

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT ND ONE POINT BACK PRESSURE TEST FOR 3 WELL

Form C-122

DSF

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2/11/1999					
Company Yates Petroleum Corp					Connection GPM Gas Corp					
Pool Undesignated					Formation Canyon					
Completion Date 1/15/1999			Total Depth 9520		Plug Back TD 7682		Elevation 3790			
Csg. Size 4.500	Wt. 11.600	d 4.000	Set At 9520	Perforations: From 7518 To 7650			Well No. 25			
Tbg. Size 2.875	Wt. 6.500	d 2.441	Set At 7428	Perforations: From 7518 To 7650			Unit N	Sec. 34	Twp. 20.5	
Type Well Single					Packer Set At 7435			County Eddy		
Producing Thru Tubing		Resv. Temp. °F 125 @ 7600		Mean Temp. °F 62		Baro. Press. - Pa 13.2		State New Mexico		
L 9520	H 9520	Gg 0.663	%CO ₂ 0.613	%N ₂ 0.722	%H ₂ S 0.000	Prover 0.000	Meter Run 3.000	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	1500	0			0
1.	3.068	x	2.000	220	9.0	60	720	60			24
2.	3.068	x	2.000	220	11.0	60	553	60			24
3.	3.068	x	2.000	220	12.0	60	387	60			24
4.	3.068	x	2.000	220	13.0	60	220	60			24
5.		x									

RATE OF FLOW CALCULATIONS							
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.	21.320	45.8	233.2	1.0000	1.228	1.024	1228
2.	21.320	50.6	233.2	1.0000	1.228	1.024	1357
3.	21.320	52.9	233.2	1.0000	1.228	1.024	1418
4.	21.320	55.1	233.2	1.0000	1.228	1.024	1476
5.							

NO	Pr	Temp °R	Tr	Z	Gas Liquid Hydrocarbon Ratio 0	Mcf/bbl.
1.	0.35	520	1.39	0.954	A.P.I. Gravity of Liquid Hydrocarbons 0.000	Deg.
2.	0.35	520	1.39	0.954	Specific Gravity Separator Gas 0.663	XXXXXXXXXX
3.	0.35	520	1.39	0.954	Specific Gravity Flowing Fluid XXXXXXXXXX	0.663
4.	0.35	520	1.39	0.954	Critical Pressure 671	P.S.I.A. 671
5.					Critical Temperature 374	°R 374

Pc	1513.2	Pc'	2289.8
NO.	P ₁	P _w	P _w '
1.	537.6	743.3	552.5
2.	320.6	582.7	339.6
3.	160.2	426.2	181.6
4.	54.4	280.2	78.5
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.086$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.065$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1509$

Absolute Open Flow 1509	Mcfd @ 15.025	Angle of Slope θ 37	Slope, n 0.757
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Remarks:

Approved By Commission:	Conducted By: Jimmy Smith	Calculated By: Katie Brunson	Checked By: Pinson McWhorter
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