

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

Form C-122

dsr
File

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 01/05/1992	
Company Yates Petroleum Corp		Connection Yates Petroleum Corp	
Pool Strawn		Formation Benson	
Completion Date 04/09/1985		Total Depth 12100	Plug Back TD 11015
		Elevation 3419	Farm or Lease Name Benson Deep Federal FS Com
Csg Size 5.500	Wt 17.000	d 4.892	Set At 12100
Perforations: From 10814 To 10822		Well No. 1	
Tbg Size 2.875	Wt 6.500	d 2.441	Set At 10776
Perforations: From 10814 To 10822		Unit Sec Twp. Rge. H 4 19S 30E	
Type Well Single		Packer Set At 10776	County Eddy
Producing Thru Tubing	Resv Temp °F 220	Mean Temp °F 62	Baro Press - Pa 13.2
State New Mexico			
H 10776	Gg 10776	%CO ₂ 0.825	%N ₂ 2.015
%H ₂ S 2.160	Prover 0.000	Meter Run 2.000	Taps Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
Sl.	0.000	x	0.000	0	0.0	0	800	0			0
1	2.067	x	0.500	460	2.0	64	750	62			24
2	2.067	x	0.500	518	5.6	59	653	62			24
3	2.067	x	0.500	491	8.5	55	557	62			24
4	2.067	x	0.500	531	11.5	50	460	62			24
5		x									

NO	Coefficient (24 Hour)	$\sqrt{hwP_m}$	Pressure Pm	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	1.189	30.8	473.2	0.9962	1.101	1.076	43
2	1.189	54.7	531.1	1.0010	1.101	1.090	78
3	1.189	65.7	504.5	1.0048	1.101	1.088	94
4	1.189	79.2	543.9	1.0098	1.101	1.100	115
5							

NO	Pr	Temp °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
					0	
					A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg.
1	0.71	524	1.24	0.864	Specific Gravity Separator Gas	0.825
2	0.79	519	1.23	0.841	Specific Gravity Flowing Fluid	0.825
3	0.75	515	1.22	0.845	Critical Pressure	669 P.S.I.A.
4	0.81	510	1.21	0.826	Critical Temperature	421 °R
5						

Pc	813.2	Pc²	661.3
NO	Pt²	Pw	Pw²
1	582.5	763.2	582.5
2	443.8	666.3	443.9
3	325.1	570.3	325.3
4	223.9	473.4	224.1
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.042$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.894$	
AOF = Q		$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 148$	

Absolute Open Flow	148	Mcf/d @ 15.025	Angle of Slope	0 30	Slope, n	0.574
Remarks:						
Approved By Commission		Conducted By: Tracy Richardson		Calculated By: Andrea Carpenter		Checked By: