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State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

2720293037 Form C-122
Revised 4-1-1991
OCT 1998
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OCD - ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator OXY USA INC				Lease or Unit Name ZEPHYR STATE			
Test Type ☒ Initial ☐ Annual ☐ Special				Test Date 17-OCT-1998		Well No. 1	
Completion Date 8-26-98		Total Depth 10657		Plug Back TD 10656		Elevation	
Csg. Size Wt.		d		Set At		Perforation: From 10650 To 10656	
Tbg. Size Wt.		d		Set At		Perforation: From To	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE						Packer Set At 10568	
Producing Thru TUBING		Reservoir Temp.F 186		Mean Annual Temp.F		Baro. Pressure 14.40	
L 10653		H 10653		Gg .614		% CO ₂ .71	
				% N ₂ .68		% H ₂ S	
				Prover		Meter Run 4.026	
						Taps FLANGE	

FLOW DATA					TUBING DATA		CASING DATA		SIP/FLOW DURATION (HRS.)
NO.	(PROVER) LINE SIZE x ORIFICE SIZE	PRESS. PSIG	DIFF. h _w	TEMP. F	PRESS. PSIG	TEMP. F	PRESS. PSIG	TEMP. F	
SHUT-IN PRESSURE									
1.	4.03 x 1.50	182.00	13.14	79	3915	185	3474	62	23
2.	4.03 x 1.50	188.80	19.23	94	3348	185	2675	62	1
3.	4.03 x 1.50	195.30	32.70	87	2630	186	2095	62	1
4.	4.03 x 1.50	199.00	51.01	88	1876	187	1550	62	1
					1026	187	911	62	1

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	h _w P _m	PRESSURE P _r	FLOW TEMP. FACTOR F _t	GRAVITY FACTOR F _g	SUPER COMPRESS. FACTOR F _{py}	RATE OF FLOW (Q) MCFD
1.	11.120	50.801	196.4	.9822	1.2762	1.0145	718.4
2.	11.120	62.510	203.2	.9688	1.2762	1.0137	871.2
3.	11.120	82.808	209.7	.9750	1.2762	1.0148	1162.7
4.	11.120	104.334	213.4	.9741	1.2762	1.0149	1463.8

NO.	P _r	TEMP.	T _r	Z
1.	.292	539	1.505	.9716
2.	.302	554	1.547	.9732
3.	.311	547	1.527	.9711
4.	.317	548	1.530	.9708

Gas-Liquid Hydrocarbon Ratio	Mcf/bbl
API Gravity of Liquid Hydrocarbons	Deg.
Specific Gravity Separator Gas	.614
Specific Gravity Flowing Fluid	.614
Critical Pressure	673 PSIA
Critical Temperature	358 R

P _c =	3488.4	P _c ² =	12168.9
NO.	P _w	P _w ²	P _c ² - P _w ²
1.	2689.4	7232	4936.063
2.	2109.4	4449	7719.366
3.	1564.4	2447	9721.587
4.	925.4	856	11312.570

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.076}{1.068}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.068$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1563$$

Absolute Open Flow	1563	Mcf/d @ 15.025	Angle of Slope -	47.8	Slope, n	.907
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Approved By Division:	Conducted By: CHARLIE TAYLOR	Calculated By: BPT System/SCHLUMBERGER	Checked By: D.SYKES-BOOKHAMMER
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