

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

RECEIVED
Form C-122
Revised 9-1-65

NOV 10 1982

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11/2/82		O. C. D. ARTESIA, OFFICE			
Company McClellan Oil Corp						Connection Air					
Pool Pecos Slope <i>H.W.</i>						Formation Abo				Unit	
Completion Date 10/30/82			Total Depth 4101		Plug Back TD 4052		Elevation 3797 Gr.		Farm or Lease Name MOC Fed		
Csg. Size 4 1/2	Wt. 10.5	d	Set At 4101	Perforations: From 3697 To 3841		Well No. 3					
Tub. Size 2 3/8	Wt. 4.7	d	Set At 3760	Perforations: From Open To Ended		Unit 0	Sec. 29	Twp. 5S	Rge. 25E		
Type Well - Single - Producers - G.C. or G.O. Multiple Single						Packer Set At None		County Chaves			
Producing Thru Tubing		Reservoir Temp. °F 98 @ 3770		Mean Annual Temp. °F 60		Baro. Press. - P ₀ 13.2		State New Mexico			
L	H	G _g .895	% CO ₂	% N ₂	% H ₂ S	Prover 2"	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	
51							1000	56	850		
1.	2	X	1/4	838		58	890		875		1 hr
2.	2	X	1/2	391		48	860		830		"
3.	2	X	1/2	508		55	725		790		"
4.	2	X	5/8	417		56	450		760		"
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mgd
1	25.86		851.2	22.76	.946		1022
2	101.30		404.2	22.54	.949		1930
3	101.80		521.2	22.69	.946		2471
4	154.00		430.2	22.69	.946		3083
5.							

NO.	P ₀	Temp. °R	T ₀	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/Lbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P ₀	P _w	P ₀ ²	P _w ²	P ₀ ² - P _w ²
1		953	908	273	
2		904	817	364	
3		861	741	440	
4		820	687	494	
5					

(1) $\frac{P_0^2}{P_0^2 - P_w^2} = -2.389$ (2) $\left[\frac{P_0^2}{P_0^2 - P_w^2} \right]^n = -4.26$

ADP = Q $\left[\frac{P_0^2}{P_0^2 - P_w^2} \right]^n = 13,132$

*Post FD-2
11-19-82
Camp & Bk.*

Absolute Gas Flow _____ 13,132 _____ Mcf @ P ₀ 625	Angle of Slope α _____ 31 _____	Slope, n _____ 1:66 _____
Remarks: _____ Bottom hole pressures recorded with Amerada type bomb.		

Approved By _____	Conducted By: KELTIC SERVICES	Calculated By: Kelly	Cchecked By:
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