

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

Form C-122
Revised 9-1-55

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-4-78			
Company CITIES SERVICE OIL CO.				Connection TO AIR			
Pool				Perforation GLORIETA		Unit L	
Completion Date 10-4-78		Total Depth		Ring Back TD 5539'		Elevation	
Csg. Size 5 1/2"		Wt. d		Set At 7170'		Perforations: From 5152' To 5487'	
Tbg. Size 2 3/8"		Wt. 4.7		Set At 5057'		Perforations: From OPEN To END	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 4995.5		Well No. 2	
Producing Thru TUBING		Reservoir Temp. °F 125 ^{avg} 5057'		Mean Annual Temp. °F		Baro. Press. - P _a 13.2	
L .5057'		H 5057'		Gg .680		% CO ₂ 0	
				% N ₂ 2.31		% H ₂ S	
				Prover 2"		Meter Run Taps	
						County LEA	
						State NEW MEXICO	

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							289				72 HRS
1.	2	x	1/2	25		72	257				45 MIN
2.	2	x	1/2	41		75	232				45 MIN
3.	2	x	3/4	20		74	184				60 MIN
4.	2	x	3/4	21		74	89				60 MIN
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	4.279		38.2	.9887	1.213	NIL	196
2	4.279		54.2	.9859	1.213	NIL	277
3	9.453		33.2	.9868	1.213	NIL	376
4	9.453		34.2	.9868	1.213	NIL	387
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.06	532	1.38	NIL	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.08	535	1.39	NIL	Specific Gravity Separator Gas .680 X X X X X X X X
3.	.05	534	1.39	NIL	Specific Gravity Flowing Fluid X X X X X
4.	.05	534	1.39	NIL	Critical Pressure 669 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 385 R _____ R

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.844$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.455$
1		271.7	73.8	17.5		
2		248.4	61.7	29.6		
3		204.5	41.8	49.5		
4		116.6	13.6	77.7		
5						

Absolute Open Flow 547 Mcfd @ 15.025				Angle of Slope @ 58.5		Slope, n .613	
Remarks: NO FLUID MADE DURING TEST							

Approved By Commission: <i>John W. Runyan</i>	Conducted By: JOHN WEST ENG. CO.	Calculated By:	Checked By: M.C.T.
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OCT 19 1976

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