

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-9-78		SPUD DATE: 11-13-77	
Company Burleson and Huff				Connection El Paso Natural Gas Co.			
Pool Eumont				Formation Queens		Unit	
Completion Date 12-13-77		Total Depth 3705		Plug Back TD 3685		Elevation 3509 GL	
Form or Lease Name McQuatters				Well No. 1			
Coq. Size 4 1/2	Wt. 9.5	d 3705	Set At 3705	Perforations: From 3655 To 3707		Unit Soc. Twp. Rge. C 12 21 36	
Tq. Size 2 3/8	Wt. 4.7	d 3630	Set At 3630	Perforations: From open To end		County Lea	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		State New Mexico	
Producing Thru Tbg.		Reservoir Temp. °F 110 @ 3655		Mean Annual Temp. °F 13.2		Baro. Press. - P _a 4" Flg.	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run
		.708					

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
51							208		191	shut-in	24 hrs.
1.	4	x	1.250	81	4	40	201		185		45 min.
2.	4	x	1.250	83	9.6	45	199		182		30 Min.
3.	4	x	1.250	85	16	48	192		180		30 Min.
4.	4	x	1.250	85	26	52	188		178		30 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, Mgd
1	7.496	19.41	94.2	1.020	1.188	Nil	176
2	7.469	30.39	96.2	1.015	1.188	Nil	274
3	7.469	39.64	98.2	1.012	1.888	Nil	356
4	7.469	50.53	98.2	1.008	1.188	Nil	452
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/Std.
1.	.14	500	1.28	Nil	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	.14	505	1.29	Nil	Specific Gravity Separator Gas	.708	X X X X X X X X
3.	.15	508	1.30	Nil	Specific Gravity Flowing Fluid	X X X X X	
4.	.15	512	1.31	Nil	Critical Pressure	668	P.S.I.A. P.S.I.A.
5.					Critical Temperature	392	R R

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1		198.2	39.3	9.6
2		195.2	38.1	10.8
3		193.2	37.3	11.6
4		191.2	36.6	12.3
5				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 3.976$

ADP = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.797$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3.976$

Absolute Open Flow	1,797	Mgd @ 15.025	Angle of Slope θ	45	Slope, n	1.00
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Remarks: No fluid made during test. Point alignment too flat. A slope of 45° was drawn through high rate of flow.

Approved By: Reggie Reston	Conducted By: Reggie Reston	Calculated By: Reggie Reston	Checked By:
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