

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 8-17-73		AUG 24 1973	
Company Hanagan Petroleum Corporation				Connection Llano		U. S. GEOLOGICAL SURV. ARTESIA, NEW MEXICO	
Pool Catclaw Draw Morrow				Formation Morrow		Unit Catclaw Draw	
Completion Date 8/20/73		Total Depth 10880		Plug Back TD 10840		Elevation 3651 KB	
Csg. Size 5 1/2		Id 4.892		Set At 10880		Well No. 9	
Thg. Size 2 7/8		Id 4.778		Set At 10290		Unit Sec. Twp. Rge. F 35 21S 25E	
Type Well - Single - Broadhead - 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 65		State New Mexico	
L 10817		H 10817		Gg 0.600		Prover Pos. Ck	
CO ₂		N ₂		H ₂ S		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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	Positive Choke			3309			3309		Pkr.		
1.	2"	X	8/64"	3202			3202	72	"		30 min.
2.	2"	X	10/64"	3131			3131	72	"		30 min.
3.	2"	X	13/64"	2907			2907	72	"		30 min.
4.	2"	X	16/64"	2655			2655	72	"		75 min.
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		3215.2	.9887	1.291	1.118	1201.2
2	0.4173		3144.2	.9887	1.291	1.121	1877.4
3	0.7208		2920.2	.9887	1.291	1.129	3033.3
4	1.1120		2668.2	.9887	1.291	1.136	4303.2
5							

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

NO.	P _f	P _s	P _s ²	P _f ² - P _s 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	4229.2	4104.2	16844	1042	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$	
2		4024.2	16194	1692		
3		3771.2	14222	3664		
4		3497.2	12230	5656		
5						

Absolute Open Flow 10600 Mcfd @ 15.025		Angle of Slope θ 52° 8'	Slope, n 0.77761
Remarks: BHP measured with Amerada RPG-3 gauge.			
Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: F. Tefteller	Checked By: