

OGIP - Cumulative

Gas In Place (GIP) Calculations

1995

*800
1995*

Pictured Cliffs Rem. GIP
Fruitland B-Coal Thickness
Fruitland B-Coal OGIP

% GIP
Pictured Cliffs
Fruitland B-Coal

*320 acres
Chaco*

Well	MMscf	ft	MMscf	% GIP
Chaco 1	83	20	1132.8	6.8%
Chaco 2R	33	18	1019.5	3.1%
Chaco 4	66	21	1189.4	5.3%
Chaco 5	54	19	1076.2	4.8%
Average				95.0%

Assumptions for Fruitland Coal
1770 tons/acre-ft, 320 acres, Gas Content = 100 scf/ton

EXHIBIT

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1995

Gas In Place (GIP) Calculations

Well	Pictured Cliffs Rem. GIP	Fruitland B-Coal Thickness	Fruitland B-Coal OGIP	MMscf	ft	MMscf	% GIP Pictured Cliffs	% GIP Fruitland B-Coal
Chaco 1	83	20	453.1				15.5%	84.5%
Chaco 2R	33	18	407.8				7.5%	92.5%
Chaco 4	66	21	475.8				12.2%	87.8%
Chaco 5	54	19	430.5				11.1%	88.9%
			Average				11.6%	88.4%

Assumptions for Fruitland Coal
1770 tons/acre-ft, 160 acres, Gas Content = 80 scf/ton

Lower Side

*From 160 acre
Chaco 1*

*Lower Side
Paper*