

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

Form C-122
Revised 9-1-65

C/52

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-16-82			
Company TXO PRODUCTION COMPANY				Location EL PASO				Date AUG 24 1982	
Pool Cataclaw Draw <i>Morrow</i>				Morrow				Unit C. C. C.	
Completion Date 4-17-82		Total Depth 10,860		One Point Back ID 10,642		Elevation 3272.8 GL.		Form/Less Name Cataclaw Draw State Com	
Csg. Size 4 1/2"	Wt. 11.6	d 4.000	Set At 10,860	Perforations: From 10,604 To 10,626				Well No. 2	
Tbg. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 10,519	Perforations: From Open-To-Ended				Unit Sec. Twp. Rge. H 18 21S 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 10519		County Eddy			
Producing Thru Tubing		Reservoir Temp. °F 182°@ 10,615'		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State N.M.	
L 10519	H 10519	Gg .5966	% CO ₂ .905	% N ₂ .319	% H ₂ S	Prover	Meter Run 4.025	Taps	

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							2876		PKR	CHOKE	24 Hr.
1.	4.026"	X	1.500	449#	1"	76°	2846	60°		7/64	1 Hr.
2.	4.026"	X	1.500	422	15"	60	2775	60		8/64	1 Hr.
3.	4.026"	X	1.500	422	27"	49	2696	60		10/64	1 Hr.
4.	4.026"	X	1.500	422	53"	34	2589	60		12/64	1 Hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	21.5	462.2	.9850	1.295	1.036	308
2	10.84	80.8	435.2	1.000	1.295	1.039	1178
3	10.84	108.4	435.2	1.011	1.295	1.039	1598
4	10.84	151.9	435.2	1.026	1.295	1.044	2284
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/lbl.
1	.684	536	1.52	.932	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.644	520	1.47	.927	Specific Gravity Separator Gas .5966 X X X X X X X X
3	.644	509	1.44	.927	Specific Gravity Flowing Fluid X X X X X
4	.644	494	1.40	.918	Critical Pressure 676 P.S.I.A. P.S.I.A.
5					Critical Temperature 353 °R °R

NO.	P _c 2889.2	P _c 2 8347.48	P _w	P _w 2	P _c 2 - P _w 2
1			2859.2	8175.02	172.6
2			2788.2	7774.06	573.4
3			2709.2	7339.76	1007.7
4			2602.2	6771.44	1576.0
5					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 5.30$$

$$A.P.F. = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9342$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.09$$

Absolute Open Flow	9342	Mcf/d @ 15.025	Angle of Slope θ	51° 45'	Slope, n	.845
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Remarks: Calculated from known bottom hole pressure.

Approved By Commission:	Conducted By: Jack Walker	Calculated By: Jack Walker	Checked By: Mike Kilcoyne
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