

C/SF

NEW MEXICO OIL CONSERVATION COMMISSION MULTIPPOINT AND ONE POINT BACK PRESSURE TEST OR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

☒ Initial ☐ Annual ☐ Special 1-19-81 FEB 09 1981

Company: Coquina Oil Corp. ✓ Section: None
 Pool Name: Wildcat Formation: Lower Morrow

Completion Date: 1-19-81 Total Length: 14,967 Plug Back To: 14,924
 Well No.: 3354 GEOLOGICAL SURVEY NEW MEXICO

Casing Size: 5" 18# 39# Set At: 14,967 Perforations: From 14,414 To 14,633
 Tubing Size: 2 7/8 6.5 Set At: 14,358 Perforations: From To

Type Well: Single - Branches - G.G. or G.O. Multiple Packer Set At: 14,338
 Single

Producing thru Tubing Reservoir Temp. °F: 211.0 14,360 Mean Annual Temp. °F: 68 Baro. Press. - P_g: 13.2
 State: New Mexico

L: 14,358 R: 14,358 G_g: .6114 % CO₂: .86 % N₂: .28 % H₂S: 0' Prover: Meter Run: 4.026 Type: Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	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.	
51							5048	68		
1.	4.026	1.125	518	4.0	84	4732	70	Packer		60 Min.
2.	4.026	1.125	522	9.0	84	4443	70			60 Min.
3.	4.026	1.125	525	20.0	75	4067	69			60 Min.
4.	4.026	1.125	536	48.0	78	3392	69			60 Min.
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	6.031	46.10	531.2	.9777	1.279	1.042	362
2	6.031	69.43	535.2	.9777	1.279	1.043	546
3	6.031	103.75	538.2	.9859	1.279	1.043	823
4	6.031	162.36	549.2	.0831	1.279	1.044	1285
5.							

NO. P_r Temp. °R T_r Z Gas Liquid Hydrocarbon Ratio: None Made Mct/bbl.
 A.P.I. Gravity of Liquid Hydrocarbons: _____ Deg.
 Specific Gravity Separator Gas: .6114 X X X X X X X X
 Specific Gravity Flowing Fluid: X X X X X
 Critical Pressure: 671 P.S.I.A. P.S.I.A.
 Critical Temperature: 362 R R

NO.	P _r ²	P _w ²	P _w ² - P _r ²
1	6652.2	44252	
2	6344.2	40249	4003
3	5999.2	35990	8262
4	5540.2	30694	13558
5	4759.2	22650	21602

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.0485$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.8654$
 AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2397$

Absolute Open Flow: 2397 Mcfd @ 15.075 Angle of Slope: 49 Slope, n: .87

Remarks: PW Substituted for PT - Measured with Amerada Instrument No. 33118
 0 - 10,000# Element

Approved by: _____ Conducted by: J. Brunel Calculated by: J. Brunel Checked by: D. Richberg