

d/s
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6-13-90	
Company TXO PRODUCTION CO.				Connection VENTED TO AIR		
Pool BURTON FLAT, East				Formation STRAWN		Unit
Completion Date 6/2/90		Total Depth 11675' MD 10874' TVD		Plug Back TO 11668' MD 10867' TVD		Elevation 3301 GL
Form or Lease Name BURTON FLAT FED.						Well No. 1
Csg. Size 4 1/2	Wt. 11.6 #	d 4,000	Set At 11675	Perforations: From 11322 To 11609		
Tbg. Size 2 3/8	Wt. 4.7	d 1,995	Set At 11272	Perforations: From OPEN To END		Unit Sec. Twp. Rge. N 11 20S 29E
Type Well - Single - Brownhead - G.C. or G.O. Multiple SINGLE				Packer Set At 11274		County EDDY
Producing Thru TBG		Reservoir Temp. °F 189 @ 11466		Mean Annual Temp. °F 60°		State N.M.
L *11466	H *11466	Cg .728	% CO ₂ .46	% N ₂ 1.15	% H ₂ S -	Prover 2"
Meter Run			Taps			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover X Flow X	X	Orifice Size	Press. p.s.i.g.	Diff. In.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							2690		PKR		48 HRS
1.	2 X .500			48		78	1960		"		1 HR
2.	2 X .750			50		75	1820		"		1 HR
3.	2 X 1.000			76		72	1610		"		1 HR
4.	2 X 1.250			58		70	1583		"		1 HR
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_p P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	4.279		61.2	.9831	1.172	1.022	308
2	9.453		63.2	.9859	1.172	1.022	706
3	17.09		89.2	.9887	1.172	1.020	1,802
4	27.63		71.2	.9905	1.172	1.022	2,334
5.							

NO.	R ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	5.35	Mcft/bbl.
1.	.09	538	1.36	.957	A.P.L. Gravity of Liquid Hydrocarbons	53.1 @60	Deg.
2.	.09	535	1.35	.957	Specific Gravity Separator Gas	.728	XXXXXXX
3.	.13	532	1.34	.962	Specific Gravity Flowing Fluid	XXXXX	
4.	.10	530	1.34	.958	Critical Pressure	**667	P.S.I.A.
5.					Critical Temperature	**395	R

NO.	P ₁ ²	P _w ²	P ₂ ²	P ₁ ² - P _w ²	(1) $\frac{P_c^2}{P_1^2 - P_w^2} = 2.937$	(2) $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 2.937$
1		2425.4	5882.5	2236.0	$AOF = Q \left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 6.855$	<i>Post ID-2 7-6-90 comp & BK</i>
2		2323.3	5397.7	2720.8		
3		2257.6	5096.8	3021.7		
4		2314.0	5354.6	2763.9		
5						

Absolute Open Flow	6,855	Mcf/d @ 15.025	Angle of Slope @	45	Slope, n	1.000
Remarks: * = BHP INSTRUMENT SET @ THIS DEPTH-						
** = CORRECTED TO 1.15% N ₂						
TEST CALCULATED FROM KNOW BNPS RUN WITH AMERADA RPG-3						
Approved By Division	Conducted By: JOHN WEST		Calculated By: BM		Checked By: BM	

WELL MADE 42.4 BBLS CONDENSATE DURING TEST