

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

RECEIVED
Form 1-122
Revised 9-1-65

JAN 3 1974

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-5-73		O. C. C.		
Company David Fasken				Connection				ARTEBIA, OFFICE	
Pool Indian Basin (Morrow)				Formation Morrow				Unit	
Completion Date 10-1-73		Total Depth 9880		Plug Back TD 9774		Elevation 3723 KB		Farm or Lease Name Cameron "31" Federal	
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 9821	Perforations: From 9560 To 9626			Well No. 1		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 9399	Perforations: From To			Unit J	Sec. Twp. Rye. 31 20S 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 9399		County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 178 @ 9343		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State New Mexico	
L 9593	H 9593	Gg 0.600	% 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	Positive Choke			2983.2							
1.	2"	x	8/64"	2946.2		70	2933	70			45 min.
2.	2"	x	10/64"	2914.2		70	2901	70			45 min.
3.	2"	x	13/64"	2807.2		70	2794	70			60 min.
4.	2"	x	16/64"	2702.2		70	2689	70			60 min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	0.2618		2946.2	0.9905	1.291	1.129	1113.5
2	0.4173		2914.2	0.9905	1.291	1.129	1755.6
3	0.7208		2807.2	0.9905	1.291	1.132	2928.9
4	1.1120		2702.2	0.9905	1.291	1.134	4357.2
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	Used Simplified				Specific Gravity Separator Gas	XXXXXXX	
3.	Supercompressibility				Specific Gravity Flowing Fluid	XXXXX	
4.	Tables				Critical Pressure 671	P.S.I.A.	P.S.I.A.
5.					Critical Temperature 358	R	R

P _f 3756.2 P _c 14109			
NO.	P _i ²	P _c	P _f ² - P _c ²
1		3712.2	13780
2		3674.2	13500
3		3583.2	12839
4		3463.2	11994
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \text{_____}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \text{_____}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \text{_____}$$

Absolute Open Flow	17,000	Mcf/d @ 15.025	Angle of Slope @	54° 03'	Slope, n	0.72530
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Remarks: Bottom hole pressure measured with Amerada RPG-3 gauge.

Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: F. Tefteller	Checked By:
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