NEW .XICO OIL CONSERVATION COMMSSI

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 3-5-75	
Company: H. L. BROWN, JR.,		Connection: None			
Pool: Bluitt		Formation: Wolfcamp		Unit	
Completion Date: 7-18-75	Total Depth: 8147	Plug Back TD: 8061	Elevation: 4076	Farm or Lease Name: Federal "C"	
Csg. Size: 5½ / Wt.: 15½ & 17 / d / Set At: 8149		Perforations: From 7970 To 8009		Well No.: 1	
Tbg. Size: 2 / Wt.: 4.7 / d / Set At: 7908		Perforations: From Open To		Unit: C / Sec.: 4 / Twp.: 8-S / Rge.: 37-E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 7908		County: Roosevelt	
Producing Thru: Tubing	Reservoir Temp. °F: 148 @ 7950	Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2	State: N.M.	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.700					3.068	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	3.068	1.250	560	5	92	1950	75	Pkr.		60 min.
1.	"	"	565	23	70	1860	77	"		60 min.
2.	"	"	565	54	70	1600	76	"		60 min.
3.	"	"	580	90	70	1480	78	"		60 min.
4.										
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	7.577	53.5350	573.2	.9706	1.195	1.062	499
2.	7.577	151.3196	578.2	.9905	"	1.065	1103
3.	7.577	176.6997	578.2	.9905	"	1.066	1689
4.	7.577	231.0584	593.2	.9905	"	1.066	2209
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 27.4 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 70.0 Deg.
Specific Gravity Separator Gas .700 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure ____ P.S.I.A. ____ P.S.I.A.
Critical Temperature ____ R ____ R

P_c 2013.2 P_c^2 4053

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1963.2	3854	199
2		1873.2	3509	544
3		1771.2	3138	915
4		1493.2	2230	1823
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.4295$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.31865$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5605$

Absolute Open Flow 5605 Mcfd @ 15.025 Angle of Slope θ 51 Slope, n .806

Remarks: Total Gas Produced 183.7 MCF Total Liquid Hydrocarbon 6.7 bbls.

Approved By Commission:	Conducted By:	Calculated By:	Checked By: