

NE MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST OR GAS WELL

Form C-122
Revised 9-1-65

File

RECEIVED BY

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7-9-86		JUL 22 1986 O.C.D. ARTIFICIAL LIFT		
Company TXO Production Co.					Connection Llano				
Pool Carlsbad, East <i>Wolfcamp</i>					Formation Wolfcamp		Unit		
Completion Date 3-8-86		Total Depth 11,915		Plug Back TD 11,465'		Elevation 3082.3 Gr.		Farm or Lease Name Delta Fee	
Csg. Size 4 1/2"		Wt. 11.6#		d 4.000		Set At 11,915		Perforations: From 9700' To 9745'	
Thg. Size 2 3/8"		Wt. 4.6		d 1.995		Set At 9603'		Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At 9603'		County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 178° @ 9723'		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State N.M.	
L 9723		H 9723		Gg .673		% CO ₂ .079		% N ₂ .661	
						% H ₂ S		Prover	
								Meter Run 3"	
								Taps Flange	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							3132		PKR	CHOKE	24 Hrs.
1.	3	X	1.250	615	2.25	88°	2882			6/64	1 Hr.
2.	3	X	1.250	616	5.29	81	2673			8/64	1 Hr.
3.	3	X	1.250	616	9.61	79	2557			10/64	1 Hr.
4.	3	X	1.250	617	27.04	66	2422			12/64	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	7.577	57.60	628.2	.9741	1.219	1.065	360
2	7.577	57.69	629.2	.9804	1.219	1.065	556
3	7.577	77.76	629.2	.9822	1.219	1.065	751
4	7.577	130.54	630.2	.9943	1.219	1.076	1.290
5							

NO.	R _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio 7.7 Mcf/bbl.			
1	.94	548	1.43	.882	A.P.I. Gravity of Liquid Hydrocarbons 54.6 @ 60° Deg.			
2	.94	541	1.42	.882	Specific Gravity Separator Gas .673 XXXXXXXXXX			
3	.94	539	1.41	.882	Specific Gravity Flowing Fluid XXXXXX			
4	.94	526	1.38	.864	Critical Pressure 669 P.S.I.A. P.S.I.A.			
5					Critical Temperature 382 °R °R			

NO.	P _c ²	P _w ²	R _w ²	P _c ² - R _w ²	$(1) \frac{P_c^2}{P_c^2 - R_w^2} = 3.833$ $(2) \left[\frac{R_c^2}{R_c^2 - R_w^2} \right]^n = 2.914$ Post ID-2 8-1-86 comp + BK
1	4515.2	3467.7	12025.2	538	
2	4426.2	3380.8	11430.0	1133.2	
3	4325.2	3266.5	10670.0	1893.2	
4	4191.2	3047.2	9285.2	3277.9	
5	3931.2				

Absolute Open Flow 3.759 Mcfd @ 15.025		Angle of Slope @ .796		Slope, n 51.	
Remarks: Made 16.0 Bbls Oil during Test. Calculated from known BHP.'S.					
Vented 125.2 Mcf/Day during Test.					
Approved By Commission:		Conducted By: W.S.		Calculated By: B.M.	
				Checked By: B.M.	