

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

Casey 65 F
C-122

Form C-122
Revised 9-1-65

RECEIVED

JUL 17 1974

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special			Test Date 6-26-74								
Company David Fasken			Connection El Paso								
Pool Avalon Morrow <i>R.4861 10-9-74</i>			Formation Morrow								
Completion Date Sept. 11, 1973		Total Depth 11240		Plug Back TD 10945							
Elevation 3204 KB		Farm or Lease Name El Paso "3" Fed.									
Chq. Size 5.5	Wt. 17&20	d 4.892	Set At 4.778	Perforations: From 10708 To 10726							
Thq. Size 2 1/16"	Wt. 3.25	d 1.751	Set At 10650	Perforations: From OE To							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple GG Dual				Packer Set At 10650							
Producing Thru Tubing		Reservoir Temp. °F 180 ^a 10550		Mean Annual Temp. °F 70							
Baro. Press. - P _a 13.2		State New Mexico									
L 10717	H 10717	G _g 0.620	% CO ₂	% N ₂	% H ₂ S						
Prover		Meter Run X		Taps							
FLOW DATA			TUBING DATA		CASING DATA						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. L-10	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							3315		Pkr		
1.	4"	X	2"	595	1.0	78	3277	70	"		60 min.
2.	4"	X	2"	595	2.2	80	3138	70	"		60 min.
3.	4"	X	2"	611	3.4	72	2963	70	"		60 min.
4.	4"	X	2"	611	6.0	52	2441	70	"		60 min.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m L-10	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	19.81 x 3.162	7.80	7.8	0.9831	1.270	1.054	643.0				
2	19.81 x 3.162	17.16	7.8	0.9813	1.270	1.052	1409.2				
3	19.81 x 3.162	26.86	7.9	0.9887	1.270	1.055	2228.2				
4	19.81 x 3.162	47.40	7.9	1.0080	1.270	1.061	4032.8				
5											
NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio <u>166.667</u> Mcf/bbl.						
1					A.P.I. Gravity of Liquid Hydrocarbons <u>62°</u> API Deg.						
2.	Used simplified				Specific Gravity Separator Gas <u>0.620</u> X X X X X X X X						
3.	supercompressibility tables				Specific Gravity Flowing Fluid <u>X X X X X</u>						
4.					Critical Pressure <u>671</u> P.S.I.A. P.S.I.A.						
5.					Critical Temperature <u>365</u> R R						
P _f 4296.2 P _f ² 18457											
NO.	P _f ²	P _s	P _s ²	P _f ² - P _s ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____						
1		4245.2	18022	435	ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____						
2		4114.2	16927	1530							
3		3940.2	15525	2932							
4		3499.2	12244	6213							
5											
Absolute Open Flow <u>9300</u> Mcfd @ 15.025					Angle of Slope <u>52° 38'</u>			Slope, n <u>0.76343</u>			
Remarks: <u>BHP measured with Amerada RPG-3 gauge Ser. No. 9383N 0-6050</u>											
Approved By Commission:			Conducted By: Tefteller, Inc.			Calculated By: F. Tefteller			Checked By:		