NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122 cist File

Type Test			Test Date	
[X] Initial	[ ] Annual	[ ] Special	12/16/1992	

Company	Connection		
Yates Petroleum Corp	Llano Inc.		
Pool	**Formation**		**Unit**
Morrow	Dos Hermanos		

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
12/14/92	12485	12321	3235	Foundation ALO Federal Com

Csg. Size	Wt.	d	Set At	Perforations		Well No.
5.500	17.000	4.892	12485	From 12115	To 12120	1

Tbg. Size	Wt.	d	Set At	Perforations		Unit	Sec.	Twp.	Rge.
2.875	6.500	2.441	12034	From 12115	To 12120	J	11	20S	30E

Type Well	Packer Set At	County
Single	12034	Eddy

Producing Thru	Resv. Temp. °F	Mean Temp. °F	Baro. Press. - Pa	State
Tubing	176 @ 12117	62	13.2	New Mexico

L	H	Gg	$\%CO_2$	$\%N_2$	$\%H_2S$	Prover	Meter Run	Taps
12034	12034	0.609	0.787	1.271	0.000	0.000	2.000	Flange

	FLOW DATA						TUBING DATA		CASING DATA		
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	Duration of Flow
SI	0.000	x	0.000	0	0.0	0	800	0			0
1	2.067	x	1.500	645	2.0	32	745	62			24
2	2.067	x	1.500	645	4.0	31	712	62			24
3	2.067	x	1.500	630	5.9	40	678	62			24
4	2.067	x	1.500	645	9.0	39	645	62			24
5		x									

RATE OF FLOW CALCULATIONS

NO	Coefficient (24 Hour)	$\sqrt{hwPm}$	Pressure Pm	Flow Temp Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.760	36.3	658.2	1.0281	1.281	1.071	653
2	12.760	51.3	658.2	1.0291	1.281	1.071	925
3	12.760	61.4	643.5	1.0198	1.281	1.065	1090
4	12.760	77.0	658.2	1.0208	1.281	1.067	1370
5							

NO	Pr	Temp °R	Tr	Z
1	0.98	492	1.39	0.872
2	0.98	491	1.39	0.871
3	0.96	500	1.41	0.882
4	0.98	499	1.41	0.879
5				

Gas Liquid Hydrocarbon Ratio	80 Mcf/bbl.	
A.P.I. Gravity of Liquid Hydrocarbons	56.400 Deg.	
Specific Gravity Separator Gas	0.609	XXXXXXXXXX
Specific Gravity Flowing Fluid	XXXXXXXXXX	0.646
Critical Pressure	673 P.S.I.A.	672 P.S.I.A.
Critical Temperature	354 °R	366 °R

Pc 813.2 Pc^2 661.3

NO	Pt^2	Pw	Pw^2	$Pc^2 - Pw^2$
1	574.9	761.8	580.3	81.0
2	525.9	732.7	536.9	124.4
3	477.8	702.2	493.1	168.2
4	433.2	676.4	457.5	203.8
5				

(1) $\frac{Pc^2}{Pc^2 - Pw^2} = 5.315$ (2) $\left[\frac{Pc^2}{Pc^2 - Pw^2}\right]^n = 3.824$

$AOF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2}\right]^n = 3537$

Absolute Open Flow	3537 Mcfd @ 15.025	Angle of Slope	0 39	Slope, n	0.803

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Ed Perry	Andrea Carpenter	