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C-122

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

Form C-122
Revised 9-1-66

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Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-11-74		JUN 25 1974	
Company SOUTHERN UNION PRODUCTION Co.			Connection To AIR		Unit ARTESIA OFFICE
Pool WILDCAT			Formation CISCO		
Completion Date 5-11-74		Total Depth 7970		Elevation 3859 GR.	
Csg. Size 4 1/2"		Wt. 11.5		Set At 7922'	
Thg. Size 2 3/8"		Wt. 4.7		Set At 7679'	
Perforations: From 7834 To 7856				Well No. 2	
Perforations: From OPEN To ENDED				Unit Sec. Twp. R. K 12 22S 24E	
Type Well - Single - Brdhead - G.G. or G.O. Multiple SINGLE				Packer Set At 7657	
Producing Thru TUBING				State NEW MEXICO	
Reservoir Temp. °F 149 @ 7587		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 7679	H 7679	G _g 0.5075	% CO ₂ 0.45	% N ₂ 0.93	% H ₂ S -0-
Prover ---		Meter Run 3"		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.	
SI							2115.0		PACKER	CHCCE
1.	3"	x	1.75"	660.0	37.0	140	1947.0	82		22/64"
2.	3"	x	1.75"	660.0	75.0	145	1755.0	80		27/64"
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	CALCULATED Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	15.61	157.83	673.2	.9309	1.404	1.021	3288
2	15.61	224.70	673.2	.9271	1.404	1.020	4657
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	509295	Mcfd
1.	1.00	600	1.89	.960	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	1.00	605	1.91	.962	Specific Gravity Separator Gas	XXXXXX	
3.					Specific Gravity Flowing Fluid	XXXXX	
4.					Critical Pressure	672	P.S.I.
5.					Critical Temperature	317	°R

$P_c = 2128.2$ $P_c^2 = 4529.2$				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 5.0168$		$(2) \frac{P_c^2}{P_c^2 - P_w^2} = 10.430$	
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²			
1	3842.4	2018.9	4076.0	453.2			
2	3162.0	1904.3	3626.4	902.8			
3							
4							
5							

Absolute Open Flow		10.430	Mcfd @ 15.025	Angle of Slope	63.5°	Slope, n	0.5
Remarks:							
Approved by Commission:		Conducted By: D. TYSON		Calculated By: R. WEST		Checked By: [Signature]	

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B.S. GEOLOGICAL
ARTESIA, NEW 2398