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

RECEIVED 3Y
Form C-122
JUL 09 1984
O. C. D.
ARTESIA, OFFICE

Type Test [X] Initial [] Annual [] Special		Test Date 5/10/84	
Company Yates Petroleum Corporation		Connection Transwestern Pipeline Company	
Pool Fecos Slope		Formation Rbo	
Completion Date 10/22/83		Total Depth 4980.0'	Plug Back TD 4800.0'
Csg Size Wt. 4.500" 9.500#		d 4.050"	Set Rt 4377.0'
Tbg Size Wt. 2.375" 4.700#		d 1.995"	Set Rt 4478.0'
Type Well Single		Packer Set Rt 4478.0'	
Producing Thru Tubing		Rest. Temp. °F 102 @ 4478'	Heat Temp. °F 62.0
L 4478.0'		H 4478.0'	Gg .643
M2 .03		M2S 5.32	M2S 0.00
Prover 0.000"		Meter Run 2.000'	Taps Flange
FARM OR LEASE NAME Nortex "WN" State			
WELL NO. 1			
UNIT SEC TWP RGE C 22 9S 2E5			
COUNTY Chaves			
STATE New Mexico			
FLOW DATA			
NO	Prover Orifice Size X Size	Press. psig	Diff. In. Hg
1.	2.067 X 1.250	238	10.1
2.	2.067 X 1.250	275	13.7
3.	2.067 X 1.250	265	26.7
4.	2.067 X 1.250	358	42.0
5.	0.000 X 0.000	0	0.0
TUBING DATA			
NO	Press. psig	Temp. °F	Duration of Flow
1.	1015	69	0 hrs.
2.	942	62	24 hrs.
3.	919	62	24 hrs.
4.	875	62	24 hrs.
5.	810	62	24 hrs.
Casing DATA			
NO	Press. psig	Temp. °F	Duration of Flow
1.	0	0	0 hrs.
2.	0	0	24 hrs.
3.	0	0	24 hrs.
4.	0	0	24 hrs.
5.	0	0	0 hrs.
RATE OF FLOW CALCULATIONS			
NO	Coefficient (24 HOUR)	Pressure Pa	Flow Temp Factor Ft.
1.	8.134	54.42	.991
2.	8.134	62.84	.991
3.	8.134	86.19	.991
4.	8.134	111.69	.991
5.	0.000	0.00	0.000
Gravity Factor Fg			
NO	Factor	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	1.247	1.023	560
2.	1.247	1.022	646
3.	1.247	1.021	885
4.	1.247	1.021	1147
5.	0.000	0.000	0
Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.			
NO	Pr	Temp. °R	Tr
1.	.44	529	1.49
2.	.44	529	1.49
3.	.42	529	1.49
4.	.41	529	1.49
5.	0.00	0	0.00
R.P.I. Gravity of Liquid Hydrocarbons 0.800 Deg.			
Specific Gravity Separator Gas .643			
Specific Gravity Flowing Fluid .643			
Critical Pressure 661.7 PSIA			
Critical Temperature 355.2°R			
Pc 1028.2 Pc2 1057.2			
NO	Pt2	Pw2	Pw2
1.	912.4	957.5	916.9
2.	869.0	935.4	875.0
3.	738.9	894.6	800.2
4.	677.7	834.8	696.9
5.	0.0	0.0	0.0
ROF = 0 [$\frac{Pc2}{Pc2-Pw2}$] ⁿ = 2597 Mcfd			
Absolute Open Flow 2597 Mcfd @ 15.025			
Angle of Slope, 6 37 Slope, n .700			
Remarks:			
Approved By:		Conducted By: David Weaver	Calculated By: Andie Carpenter
		Checked By:	

Adopted 9-1-65

DATE 7/5/84

COMPANY Yates Petroleum Corporation LEASE context "WN" State WELL NO. 1

LOCATION: Unit C Section 22 Township 9S Range 26E

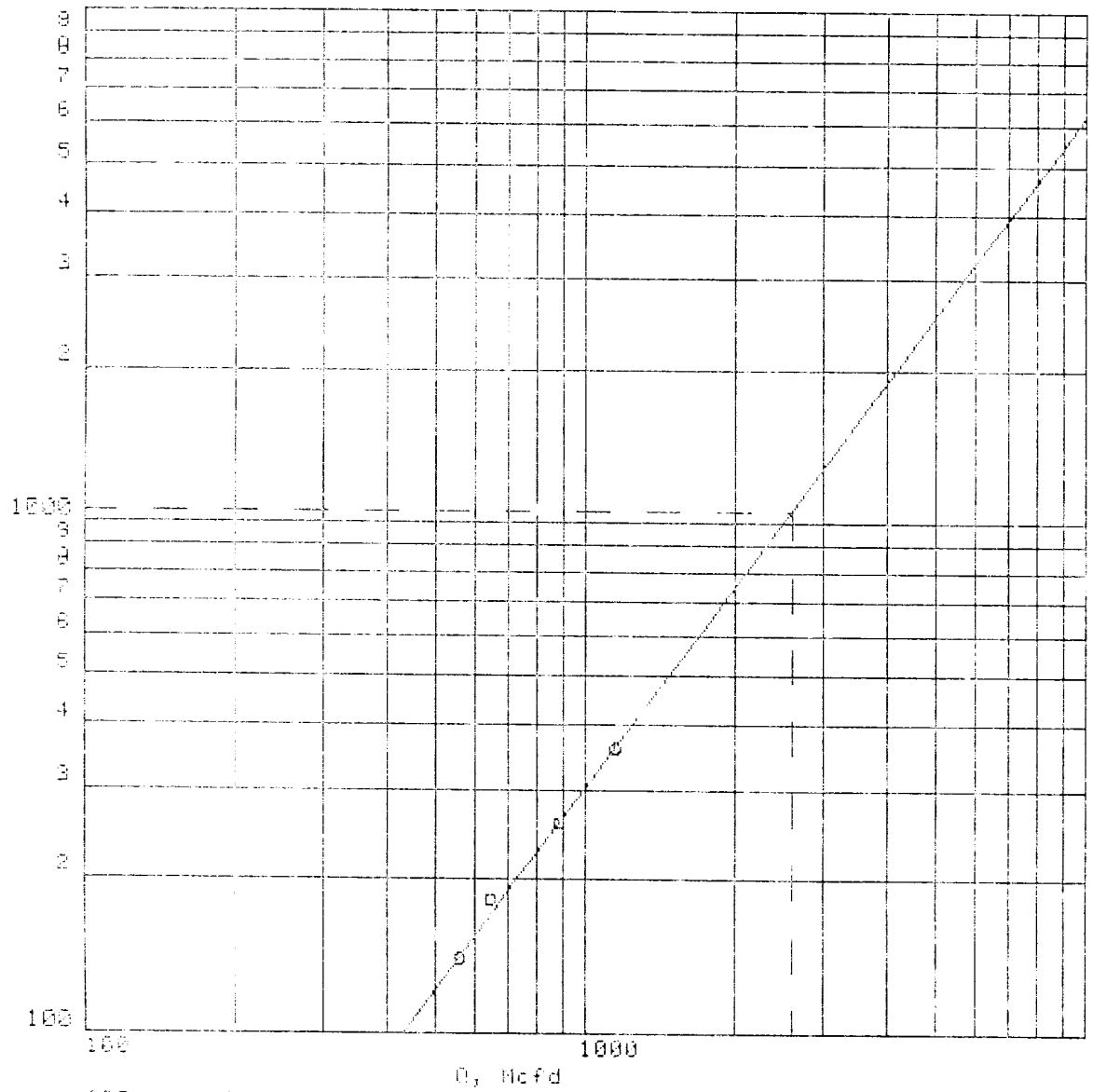
L 4473.0 H 4473.0 L/H 1.000 G .043 XCO₂ .02 %H₂ 5.32 %H₂S 0.00

d 1.995 Pr .017777 GH 2879.4 Per 561.7 Tcr 355.2

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.030	.046	.035	1.147	0.000
2 Tw(Q,H,PR)	522.0	522.0	522.0	522.0	0.0
3 Ts(B,H,PR)	562.0	562.0	562.0	562.0	0.0
4 T=(10+Ts)/2	542.0	542.0	542.0	542.0	0.0
5 Z(Est.)	.866	.868	.874	.882	0.000
6 TZ	460.1	470.6	473.5	477.9	0.0
7 GH/TZ	6.133	6.118	6.081	6.025	0.000
8 e ^{-Z} (Table XIV)	1.258	1.258	1.256	1.253	0.000
9 1-e ^{-Z} (Table XIV)	.205	.205	.204	.202	0.000
10 Pt	955.2	962.2	968.2	973.2	0.0
11 Pt2=1000	910.4	869.0	788.9	677.7	0.0
12 Pr(Table IV)	.017777	.017777	.017777	.017777	0.000000
13 Pc=PrTZ	8.348	8.367	8.425	8.501	0.000
14 PcQm	4.672	3.404	7.459	9.748	0.000
15 L/H(PcQm) ²	21.329	23.207	55.633	95.020	0.000
16 Fu=L/H(PcQm) ² (1-e ^{-Z})	4.484	5.988	11.334	19.204	0.000
17 Pw2=Pt2+Fu	916.9	875.0	800.2	696.9	0.0
18 Ps2=e ^{-Z} Pw2	1153.0	1108.6	1000.0	873.4	0.0
19 Ps	1074.2	1043.1	1002.5	934.5	0.0
20 P=(Pt+Ps)/2	1014.7	990.7	945.3	878.9	0.0
21 Pr=(P/Per)	1.53	1.50	1.43	1.33	0.00
22 Tr=(T/Tcr)	1.53	1.53	1.53	1.53	0.00
23 Z(Table XI)	.866	.868	.874	.882	0.000

Company	Yates Petroleum Corporation
Well	Bortex "HH" State No. 1
Location	O. 22-9S-26E
County	Chaves
Date	7/5/84

$P_0^2 - P_w^2$, THOUSANDS



ACF= 2597