STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 05-06-91	
Company: Oryx Energy Company	Connection: Phillips 66 Nat'l Gas Co. 4-25-91			
Pool: Eumont Yates 7 Rvrs Qn (Pro Gas)	Formation: Eumont			Unit:
Completion Date: 04-29-91	Total Depth: 6319	Plug Back TD: 3255	Elevation: 3584 G.L.	Farm or Lease Name: J.A. Akens
Csg. Size: 5½ / Wt.: 15.5 / d: / Set At: 6319	Perforations: From 2983 To 3060			Well No.: 10
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 2882	Perforations: From OPEN To END			Unit: V / Sec.: 3 / Twp.: 21-S / Rge.: 36-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 2882			County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 104 @ 3021	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico
L: * 3021	H: 3021	Gg: .677	% CO_2: -0-	% N_2: 3.55
% H_2S:	Prover:	Meter Run: 2.067	Taps: Flange	

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							575		PKR		5 days
1.	2	X	1.125	40	8.00	67	530		PKR		45 mins.
2.	2	X	1.125	40	17.00	67	508		PKR		45 mins.
3.	2	X	1.125	40	32.00	67	478		PKR		45 mins.
4.	2	X	1.125	40	61.00	67	428		PKR		45 mins.
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	6.393	20.63	53.2	.9933	1.215	1.006	160
2.	6.393	30.07	53.2	.9933	1.215	1.006	233
3.	6.393	41.26	53.2	.9933	1.215	1.006	320
4.	6.393	56.97	53.2	.9933	1.215	1.006	442
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	.08	527	1.41	.989
2.	.08	527	1.41	.989
3.	.08	527	1.41	.989
4.	.08	527	1.41	.989
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .677 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: **664 P.S.I.A. ____ P.S.I.A.
Critical Temperature: **373 R ____ R

P_c 595.1 P_c^2 354.1

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		554.7	307.7	46.4
2		532.7	283.8	70.3
3		502.4	252.4	101.7
4		448.2	200.9	153.2
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.311$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.048$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 905$

Absolute Open Flow: 905 Mcfd @ 15.025 Angle of Slope θ: 49.5 Slope, n: .856

Remarks: *=BHP Instrument set @ this depth
**=corrected to 3.55% N_2

NO FLUID PRODUCED DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
		DM	DM