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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-1991

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator OXY USA INC					Lease or Unit Name WALLACE				
Test Type ☒ Initial ☐ Annual ☐ Special					Test Date 24-JUN-1999		Well No. 3		
Completion Date		Total Depth		Plug Back TD		Elevation		Unit Ltr - Sec - TWP - Rge.	
Csg. Size 5.500	Wt. d	Set At	Perforation: From 8824 To 8895			County EDDY			
Tbg. Size 2.875	Wt. 6.500	d 2.441	Set At 8782	Perforation: From To			Pool N/A		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE					Packer Set At 8782		Formation MORROW		
Producing Thru TUBING		Reservoir Temp.F 157		Mean Annual Temp.F 60		Baro. Pressure 13.20		Connection	
L 8860	H 8860	Gg .645	X CO ₂ .51	X N ₂ .46	X H ₂ S	Prover		Meter Run 3.826	Tape 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					1975	80	2426	157	
1.	3.83 x 2.63	539.40	66.20	75	1050	80	2389	156	1
2.	3.83 x 2.63	544.00	47.90	73	1300	80	2395	157	1
3.	3.83 x 2.63	521.00	25.40	74	1650	80	2406	157	1
4.	3.83 x 2.63	475.00	6.93	82	1900	80	2418	157	1

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_v P_m}$	PRESSURE P _m	FLOW TEMP. FACTOR F _t	GRAVITY FACTOR F _g	SUPER COMPRESS. FACTOR F _{sp}	RATE OF FLOW (Q) MCFD
1.	37.540	191.265	552.6	.9855	1.2451	1.0482	9235.2
2.	37.540	163.370	557.2	.9871	1.2451	1.0492	7908.5
3.	37.540	116.485	534.2	.9863	1.2451	1.0467	5621.0
4.	37.540	58.166	488.2	.9788	1.2451	1.0402	2768.0

NO.	P _r	TEMP.	T _r	Z
1.	.823	535	1.452	.9102
2.	.830	533	1.447	.9084
3.	.796	534	1.450	.9127
4.	.727	542	1.472	.9242

Gas-Liquid Hydrocarbon Ratio		Mcf/bbl
API Gravity of Liquid Hydrocarbons		Deg.
Specific Gravity Separator Gas	.645	
Specific Gravity Flowing Fluid		.645
Critical Pressure	671 PSIA	671 PSIA
Critical Temperature	368 R	368 R

P _C =	2439.2	P _C ² =	5949.7
NO.	P _r	P _r ²	P _C ² - P _r ²
1.	2402.2	5770	179.132
2.	2408.2	5799	150.270
3.	2419.2	5852	97.168
4.	2431.2	5910	38.963

$$(1) \frac{P_C^2}{P_C^2 - P_W^2} = \frac{AOP}{Q} \quad (2) \left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n = \frac{AOP}{Q}$$

$$AOP = Q \left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n$$

Absolute Open Flow		Mcf/d @ 15.025	Angle of Slope -	Slope, n
Remarks **MEASURED BOTTOMHOLE PRESSURE				
COMPLETION HAS DUAL FLOWLINES AND DUAL METER RUNS				
THIS PAGE REPORTS THE DATA FROM FLOWLINE #2				
Approved By Division:	Conducted By: CHRIS BROWN	Calculated By: BPT System/SCHLUMBERGER	Checked By: DJS	