N. M. O. C. COPY

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

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NOV - 8 1973
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10/30/73	
Company: Hanagan Petroleum Corporation			Connection: None		
Pool: Wildcat			Formation: Atoka		Unit:
Completion Date: 11/5/73	Total Depth: 11570		Plug Back TD: 11000	Elevation: 3736KB	Farm or Lease Name: Mary Federal
Csg. Size: 5 1/2 / Wt.: 17# 20# / d: 4.892 4.778 / Set At: 11570			Perforations: From 10556 To 10570		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5# / d: 2.441 / Set At: 10407			Perforations: From To		Unit: H / Sec.: 11 / Twp.: 23S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10407		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 179 @ 10300		Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2	State: New Mexico
L: 10563 / H: 10563 / Gg: 0.600	% CO_2	% N_2	% H_2S	Prover	Meter Run: X / Taps

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI						3467		Pkr.		
1.	4"	X 1"	600	5	90	3212	70			60 min.
2.	4"	X 1"	600	18	90	2910	70			60 min.
3.	4"	X 1"	600	33	90	2711	70			60 min.
4.	4"	X 1"	600	50	88	2442	70			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	4.753	55.4	613.2	0.9723	1.291	1.045	345.4
2.	4.753	105.1	613.2	0.9723	1.291	1.045	655.3
3.	4.753	142.3	613.2	0.9723	1.291	1.045	887.2
4.	4.753	175.1	613.2	0.9741	1.291	1.048	1096.8
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.	Used Simplified			
3.	Supercompressibility Tables			
4.				
5.				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/obl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. P.S.I.A.
Critical Temperature: 358 R R

P_f 4401.2 P_f^2 19371

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		4148.2	17208	2163
2		3892.2	15149	4222
3		3686.2	13588	5783
4		3501.2	12258	7113
5				

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

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

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Absolute Open Flow: 2900 Mcfd @ 15.025 Angle of Slope θ: 45° 50' Slope, n: 0.97104

Remarks: BHP measured with Amerada RPG-3 gauge.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	F. Tefteller	