

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

RECEIVED

MAY 17 1976

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-3-76		O. C. C. ARTESIA, OFFICE			
Company Hanagan Petroleum Corporation						Connection None					
Pool <i>Catclaw Draw-off comp.</i> Undesignated						Formation Wolfcamp		Unit			
Completion Date 5/12/76		Total Depth 10902		Plug Back TD 10589		Elevation 3572 KB		Farm or Lease Name North Fork			
Csg. Size 5 1/2		Wt. 17		Set At 10902		Perforations: From 8660 To 8701		Well No. 1			
Tbg. Size 2 7/8		Wt. 6.50		Set At 8540		Perforations: From To		Unit C		Sec. Twp. Rge. 2 22S 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 8542		County Eddy			
Producing Thru Tubing		Reservoir Temp. °F 152 @ 8500		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State New Mexico			
L 8681		H 8681		G _g 0.700		% CO ₂		% N ₂		% H ₂ S	
						Prover X		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.	
SI	114 hrs.						2356		Pkr	
1.	2"	X	5/16	60		84	2152	70	"	
2.	2"	X	5/16	110		83	2052	70	"	
3.	2"	X	5/16	260		76	1693	70	"	
4.	2"	X	5/16	383		65	1255	70	"	
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	1.672		73.2	0.9777	1.195	1.010	144.4
2	1.672		123.2	0.9786	1.195	1.013	244.0
3	1.672		273.2	0.9850	1.195	1.029	553.3
4	1.672		396.2	0.9952	1.195	1.048	825.6
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	Used simplified				7.423	
2	supercompressibility tables					
3						
4						
5						

P _f 3717.2 P _f ² 13818				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.54685$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.495644$	
NO.	P _t ²	P _s	P _s ²	P _f ² - P _s ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1234.8$		
1		3529.2	12455	1363			
2		3393.2	11514	2304			
3		2901.2	8417	5401			
4		2210.2	4885	8933			

Absolute Open Flow		1234.8	Mcf/d @ 15.025	Angle of Slope	47° 18'	Slope, n	0.92283
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Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 12468 N 0-6000 psi

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