

**NE 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 7-26-72		AUG 10 1972	
Company Hanagan Petroleum Corporation				Connection Llano Incorporated		O. C. C. ARTESIA, OFFICE	
Pool Wildcat				Formation Strawn		Unit Catclaw Draw	
Completion Date 8-7-72		Total Depth 10,933		Plug Back TD 10,893		Elevation 3468 GL	
Farm or Lease Name Catclaw Draw Unit				Well No. 3			
Csg. Size 5 1/2	Wt. 17#	d 4.892	Set At 10,933	Perforations: From 9544 To 9560		Unit 3	
Thg. Size 2 3/8	Wt. 4.70#	d 1.995	Set At 10,409	Perforations: From To		Unit Sec. Twp. Rge. D 36 21S 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple (Strawn/Morrow)				Packer Set At 9453		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 164^o 9400		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2	
State New Mexico							
L 9552	H 9552	Gg 0.600	% CO ₂	% N ₂	% H ₂ S	Prover Pos. Ck	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	POS. CK			2769			2769				
1.	2"	x	8/64"	2607		73	2607	73			1 hr.
2.	2"	x	10/64"	2374		72	2374	72			1 hr.
3.	2"	x	13/64"	2011		70	2011	70			1 hr.
4.	2"	x	16/64"	1819		70	1819	70			1 hr.
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	0.2618		2620.2	0.9877	1.291	1.141	998.0
2	0.4173		2387.2	0.9887	1.291	1.143	1453.4
3	0.7208		2024.2	0.9905	1.291	1.144	2134.4
4	1.112		1832.2	0.9905	1.291	1.137	2962.2
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	3.90	533	1.49	0.768	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	3.56	532	1.49	0.765	Specific Gravity Separator Gas	0.600	XXXXXXXXXX
3.	3.02	530	1.48	0.764	Specific Gravity Flowing Fluid	XXXXXX	
4.	2.73	530	1.48	0.774	Critical Pressure	671	P.S.I.A.
5.					Critical Temperature	358	R

P _f 3868.2 P _f ² 14963			
NO.	P _f ²	P _s ²	P _f ² - P _s ²
1	3621.2	13113	1850
2	3398.2	11548	3415
3	3107.2	9655	5308
4	2655.2	7050	7913
5			

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

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

Absolute Open Flow **5200** Mcfd @ 15.025 Angle of Slope @ **490 33'** Slope, n **0.8526**

Remarks: **BHP measured with Amerada RPG-3 gauge.**

Approved By Commission	Conducted By: Tefteller, Inc.	Calculated By: F. Tefteller	Checked By: <i>Hugh C. Hanagan</i>
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