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C-122 file

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 9-1-65

RECEIVED
MAR 18 1976
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: March 10, 1976	
Company: ~~J.C.~~ Bennett and Ryan		Connection: None			
Pool: ~~Wildcat~~ Undesig		Formation: Upper Penn (Cisco)		Unit:	
Completion Date: 3-10-76	Total Depth: 11375	Plug Back TD: ~~11340~~ 11348		Elevation: 3363 (KB)	Farm or Lease Name: Exxon State
Csg. Size: 5 1/2	Wt.: 17.0	d:	Set At: 11375	Perforations: From 9712 To ~~9810~~ 9791	Well No.: 2
Tbg. Size: 2 3/8	Wt.: 5.9	d: 1.785	Set At: 11217	Perforations: From To	Unit: F Sec.: 25 Twp.: 19 Rge.: 28
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Gas Dual			Packer Set At: 11148 + 9695 (Cross-over)		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 142 @ 9761(Est)	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9712	9712	.719					3"	Flg.

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					2842	74			72 hrs.
1.	3 x 1.000	590	6.00	105	2155				1 hr.
2.	3 x 1.000	590	18.00	85	1655				1 hr.
3.	3 x 1.000	610	26.00	70	940				1 hr.
4.	3 x 1.000	610	42.00	74	642				1 hr.
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	4.789	60.16	603.2	.9594	1.179	1.062	346
2.	4.789	104.20	603.2	.9768	1.179	1.062	610
3.	4.789	127.29	623.2	.9905	1.179	1.075	765
4.	4.789	161.79	623.2	.9868	1.179	1.075	969
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.90	565	1.43	.887
2.	.90	545	1.38	.887
3.	.93	530	1.34	.866
4.	.93	534	1.35	.866
5.				

Gas Liquid Hydrocarbon Ratio 3.397 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 53.0 @ 60° Deg.
Specific Gravity Separator Gas .719 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX G Mix = .745
Critical Pressure 668 P.S.I.A. 667 P.S.I.A.
Critical Temperature 395 R 405 R

P_c 2855.2 P_c^2 8152.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2169.4	4706.3	3445.9
2		1673.1	2799.3	5352.9
3		968.1	937.2	7215.0
4		693.1	480.4	7671.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.063$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.063$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.030$

Absolute Open Flow 1,030 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 1.000

Remarks: Made 33.0 Bbls. of 53.0 @ 60' condensate during test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Reggie Reston & Rick Pagan	Reggie Reston &	Rick Pagan