1-D-1
1-File
1-C-122 File

EW MEXICO OIL CONSERVATION CO SSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
MAR 21 1978
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 2-3-78

Company: Yates Petroleum Corporation — Connection: El Paso Natural Gas Co.

Pool: ~~Penasco Draw Permo Penn~~ Wildcat — Formation: Cisco — Unit:

Completion Date: 10-21-77 — Total Depth: 8750' — Plug Back TD: 7000' — Elevation: 3593' KB — Farm or Lease Name: La Cama Com

Csg. Size	Wt.	d	Set At	Perforations	Well No.
4½"	10.5#	4.052	7000'	From 6919 To 6954'	1

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
2-3/8"	4.7#	1.995	6867'	From To	F	20	18S	25E

Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single — Packer Set At: 6867' — County: Eddy

Producing Thru: tubing — Reservoir Temp. °F: 126 @ 6936 — Mean Annual Temp. °F: 62 — Baro. Press. – P_a: 13.2 — State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6924	6924	0.730	0.55	0.24			4"	Flange

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							1840	43			months
1.	4.026	x	1.250	580	16	68	1720	48			1 hour
2.				582	28	68	1656	52			1 hour
3.				583	46	68	1564	55			1 hour
4.				584	64	68	1472	58			1 hour
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	7.469	97.423	593.2	.9924	1.199	1.0697	926
2.	7.469	129.095	595.2	.9924	1.199	1.0698	1227
3.	7.469	165.606	596.2	.9924	1.199	1.0700	1575
4.	7.469	195.501	597.2	.9924	1.199	1.0700	1859
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.884	528	1.357	.8740
2.	0.887	528	1.357	.8737
3.	0.889	528	1.357	.8735
4.	0.890	528	1.357	.8734
5.				

Gas Liquid Hydrocarbon Ratio: 84.97 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 56.5 Deg.
Specific Gravity Separator Gas: 0.696 — xxxxxxxxx
Specific Gravity Flowing Fluid: xxxxx — 0.730
Critical Pressure: 671 P.S.I.A. — 670 P.S.I.A.
Critical Temperature: 389 R — 400 R

P_c 2402 P_c^2 5769

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			5063	706
2			4669	1100
3			4163	1606
4			3700	2069
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.7883$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.9623$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3648$ MCFPD

Absolute Open Flow: 3648 Mcfd @ 15.025 — Angle of Slope θ: 56° 40' — Slope, n: 0.6574

Remarks: Pressures by DWT. Calculations worksheet C-112D attached.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Don Weaver	Eddie M. Mahfood	