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Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
AUG 5 1974
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 7-19-74	
Company: Coquina Oil Corp.	Connection:				Unit:
Pool: So. Carlsbad	Formation: Morrow				
Completion Date: 7-19-74	Total Depth: ~~11,940~~	Plug Back TD: 11,940	Elevation: 3356KB	Farm or Lease Name: Philly Federal	
Csg. Size: 7" / Wt.: 35# / d: / Set At: 11,940	Perforations: From 11,824 To 11,836	Well No.: 1			
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: / Set At: 11,771	Perforations: From To	Unit: H / Sec.: 21 / Twp.: 23S / Rge.: 26E			
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 11,771		County: Eddy	
Producing Thru: tubing	Reservoir Temp. °F: 203° @ 11,800	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11,771	11,771	.625	None	None	None		4.026	Flange

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							3999				
1.	4.026		2.50	610	4.6	64	3971	74			60 min.
2.	4.026		2.50	630	11	78	3938	75			60 min.
3.	4.026		2.50	520	37	58	3847	75			60 min.
4.	4.026		2.50	710	39	48	3829	75			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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	32.64	53.54	623.2	.9962	1.265	1.063	2,340
2.	32.64	84.11	643.2	.9831	1.265	1.057	3,664
3.	32.64	140.46	533.2	1.002	1.265	1.054	6,125
4.	32.64	167.94	723.2	1.012	1.265	1.075	7,544
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.92	524	1.43	.885
2.	.95	538	1.47	.895
3.	.79	518	1.42	.900
4.	1.07	508	1.39	.866
5.				

Gas Liquid Hydrocarbon Ratio: Dry gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None Deg.
Specific Gravity Separator Gas: .625 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. P.S.I.A.
Critical Temperature: 365 R R

P_c 5053.2 P_c^2 25535.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		5036.2	25363	172
2		5024.2	25243	292
3		4979.2	24792	743
4		4945.2	24455	1080
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 23.64$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5.5394$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 41,789$

Absolute Open Flow: 41,789 Mcfd @ 15.025 Angle of Slope θ: 620 Slope, n: .541

Remarks: Pw substituted for Pt-measured with Amerada instrument no. 33118 10,000# element

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J. Spruell	J. Spruell	B. Pyle