

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

RECEIVED

Form C-122
Revised 9-1-65

JAN 12 '90

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-1-89		O. C. D. ARTESIA, OFFICE	
Company Oryx Energy Company				Connection Transwestern			
Pool Wildcat, Haylung Morrow				Formation Morrow		Unit	
Completion Date 11-13-89		Total Depth 11,025'		Plug Back TD 10,972'		Elevation 3603.2	
Farm or Lease Name Little Wing Federal				Well No. 1			
Csg. Size 5-1/2	Wt. 17#	d 4.892	Set At	Perforations: 10738 From 10728 To 10748		Well No. 1	
Tbg. Size 2-7/8	Wt. N-80	d 2.441	Set At 10,645	Perforations: From To		Unit Sec. Twp. Rye. L. 14, 17-S, 29-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,645		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 151 @ 10738		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State New Mexico							
L 10738	H 10738	Gg 0.6661	% CO ₂ 0.35	% N ₂ 0.87	% H ₂ S 0	Prover	Meter Run x
						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							3150	58			5
1.	4.026		2.0	500	6	68	3002	60			1
2.	4.026		2.0	500	16	64	2845	62			1
3.	4.026		2.0	500	36	66	2705	66			1
4.	4.026		2.0	500	60	63	2625	66			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	19.81	55.49	513.2	0.9924	1.2253	1.0517	1406
2	19.81	90.62	513.2	0.9962	1.2253	1.0517	2308
3	19.81	135.92	513.2	0.9943	1.2253	1.0517	3453
4	19.81	175.48	513.2	0.9971	1.2253	1.0517	4476
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio 10546 Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons 54.3 Deg.
2.					Specific Gravity Separator Gas 0.661 XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX 0.902
4.					Critical Pressure 669 P.S.I.A. 657 P.S.I.A.
5.					Critical Temperature 376 °R 450 °R

P _c 4213.2 P _c 17751.1					
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.75$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 16.765$ Post ID-2 2-2-90 Camp + BK
1		4053.2	16428.4	1322.7	
2		3858.2	14885.7	2865.4	
3		3689.2	13610.2	4140.9	
4		3607.2	13011.9	4739.2	

Absolute Open Flow 16.765 Mcfd @ 15.025	Angle of Slope 45.0	Slope, n 1.0
Remarks:		
Approved By Commission:	Conducted By: John Heard	Calculated By:
		Checked By: