

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

Copy 051-
Form C-122
Revised 9-1-65
C-122

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-30-74		NOV 15 1974	
Company CITIES SERVICE OIL COMPANY						Connection TO AIR		O. C. C.	
Pool BURTON FLATS						Formation MORROW		Unit ARTESIA, OFFICE	
Completion Date 10-30-74		Total Depth 11,533'		Plug Back TD 11,487'		Elevation 3227 GR.		Farm or Lease Name GOVERNMENT "AA"	
Csg. Size 5 1/2"	Wt. 17 & 20	d	Set At 11,533'	Perforations: From 11,222' To 11,229'		Well No. 1			
Thg. Size 2 7/8"	Wt. 6.4#	d	Set At 11,132'	Perforations: From To		Unit C	Sec. 23	Twp. 20S	Rge. 28E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. O. MULTIPLE						Packer Set At 11,090		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 189 @ 11,235'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 11132	H 11132	G _g 0.5846	% CO ₂ 0.84	% N ₂ 0.41	% H ₂ S -0-	Prover	Meter Run 6"	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							3074.0			CHOKE	
1.	6"	x	1.50"	600.0	9.0	74	2602.0	67		8/64"	1 HOUR
2.	6"	x	1.50"	600.0	17.0	80	2260.0	67		10/64"	1 HOUR
3.	6"	x	1.50"	600.0	28.5	90	1762.0	67		13/64"	1 HOUR
4.	6"	x	1.50"	600.0	35.0	90	1239.0	67		17/64"	1 HOUR
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	10.70	74.29	613.2	.9868	1.308	1.045	1072
2	10.70	102.10	613.2	.9813	1.308	1.044	1464
3	10.70	132.20	613.2	.9723	1.308	1.040	1871
4	10.70	146.50	613.2	.9723	1.308	1.040	2073
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	No FLUID	Mcf/bbl.
1.	0.91	534	1.53	.916	A.P.I. Gravity of Liquid Hydrocarbons	---	Deg.
2.	0.91	540	1.54	.918	Specific Gravity Separator Gas	0.5846	X X X X X X X X
3.	0.91	550	1.57	.924	Specific Gravity Flowing Fluid	X X X X X	
4.	0.91	550	1.57	.924	Critical Pressure	672	P.S.I.A. P.S.I.A.
5.					Critical Temperature	350	R R

NO.	P _r ²	P _g ²	P _s ²	P _r ² - P _s ²	(1) $\frac{P_r^2}{P_r^2 - P_g^2} = 1.5161$	(2) $\left[\frac{P_r^2}{P_r^2 - P_g^2} \right]^n = 1.3068$
1	6839	3306.2	10931	4288		
2	5167	2898.2	8400	6819		
3	3151	2276.2	5181	10038		
4	1568	1601.2	2564	12655		
5						

Absolute Open Flow				2445	Mcf/d @ 15.025	Angle of Slope @	57.3	Slope, n	0.643
Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA GAGE @ 11,235 FEET									
Approved By Commission:			Conducted By:			Calculated By:		Checked By:	
			G. PARKER			R. WEST		J. WEST	