

951
File

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

Form C-122

MAY 04 '88

Type Test [x] Initial [] Annual [] Special					Test Date 8/23/85			
Company Yates Petroleum Corporation					Connection Natural Gas Pipeline		O. C. D. ARTESIA, OFFICE	
Pool <i>Four Mile Draw</i> Undesignated					Formation Morrow		Unit	
Completion Date 11/11/83		Total Depth 9700.0'		Plug Back TD 9664.0'		Elevation 3277.0'		Farm or Lease Name Northwestern Shores
Csg Size 5.500"	Wt. 14.000#	d 5.012"	Set At 9700.0'	Perforations: From 9405.0' To 9438.0'			Well No. XR Fed 1	
Tbg Size 2.875"	Wt. 6.500#	d 2.441"	Set At 9368.0'	Perforations: From 0.0' To 0.0'			Unit Sec Twp Rge B 36 18S 26E	
Type Well Single					Packer Set At 9369.0'		County Eddy	
Producing Thru Tubing		Resv. Temp. °F 180 @ 9421'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico
L 9368.0'	H 9368.0'	Gg .623	%CO2 .20	%N2 .45	%H2S 0.00	Prover 0.000"	Meter Run 2.000"	Taps Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Size	Orifice X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	
SI	0.000	X 0.000	0	0.0	95	1701	0	0	0	0 hrs.
1.	2.067	X 1.375	825	35.8	95	1619	62	0	0	24 hrs.
2.	2.067	X 1.375	850	45.1	95	1606	62	0	0	24 hrs.
3.	2.067	X 1.375	850	50.9	95	1590	62	0	0	24 hrs.
4.	2.067	X 1.375	860	56.0	95	1580	62	0	0	24 hrs.
5.	0.000	X 0.000	0	0.0	0	0	0	0	0	0 hrs.

RATE OF FLOW CALCULATIONS

NO	Coefficient (24 HOUR)	1/hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	10.204	173.23	838.20	.968	1.267	1.060	2298
2.	10.204	197.31	863.20	.968	1.267	1.062	2621
3.	10.204	209.61	863.20	.968	1.267	1.062	2785
4.	10.204	221.13	873.20	.968	1.267	1.062	2940
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.25	555	1.53	.890	409.780 Mcf/bbl.	51.300 Deg.	.623	.631	671.3 PSIA	362.0°R
2.	1.29	555	1.53	.887					671.0 PSIA	364.5°R
3.	1.29	555	1.53	.887						
4.	1.30	555	1.53	.886						
5.	0.00	0	0.00	0.000						

NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)	Pc2	Pc2-Pw2	(2)	Pc2	Pc2-Pw2	n
1.	2664.1	1647.4	2713.8	224.7	9.2254			4.8014		
2.	2621.8	1639.1	2686.6	251.9						
3.	2570.3	1625.9	2643.5	295.0						
4.	2538.3	1618.6	2620.0	318.5						
5.	0.0	0.0	0.0	0.0						

AOF = Q $\left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 14115 \text{ Mcfd}$

Absolute Open Flow 14115 Mcfd @ 15.025 Angle of Slope, 0 35 Slope, n .706

Remarks:

Approved By:	Conducted By: Tracy Richardson	Calculated By: Andrea Carpenter	Checked By:
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