

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

RECEIVED

Form C-122
Revised 9-1-65

MAY 21 '90

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 04-20-90		County ARTESIA, CALIF.	
Company ORYX ENERGY COMPANY						Connection Well SI, Waiting on Pipeline Connection			
Pool Und. Red Lake Atoka-Morrow Gas						Formation MORROW		Unit	
Completion Date 3-24-90		Total Length 9910'		Plug Back TD 9818'		Elevation 3432.8' GR		Farm or Lease Name Scoggins Draw State "C"	
Csg. Size 4 1/2	Wt. 11.60	d	Set At	Perforations: From 9542 To 9593		Well No. 1		Com.	
Trg. Size 2 3/8	Wt.	d	Set At 9478	Perforations: From To		Unit J 16, T-18-S, R-27-E		Sec. Twp. Rge.	
Type Well - Single - Bradenhead - G.G. or G.C. Multiple SINGLE						Packer Set At 9478		County EDDY	
Producing Thru TBG		Reservoir Temp. °F 140@ 9568		Mean Annual Temp. °F		Baro. Press. - P _a		State NEW MEXICO	
L 9568	H 9568	G _g 0.656	% CO ₂ 1.35	% N ₂ 0.64	% H ₂ S 0.00	Prover 0.0	Meter Run 4.026	Taps FLNG.	

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							692	62	879	140	72.0
1.	4.03		1.250	36	5.0	78	608	62	772	140	1.0
2.	4.03		1.250	36	19.0	80	554	62	685	140	1.0
3.	4.03		1.250	36	42.0	84	479	63	589	140	1.0
4.	4.03		1.250	36	74.0	81	390	63	475	140	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	7.47	15.68	49.2	0.9831	1.2345	1.0044	143
2	7.47	30.57	49.2	0.9813	1.2345	1.0043	278
3	7.47	45.46	49.2	0.9777	1.2345	1.0042	412
4	7.47	60.34	49.2	0.9804	1.2345	1.0043	548
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 0.000 Mcf/bbl.
1.	0.07	538	1.45	0.991	A.P.I. Gravity of Liquid Hydrocarbons 0.0 Deg.
2.	0.07	540	1.45	0.991	Specific Gravity Separator Gas 0.656 XXXXXXXXXX
3.	0.07	544	1.46	0.992	Specific Gravity Flowing Fluid XXXXX 0.656
4.	0.07	541	1.45	0.991	Critical Pressure 675 P.S.I.A. 675 P.S.I.A.
5.					Critical Temperature 372 R 372 R

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.4427$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.000$
1		621	386	109	$Q = \left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 790$	<i>Post ID-2 6-29-90 Comp & BIR</i>
2		554	307	188		
3		479	229	265		
4		390	152	343		
5						

Absolute Open Flow 790 Mcfd @ 15.625	Angle of Slope 45°	Slope, n 1.000
Remarks:		
Approved By Commission: _____ Conducted By: _____ Calculated By: _____ Checked By: _____		