

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

Form C-122
Revised 9-1-65

OCT 29 1971

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-25-71		O.C.C. ARTESIA, OFFICE		
Company HANAGAN PETROLEUM CORPORATION					Connection NONE				
Pool <i>Catclaw Draw - morrow</i> UNDESIGNATED 42					Formation MORROW		Unit CATCLAW DRAW		
Completion Date 10/28/71		Total Depth 10500		Plug Back TD 10462		Elevation 3330KB		Farm or Lease Name CATCLAW DRAW UNIT	
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 10500	Perforations: From 10446 To 460	Well No. 2				
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 9990	Perforations: From 10396 To 412	Unit G		Sec. 23	Twp. 21S	Rge. 25E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At 9990-95		County EDDY		
Producing Thru TUBING		Reservoir Temp. °F 178 @ 9978'		Mean Annual Temp. °F 70		Baro. Press. - P _a 26.54" HG.		State NEW MEXICO	
L 10428	H 10428	Gg 0.585	% CO ₂ 0.73%	% N ₂ 0.22%	% 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	POSITIVE CHOKER			3502			3502		PKR.		
1.	2"		8/64"	3472		70	3472	70	"		60 Min.
2.	2"		10/64"	3457		72	3457	72	"		60 Min.
3.	2"		13/64"	3354		72	3354	72	"		60 Min.
4.	2"		16/64"	3239		72	3239	72	"		60 Min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	0.2618		3485	0.9905	1.307	1.100	1299
2	0.4173		3470	0.9887	1.307	1.101	2060
3	0.7208		3367	0.9887	1.307	1.107	3472
4	1.1120		3252	0.9887	1.307	1.111	5192
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>DRY GAS</u> Mcf/bbl.	
1	5.16	530	1.50	0.818	A.P.I. Gravity of Liquid Hydrocarbons <u>NONE</u> Deg.	
2	5.14	532	1.51	0.820	Specific Gravity Separator Gas <u>0.585</u> X X X X X X X X	
3	4.98	532	1.51	0.813	Specific Gravity Flowing Fluid <u>X X X X X</u>	
4	4.81	532	1.51	0.806	Critical Pressure <u>675.7</u> P.S.I.A. P.S.I.A.	
5					Critical Temperature <u>353.4</u> R R	

P_f 4410 P_f² 19448

NO.	P _t ²	P _s	P _s ²	P _f ² - P _s ²
1		4382	19202	246
2		4349	18914	534
3		4276	18284	1164
4		4187	17531	1917
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 <u>27,000</u> Mcfd @ 15.025		Angle of Slope @ <u>54° 35'</u>	Slope, n <u>0.711</u>
Remarks: <u>BHP measured with Amerada RPG-3 gauge</u>			
Approved By Commission:		Conducted By Teffeller, Inc.	Calculated By Farrest Teffeller
		Checked By:	