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MEXICO OIL CONSERVATION COM ON

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

JUN 14 1972

Type Test ARTESIA, OFFICE ☒ Initial ☐ Annual ☐ Special		Test Date 6-6-72	
Company CITIES SERVICE OIL COMPANY		Connection None	
Pool South Caverns		Formation Morrow	
Completion Date 6-6-72		Total Depth 7068	Plug Back TD 7061
Elevation		Farm or Lease Name Government M	
Csg. Size 4"	Wt. 9.5	d 3.548	Set At 7066
Perforations: From 6916 To 6981		Well No. 3	
Tbg. Size 2 7/8"	Wt. 6.4	d 2.441	Set At 6363
Perforations: From To		Unit G Sec. 27 Twp. 25S Rge. 24E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 6363	County Eddy
Producing Thru Tbg.	Reservoir Temp. °F 125 @ 6916	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
State New Mexico		Prover 4 Meter Run 4 Taps Pipe	
L	H	Gg .570	% CO ₂ .47
		% N ₂ .38	H ₂ S .04 grains orifice

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							2520	88		
1.	4	x	1.500	550	3.5	97	1895	81		
2.	4	x	1.500	560	13.0	93	1182	78		
3.	4	x	1.500	565	19.0	88	601	77		
4.	4	x	1.500	565	19.5	88	542	77		
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.82	44.40	563.2	.9662	1.325	1.033	694
2	11.82	86.32	573.2	.9697	1.325	1.034	1356
3	11.82	104.81	578.2	.9741	1.325	1.037	1658
4	11.82	106.18	578.2	.9741	1.325	1.037	1680
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.
1.	.84	557	1.61	.937	A.P.I. Gravity of Liquid Hydrocarbons -- Deg.
2.	.85	553	1.60	.935	Specific Gravity Separator Gas .570 X X X X X X X X
3.	.86	548	1.58	.930	Specific Gravity Flowing Fluid X X X X X
4.	.86	548	1.58	.930	Critical Pressure 672 P.S.I.A. P.S.I.A.
5.					Critical Temperature 346 R R

P _c 2533.2	P _c ² 6417.1	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.054$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.054$
NO.	P _r ²	P _w	P _w ²
1			3644.7
2			1441.7
3			398.3
4			330.3
5			

Absolute Open Flow 1.771 Mcfd @ 15.025		Angle of Slope 45	Slope, n 1.000
Remarks: No fluid made during any of rates			
Approved By Commission:	Conducted By: Brad Bennett	Calculated By: J. C. Roberts	Checked By: J. B. Murray