

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

Copy to SF
Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-28-76		RECEIVED							
Company Hanagan Petroleum Corporation		Connection None									
Pool Horseshoe Bend Wildcat Well		Formation Morrow		MAR - 5 1976							
Completion Date 3/5/76		Total Depth 11356									
Coq. Size 5 1/2		WI. 20.0		Plug Back TD 11309 / 1302							
Thq. Size 2 7/8		WI. 6.5		Elevation 3692 KB							
Set At 11350		Perforations: From 10879 To 10883		Unit 1							
Set At 10761		Perforations: From To		Farm or Lease Name Horseshoe Bend							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10724-27							
Producing Thru Tubing		Reservoir Temp. °F 182 @ 10700		County Eddy							
Mean Annual Temp. °F		Baro. Press. - P _g		State New Mexico							
L 10881	H 10881	G _g 0.600	% CO ₂	% N ₂	% H ₂ S						
Prover Pos. Ck.			Meter Run Taps								
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI				2778							
1.	2	x	8/64	2251		68	2251	68			60 min.
2.	2	x	9/64	1741		72	1741	72			60 min.
3.	2	x	10/64	1432		70	1432	70			60 min.
4.	2	x	11/64	1179		75	1179	75			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	0.2618		2264.2	0.9924	1.291	1.152	874.9				
2	0.3346		1754.2	0.9887	1.291	1.129	845.8				
3	0.4173		1445.2	0.9905	1.291	1.115	859.9				
4	0.5090		1192.2	0.9859	1.291	1.095	845.7				
5											
NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Dry Gas _____ Mcf/bbl.						
1.	3.37	528	147	0.753	A.P.I. Gravity of Liquid Hydrocarbons _____ Dry Gas _____ Deg.						
2.	2.61	532	149	0.785	Specific Gravity Separator Gas _____ 0.600 _____ XXXXXXXXXX						
3.	2.15	530	148	0.804	Specific Gravity Flowing Fluid _____ XXXXXX						
4.	1.78	535	149	0.834	Critical Pressure _____ 671 _____ P.S.I.A. _____ P.S.I.A.						
5.					Critical Temperature _____ 358 _____ R _____ R						
P _f 3973.2 P _f ² 15786											
NO.	P _f ²	P _s	P _s ²	P _f ² - P _s ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2953$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2953$					
1	3439.2	11828	3958								
2	2920.2	8528	7258								
3	2448.2	5994	9792								
4	1897.2	3599	12187								
5											
Absolute Open Flow _____ 1095.4 _____ Mcfd @ 15.025				Angle of Slope θ _____ 450		Slope, n _____ 1.000					
Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 12468 0-6000 psi											
Approved By Commission:		Conducted By: Tefteller, Inc.		Calculated By: F. Tefteller		Checked By:					