

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-10

RECEIVED

Type Test ☒ Initial FOUR POINT ☐ Annual ☐ Special					Test Date 6-17-82		AUG 20 1982	
Company COQUINA <i>oil Corp.</i>				Connection AIR NEW WELL			O. C. D.	
Well WILDCAT <i>Calculated Strawn</i>				Formation STRAWN			Unit ARTESIA, OFFICE	
Completion Date 6-14-82		Total Depth 11,912		Plug Back TD 10,400		Elevation 3111 GR		Form or Lease Name NICHOLS
Log. Size 5.500	Wt. 17/20	d 4.770	Set At 10,400	Perforations: From 10,319 To 10,376		Well No. 1		
Log. Size 2.375	Wt. 4.70	d 1.995	Set At 10,208	Perforations: From OPEN To ENDED		Unit C	Sec. 21	Twp. 22S
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 10,208		County EDDY		
Producing thru TUBING		Reservoir Temp. °F 174 @ 10185		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State NEW MEXICO
L 10347	H 10347	G _g 6398	% CO ₂ 563	% N ₂ 973	% H ₂ S	Prover	Meter Run 4.026	Flaps FLANGE

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow
HO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	CHOKE
51							3387	87	4471	72 HRS.
1	4.026	X	1.500	490	6.0	90	3350	77	4441	8/64 1 HR.
2	4.026	X	1.500	500	20.0	87	3285	78	4375	10/64 1 HR.
3	4.026	X	1.500	510	32.0	74	3175	77	4290	12/64 1 HR.
4	4.026	X	1.500	515	60.0	104	3043	75	4134	14/64 1 HR.

RATE OF FLOW CALCULATIONS							
HO	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{sp}	Rate of Flow G. Mhd
1	11.1200	54.95	503.2	.9723	1.2500	1.0398	772
2	11.1200	101.31	513.2	.9750	1.2500	1.0403	1428
3	11.1200	129.39	523.2	.9868	1.2500	1.0460	1856
4	11.1200	178.02	528.2	.9602	1.2500	1.0381	2466

HO	P _h	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.75	550	1.50	.925	45.3	56° @ 600F	.6400	7260 X X X X X	571	366
2	.76	547	1.50	.924						
3	.78	534	1.46	.914						
4	.79	564	1.54	.928						

HO	P _h	P _w	P _c	P _c - P _w	(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	4454.2	19839.9	268.0		6.9121	2.6291
2	4388.2	19256.3	852.0			
3	4303.2	18517.5	1591.0			
4	4147.2	17299.3	2909.0			

Absolute Open Flow <u>6484.8</u> Mhd @ 15.025		Angle of Slope <u>63.4</u>		Slope, n <u>.5000</u>	
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REMARKS: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By: RICHARD TOWNLEY	Calculated By: BENNETT - CATHEY	Checked By:
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