Copy to SF
C-122

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
APR 17 1974
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: 4/3/74	
Company: Phillips Petro. Company		Connection: El Paso Natural Gas Company		
Pool: ~~Undesignated~~ Morrow Gas		Formation: Morrow		Unit: L
Completion Date: 4/8/74	Total Depth: 13170	Plug Back TD: 13062	Elevation: 3981 gr	Farm or Lease Name: Malaga A
Csg. Size: 5½ / Wt.: / d: 23# / Set At: 13,170		Perforations: From 12310 To 12658		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: / d: 6.5 / Set At: 12,130		Perforations: From To		Unit: L / Sec.: 2 / Twp.: 24S / Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 12130		County: Eddy
Producing Thru: Tbg	Reservoir Temp. °F: 195 @ 12,130	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2	State: New Mexico
L: 12,130	H: 12,130	Gg: .588 (Assumed)	% 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							2732				24 hr.
1.	4	x	1.500	360	2.0	74	2645	70			1 hr.
2.	4	x	1.500	360	9.6	52	2440	70			1 hr.
3.	4	x	1.500	370	33.6	56	1940	70			1 hr.
4.	4	x	1.500	373	36.0	62	1795	71			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	10.84	27.32	373.2	.9868	1.304	1.028	392
2.	10.84	59.86	373.2	1.008	1.304	1.033	881
3.	10.84	113.47	383.2	1.004	1.304	1.033	1663
4.	10.84	117.91	386.2	.9981	1.304	1.031	1715
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.56	534	1.53	.947
2.	.56	512	1.46	.937
3.	.57	516	1.47	.938
4.	.57	522	1.49	.941
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .588 (Assumed) XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 672 P.S.I.A. _____ P.S.I.A.
Critical Temperature 350 R _____ R

P_c 2745.2 P_c^2 7536.1

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2685.6	7212.2	323.9
2		2455.1	6027.7	1508.4
3		1961.9	3849.1	3687.0
4		1818.2	3306.0	4230.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.782$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.415$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.427$

Absolute Open Flow 2,427 Mcfd @ 15.025 Angle of Slope θ 59° Slope, n .601

Remarks: No fluid made during test.

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