

OK
File

RECEIVED

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date JAN 17 1990	
Company McCLELLAN OIL CORP.			Connection ENRON		
Pool W. Pecos Slope Abo			Formation ABO		Unit
Completion Date 6-22-87		Total Depth 3527	Plug Back TD 3510	Elevation 3917' GW	
Farm or Lease Name TOLES FED			Well No. 3		
Csg. Size 4-1/2	Wt. d	Set At TD	Perforations: From 3065 To 3295		Unit Sec. Twp. Rge. 15 8S 23E
Thg. Size 2-3/8	Wt. d	Set At 3030	Perforations: From OPEN To ENDED		
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE			Packer Set At NONE		County CHAVES
Producing Thru TUBING		Reservoir Temp. °F P	Mean Annual Temp. °F		State NEW MEXICO
L	H	Gg .64	% CO ₂	% N ₂	% H ₂ S
		Prover	Meter Run 2"		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
1.	2	x	.5	210		62	590		595		1 Hr.
2.	2	x	.5	220		62	565		571		"
3.	2	x	.5	200		62	530		538		"
4.	2	x	.5	200		62	462		471		"
5.							361		372		"

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, Mcfd
1.	1.189	39.53	223.2	.998	1.25	1.021	60
2.	1.189	74.81	233.2	.998	1.25	1.022	113
3.	1.189	120.13	253.2	.998	1.25	1.024	182
4.	1.189	162.40	293.2	.998	1.25	1.028	248
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 636 P _c ² 404.5				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		608	370	35
2.		570	324	80
3.		500	250	154
4.		393	154	250
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.62$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.41$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 350$$

McClellan Oil Corp

JAN 4, 1990

TOOLS FWD #3

$(P - P^2)_{\text{ex}} 467400$

P^2 407

LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

θ 54.5° n .71

Q
MSCFPD

