NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
7-19-73
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AUG 15 1973
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 8-1-73	
Company: Coquina Oil Corp.			Connection: None		Unit
Pool: Burton Flat			Formation: Morrow		
Completion Date	Total Depth: 11,614		Plug Back TD: 11,580	Elevation: 3275 KB	Farm or Lease Name: Yates State
Csg. Size: 7 / Wt.: 23 / d / Set At: 11,614			Perforations: From 11,454 To 11,513		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.8 / d / Set At: 11,512			Perforations: From To		Unit: 10 Sec. Twp.: 21S Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Dual			Packer Set At: 11,403		County: Eddy
Producing Thru: Morrow	Reservoir Temp. °F: 189 @ 11,512	Mean Annual Temp. °F	Baro. Press. – P_a: 13.2		State: New Mexico
L: 11,512	H: 11,512	Ga: .575	% CO_2	% N_2	% H_2S / Prover / Meter Run: 3" / Taps: Flg.

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							3764				72hr sip
1.	3	x	1.750	538	5"	100	3691	84			2"
2.	3	x	1.750	530	17"	100	3582	82			2"
3.	3	x	2.000	550	51"	44	3108	80			2"
4.	3	x	2.000	560	87"	33	.2841	77			2"
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	15.61	52.50	551.2	.9636	1.319	1.031	1,074
2.	15.61	96.10	543.2	.9636	1.314	1.031	1,966
3.	21.32	169.48	563.2	1.016	1.319	1.049	5,079.
4.	21.32	223.31	573.2	1.027	1.319	1.055	6,804
5.							

NO.	P_r	Temp. °R	T_r	Z
1	.82	560	1.62	.940
2.	.81	560	1.62	.940
3.	.84	504	1.46	.908
4.	.85	493	1.42	.899
5.				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None Deg.
Specific Gravity Separator Gas: .575 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 346 R ____ R

P_c 3777.2 P_c^2 14,267.2

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1	13721.1	3713.7	13791.6	475.6
2	12925.5	3615.9	13074.7	1192.5
3	9741.9	3298.9	10882.7	3384.5
4	8146.5	3081.3	9494.4	4772.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.989$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.590$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 17.621$

posted 8-17-73 GP

Absolute Open Flow: 17,621 Mcfd @ 15.025 | Angle of Slope θ: 49 | Slope, n: .869

Remarks: B. H. B. Set at 11,375
180° BHT
1.76 BBLS. H_2O

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Reggie Reston	Reggie Reston	