

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3/2/99		30-015-30527	
Company OXY USA, INC.				Connection 1-22-99			
Pool NE Red Lake Morrow				Formation Morrow		Unit G	
Completion Date 1-22-98		Total Depth 10376		Plug Back TD 10,325		Elevation	
Farm or Lease Name PIB Federal				Well No. 1			
Chp. Size 4.5	Wt. 11.6	d 4.000	Set At	Perforations: From 10,205 To 10,238		Unit Sec. Twp. Rge. G 21 17 28	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At	Perforations: From To			
Type Well - Single - Bradenhead - G.O. or C.O. Multiple Single				Packer Set At 10,160		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 150# 10,170		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10,170	H 10,170	G _g 0.680	% CO ₂ 0.45	% N ₂ 0.54	% H ₂ S 0.0	Prover 4.026	Meter Run 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.	Temp. °F	
SI	4.026 X	2.750					1941	60			93
1.	4.026 X	2.750		220.6	10.9	60	1472	60			1
2.	4.026 X	2.750		204.3	8.3	60	1537	60			1
3.	4.026 X	2.750		194.1	7.5	60	1566	60			1
4.	4.026 X	2.750		175.4	5.6	60	1625	60			1
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	41.1	50.48	233.8	1.000	1.2127	0.9491	2388.0
2	41.1	42.49	217.5	1.000	1.2127	0.9521	2016.2
3	41.1	39.43	207.3	1.000	1.2127	0.9551	1877.0
4	41.1	32.50	188.6	1.000	1.2127	0.9591	1553.5
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.37	520	1.36	0.948	114.939	54.3	0.680	XXXXXXX	670	381
2	0.34	520	1.36	0.952				XXXXX		
3	0.33	520	1.36	0.954						
4	0.30	520	1.36	0.958						
5										

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²
1		1525	2327	1464
2		1574	2477	1313
3		1597	2549	1242
4		1641	2692	1099
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.5897$

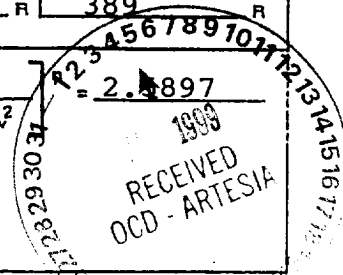
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6184$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{2.5} = 2.5897$

Absolute Open Flow	6184	Mcfd @ 15.025	Angle of Slope	45.0	Slope, n	1.000
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Remarks: Bottomhole pressures were recorded w/ electronic pressure gauge #T-85.

Approved by Commission:	Conducted By: ARC PRESSURE DATA, INC.	Calculated By: <i>Paul Anderson</i>	Checked By:
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GAS WELL BACK-PRESSURE CURVE

OXY USA, INC.
PIB FEDERAL #1
EDDY COUNTY, NM
3/2/99

