NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
NOV 10 1981
O. C. D.
ARTESIA, OFFICE

C/SF C-122

Type Test: XX Initial ☐ Annual ☐ Special				Test Date: 11-5-81	
Company: Hillin Prod. Co.	Connection: None				Unit: None
Pool: Winchester Morrow	Formation: Atoka				
Completion Date: 12-5-80	Total Depth: 10,848	Plug Back TD: 10,848	Elevation: G. L. 3307		Farm or Lease Name: DWU Fed.
Csg. Size: 4.5 / Wt.: 11.6 / d: / Set At: 11,245		Perforations: From 10,755 To 10,761			Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 10,839		Perforations: From To			Unit: J / Sec.: 34 / Twp.: 19S / Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 10,617'			County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 176 @ 10,758	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2		State: New Mexico
L	H	Gg	% CO_2	% N_2	% H_2S	Prover: O.W.T.	Meter Run	Taps

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							58			
1.	2"	.5	36		61	36	61			48 Hr.
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1			36	.9990	.9918		263
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .611 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: P.S.I.A. P.S.I.A.
Critical Temperature: R R

P_c 5292.2 P_c^2 28007

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		10072	1014	26993
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0375$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0375$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 273$

Absolute Open Flow: 273 Mcfd @ 15.025 Angle of Slope θ: 45 Slope, n: 1.0

Remarks: PW Substituted for PT Measured with Amerada Instrument No. 33109 - 0-7000#
Element - Orifice Well Tester used to measure volume

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Richburg	Richburg	