

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

Form C-122
Revised 9-1-66

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 1-27-73		FEB 12 1973	
Company Hanagan Petroleum Corp.				Connection Hans Inc.		O. C. C. ARTESIA, OFFICE	
Pool Catclaw Draw				Formation Morrow		Unit Catclaw Draw	
Completion Date 12-7-72		Total Depth 10512		Plug Back TD 10451		Elevation 3303 KB	
Csg. Size 5 1/2		Wt. 17#		Set At 10512		Perforations: 10372 To 10377	
Tbg. Size 2 7/8		Wt. 6.5		Set At 9986		Perforations: 10380 To 10386	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9998		Well No. 7	
Producing Thru Tubing		Reservoir Temp. °F 173 @ 9900		Mean Annual Temp. °F 65		Baro. Press. - P _a 13.2	
L 10403		H 10403		G _g 0.585		% CO ₂ % N ₂ % H ₂ S Prover	
						Meter Run Taps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
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	
SI							2968				
1.	4"	X	2.25	800	5	66	2553	72			60 min.
2.	4"	X	2.25	800	14	64	2306	72			60 min.
3.	4"	X	2.25	800	23	64	2101	72			60 min.
4.	4"	X	2.25	800	39	64	1804	72			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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	25.64	57.0	813.2	.9943	1.307	1.061	2255.5
2	25.64	98.8	813.2	.9962	1.307	1.067	3800.7
3	25.64	136.8	813.2	.9962	1.307	1.067	4872.9
4	25.64	178.1	813.2	.9962	1.307	1.067	6344.1
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	None
2.	Simplified supercompressibility table used				Specific Gravity Separator Gas	0.585
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	675.7 P.S.I.A.
5.					Critical Temperature	353.4 °R

NO.	P _t ²	P _s ²	P _{s2} ²	P _{f2} ² - P _{s2} ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		3244.2	10525	3352		
2		2955.2	8733	5144		
3		2745.2	7536	6341		
4		2425.2	5882	7995		
5						

Absolute Open Flow	11,000 Mcfd @ 15.025	Angle of Slope	45°	Slope, n	1.0000
Remarks: BHP measured with Amerada RPG-3 gauge.					

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