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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.					Lease or Unit Name SOUTHERN CROSS "20" <i>St. Com.</i>				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1/11/01		Well No. 1		
Completion Date 12/18/00		Total Depth 8700		Plug Back TD 7730'		Elevation 3808		Unit Ltr - Sec - TWP - Rge 20 18S 24E	
Csg. Size 4 1/2	Wt. 10.5	d 4.052	Set At 8700	Perforations: From: 7528 To: 7533		County EDDY			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 7493	Perforations: From: To:		Pool Antelope Sink Strawn			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 7428		Formation Strawn			
Producing Thru TUBING		Reservoir Temp. °F 148.9		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2		Connection SALES	
L 7493	H 7493	Gg 0.608	%CO ₂ 0.247	%N ₂ 1.75	%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						1800	N/A	PKR	N/A
1	4.026 X 1.250		309	14.5	80	575			1 HR
2	4.026 X 1.250		314	21.1	77	315			1 HR
3	4.026 X 1.250		322	20.8	70	310			1 HR
4	4.026 X 1.250		324	18.5	64	320			1 HR
5									
RATE OF FLOW CALCULATIONS									
No.	COEFFICIENT (24 Hour)		√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									654
2			VOLUMES	FROM	TOTAL	FLOW	METER		801
3									814
4									789
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		N/A Mcf bbl.		
1					A.P. I. Gravity of Liquid Hydrocarbons		N/A Deg.		
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas		0.608 XXXXXXXX		
3					Specific Gravity Flowing Fluid		XXXXXX		
4					Critical Pressure		673 P.S.I.A.		P.S.I.A.
5					Critical Temperature		353 R.		R
P _c 1813.2		P _{c2} 3287.7							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.04}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.04$				
1		597.2	356.7	2931	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 821$				
2		352.7	124.4	3163.3					
3		348.7	121.6	3166.1					
4		356.6	127.2	3160.5					
5									
Absolute Open Flow		821		Mcf @ 15.025		Angle of Slope (°):		45	Slope n: 1
Remarks: *NO LIQUID MADE DURING TEST.									
Approved By: Division: PRO WELL TESTING				Conducted By: MERV BUECKER			Checked By: BM		