

MEXICO OIL CONSERVATION CO. ISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
7-1
F.le

JUL 22 1983

Type Test [X] Initial [] Annual [] Special						Test Date 5/28/83		O. C. D. ARTESIA, OFFICE	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company					
Pool 4/1/96 pool - 82730 2 Pecos Slope				Formation Abo				Unit	
Completion Date 4/8/82		Total Depth 4550.0'		Plug Back TD 4469.0'		Elevation 3515.0'		Farm or Lease Name McDrea "SF" Com	
Csg Size 4.500"	Wt. 3.500#	d 4.090"	Set At 4550.0'	Perforations: From 3850.0' To 4252.0'		Well No. 1			
Tbg Size 2.875"	Wt. 5.500#	d 2.441"	Set At 3804.0'	Perforations: From 0.0' To 0.0'		Unit Sec Twp Rge C 14 9S 25E			
Type Well Single				Packer Set At 3804.0'		County Chaves			
Producing Tru Tubing		Resv. Temp. °F 91 @ 3804'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico	
L 3804.0'	G 3804.0'	Gg .681	%CO2 1.99	%N2 9.23	%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 Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	
SI	0.000	X 0.000	0	0.0	0	1010	0	0	0	0 hrs.
1.	2.067	X .625	120	16.0	70	850	62	0	0	24 hrs.
2.	2.067	X .625	130	26.0	70	690	62	0	0	2 hrs.
3.	2.067	X .625	130	33.0	70	460	62	0	0	24 hrs.
4.	2.067	X .625	130	34.0	70	405	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 HOURS)	√hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	1.366	46.16	133.20	.991	1.212	1.010	104
2.	1.366	61.02	143.20	.991	1.212	1.011	138
3.	1.366	68.74	143.20	.991	1.212	1.011	156
4.	1.366	69.78	143.20	.991	1.212	1.011	158
5.	0.300	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio _____ Dry _____ Mcf/bbl.
1.	.20	530	1.50	.980	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.
2.	.22	530	1.50	.979	Specific Gravity Separator Gas .681 xxxxxxxxxxxxxxx
3.	.22	530	1.50	.979	Specific Gravity Flowing Fluid xxxxxx .681
4.	.22	530	1.50	.979	Critical Pressure 662.3 PSIA 662.3 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature 353.6°R 353.6°R

Pc 1023.2 Pc2 1046.9		$(1) \frac{Pc^2}{Pc^2 - Pw^2} = \frac{3.4693}{(2) \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n} = 1.8626$	
NO	Pt2	Pw	Pw2
1.	745.1	863.2	745.2
2.	494.5	703.3	494.6
3.	223.9	473.3	224.0
4.	174.9	418.3	175.0
5.	0.0	0.0	0.0

$AOF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 195 \text{ Mcfd}$	
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Absolute Open Flow	195 Mcfd @ 15.025	Angle of Slope, θ	27	Slope, n	.500
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Remarks: _____

Approved By:	Conducted By: David Weaver	Calculated By: Andie Carpenter	Checked By:
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