Filer
Form C-122
Revised 9-1-65
C-122 File

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

RECEIVED
SEP 25 1980
O. C. D.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: 9-2-80	
Company: Hillin Prod. Co.	Connection: El Paso			
Pool: Winchester Wolfcamp	Formation: Wolfcamp			Unit:
Completion Date: 8-12-80	Total Depth: 11,211	Plug Back TD: 11,164	Elevation: 3298 GL	Farm or Lease Name: Dwu Hillin Production Div
Csg. Size: 5½ / Wt.: 17# & 20# / d: / Set At: 11,211		Perforations: From 8997 To 9046		Well No.: 4
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 11,028		Perforations: From To		Unit: O / Sec.: 34 / Twp.: 19S / Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 10,956		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 191 @ 8972	Mean Annual Temp. °F: 68	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
8972	8972	.57	.13	1.02	None		4.026	Flange

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							2503				
1.	4.026		1.50	542	4.0	82	2371	72			60 Min.
2.	4.026		1.50	549	6.25	77	2335	73			60 Min.
3.	4.026		1.50	549	7.84	80	2236	73			60 Min.
4.	4.026		1.50	549	23.04	76	1991	74			60 Min.
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	10.84	47.13	555.2	.9795	1.213	1.057	642
2.	10.84	59.28	562.2	.9840	1.213	1.058	811
3.	10.84	66.39	562.2	.9813	1.213	1.058	906
4.	10.84	113.81	562.2	.9850	1.213	1.058	1560
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.83	542	1.40	895
2.	.84	537	1.38	894
3.	.84	540	1.39	894
4.				
5.				

Gas Liquid Hydrocarbon Ratio: 9588 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 57 Deg.
Specific Gravity Separator Gas: .680 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 669 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 388 R ____ R

P_c 3654.2 P_c^2 13353

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3608.2	13019	334
2		3554.2	12632	721
3		3524.2	12420	933
4		3369.2	11352	2001
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.673$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.4594$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5397$

Absolute Open Flow: 5397 Mcfd @ 15.025 | Angle of Slope θ: 57 | Slope, n: .65

Remarks: PW Substituted for PT - Measured with Amerada Instrument No. 37209 0-7000 Element

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