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O. C. D.
ARTESIA, OFFICE
Form C-122NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test [x] Initial [] Annual [] Special					Test Date 7/26/90	
Company Yates Petroleum Corporation			Connection Phillips Petroleum			
Pool Morrow			Formation East Burton Flat			
Completion Date 4/2/91		Total Depth 12785.0'		Plug Back TD 12675.0'		
Elevation 3295.0'		Farm or Lease Name Zia AHZ Federal				
Csg Size 5.500"	Wt. 14.000#	d 5.012"	Set At 12785.0'	Perforations: From 12202.0' To 12432.0'		
Tbg Size 2.875"	Wt. 6.500#	d 2.441"	Set At 11050.0'	Perforations: From 0.0' To 0.0'		
Type Well Single				Packer Set At 11050.0'		
Producing Thru Tubing		Resv. Temp. °F 177 @ 12270'		Baro. Press. - Pa 13.2 psia.		
Mean Temp. °F 62.0		State New Mexico		County Eddy		
L 11050.0'	H 11050.0'	Gg 1.096	%CO2 .41	%N2 .21	%H2S .00	
Prover 0.000"		Meter Run 2.000"		Taps Flange		

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Orifice Size 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	98	2801	0	0	0	0 hrs.
1.	2.067 X 1.375	520	30.8	103	1743	62	0	0	24 hrs.
2.	2.067 X 1.375	440	48.0	97	1699	62	0	0	24 hrs.
3.	2.067 X 1.375	430	53.8	98	1379	62	0	0	24 hrs.
4.	2.067 X 1.375	430	70.0	100	925	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	128.15	533.20	.961	.955	1.165	1398
2.	10.204	147.49	453.20	.966	.955	1.137	1579
3.	10.204	154.42	443.20	.965	.955	1.131	1644
4.	10.204	176.14	443.20	.964	.955	1.129	1868
5.	0.000	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.	.81	563	1.09	.737	A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg.
2.	.69	557	1.07	.774	Specific Gravity Separator Gas	1.096
3.	.68	558	1.08	.781	Specific Gravity Flowing Fluid	xxxxxx
4.	.68	560	1.08	.784	Critical Pressure	656.1 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	518.4°R

Pc 2814.2 Pc2 7919.7				
NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)
1.	3084.2	1761.3	3102.1	4817.7
2.	2931.6	1718.7	2953.9	4965.8
3.	1938.2	1399.5	1958.6	5961.2
4.	880.2	948.7	900.1	7019.6
5.	0.0	0.0	0.0	0.0

$\frac{Pc^2}{Pc^2 - Pw^2} = \frac{1.1270}{(2)} \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 1.0963$	
$ROF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 2048 \text{ Mcfd}$	

Absolute Open Flow		2048 Mcfd @ 15.025	Angle of Slope, 0	38	Slope, n .769
Remarks:					

Approved By:	Conducted By: Ed Perry	Calculated By: Andrea Carpenter	Checked By:
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