

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI POINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

dsr. file
Form C-12
Revised 1-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-7-89		AUG 16 '89	
Company TXO Production Company						Connection Transwestern		O. C. D.	
Pool Burton Flat, East <i>Strawn</i>						Formation Strawn		ARTESIA, OFFICE	
Completion Date		Total Depth 11,690		Plug Back TD 11,185		Elevation 3265 GL		Farm or Lease Name Yates Federal	
Csg. Size 4 1/2	Wt. 11.6#	d 4.000"	Set At 11690	Perforations: From 10446 To 10576		Well No. 4			
Tbg. Size 2 3/8	Wt. 4.7#	d 1.995"	Set At 10360	Perforations: From open To end		Unit H		Sec. 17 1/2	Twp. 20S
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single						Packer Set At 10360		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 179 @ 10511		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NM	
L *10511	H 10511	Gg .664	% CO ₂ .27	% N ₂ .30	% H ₂ S 0	Prover	Meter Run 2.067	Taps Flg.	

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							1489		pkc		48 hr.
1.	2	x	.875	400	9.00	60°	1440		pkc		1 hr.
2.	2	x	.875	400	30.00	55°	1344		pkc		1 hr.
3.	2	x	.875	410	54.00	52°	1215		pkc		1 hr.
4.	2	x	.875	410	95.00	46°	890		pkc		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	3.729	60.98	413.2	1.000	1.227	1.048	292
2	3.729	111.34	413.2	1.005	1.227	1.048	537
3	3.729	151.17	423.2	1.008	1.227	1.049	731
4	3.729	200.51	423.2	1.014	1.227	1.056	982
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
					dry gas		.664		670	378
1.	.61	520	1.37	.911						
2.	.61	515	1.36	.911						
3.	.63	512	1.35	.908						
4.	.63	506	1.33	.896						
5.										

** P_c 1570.9 P_c² 2467.7

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		1514.5	2293.7	174.0
2		1432.2	2051.2	416.5
3		1329.4	1767.3	700.4
4		1122.0	1258.9	1208.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.041$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.552$

Post IO-2 8-25-89 comp str.

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.524$

Absolute Open Flow 1.524 Mcfd @ 15.025	Angle of Slope 58.4	Slope, n .616
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Remarks: * = BHP set @ this point
cal. from known bottom hole pressure

** = cal. from known BHP BHP's obtained by Amerada type RPG 3 Instr.

Approved By Commission:	Conducted By: B.T.	Calculated By: B.M.	Checked By: B.M.
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