

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

C/SF
2-122

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-16-82		RECEIVED	
Company CITIES SERVICE COMPANY /		Connection ATMOSPHERE		MAR - 9 1982	
Pool <i>Wildcat</i>		STRAWN		O. C. D. ARTESIA, OFFICE	
Completion Date 2-16-82		Test Well 8065 8320		Elevation 7575	
Casing Size 5 1/2"		Well No. 2		Well Name Little Box Canyon	
Tubing Size 2 7/8"		Perforations From 7397 To 7409		Unit 0	
Type Well - Single - Dradenehead - G.C. or G.O. Multiple SINGLE		Packer Set At 7295		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 147° 7305		Mean Annual Temp. °F 60°	
Baro. Press. - P _a 13.2		State New Mexico			
L 7305	H 7305	G ₁ .687	% CO ₂ .877	% N ₂ 12.902	% H ₂ S Prover
Meter Run 4		flange			

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.	Temp. °F	of Flow
SI							1371	62°	PKR	CHOKE	24 HRS.
1.	4	X	.750	500	2	84°	970	64		6/64	1 HR.
2.	4	X	.750	500	3	83	680	66		7/64	1 HR.
3.	4	X	.250	500	14	80	508	66		10/64	1 HR.
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	2.661	32.04	513.2	.9777	1.206	1.037	104
2	2.661	39.24	513.2	.9786	1.206	1.037	128
3	.2984	84.76	513.2	.9813	1.206	1.038	31
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY	Mcf/bbl.
1	.79	544	1.55	.930	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	.79	543	1.55	.930	Specific Gravity Separator Gas	.687	X X X X X X X X
3.	.79	540	1.54	.928	Specific Gravity Flowing Fluid	X X X X X	
4.					Critical Pressure	652	P.S.I.A.
5.					Critical Temperature	351	R

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1		983.4	967.0	949.0
2		693.5	481.0	1435.0
3		521.2	271.7	1644.3
4				
5				

$$(1) \frac{P_t^2}{P_t^2 - P_w^2} = 1.335$$

$$(2) \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.156$$

$$\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = .148$$

Absolute Open Flow	148	Mcf @ 15.025	Angle of Slope θ	63.5°	Slope, n	.500 Limi
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Remarks: Point alignment too steep, a slope of 63.5 was drawn through lowest rate in corresponding.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	W.S.	M.K.	M.K.