

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

Form C-122
Revised 9-1-65

RECEIVED

DEC 21 1973

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 12-12-73		DEC 21 1973	
Company Hanagan Petroleum Corporation				Connection Llano		O. C. C. ARTESIA, OFFICE	
Pool Catclaw Draw Morrow Gas				Formation Morrow		Unit Catclaw Draw	
Completion Date 8-20-73		Total Depth 10880		Plug Back TD 10840		Elevation 3651 KB	
Casing Size 5 1/2		Wt. 17#		Set At 10880		Well No. 9	
Tubg. Size 2 7/8		Wt. 6.5#		Set At 10290		Unit Sec. Twp. Rge. F 35 21S 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10296		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 176 @ 10200		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10817		H 10817		Gg 0.600		Prover X	
Gg 0.600		% CO ₂		% N ₂		% H ₂ S	
Meter Run X		Taps		State New Mexico			
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.
SI							Pkr.
1.	4"	X	1 1/2"	770	14.3	65	3079
2.	4"	X	1 1/2"	790	30	56	2995
3.	4"	X	2 1/4"	815	20	60	2591
4.	4"	X	2 1/4"	870	46	60	1878
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	105.829	783.2	0.9952	1.291	1.065	1569.71
2	10.84	155.229	803.2	1.0040	1.291	1.074	2342.43
3	25.64	128.701	828.2	1.0000	1.291	1.075	4579.67
4	25.64	201.562	883.2	1.0000	1.291	1.078	7192.36
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	Used Simplified				Specific Gravity Separator Gas 0.600 X X X X X X X X
3	Supercompressibility Tables				Specific Gravity Flowing Fluid X X X X X
4					Critical Pressure 671 P.S.I.A. P.S.I.A.
5					Critical Temperature 358 R

P _f 4088.2	P _f 2 16713				
NO.	P _f	P _s	P _s 2	P _f 2 - P _s 2	
1		3950.2	15604	1109	
2		3851.2	14832	1881	
3		3415.2	11664	5049	
4		2594.2	6730	9983	
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 10,250 Mcfd @ 15.025 Angle of Slope θ 54° 50' Slope, n 0.7044

Remark: BHP measured with Amerada RPG-3 gauge.

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