c/sf. File

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

Form C-122

RECEIVED
MAY 04 '88
O. C. D.
ARTESIA, OFFICE

Type Test [x] Initial [ ] Annual [ ] Special				Test Date 1/27/88	
Company Yates Petroleum Corporation		Connection Yates Petroleum Corporation			
Pool East Burton Flat Strawn		Formation Strawn			Unit
Completion Date 8/16/82	Total Depth 12229.0'	Plug Back TD 11738.0'	Elevation 3315.0'		Farm or Lease Name Slinkard UR Federal
Csg Size 5.500" / Wt. 14.000# / d 5.012" / Set At 12220.0'		Perforations: From 10790.0' To 10804.0'			Well No. 1
Tbg Size 2.875" / Wt. 6.500# / d 2.441" / Set At 10752.0'		Perforations: From 0.0' To 0.0'			Unit Sec H 11 / Twp 20S / Rge 29E
Type Well Single		Packer Set At 10753.0'			County Eddy
Producing Thru Tubing	Resv. Temp. °F 210 @ 10797'	Mean Temp. °F 62.0	Baro. Press. - Pa 13.2 psia.		State New Mexico
L 10752.0' / H 10752.0' / Gg .722	%CO2 .29	%N2 1.45	%H2S 0.00	Prover 0.000"	Meter Run 2.000" / Taps Flange

FLOW DATA / TUBING DATA / CASING DATA

NO	Prover Orifice Size 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	42	2863	0	0	0	0 hrs.
1.	2.067 X 1.000	360	34.0	42	1987	62	0	0	24 hrs.
2.	2.067 X 1.000	360	41.6	42	1919	62	0	0	24 hrs.
3.	2.067 X 1.000	365	44.5	42	1731	62	0	0	24 hrs.
4.	2.067 X 1.000	380	47.0	42	1640	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.	4.947	112.64	373.20	1.018	1.177	1.051	701
2.	4.947	124.60	373.20	1.018	1.177	1.051	776
3.	4.947	129.73	378.20	1.018	1.177	1.051	808
4.	4.947	135.94	393.20	1.018	1.177	1.054	849
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.56	502	1.28	.906
2.	.56	502	1.28	.906
3.	.57	502	1.28	.905
4.	.59	502	1.28	.901
5.	0.00	0	0.00	0.000

Gas Liquid Hydrocarbon Ratio 5.320 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 51.600 Deg.
Specific Gravity Separator Gas .722 | xxxxxxxxxxxxx
Specific Gravity Flowing Fluid xxxxx | 1.221
Critical Pressure 666.6 PSIA | 649.1 PSIA
Critical Temperature 391.7°R | 556.4°R

Pc 2876.2 Pc^2 8272.5

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	4000.8	2001.6	4006.3	4266.2
2.	3733.4	1933.9	3740.0	4532.6
3.	3042.2	1746.1	3048.7	5223.8
4.	2733.1	1655.3	2739.9	5532.6
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2}$ = 1.4887 (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$ = 1.3347

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$ = 1133 Mcfd

Absolute Open Flow 1133 Mcfd @ 15.025 | Angle of Slope, θ 36 | Slope, n .726

Remarks:

Approved By:	Conducted By: Tracy Richardson	Calculated By: Andrea Carpenter	Checked By: