NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
FEB 1 - 1973
O. C. C.
ARTESIA, OFFICE

A3 file
open
C-122

Type Test: ☐ Initial ✓ ☐ Annual ☒ Special				Test Date: 1-24-73	
Company: Hanagan Petroleum Corporation			Connection: Llano Inc.		Unit: Catclaw Draw
Pool: ~~Undesignated~~ Catclaw Draw			Formation: Morrow		
Completion Date: 4-1-71	Total Depth: 10905		Plug Back TD: 10855	Elevation: 3425 KB	Farm or Lease Name: Catclaw Draw Unit
Csg. Size: 4½ / Wt.: 11.60 / d: 4.000 / Set At: 10905			Perforations: From 10202 To 10570		Well No.: 1-Y
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 10109			Perforations: From Open To Ended		Unit: F / Sec.: 26 / Twp.: 21S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10109		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 181 @ 10386	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10386	10386	0.600					X	

	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					3313		Packer		
1.	4"X 1.375	800	2.5	66	3033	71			60 min.
2.	4" X 1.375	800	8.5	70	2791	71			60 min.
3.	4" X 1.375	800	19.5	76	2481	71			60 min.
4.	4" X 1.375	820	36	66	1993	71			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	9.071	45.1	813.2	.9943	1.291	1.067	560.3
2.	9.071	83.2	813.2	.9905	1.291	1.065	1027.8
3.	9.071	125.9	813.2	.9850	1.291	1.061	1540.8
4.	9.071	173.2	813.2	.9943	1.291	1.067	2151.9
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.	Simplified supercompressibility			
3.	tables	used.		
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.600 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 358 R _____ R

P_f 4193.2 P_f^2 17583

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		3864.2	14932	2651
2		3572.2	12761	4822
3		3193.2	10197	7386
4		2610.2	6813	10770
5				

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

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

Absolute Open Flow 3,600 Mcfd @ 15.025 | Angle of Slope θ 45° 24' | Slope, n 0.9860

Remarks: BHP measured with Amerada RPG-3 gauge.

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