

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-6-74			
Company David Fasken				Connection None				APR 4 - 1974	
Pool Undesignated				Formation Canyon				Unit O.C.C. ARTESIA, OFFICE	
Completion Date 2-14-74		Total Depth 11170		Plug Back TD 10600		Elevation 3198.9 Gr		Farm or Lease Name El Paso ¹⁰⁴ Federal	
Coq. Size 5 1/2	Wt. 20# 17#	d 4.778 4.892	Set At 10993	Perforations: From 9515 To 9542		Well No. 2			
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 9379	Perforations: From To		Unit M 2		Sec. 21S	Rge. 26E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 9379		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 166 @ 9329		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State New Mexico	
L .9529	H 9529	Gg 0.690	% CO ₂	% N ₂	% H ₂ S	Prover Pos ck	Meter Run	Taps	

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				2688			2688	70	Pkr		
1.	2"	X	1/8"	2581		63	2581	63	"		1 hr.
2.	2"	X	5/32"	2225		68	2225	68	"		1 hr.
3.	2"	X	11/64"	1968		68	1968	68	"		1 hr.
4.	2"	X	13/64"	1821		69	1821	69	"		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 Q, Mc/d
1	0.2618		2594.2	0.9971	1.204	1.211	987.4
2	0.4173		2238.2	0.9924	1.204	1.216	1357.0
3	0.5090		1981.2	0.9924	1.204	1.217	1466.4
4	0.7208		1834.2	0.9915	1.204	1.211	1911.3
5							

NO.	P _t	Temp. °R	T _t	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	Used simplified				Trace	Trace	0.690	X X X X X X X X		
2	supercompressibility tables							X X X X X		
3									669	P.S.I.A.
4									388	R
5										

P _f 3754.2 P _f ² 14094				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \text{_____}$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \text{_____}$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \text{_____}$	
NO.	P _t ²	P _s	P _s ²	P _f ² - P _s ²	
1		3668.2	13456	638	
2		3359.2	11284	2810	
3		3082.2	9500	4594	
4		2787.2	7768	6326	
5					

Absolute Open Flow 3900 Mc/d @ 15.025		Angle of Slope @ 45° 22'	Slope, n 0.85824
Remarks: Bottom hole pressure measured with Amerada RPG-3 gauge			
Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: R. Buckbee	Checked By: