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

Form C-122

RECEIVED
JAN 20 1983
O. C. D.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special					Test Date: 12/7/82
Company: Yates Petroleum Corporation			Connection: Transwestern Pipeline Company		Unit
Pool: ~~Wildcat~~ Nemenin Ridge Morrow			Formation: Morrow		
Completion Date: 6/16/82	Total Depth: 12050.0'		Plug Back TD: 11798.0'	Elevation: 3458.5'	Farm or Lease Name: Benson Deep Unit
Csg Size: 5.500"	Wt.: 17.000#	d: 4.892"	Set At: 12050.0'	Perforations: From 11797.5' To 11814.5'	Well No.: 2
Tbg Size: 2.875"	Wt.: 6.500#	d: 2.441"	Set At: 11744.0'	Perforations: From 0.0' To 0.0'	Unit: E; Sec: 34; Twp: 18S; Rge: 30E
Type Well: Single				Packer Set At: 11746.0'	County: Eddy
Producing Thru: Tubing	Resv. Temp. °F: 180 @ 11729'		Mean Temp. °F: 62.0	Baro. Press. - Pa: 13.2 psia.	State: New Mexico

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
11744.0'	11744.0'	.664	.58	.60	0.00	0.000"	2.000"	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
NO	Prover Size	Orifice X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	Duration of Flow
SI	0.000	X 0.000	0	0.0	62	3300	0	0	0	0 hrs.
1.	2.067	X 1.375	420	36.5	62	2973	62	0	0	24 hrs.
2.	2.067	X 1.375	430	52.8	60	2890	62	0	0	24 hrs.
3.	2.067	X 1.375	440	66.3	62	2813	62	0	0	24 hrs.
4.	2.067	X 1.375	450	77.0	60	2700	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)	$\sqrt{hwPm}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	10.204	125.74	433.20	.998	1.227	1.043	1639
2.	10.204	152.97	443.20	1.000	1.227	1.045	2002
3.	10.204	173.34	453.20	.998	1.227	1.045	2265
4.	10.204	188.86	463.20	1.000	1.227	1.047	2476
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.65	522	1.39	.919
2.	.66	520	1.39	.916
3.	.68	522	1.39	.915
4.	.69	520	1.39	.912
5.	0.00	0	0.00	0.000

Gas Liquid Hydrocarbon Ratio 24.000 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 55.500 Deg.
Specific Gravity Separator Gas .664 xxxxxxxxxxxx
Specific Gravity Flowing Fluid xxxxx .784
Critical Pressure 671.3 PSIA 667.1 PSIA
Critical Temperature 374.5°R 414.0°R

Pc 3313.2 Pc^2 10977.3

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	8917.4	2991.8	8950.8	2026.5
2.	8428.6	2911.6	8477.6	2499.7
3.	7987.4	2837.2	8049.4	2927.9
4.	7361.5	2726.6	7434.1	3543.2
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2} = 3.7739$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 3.2259$

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 7306$ Mcfd

Absolute Open Flow 7306 Mcfd @ 15.025 | Angle of Slope, θ 41 | Slope, n .882

Remarks:

Approved By:	Conducted By:	Calculated By:	Checked By:
	Ed Perry	Andie Alderson	