

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 6-7-73		JUN 29 1973	
Company Hanagan Petroleum Corp.		Connection Southern Union Gas Company		O. C. C.	
Pool Catclaw Draw		Formation Morrow		ARTESIA, OFFICE	
Completion Date 5-23-72		Total Depth 10904		Plug Back TD 10844	
Elevation 3363 Gr.		Farm or Lease Name Nan-Bet		Well No. 1	
Csq. Size 5.5	Wi. 17	Set At 10904	Perforations: From 10648 To 10664	Unit Sec. Twp. Rge. E 19 21S 26E	
Thg. Size 2 7/8	Wi.	Set At 10466	Perforations: From To	County Eddy	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10466	
Producing Thru Tubing		Reservoir Temp. °F 184 @ 10400		Mean Annual Temp. °F 70	
Baro. Press. - P _g 13.2		State New Mexico		Prover Meter Run X	
L 10656	H 10656	Gg 0.609	% CO ₂ 0.0079	% N ₂ 0.0028	% H ₂ S

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							2722		Pkr.		
1.	6	X	2.750	560	2	81	2689	70			45 min.
2.	6	X	2.750	560	6	58	2663	70			45 min.
3.	6	X	2.750	570	15	45	2567	70			45 min.
4.	6	X	2.750	575	31.5	64	2446	70			45 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	36.99	33.86	2702.2	0.9804	1.281	1.042	1639.0
2	36.99	58.65	2676.2	1.0020	1.281	1.052	2929.4
3	36.99	93.53	2580.2	1.0150	1.281	1.056	4750.2
4	36.99	136.12	2459.2	0.9962	1.281	1.051	6753.1
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	Used Simplified				Specific Gravity Separator Gas	0.609	XXXXXXXXXX
3.	Compressibility Tables				Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	675.5	P.S.I.A.
5.					Critical Temperature	359.4	R

P _f 3519.2 P _{f2} 12385			
NO.	P _t ²	P _s	P _s ² P _f ² - P _s ²
1		3485.2	12147 2385
2		3467.2	12021 364
3		3400.2	11561 824
4		3327.2	11070 1315
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 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 42,500$

Absolute Open Flow 42,500 Mcfd @ 15.025

Angle of Slope ϕ 50° 50' Slope, n 0.81467

Remarks: BHP measured with Amerada RPG-3 gauge.

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