

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

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file
Form C-122
Revised 6-1-79
+ 2-132
file

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-6-81		DEC 11 1981	
Company David Fasken ✓				Connection Not connected				O. C. D.	
Pool Avalon (Morrow)				Formation Morrow				Unit: ARTESIA, OFFICE	
Completion Date 10-29-81		Total Depth 11191'		Plug Back To 11131'		Elevation 3219 KB		Farm or Lease Name El Paso Federal	
Co. Size 4 1/2	Wt. 11.60	d 4.000	Set At 11190	Perforations: From 10882 To 10992		Well No. 7			
Tbg. Size 2 3/8	Wt. 4.70	d 1.995	Set At 10580	Perforations: From To		Unit Sec. Twp. Rge. E 2 21S 26E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single gas						Packer Set At 10580		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 189 @ 11010		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State New Mexico	
L 10937	H 10937	Gg 0.593	% CO ₂ 0.86	% N ₂ 0.23	% H ₂ S Nil	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	43 hours			3279			3279		Pkr.		
1.	2" X 4/64"			3232	-	70	3232	70	Pkr.	-	60 mins.
2.	2" X 7/64"			2967	-	79	2967	79	Pkr.	-	60 mins.
3.	2" X 12/64"			2122	-	77	2122	77	Pkr.	-	60 mins.
4.	2" X 22/64"			735	-	77	735	77	Pkr.	-	60 mins.
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	0.0604		3245.2	0.9905	1.299	1.116	281.5
2	0.1969		2980.2	0.9822	1.299	1.121	839.3
3	0.6101		2135.2	0.9840	1.299	1.130	1881.6
4	2.1620		748.2	0.9840	1.299	1.056	2183.4
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NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	4.83	530	1.50	0.803	Nil	
2	4.43	539	1.52	0.796		
3	3.18	537	1.52	0.783		
4	1.11	537	1.52	0.897		
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P _f 4214.2 P _f ² 17759 NO. P _s P _s ² P _f ² - P _s ²				Gas Liquid Hydrocarbon Ratio <u>Nil</u> Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons <u>-</u> Deg. Specific Gravity Separator Gas <u>0.593</u> X X X X X X X X Specific Gravity Flowing Fluid <u>672</u> X X X X X Critical Pressure <u>672</u> P.S.I.A. P.S.I.A. Critical Temperature <u>354</u> R R	
1	4158.2	17291	468	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.067697$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.038295$
2	3824.2	14625	3134	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2267.013$	
3	2774.2	7696	10063		
4	1061.2	1126	16633		
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Absolute Open Flow <u>2267.103</u> Mcfd @ 15.025		Angle of Slope <u>60.16°</u>	Slope, n <u>0.573703</u>
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Remarks: BHP measured with Amerada RPG-3 Gauge No. 9383, 0-6000 P.S.I. Range

Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: D. A. Warren, Jr.	Checked By:
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