

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 09-19-90	
Company: TXO Production Corp.				Connection:			
Well: Quail Ridge				Formation: Morrow		Unit:	
Completion Date: 09-14-90		Total Depth: 13,690'		Plug Back TD: 13,679		Elevation: 3614 GR	
Form or Lease Name: Hamon Fed. Com. "A"							
Well No.: 1							
Casing Size: 5 1/2"		Wt.: 17		Set At: 13,690'		Perforations: From 13,547 To 13,636	
Tub. Size: 2 7/8"		Wt.: 6.5		Set At: 13,465'		Perforations: From OPEN To END	
Type Well - Single - Borehole - G.G. or G.O. Multiple: Single				Packer Set At: 13,465'		County: Lea	
Producing Thru: Tbg.		Reservoir Temp. °F: 210 @ 13,592		Mean Annual Temp. °F: 60		Bore. Press. - P _g : 13.2	
L: *13,592		H: 13,592		C _g : .666		State: New Mexico	
				% CO ₂ : .64		Prover: 4.026	
				% N ₂ : .45		Taps: Flg.	
				% H ₂ S: -----			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Casing Size	Press. p.s.i.g.	Oil, lb	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							4320		PKR		24 hrs.
1.	4	X	2.125	670	5.06	66	3801		PKR		45 mins.
2.	4	X	2.125	691	7.84	56	3590		PKR		45 mins.
3.	4	X	2.125	733	16.00	64	3378		PKR		45 mins.
4.	4	X	2.125	722	26.01	59	3176		PKR		45 mins.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P_R}$	Pressure P _m	Flow Temp. Factor Fl.	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mhd
1	22.60	58.80	683.2	.9943	1.225	1.081	1.750
2	22.60	74.30	704.2	1.004	1.225	1.085	2.241
3	22.60	109.27	746.2	.9962	1.225	1.090	3.285
4	22.60	138.28	735.2	1.001	1.225	1.089	4.173
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.	1.01	526	1.39	.855	12.8	51.8 @ 60°	.666	XXXXXX	670	378
2.	1.05	516	1.36	.849						
3.	1.11	524	1.38	.841						
4.	1.09	519	1.37	.843						
5.										

NO.	P ₁	P ₂	P ₃	P ₄	P ₅	P ₆	P ₇	P ₈	P ₉	P ₁₀
1	4417.8	19517.0	4464.8							
2	4184.3	17508.4	6673.4							
3	3981.1	15849.2	8332.6							
4	3835.3	14709.5	9472.3							
5										

Absolute Open Flow		Angle of Slope	
10.654	Mhd @ 15.023	45	Slope, n 1.000

* = BHP INSTR. SET AT THIS DEPTH

REMARKS: WELL MADE 28.0 BBLs. 51.8 API GR. CONDENSATE DURING TEST

Approved By Division	Conducted By: Pro Well Testers	Calculated By: BM	Checked By: BM
----------------------	--------------------------------	-------------------	----------------

SEP 26 1990

SEP 26 1990

CLERK
INLAND OFFICE