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C-122

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
DEC 10 1974
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11-25-74	
Company: Amoco Production Company			Connection: None		
Pool: ~~Rock Tank~~ Morrow			Formation: Morrow		Unit
Completion Date: 11-25-74	Total Depth: 10,479		Plug Back TD: 10,455	Elevation: 3979 RDB	Farm or Lease Name: South Rock Tank ~~Unit~~
Csg. Size: 5-1/2" / Wt.: 15.5-17 Lb / d: 4.892 / Set At: 10,478			Perforations: From 10,262 To 10,447		Well No.: 1
Tbg. Size: 2-7/8" / Wt.: 6.5 Lb / d: 2.441 / Set At: 10,208			Perforations: From Open End To		Unit: G / Sec.: 2 / Twp.: 24-S / Rge.: 24-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10,201		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 171 @	Mean Annual Temp. °F: 65°	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10,262	10,262	0.640	–	–	–	–	2"	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. ~~psig~~ xx	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	2" X 1-1/4"	18	18	64	75	64	Pkr	~~Pkr~~	~~21.5Hrs~~
1.									
2.									
3.									
4.									
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	1083	–	31.2	0.9962	0.9682	1.000	1045
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.0466	524	1.409	1.000
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Gas Deg.
Specific Gravity Separator Gas: 0.640 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX Dry Gas
Critical Pressure: 670 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 372 R ____ R

P_c 3634.2* P_c^2 13,207

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		263.2 *	69.3	13,138
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.005$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.005$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1088$

Absolute Open Flow: 1088 Mcfd @ 15.025 Angle of Slope θ: 45° Slope, n: 1.000

Remarks: * PRESSURES OBTAINED WITH BHP RECORDER

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	John West Engineering	Sal Pagano	Ed Snook