

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 10/7/75	
Company HARRIS & WALTON		Connection El Paso Natural Gas Company	
Pool Jalmat		Formation Yates	
Completion Date 9-15-75		Total Depth 3610	Plug Back TD 3410
		Elevation 3403	Farm or Lease Name B. Davis
Csg. Size 5 1/2	Wt. 17	Set At 3536	Perforations: From 3372 To 3389
Tbg. Size 2 3/8	Wt. 4.7	Set At 3337	Perforations: From Open To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 3337	Well No. 1
Producing Thru Tbg.		Reservoir Temp. °F 108 @ 3380	Mean Annual Temp. °F 13.2
Baro. Press. - P _a 13.2		State New Mexico	
L 3337	H 3337	G _g .783	% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps 4 Flg.

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	
SI							325				24 hr.
1.	4	x	1.750	12	2.3	68	322				30 min
2.	4	x	1.750	12	5.3	75	284				1 hr.
3.	4	x	1.750	12	7.6	79	206				1 hr.
4.	4	x	1.750	13	16.0	82	132				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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.93	7.61	25.2	.9924	1.130	Nil	127
2	14.93	11.55	25.2	.9859	1.130	Nil	192
3	14.93	13.84	25.2	.9822	1.130	Nil	229
4	14.93	20.47	26.2	.9706	1.130	Nil	335
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.04	528	1.26	Nil	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.04	535	1.28	Nil	Specific Gravity Separator Gas _____ X X X X X X X X
3	.04	539	1.29	Nil	Specific Gravity Flowing Fluid _____ X X X X X
4	.04	542	1.30	Nil	Critical Pressure _____ 666 P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ 418 R _____ R

P _c 338.2	P _c ² 114.4	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 63.555$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7.972$
NO	P _w	P _w ²	P _c ² - P _w ²
1	335.6	112.6	1.8
2	298.2	88.9	25.5
3	221.1	48.9	65.5
4	151.3	22.9	91.5
5			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.012$	Absolute Open Flow _____ 1,012 Mcfd @ 15.025	Angle of Slope θ _____ 63.5	Slope, n _____ .500
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Remarks: Made estimated 4 bbl/H₂O during test. Point alignment too steep, a 63.5 slope was drawn through low rate of flow.

Approved By Commission: <i>Shirley R. Pearson</i>	Conducted By: Reggie Reston	Calculated By: Reggie Reston	Checked By:
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