NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

C15F File

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 01/01/92	
Company: Yates Petroleum Corp	Connection: Associated Natural Gas			
Pool: Strawn	Formation: Burton Flat East		Unit:	
Completion Date: 08/02/91	Total Depth: 12175	Plug Back TD: 12088	Elevation: 3316	Farm or Lease Name: Slinkard UR Federal Com
Csg. Size: 5.500 / Wt.: 17.000 / d: 4.892 / Set At: 12175	Perforations: From 10660 To 10704			Well No.: 4
Tbg. Size: 2.875 / Wt.: 6.500 / d: 2.441 / Set At: 10608	Perforations: From 10660 To 10704			Unit: C / Sec.: 12 / Twp.: 20S / Rge.: 29E
Type Well: Single	Packer Set At: 10608			County: Eddy
Producing Thru: Tubing	Resv. Temp. °F: 164 @ 10500	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
10608	10608	0.710	0.000	1.412	0.000	0.000	3.000	Flange

FLOW DATA / TUBING DATA / CASING DATA

NO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Tubing Press p.s.i.g.	Tubing Temp °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	0.000	x	0.000	0	0.0	0	55	0			0
1.	3.068	x	0.625	20	19.0	33	45	62			24
2.	3.068	x	0.625	20	42.0	35	37	62			24
3.	3.068	x	0.625	20	64.5	37	28	62			24
4.	3.068	x	0.625	20	89.0	36	20	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.	1.850	25.1	33.2	1.0270	1.187	1.004	57
2.	1.850	37.3	33.2	1.0250	1.187	1.004	84
3.	1.850	45.9	32.7	1.0229	1.187	1.004	104
4.	1.850	54.4	33.2	1.0239	1.187	1.004	123
5.							

NO	Pr	Temp °R	Tr	Z
1.	0.05	493	1.27	0.991
2.	0.05	495	1.27	0.991
3.	0.05	497	1.28	0.992
4	0.05	496	1.28	0.991
5				

Gas Liquid Hydrocarbon Ratio	0 Mcf/bbl.	
A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg	
Specific Gravity Separator Gas	0.710	xxxxxxxxxx
Specific Gravity Flowing Fluid	xxxxxxxxxx	0.710
Critical Pressure	666 P.S.I.A.	666 P.S.I.A.
Critical Temperature	388 °R	388 °R

Pc 68.2 Pc^2 4.7

NO	Pt^2	Pw	Pw^2	$Pc^2 - Pw^2$
1.	3.4	58.6	3.4	1.2
2	2.5	51.2	2.6	2.0
3.	1.7	43.0	1.8	2.8
4	1.1	36.2	1.3	3.3
5.				

(1) $\frac{Pc^2}{Pc^2 - Pw^2}$ = 2.289 (2) $\left[\frac{Pc^2}{Pc^2 - Pw^2}\right]^n$ = 1.881

AOF = Q $\left[\frac{Pc^2}{Pc^2 - Pw^2}\right]^n$ = 159

Absolute Open Flow: 159 Mcfd @ 15.025 Angle of Slope θ: 37 Slope, n: 0.763

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Danny Mathews	Andrea Carpenter	