

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date APR 10 1991	
Company Oxy U.S.A.				Connection			
Pool <i>Wildcat U.Penn</i>				Formation Cisco		Unit O. C. D.	
Completion Date 01-08-91		Total Depth 8370		Plug Back TD 7302		Form or Lease Name Little Box Canyon	
Coq. Size 5 1/2	Wt. d	Set At 8370	Perforations: From 5858 To 5999		Well No. 2		
Tub. Size 2 7/8	Wt. 6.5	d 2.441	Set At 5812	Perforations: From OPEN To END		Unit Sec. Twp. Rge. 12 21S 21E	
Type Well - Single - Broadhead - G.C. or G.O. Multiple Single				Packer Set At 15803		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 133 @ 5929		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L * 5929		H * 5929		C _g .649		% CO ₂ 0.51	
				% N ₂ 1.70		% H ₂ S 0	
				Prover		Meter Run 3.068	
						Taps Flange	

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							1198		PKR		72 hrs.
1.	3	X	1.000	95	8.00	45	1138		PKR		1 hr.
2.	3	X	1.000	95	18.00	45	1075		PKR		1 hr.
3.	3	X	1.000	95	40.00	50	975		PKR		1 hr.
4.	3	X	1.000	95	80.00	52	781		PKR		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h/P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcd
1	4.789	29.42	108.2	1.015	1.241	1.012	180
2	4.789	44.13	108.2	1.015	1.241	1.012	269
3	4.789	65.79	108.2	1.010	1.241	1.012	400
4	4.789	93.04	108.2	1.008	1.241	1.012	564
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcft/bbl.
1.	.16	505	1.37	.976	DRY GAS	
2.	.16	505	1.37	.976	DRY	
3.	.16	510	1.39	.976		
4.	.16	512	1.39	.976		
5.						

NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²
1		1182.7	1398.8	173.2	
2		1114.1	1241.2	330.8	
3		1009.9	1019.9	552.1	
4		814.9	664.1	907.9	
5					

$(1) \frac{P_t^2}{P_t^2 - P_w^2} = 1.732$		$(2) \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.494$	
$AOF = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = .843$			

Absolute Open Flow	843	Mcd @ 15.025	Angle of Slope @	53.8	Slope, n	.731
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Remarks: *=BHP Instrument set @ this depth.
**=corrected to 1.70% N₂

Well did not produce any fluid

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