

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-22-72	
Company ATLANTIC RICHFIELD CO.			Connection El Paso Natural Gas Company		
Pool Jalmat			Formation Yates		Unit I
Completion Date 5-27-72		Total Depth 3850	Plug Back TD 3665	Elevation 3552	Farm or Lease Name State 157 A
Csq. Size 5 1/2	Wt. 14.0	d 5.012	Set At 3665	Perforations: From 3215 To 3407	Well No. 4
Tbg. Size 2	Wt. 4.7	d 1.995	Set At 3423	Perforations: From To	Unit Sec. Twp. Rge. I 9 22S 36E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	County Lea
Producing Thru Tbg.		Reservoir Temp. °F 63	Mean Annual Temp. °F 63	Baro. Press. - P _a 13.2	State New Mexico
L	H	G _g .672	% CO ₂	% N ₂	% H ₂ S
				Prover	Meter Run 4"
				Taps 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							339		339		72 hrs.
1.	4	x	2.250	58	1.00	64	316		334		1 hr.
2.	4	x	2.250	65	3.61	63	298		327		1 hr.
3.	4	x	2.250	65	16.00	62	254		302		1 hr.
4.	4	x	2.250	67	27.04	66	162		279		1 hr.
5.	4	x	2.250	69	29.70	66	105		269		1 hr.

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	25.64	8.44	71.2	.9962	1.220	Nil	263
2	25.64	16.80	78.2	.9971	1.220	Nil	524
3	25.64	35.37	78.2	.9981	1.220	Nil	1,104
4	25.64	46.57	80.2	.9943	1.220	Nil	1,448
5	25.64	49.41	82.2	.9915	1.220	Nil	1,532

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	---	Deg.
2.					Specific Gravity Separator Gas	.672 (Assumed)	X X X X X X X X
3.		N I L			Specific Gravity Flowing Fluid	X X X X X	
4.					Critical Pressure	P.S.I.A.	P.S.I.A.
5.					Critical Temperature	R	R

P _c 352.2 P _c ² 124.0				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.041$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.038$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		347.2	120.5	3.5	
2		340.2	115.7	8.3	
3		315.2	99.4	24.6	
4		292.2	85.4	38.6	
5		282.2	79.6	44.4	

Absolute Open Flow 3,354 M d @ 15.025 Angle of Slope @ 55.5 Slope, n .687

Remarks: _____

Approved By Commission: 	Conducted By: J. C. Roberts	Calculated By: J. C. Roberts	Checked By: Joe B. Murray
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OIL CONSERVATION COMM.
HALL, H. M.