

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

Form C-122
Revised 9-1-65

RECEIVED

*Copy 65F
C-122*

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-2-74		MAY 24 1974	
Company Mark Production Company				Connection		O. C. C. ARTESIA, OFFICE	
Pool Undesignated Cemetary				Formation Morrow		Unit	
Completion Date 4-22-74		Total Depth 9550'		Plug Back TD		Elevation 3496' GL	
Farm or Lease Name First Nat'l Bank Albuquerque "Com"							
Csg. Size 4-1/2"	Wt. 12.24#	a	Set At 9550'	Perforations: From 9446' To 9469'		Well No. 1	
Thg. Size 2-3/8"	Wt.	d 1.995	Set At 9250'	Perforations: From To		Unit Sec. Twp. Rge. F 8 20S 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9250'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 225		Mean Annual Temp. °F 60		Baro. Press. - P _a	
State New Mexico							
L 9458	H 9458	G _g .593	% CO ₂ .87	% N ₂ .72	% H ₂ S .03	Prover	Meter Run 4"
Taps Flange							

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							2971	78			86
1.	4 x 1.750			495	5	76	2654	75			1
2.	4 x 1.750			520	26.5	102	1534	72			1
3.	4 x 1.750			530	38.0	123	845	72			1
4.	4 x 1.750			530	41	130	630	72			1
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, Mcfd
1	15.31	50.3	508	0.9850	1.299	1.038	1023
2	15.31	118.7	533	0.9619	"	1.033	2346
3	15.31	143.5	543	0.9444	"	1.029	2773
4	15.31	148.9	543	0.9388	"	1.027	2855
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.75	536	1.52	.928	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.79	562	1.59	.937	Specific Gravity Separator Gas .593 X X X X X X X X
3.	.80	583	1.65	.945	Specific Gravity Flowing Fluid X X X X X
4.	.80	590	1.67	.948	Critical Pressure 676 P.S.I.A. 676 P.S.I.A.
5.					Critical Temperature 353 R 353 R

P _c 3984	P _c ² 8904		
NO.	P _t ²	P _w	P _w ²
1	7113	3252	10576
2	2393	1945	3783
3	736	1191	1418
4	453	1031	1026
5			

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

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,000$

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

Absolute Open Flow 3,000 Mcfd @ 15.025	Angle of Slope 53°	Slope, n .755
Remarks:		

Approved By Commission:	Conducted By: W. H. Cravey	Calculated By: UCS Time Share	Checked By: Curtis W. Mewbourne
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