

Submit in duplicate to appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

CONFIDENTIAL

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator CONCHO RES. Inc.					Lease or Unit Name ANDERSON RANCH "33" 7				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6/12/01		Well No. 1		
Completion Date		Total Depth 12410		Plug Back TD 12404		Elevation		Unit Ltr - Sec - TWP - Rge	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12410	Perforations: From: 12244 To: 12262			County LEA		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 12142	Perforations: From: To:			Pool		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 12151			Formation MORROW		
Producing Thru TUBING		Reservoir Temp. °F 195.5		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2		Connection SALES	
L 12151	H 12151	Gg 0.742	%CO ₂ 0.429	%N ₂ 1.514	%H ₂ S N/A	Prover N/A	Meter Run 4.026	Taps FLG	
FLOW DATA					TUBING DATA			CASING DATA	
No.	Prover Line Size	Orifice x 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
SI						2700	N/A	PKR	N/A
1	4.026 X 1.875		42	12.4	98	590			1 HR.
2	4.026 X 1.875		44	17.6	91	320			1 HR.
3	4.026 X 1.875		44	26	91	165			1 HR.
4	4.026 X 1.875		44	33.5	87	80			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 F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd	
1								478	
2	GAS		VOLUMES	FROM	TOTAL	FLOW	METER	610	
3								738	
4								857	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 37.264 Mcf bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons 52.7 Deg.				
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas .742 / G.MIX=.820 XXXXXXXX				
3					Specific Gravity Flowing Fluid N/A XXXXXX				
4					Critical Pressure 669 P.S.I.A. 667 P.S.I.A.				
5					Critical Temperature 400 R. 426 R				
P _c 2713.2		P _{c2} 7361.4							
No.	P _t ²	P _w	P _w ²	P _c ² -P _w ²	(1) $P_c^2 = \frac{1.003}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.003$				
1	363.9	606.1	367.3	6994.1	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 860$				
2	111	342.4	117.2	7244.2					
3	31.8	203.2	41.3	7320.2					
4	8.7	147.6	21.8	7339.7					
5									
Absolute Open Flow 860		Mcf @ 15.025		Angle of Slope (°): 45		Slope n: 1			
Remarks: * WELL MADE 3 BBLs OF 52.7 API GRAVITY CONDENSATE DURING TEST.									
Approved By: Paul Butz Geologist				Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

6/11/01