

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

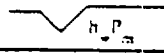
State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Concho Res.					Lease or Unit Name Shoebar 15 st com					
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-19-99		Well No. 1			
Completion Date 12-18-98		Total Depth 12630		Blowback TD 12596		Elevation		Unit Loc. - Sec. - Twp. - Rge. G 15 17-S 35-E		
Csg. Size 5 1/2		Wt. 17#		d 4.767		Set At 12630		Perforations: From: 12532 To: 12556		
Log. Size 2 7/8		Wt. 6.5		d 2.347		Set At 12596		Perforations: From: To:		
Type Well - Single - Bradenhead - G.O. or G. Multiple Single					Packer Set At 12455		Formation South Shoebaratoka			
Producing Thru TRG		Reservoir Temp. °F 200°		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		Connection Sales		
L 12596		H 12596		Gg .736		% CO ₂ .642		% N ₂ .657		
						% H ₂ S 0		Prover N/A		
								Meter Run 4.029		
								Taps F/G		
FLOW DATA					TUBING DATA			CASING DATA		Duration of Flow
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.	
Si							1628		PKR	
1.	4.029 X 1.875			35	1	52	922	46°		
2.										24 hrs
3.										
4.										
5.										
RATE OF FLOW CALCULATIONS										
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mscf			
1.										
2.										
3.										
4.										156
5.										
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 9.873					
1.	.76	512	1.35	.889	A.P. I. Gravity of Liquid Hydrocarbons 51.8					
2.					Specific Gravity Separator Gas .736					
3.					Specific Gravity Flowing Fluid 50.8@50° XXXXX					
4.					Critical Pressure 673 P.S.I.A.					
5.					Critical Temperature 397 R					
P _c 1641.2 P _c ² 2693.5										
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.481$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.481$					
1.	874.6	935.4	875.0	1818.5	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .231$					
2.										
3.										
4.										
5.										
Absolute Open Flow .231					Mscf @ 15.025		Angle of Slope θ 45°		Slope, n 1.000	
Remarks *Well made 15.8 BBLS of 51.8 API gravity condensate										
Approved By Division					Conducted By: Pro Well Testing			Calculated By: M.B.		Checked By: B.M.

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