

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-11-78		AUG 22 1978	
Company COMMANCHE OIL & GAS CO. ✓				Connection Air				Unit D.C.C.	
Pool Sams Ranch A1				Formation Grayburg				Unit ANTENIA, OFFICE	
Completion Date 7-11-78		Total Depth 1853		Plug Back TD		Elevation 3600.3 ft		Form or Lease Name Federal "14"	
Csg. Size 5 1/2	Wt. 15.5	d	Set At 1818	Perforations From 1818 - To 1853 open - hole		Well No. 1		Unit K	
Tub. Size 2 3/8	Wt. 4.6	d	Set At 1850	Perforations From To		Unit K		Sec. Twp. Rge. 14 14 28	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single						Packer Set At		County Chaves	
Producing Thru Tbg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .734 (Assumed)	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 6" choke	Taps nipple	

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
51							1017		1017		72 hrs.
1.	6	x	8/64	918		75	918		918		1 hr.
2.	6	x	9/64	875		74	875		878		1 hr.
3.	6	x	10/64	806		74	806		808		1 hr.
4.	6	x	11/64	776		74	776		778		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow O. M/d
1	.2618		931.2	.9859	1.167	1.124	315
2	.3346		888.2	.9868	1.167	1.117	382
3	.4173		819.2	.9868	1.167	1.108	436
4	.5090		789.2	.9868	1.167	1.103	510
5							

NO.	P _t	Temp. °F	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	1.39	535	1.33	.792			.734		668	401
2	1.33	534	1.33	.801						
3	1.23	534	1.33	.815						
4	1.18	534	1.33	.822						
5										

NO.	P _t	P _w	P _w	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1	1030.2	1061.3			2.438	1.702
1		931.2	867.1	194.2		
2		891.2	794.2	267.1		
3		821.2	674.4	386.9		
4		791.2	626.0	435.3		
5						

Initial Open Flow	868	Md @ 15.025	Angle of Slope θ	59.25°	Slope, n	.597
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Remarks:			
Approved By Commission:	Conducted By: Marshall Morris	Calculated By: Rick Pagan	Checked By: