

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

Form C-122

clst
file

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 07/24/92			
Company Yates Petroleum corp				Connection Amoco				DEC 27 '94 O. C. D. ARTESIAN OFFICE	
Pool Upper Penn				Formation Red Tank					
Completion Date 07/20/92		Total Depth 8590		Plug Back TD 8516		Elevation 3457		Farm or Lease Name Chalk AKH Federal Com	
Csg. Size 5.500	Wt. 15.500	d 4.950	Set At 8590	Perforations: From 7662 To 7682		Well No. 1		Unit Sec. Twp. Rge. 1 22 18S 27E	
Tbg. Size 2.875	Wt. 6.500	d 2.441	Set At 7600	Perforations: From 7662 To 7682					
Type Well Single				Packer Set At 7600		County Eddy		State New Mexico	
Producing Thru Tubing		Resv. Temp. °F 142 @ 7861		Mean Temp. °F 62		Baro. Press. - Pa 13.2			
h 7600		Gg 7600		CO ₂ 0.688		N ₂ 0.585		H ₂ S 0.661	
						Prover 1.000		Meter Run 0.000	
								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	of Flow
SI	0.000	x	0.000	0	0.0	0	500	0			0
1.	4.026	x	2.750	127	0.8	107	460	62			24
2.	4.026	x	2.750	150	3.0	102	357	62			24
3.	4.026	x	2.750	150	6.0	99	253	62			24
4.	4.026	x	2.750	150	8.0	103	150	62			24
5.		x									

RATE OF FLOW CALCULATIONS							
NO	Coefficient (24 Hour)	hwPm	Pressure Pm	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	41.100	10.9	140.5	0.9576	1.206	1.011	524
2.	41.100	22.1	163.2	0.9619	1.206	1.014	1069
3.	41.100	31.3	163.2	0.9645	1.206	1.014	1516
4.	41.100	36.1	163.2	0.9610	1.206	1.013	1744
5.							

NO	Pr	Temp °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	34	Mcf/bbl.
					A.P.I. Gravity of Liquid Hydrocarbons	52.000	Deg
1.	0.21	567	1.48	0.978	Specific Gravity Separator Gas	0.688	XXXXXXXXXX
2.	0.24	562	1.46	0.973	Specific Gravity Flowing Fluid	XXXXXXXXXX	0.775
3.	0.24	559	1.46	0.973	Critical Pressure	677	P.S.I.A. 674
4.	0.24	563	1.47	0.974	Critical Temperature	383	°R 412
5.							

Pc	513.2	Pc ²	263.4		(1) $\frac{Pc^2}{Pc^2 - Pw^2} = 1.562$	(2) $\left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 1.366$
NO	P ²	Pw	Pw ²	Pc ² - Pw ²		
1.	223.9	476.0	226.6	36.8		
2.	137.0	385.5	148.6	114.8		
3.	70.9	307.8	94.8	168.6		
4.	26.6	243.0	59.0	204.3		
5.						

Absolute Open Flow				2072	Mcf/d @ 15.025	Angle of Slope	0 35	Slope, n	0.700
Remarks:									
Approved By Commission			Conducted By: Ed Perry			Calculated By: Andrea Carpenter		Checked By:	