NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT A[illegible] ONE POINT BACK PRESSURE TEST [illegible]R GAS WELL

Form C-122
Revised 9-1-65

C/SF
C-122
U565

RECEIVED
MAR 10 1982
O. C. D.
ARTESIA, OFFICE

Type Test: ☒ Initial FOUR POINT ☐ Annual ☐ Special				Test Date: 2-22-82	
Company: COQUINA OIL CORP.		Connection: AIR NEW WELL			Unit: J
Pool: Malaga Atoka		Formation: ATOKA			
Completion Date: 2-20-82	Total Depth: 13,100		Plug Back TD: 11,850	Elevation: 2997 KB	Farm or Lease Name: VASQUEZ
Csg. Size: 7.625 / Wt.: 39.0 / d: 6.625 / Set At: ~~11,850~~ 12,137			Perforations: From 11,765 To 11,817		Well No.: 1
Tbg. Size: 2.875 / Wt.: 6.5 / d: 2.441 / Set At: 11,587			Perforations: From OPEN To ENDED		Unit: J / Sec.: 11 / Twp.: 24S / Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 11,519		County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 186 @ 11,787	Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2		State: NEW MEXICO
N: 11,787	H: 11,787	Gg: .573	% CO_2: .570	% N_2: .519	% H_2S:	Prover:	Meter Run: 4.028	Taps: FLANGE

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI						5284		6501		87 HRS.
1.	4.028	X 1.500	490	9.0	96	5075		6265		1
2.	4.028	X 1.500	500	27.0	78	4815		5963		1
3.	4.028	X 1.500	525	55.0	80	4462		5550		1
4	4.028	X 1.500	625	78.0	79	4138		5264		1
5.										

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	11.1200	67.30	503.2	.9671	1.3211	1.0298	985
2	11.1200	117.71	513.2	.9831	1.3211	.10347	1759
3	11.1200	172.05	538.2	.9813	1.3211	1.0353	2568
4	11.1200	223.11	638.2	.9831	1.3211	1.0431	3361
5							

NO.	P_t	Temp. °R	T_r	Z
1	.75	566	1.61	.943
2	.76	538	1.56	.934
3	.80	540	1.57	.933
4	.95	538	1.56	.919
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .5730 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 675 P.S.I.A. _____ P.S.I.A.
Critical Temperature 345 R _____ R

1. 6514.2 P_c^2 42434.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		6278.2	39415.8	3019.0
2		5976.2	35715.0	6720.0
3		5563.2	30949.2	11486.0
4		5277.2	27878.8	14586.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.6945$ (4) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.5548$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6,560.6$

Absolute Open Flow 6,561.6 Mcfd @ 15.025 Angle of Slope θ 54.3 Slope, n .7177

Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.

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