STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

C/SF
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

RECEIVED
MAY 09 1983
O. C. D.
ARTESIA, OFFICE

Type Test: [XX] Initial [ ] Annual [ ] Special				Test Date:
Company: W. A. MONCRIEF, JR. ✓	Connection: EPNG			
Pool: Baldridge Canyon Morrow	Formation: Morrow			
Completion Date: ~~5-4-83~~ 4-21-83	Total Depth: ~~11,136~~ 11,120	Plug Back TD: 11,044	Elevation: 4639 GL	Farm or Lease Name: Ridge Fed.
Csg. Size: 4½ / Wt.: 11.6 / d: / Set At: 11,120	Perforations: From 10,842 To 11,018			Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 10,770	Perforations: From Open To			Unit: C / Sec.: 23 / Twp.: 24 / Rge.: 24
Type Test – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 10,770			County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 182 @ 10842 (Est.)	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10,770	10,770	.588	1.10	.30	.03 GRS.			

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					3032				
1.	4.036 X 1.250	624	4.84	93	2967				30 min.
2.	4.036 X 1.250	617	12.96	90	2889				30 min.
3.	4.036 X 1.250	631	24.01	84	2758				60 min.
4.	4.036 X 1.250	640	44.89	76	2552				60 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, Mcfd
1	7.469	55.53	637.2	.9697	1.304	1.041	546
2.	7.469	90.37	630.2	.9723	1.304	1.042	892
3	7.469	124.37	644.2	.9777	1.304	1.045	1238
4.	7.469	171.24	653.2	.9850	1.304	1.048	1722
5.							

NO.	P_t	Temp. °R	T_r	Z
1	.94	553	1.57	.922
2.	.93	550	1.56	.921
3.	.95	544	1.55	.916
4.	.97	536	1.52	.911
5				

Gas Liquid Hydrocarbon Ratio: No Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: ----- Deg.
Specific Gravity Separator Gas: .588 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 350 R ____ R

P_c 3045.2 P_c^2 9273.2

NO	P_w	P_w^2	$P_c^2 - P_w^2$
1	2981.8	8891.3	381.9
2	2906.6	8448.4	824.8
3	2780.0	7728.5	1544.7
4	2583.4	6673.9	2600.0
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.567$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.163$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.725$

Absolute Open Flow: 3,725 Mcfd @ 15.025
Angle of Slope θ: 58.75
Slope, n: .607

Remarks: Made no fluid during test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	EL PASO EXPLORATION CO. Reston & McGowen	EL PASO EXPLORATION CO. Bob McMurrain	