V MEXICO OIL CONSERVATION COMMISSION

MULTIPC ND ONE POINT BACK PRESSURE TEST FO S WELL

Form C-122 C/SF File

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 01/01/1992	
Company: Yates Petroleum Corp		Connection: Yates Petroleum Corp			
Pool: Atoka		Formation: Crozier Bluff		Unit:	
Completion Date: 10/25/1991	Total Depth: 11500	Plug Back TD: 10790	Elevation: 3131	Farm or Lease Name: North Carlsbad OK Com	
Csg. Size: 4.500 / Wt.: 11.600 / d: 4.000 / Set At: 11500		Perforations: From 10666 To 10696		Well No.: 1	
Tbg. Size: 2.375 / Wt: 4.700 / d: 1.995 / Set At: 10488		Perforations: From 10666 To 10696		Unit: B / Sec.: 26 / Twp: 21S / Rge.: 26E	
Type Well: Single		Packer Set At: 10488		County: Eddy	
Producing Thru: Tubing	Resv. Temp. °F: 159 @ 10083	Mean Temp °F: 62	Baro. Press. - Pa: 13.2	State: New Mexico	

L	H	Gg	$\%CO_2$	$\%N_2$	$\%H_2S$	Prover	Meter Run	Taps
10488	10488	0.629	0.510	0.336	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	840	0			0
1.	2.067	x	1.125	500	2.0	47	750	62			24
2.	2.067	x	1.125	461	3.7	45	667	62			24
3.	2.067	x	1.125	500	6.0	44	583	62			24
4.	2.067	x	1.125	464	8.4	45	500	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.	6.393	32.0	513.2	1.0127	1.260	1.054	275
2.	6.393	41.8	473.7	1.0148	1.260	1.050	359
3.	6.393	55.5	513.2	1.0158	1.260	1.055	479
4.	6.393	63.1	477.2	1.0148	1.260	1.050	542
5.							

NO.	Pr	Temp °R	Tr	Z
1.	0.76	507	1.39	0.901
2.	0.70	505	1.39	0.907
3.	0.76	504	1.38	0.899
4.	0.71	505	1.39	0.906
5.				

Gas Liquid Hydrocarbon Ratio	0 Mcf/bbl.	
A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg.	
Specific Gravity Separator Gas	0.629	xxxxxxxxxx
Specific Gravity Flowing Fluid	xxxxxxxxxx	0.629
Critical Pressure	673 P.S.I.A.	673 P.S.I.A.
Critical Temperature	364 °R	364 °R

Pc 853.2 Pc^2 728.0

NO.	Pt^2	Pw	Pw^2	$Pc^2 - Pw^2$
1.	582.5	764.8	584.9	143.1
2.	462.7	683.2	466.8	261.2
3.	355.5	602.4	362.9	365.0
4.	263.4	522.6	273.1	454.9
5.				

(1) $\frac{Pc^2}{Pc^2 - Pw^2} = 1.994$ (2) $\left[\frac{Pc^2}{Pc^2 - Pw^2}\right]^n = 1.500$

AOF = Q $\left[\frac{Pc^2}{Pc^2 - Pw^2}\right]^n = 718$

Absolute Open Flow 718 Mcfd @ 15.025 Angle of Slope θ 30 Slope, n 0.587

Remarks:

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