

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

Form C-122
Revised 9-1-65

RECEIVED

MAR 12 1982

O. C. D.
ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-25-82		RECEIVED	
Company CITIES SERVICE CO. /				Connection ATMOSPHERE					
Pool WILDCAT Canyon				Test Area WILDCAT Canyon				Unit O. C. D.	
Completion Date 1-24-82		Total Length 10,449		Perforations 8380		Elevation 4058		Farm or Lease Name Federal Q	
Csg. Size 5 1/2	Wt. 17#	d 4.892	Set At 10,000	Perforations From 8123 To 8205		Well No. 1			
Tbg. Size 2 7/8"	Wt. 6.5#	d 2.441	Set At 8,073	Perforations From OPENENDED		Unit C 23		Twp. Rge. 23S 23E	
Type Well - Single - Bradenhead - G.S. or G.O. Multiple SINGLE						Packer Set At 8066		County Eddy	
Producing Thru TUBING		Reservoir Temp. °F 165°		Mean Annual Temp. °F 60°		Baro. Press. - P _a 8066		State New Mexico	
L 8073	H 8073	G _g .7027	% CO ₂ .921	% N ₂ 4.373	% H ₂ S -0-	Prover	Meter Run 4,026	Taps 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
SI							2347		PKR.	CHOKE	24 HRS.
1.	4	x	.750	500	11"	70°	2250	58°		1/64	1 HR.
2.	4	x	.750	500	15"	70	2127	61°		4/64	1 HR.
3.	4	x	.750	500	27"	70	1887	63°		6/64	1 HR.
4.	4	x	.750	500	48"	70	1602	64°		7/64	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	2.661	75.13	513.2	.9905	1.193	1.052	249
2	2.661	87.74	513.2	.9905	1.193	1.052	290
3	2.661	117.71	513.2	.9905	1.193	1.052	389
4	2.661	156.95	513.2	.9905	1.193	1.052	519
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio TSTM	Mcf/bbl.
1.	.771	530	1.40	.903	A.P.I. Gravity of Liquid Hydrocarbons	Req.
2.	.771	530	1.40	.903	Specific Gravity Separator Gas .7027	XXXXXX
3.	.771	530	1.40	.903	Specific Gravity Flowing Fluid XXXXX	
4.	.771	530	1.40	.903	Critical Pressure 666 P.S.I.A.	P.S.I.A.
5.					Critical Temperature 379 R	R

P _c 2360.2 P _c ² 5570.5		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.883$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3904$	
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		2263.3	5122.6	447.9	
2		2140.4	4581.2	989.3	
3		1900.6	3612.2	1958.3	
4		1616.0	2611.5	2959.0	
5					

Absolute Open Flow 722 Mcfd @ 15.025		Angle of Slope 62.5		Slope, n .521	
Remarks: Fluid too small to measure.					
Approved By Commission:		Conducted By: W.S.		Calculated By: M.K.	
				Checked By: M.K.	

Pasted To Comp Book 1-2-82