

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS JUN 16 '88

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special				Test Date 6-2-88		O. C. D.	
Company OXY USA INC.				Connection TO AIR		ARTESIA, OFFICE	
Pool UNDES. LOVING AJOKA, N.				Formation ATOKA		Unit	
Completion Date 5-29-88		Total Depth 12545'		Plug Back TD 11897'		Elevation 3038.9'GR	
Ceq. Size 5.500		Wt. 20		Set At 4.778		12545'	
Thg. Size 2.875		Wt. 6.5		Set At 2.441		11282	
Perforations: From 11307 To 11347				Well No. 1			
Perforations: From OPEN To ENDED				Unit Sec. Twp. Rge. J 7 23S 28E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 11250		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 178° 11327		Mean Annual Temp. °F 60		State NEW MEXICO	
L 11327		H 11327		Gg 0.582		% CO ₂ 0.39	
				% N ₂ 0.61		S H ₂ S 0	
				Prover 0		Meter Run 4.026	
						Taps FLNG	

FLOW DATA						TUBING DATA		BHP DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							5767	80	7071	178	88.5
1.	4.026	2.250	295	10.0	66	5406	84	6663	178	1.0	
2.	4.026	2.250	300	20.0	66	5227	80	6477	178	1.0	
3.	4.026	2.250	307	41.0	60	4944	80	6156	178	1.25	
4.	4.026	2.250	450	60.0	33	3590	74	4796	178	1.0	
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, Mscf
1	32.64	55.52	308.2	0.9943	1.3108	1.0241	2419
2	32.64	79.15	313.2	0.9943	1.3108	1.0245	3449
3	32.64	114.58	320.2	1.0000	1.3108	1.0265	5032
4	32.64	166.71	463.2	1.0270	1.3108	1.0459	7661
5							

NO.	P _f	Temp. °R	T _f	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	0.46	526	1.50	0.953	439.426	52	0.582	XXXXXX	674	351
2	0.46	526	1.50	0.953				XXXXXX		
3	0.48	520	1.48	0.949						
4	0.69	493	1.41	0.914						
5										

NO.	P _i	P _w	P _w ²	P _i ² - P _w ²
1		5450	29702	4191
2		5282	27901	5993
3		4994	24936	8957
4		3798	14421	19472
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.7839$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.6165$

Part ID-2
6-24-88
comp & BK

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 18198.6$

Absolute Open Flow	18199	Mscf @ 15.025	Angle of Slope θ	46°	Slope, n	0.966
Remarks: BHP W/ AMARADA GAUGES						
Approved By Division		Conducted By:		Calculated By:		Checked By: