

CONFIDENTIAL

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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

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator CONCHO RES. INC.					Lease or Unit Name SOUTHERN CROSS "22" ST.				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6/19/00		Well No. 1		
Completion Date 5/18/00		Total Depth 8700		Plug Back TD 8654		Elevation 3732		Unit Ltr - Sec - TWP - Rge H 22 18-S 24-E	
Csg. Size 5 1/2	Wt. 17#	d 4.892	Set At 8700	Perforations: From: 8474 To: 8494			County EDDY		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 8424	Perforations: From: To:			Pool <i>N Antelope Sink Morrow</i>		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 8401		Formation MORROW			
Producing Thru Tbg. Size		Reservoir Temp. °F 158.2	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2			Connection SALES		
L 8424	H 8424	Gg 0.622	%CO ₂ 0.54	%N ₂ 0.348	%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 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						2475	N/A	PKR	N/A
1	4.026 X 2.875		336	1	84	1806			1 HR.
2	4.026 X 2.875		351	3	82	1790			1 HR.
3	4.026 X 2.875		399	9	80	1730			1 HR.
4	4.026 X 2.875		495	30	79	1660			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								972	
2	GAS VOLUMES		MEASURED	BY	TOTAL	FLOW	METER	1704	
3								3479	
4								7233	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 278.917 Mcf bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons 56.4 Deg.				
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas 0.622 XXXXXXXX				
3					Specific Gravity Flowing Fluid N/A XXXXXX				
4					Critical Pressure 674 P.S.I.A. 673 P.S.I.A.				
5					Critical Temperature 361 R. 364 R				
P _c 2488.2 P _{c2} 6191.1									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.103$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.103$				
1	3309.5	1821.4	3317.5	2873.6					
2	3251.5	1810	3276.3	2914.8					
3	3038.7	1772.6	3142.3	3048.9					
4	2799.6	1802	3247.3	2943.8	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 15.212$				
5									
Absolute Open Flow 15.212 Mcfd @ 15.025					Angle of Slope (°): 45		Slope n: 1		
Remarks: *WELL MADE 2 BBLs OF 56.4 API GRAVITY CONDENSATE DURING TEST.									
Approved By Division:			Conducted By: PRO WELL TESTING		Calculated By: MB		Checked By: BM		