NEW M[illegible]XICO OIL CONSERVATION COMMSSIOI

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 2/23/72	
Company: Amoco Production Company		Connection: None			
Pool: Undesignated		Formation: Cisco		Unit	
Completion Date: 2/21/72	Total Depth: 8221	Plug Back TD: 7761	Elevation: 4116 RDB	Farm or Lease Name: Swearingen "A" Gas COM	
Csg. Size: 5-1/2" / Wt.: 17-20 / d: - / Set At: 8074		Perforations: From 7705 To 7720		Well No.: 1	
Tbg. Size: 2-3/8" / Wt.: 4.7 / d: 1.995 / Set At: 7631		Perforations: From Open End To -		Unit: J / Sec.: 19 / Twp.: 5S / Rge.: 33E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 7572		County: Roosevelt	
Producing Thru: 2-3/8" tbg	Reservoir Temp. °F: 137 @ 7705	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
7631	7631	0.735	0.60	0.30	0.00	-	6"	Flange

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI	-	-	-	-	-	2012	78	Pkr	-	41.75 hrs
1.	6.065	x 2.000	685	24.0	92	1773	80	Pkr	-	1 hr
2.	6.065	x 2.000	720	47.0	85	1653	82	Pkr	-	1 hr
3.	6.065	x 2.000	720	63.0	83	1550	82	Pkr	-	1 hr
4.	6.065	x 2.000	745	75.5	80	1490	78	Pkr	-	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	19.16	129.5	698.2	0.9706	1.166	1.077	3,024
2.	19.16	185.6	733.2	0.9768	1.166	1.085	4,394
3.	19.16	214.9	733.2	0.9786	1.166	1.087	5,107
4.	19.16	239.2	758.2	0.9813	1.166	1.092	5,726
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	1.04	552	1.38	0.862
2.	1.08	545	1.36	0.849
3.	1.09	543	1.36	0.847
4.	1.13	540	1.35	0.839
5.				

Gas Liquid Hydrocarbon Ratio 25.9 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 70.5 Deg.
Specific Gravity Separator Gas .735 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 669.7 P.S.I.A. ____ P.S.I.A.
Critical Temperature 399.5 R ____ R

P_c 2,743.2* P_c^2 7,525

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2,645.4	6,998	527
2		2,512.5	6,313	1,212
3		2,475.2	6,127	1,398
4		2,441.3	5,960	1,565
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.613$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.582$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 25,820$

Absolute Open Flow 25,820 Mcfd @ 15.025 Angle of Slope θ ____ Slope, n 0.949

Remarks: * Pc Measured with bottom hole pressure Recorder.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	A. Klaar	A. Klaar	J. E. York