

NEW XICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL - C-22

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/19/78		NOV 17 1978	
Company Inexco Oil Company				Connection N/A		O.C.C. ARTESIA, OFFICE	
Pool West Indian Basin Morrow				Formation Morrow		Unit	
Completion Date 10/16/78		Total Depth 9950'		Plug Back TD 9757'		Elevation 4220 KB	
Csg. Size 5-1/2		Wt. 17#		Set At 4.892		Perforations: From 9107 To 9126	
Tbg. Size 2.875		Wt. 6.5		Set At 2.441		Perforations: From --- To ---	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At 8945		County Eddy	
Producing Thru tubing		Reservoir Temp. °F 163° 9100		Mean Annual Temp. °F 76°F		Baro. Press. - P _a 13.25	
L 9116		H 9116		Gg .643		% CO ₂ 3.66	
				% N ₂ 5.59		% H ₂ S -0-	
				Prover -0-		Meter Run 2.9	
						Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							2650	85			17 hrs.
1.	2.90 x 1.250			380	75	89	850	90	-0-	-----	.8 "
2.	2.90 x 1.250			300	70	90	1100	89	-0-	-----	.7 "
3.	2.90 x 1.250			200	70	60	1400	86	-0-	-----	.7 "
4.	2.90 x 1.250			200	45	61	1600	85	-0-	-----	.8 "
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	7.61	171.74	393.2	.9732	1.2469	1.0261	1628
2	7.61	148.08	313.2	.9723	1.2469	1.0207	1395
3	7.61	122.18	213.2	1.0000	1.2469	1.0174	1180
4	7.61	97.96	213.2	.9990	1.2469	1.0172	945
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.58	549	1.57	.950			.643		677	351
2.	.46	550	1.57	.960						
3.	.32	520	1.48	.966						
4.	.32	521	1.49	.966						
5.										

NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²
1		919	844	6126
2		1139	1297	5674
3		1420	2017	4953
4		1609	2590	4381
5				

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.1378$

AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1853$

(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.1378$

Absolute Open Flow	1853	Mcfd @ 15.025	Angle of Slope °	45.0	Slope, n	1.000
--------------------	------	---------------	------------------	------	----------	-------

Remarks:

Approved By Commission:	Conducted By: Kent Leavitt-GSM	Calculated By: Garrett Computer Systems	Checked By: R. E. Valentine
-------------------------	-----------------------------------	---	--------------------------------

RECEIVED

APR 13 1979

O.C.C.
ARTERIA, OFFICE

Eddy County, N.M.
Sec. 23, T-21S, R-22E
Majoros Federal
No. 2Y-I
West Indian Basin

10,000

1,000

Pf²-Ps²
1,000

LOGARITHMIC
CYCLES X 10³

100

100

2

3

4

5

6

7

8

1,000

2

3

4

5

6

7

8

10,000

2

3

4

5

6

7

8

100,000

Q-MCF/D