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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 11/27/82		
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company				
Pool Pecos Slope - Abo Pool				Formation Abo				
Completion Date 5/5/82	Total Depth 4125.0'			Plug Back TD 4083.0'		Elevation 3885.0'		Farm or Lease Name Grynberg "LZ" State
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4125.0'	Perforations: From 3652.0' To 3908.0'				Well No. 4
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3595.0'	Perforations: From 0.0' To 0.0'				Unit Sec Twp Rge E 36 5S 24E
Type Well Single				Packer Set At 3595.0'				County Chaves
Producing Thru Tubing	Resv. Temp. °F 103 @ 3590'			Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico
L 3595.0'	H 3595.0'	Gg .638	%CO2 .02	%N2 5.12	%H2S 0.00	Prover 0.000"	Meter Run 2.000"	Taps Flange

	FLOW DATA				TUBING DATA		CASING DATA		
NO	Prover Size	X Orifice 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	953	0	0	0	0 hrs.
1.	2.067	X 1.375	345	11.7	62	901	62	0	0	24 hrs.
2.	2.067	X 1.375	350	14.0	62	894	62	0	0	24 hrs.
3.	2.067	X 1.375	355	16.6	62	886	62	0	0	24 hrs.
4.	2.067	X 1.375	360	18.0	62	875	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	64.74	358.20	.998	1.252	1.030	850
2.	10.204	71.31	363.20	.998	1.252	1.031	937
3.	10.204	78.18	368.20	.998	1.252	1.031	1028
4.	10.204	81.96	373.20	.998	1.252	1.032	1078
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.54	522	1.46	.942
2.	.55	522	1.46	.941
3.	.56	522	1.46	.940
4.	.56	522	1.46	.940
5.	0.00	0	0.00	0.000

Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.
Specific Gravity Separator Gas .638 xxxxxxxxxxxxx
Specific Gravity Flowing Fluid xxxxx .638
Critical Pressure 661.0 PSIA 661.0 PSIA
Critical Temperature 358.0°R 358.0°R

Pc 966.2 Pc^2 933.5

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	835.8	918.8	844.2	89.3
2.	823.0	912.9	833.3	100.2
3.	808.6	906.1	821.0	112.6
4.	788.9	895.9	802.6	131.0
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2}$ = 8.3007 (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$ = 5.6550

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$ = 5813 Mcfd

Absolute Open Flow	5813 Mcfd @ 15.025	Angle of Slope, θ 39	Slope, n .819

Remarks:

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