

N. M. O. C. COM
NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-30-73		JUN 12 1973	
Company Coquina Oil Corporation				Connection O. C. C.		ARTESIA, OFFICE	
Pool Wildcat Washington Ranch				Formation Wolfcamp		Unit	
Completion Date 5-30-73		Total Depth 8200		Plug Back TD 6810		Elevation	
Form or Lease Name Monsanto Fed.				Well No.			
Csg. Size 4 1/2	Wt. 4.7	Set At 6810	Perforations: From 6588 To 6506		Unit Sec. Twp. Rge.		
Tbg. Size 2 3/8	Wt. 4.7	Set At 6407	Perforations: From open To end		Unit Sec. Twp. Rge.		
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Single				Packer Set At 6407		County Brewer	
Producing Thru TEG		Reservoir Temp. °F 140 @ 6547		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 6547		H 6547		Gg 690 (Assumed)		State New Mexico	
I 6547		H 6547		Gg 690 (Assumed)		Meter Run 1200	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Duration of Flow
SI	Positive C.K.S.						
1.	3/16			1442		74	100 hr.
2.	7/32			1223		75	1 hr.
3.	1/4			1117		73	1 hr.
4.	5/16			1105		72	1 hr.
5.				1105		69	1 hr.
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. Comp. Factor, F _{pv}	Rate of Flow Q, Mgd
1	.6101		1455.2	.9859	1.204	1.184	1,246
2	.6419		1236.2	.9877	1.204	1.155	1,429
3	1.112		1130.2	.9867	1.204	1.141	1,707
4	1.771		1118.2	.9915	1.204	1.139	2,693
5							
NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio 14.0 Mcf/bbl.		
1	2.18	535	1.38	.713	A.P.I. Gravity of Liquid Hydrocarbons 58.0 @ 60°		
2	1.85	533	1.37	.750	Specific Gravity Separator Gas .690 Assumed		
3	1.69	532	1.37	.763	Specific Gravity Flowing Fluid XXXXX		
4	1.67	529	1.36	.771	Critical Pressure 659 P.S.I.A.		
5					Critical Temperature 388 R		
P _t 2550.2		P _t 6503.5					
NO.	P _t	P _m	P _t - P _m	(1) $\frac{P_t^2}{P_t^2 - P_m^2} = 1.340$		(2) $\left[\frac{P_t^2 - P_m^2}{P_t^2 - P_m^2} \right]^n = 1.340$	
1		*2592.1	2534.3	358.7			
2		*1430.6	2012.4	441.1			
3		*1350.4	1823.0	527.4			
4		*1297.2	1682.7	610.8			
5							
Absolute Open Flow 3.633 Mcf/d @ 15.025				Angle of Slope e 1.000			
Remarks: Made 21.06 BEES condensate and 3.51 BEES of H ₂ O through out test. BEES run by Bennett Wire Line Service. * Calculated from known BEP'S.							
Approved By Commission:		Conducted By: J. C. Roberts		Calculated By: J. B. Murray		Checked By: Penn Gault	

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JUN 11 1973
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

CORUINA OIL COMPANY

MONSANTO FEDERAL H.I

6-9-26-23

EDDY COUNTY, N.M.

5-30-73

