

JUL 12 1991

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

O.C. WELL
ARTESIA, OHIO

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 06-28-91	
Company Oryx Energy Company				Connection Marathon			
Pool <i>Indian Basin Morrow</i>				Formation Morrow		Unit	
Completion Date 02-27-91		Total Depth 9595		Plug Back TD 9549		Elevation	
Farm or Lease Name Lowe State							
Csg. Size 4 1/2		Wt. d		Set At 9595		Perforations: From 9483 To 9496	
Thq. Size 2 3/8		Wt. 4.7		Set At 1.995		Perforations: From To	
Well No. 2		Unit M		Sec. 36		Twp. 21	
Type Well - Single - Broadhead - G.C. or G.O. Multiple Single		Packer Set At 9388		County Eddy			
Producing Thru Tubing		Reservoir Temp. °F 168 @ 9388		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico		L 9388		H 9388		Cg .585	
% CO ₂ .75		% N ₂ .18		% H ₂ S		Prover	
Meter Run 3.068		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.	Temp. °F	
SI							2100		PKR		72 hrs.
1.	3	X	1.000	670	51.84	75	210		PKR		24 hrs.
2.											
3.											
4.											
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	4.789	188.19	683.2	.9859	1.307	1.054	1,224
2.							
3.							
4.							
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.	1.01	535	1.52	.900	408.0	55.3	.585	X X X X X X X X	672	350
2.										
3.										
4.										
5.										

NO.	P ₁ ²	P _w ²	P ₂ ²	P ₂ ² - P _w ²
1		311.7	97.1	4368.5
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.022$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.022$	
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.251$			

Absolute Open Flow	1,251	Mcfd @ 15.025	Angle of Slope @	45	Slope, n	1.000
--------------------	-------	---------------	------------------	----	----------	-------

Remarks: Well made 3.0 EBLs 55.3 API CONDENSATE @ 60° & 1.5 BBL H₂O during 24 hr. test

Approved By Division	Conducted By Pro Well Testers	Calculated By BM	Checked By BM
----------------------	----------------------------------	---------------------	------------------