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C-122

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 9-1-65

RECEIVED
JUN 25 1974
O. C. C.
ARTESIA, OFFICE

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 6/20/74	
Company: El Paso Natural Gas Company		Connection: El Paso Natural Gas Company			
Pool: Rocky Arroyo		Formation: Canyon			Unit: F
Completion Date: 8/28/73	Total Depth: 9256		Plug Back TD	Elevation: 4482 GL	Farm or Lease Name: Rocky Arroyo Com
Csg. Size: 5½ / Wt.: 15.5 / d: 4.950 / Set At: 9256			Perforations: From 7292 To 7347		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 8981			Perforations: From 9038 To 9052		Unit: F / Sec.: 8 / Twp.: 22 / Rge.: 22
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual			Packer Set At: 8959		County: Eddy
Producing Thru: Csg.	Reservoir Temp. °F: 130	Mean Annual Temp. °F: 72?4	Baro. Press. – P_a: 13.2		State: New Mexico
L: 7320 / H: 7320	Gg: .637	% CO_2	% N_2	% H_2S	Prover / Meter Run: 4" / Taps: Flg.

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							594		24 hr.
1.	4 x .500	435	4.84	95			575		1 hr.
2.	4 x .500	436	9.61	94			560		1 hr.
3.	4 x .500	445	16.81	94			538		1 hr.
4.	4 x .500	450	22.09	93			519		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	1.182	46.58	448.2	.9680	1.253	1.036	69
2	1.182	65.70	449.2	.9688	1.253	1.036	98
3	1.182	87.76	458.2	.9683	1.253	1.037	131
4	1.182	101.15	463.2	.9697	1.253	1.038	151
5.							

NO.	P_t	Temp. °R	T_t	Z
1	.67	555	1.49	.931
2.	.67	554	1.49	.931
3.	.68	554	1.49	.930
4	.69	553	1.49	.929
5.				

Gas Liquid Hydrocarbon Ratio: None Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: .637 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 670 P.S.I.A. P.S.I.A.
Critical Temperature: 372 R R

P_c 607.2 P_c^2 368.7

NO	P_w	P_w^2	$P_c^2 - P_w^2$
1	588.2	346.0	22.69
2	573.2	328.6	40.09
3	551.2	303.8	64.89
4	532.2	283.3	85.39
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.318$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.379$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .358$

Absolute Open Flow: 358 Mcfd @ 15.025 Angle of Slope θ: 59.50° Slope n: .85

Remarks: No fluid made.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Murrey, Pagan	Rick Pagan	