6-2-86
C/S F
File

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

Form C-122

Type Test [x] Initial [ ] Annual [ ] Special				Test Date 2/2/86	
Company Yates Petroleum Corporation		Connection Transwestern Pipeline Company			
Pool Pecos Slope Abo		Formation Abo			Unit
Completion Date 5/30/82	Total Depth 4300.0'	Plug Back TD 4225.0'	Elevation 3625.0'		Farm or Lease Name Shadden TN
Csg Size 4.400" / Wt. 9.500# / d 4.090" / Set At 4284.0'		Perforations: From 3823.0' To 3967.0'			Well No. 1
Tbg Size 2.375" / Wt. 4.700# / d 1.995" / Set At 3805.0'		Perforations: From 0.0' To 0.0'			Unit Sec M 10 / Twp 6S / Rge 26E
Type Well Single		Packer Set At 3805.0'			County Chaves
Producing Thru Tubing	Resv. Temp. °F 70 @ 3800'	Mean Temp. °F 62.0	Baro. Press. - Pa 13.2 psia.		State New Mexico

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
3805.0'	3805.0'	.660	.03	8.24	0.00	0.000"	2.000"	Flange

NO	FLOW DATA Prover Size	X	Orifice Size	Press. psig	Diff. hw	Temp. °F	TUBING DATA Press. psig	Temp. °F	CASING DATA Press. psig	Temp. °F	Duration of Flow
SI	0.000	X	0.000	0	0.0	72	1009	0	0	0	0 hrs.
1.	2.067	X	.825	160	14.0	72	950	62	0	0	24 hrs.
2.	2.067	X	.825	150	23.0	72	940	62	0	0	24 hrs.
3.	2.067	X	.825	140	28.1	72	920	62	0	0	24 hrs.
4.	2.067	X	.825	135	33.8	72	911	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.	3.298	49.24	173.20	.989	1.231	1.013	200
2.	3.298	61.27	163.20	.989	1.231	1.012	249
3.	3.298	65.61	153.20	.989	1.231	1.011	266
4.	3.298	70.78	148.20	.989	1.231	1.011	287
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.26	532	1.51	.974
2.	.25	532	1.51	.976
3.	.23	532	1.51	.977
4.	.23	532	1.51	.978
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 .660 xxxxxxxxxxxx
Specific Gravity Flowing Fluid xxxxx .660
Critical Pressure 656.2 PSIA 656.2 PSIA
Critical Temperature 352.7°R 352.7°R

Pc 1022.2 Pc^2 1044.9

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	927.8	963.5	928.2	116.7
2.	908.6	953.6	909.3	135.6
3.	870.9	933.7	871.7	173.2
4.	854.1	924.7	855.1	189.7
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2} = 5.4797$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 3.4980$

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n =$ 1005 Mcfd

Absolute Open Flow 1005 Mcfd @ 15.025 | Angle of Slope, θ 36 | Slope, n .736

Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Andrea Carpenter	Checked By: