NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1-11-79	
Company: ARCO Oil & ~~Gas~~ Co. Div ~~of~~ Atlantic Richfield			Connection: El Paso Natural Gas		
Pool: ~~Jalmat~~ Yates			Formation: Jalmat		Unit: N
Completion Date: 12-30-78	Total Depth: 3761'		Plug Back TD: 2947'	Elevation: 3482 GR	Farm or Lease Name: State 157 D
Csg. Size: 5-1/2" / Wt.: 17.0 / d: 4.892 / Set At: 3560			Perforations: From 2717 To 2928		Well No.: 7
Tbg. Size: 2-3/8" / Wt.: 4.7 / d: 1.995 / Set At: 2650			Perforations: From Open To End		Unit: N / Sec.: 12 / Twp.: 22S / Rge.: 36E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 2650		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 101 @ 2650	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
2650	2650	.672	0.52	5.35	0		4"	Flange

NO.	FLOW DATA: Prover Line Size x Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					610		Pkr.		48 Hrs
1.	4 x 1.750	60	3.24	36	594	74			1 Hr
2.	4 x 1.750	62	15.21	37	543	74			1½ Hr
3.	4 x 1.750	62	35.40	37	442	74			1 Hr
4.	4 x 1.750	67	62.41	45	279	74			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	14.93	15.40	73.2	1.024	1.220	NIL	287
2	14.93	33.82	75.2	1.023	1.220	NIL	630
3	14.93	51.60	75.2	1.023	1.220	NIL	961
4	14.93	70.75	80.2	1.015	1.220	NIL	1308
5							

NO.	P_t	Temp. °R	T_f	Z
1	.11	496	1.30	NIL
2	.11	497	1.30	NIL
3	.11	497	1.30	NIL
4	.12	505	1.32	NIL
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .672 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 669 P.S.I.A. _____ P.S.I.A.
Critical Temperature 382 R _____ R

P_c 623.2 P_c^2 388.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		607.9	369.6	18.8
2		559.8	313.4	75.0
3		465.6	216.8	171.6
4		322.2	103.8	284.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.365$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.190$

AOF = $Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,557$

Absolute Open Flow 1557 Mcfd @ 15.025 Angle of Slope θ 60.75 Slope, n .560

Remarks: Calculated by El Paso computer.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
John W. Runyan	R. Dailey	Bob McMurrain	