San Juan Coal Co. Exhibit No. / Co. Before the Oil Conservation Commission Hanning Dates: October 29-31 2002

POTENTIAL HYDRO FRACTURE DISTURBANCE AREA

	Shale and Others to Surface
	5' Coal (9 Seam)
	26' Shale/Mudstone
	20' Siltstone/Sandstone
Well Casing	
	34' Silty Mudstone
	— Oil & Gas Drill Hole (@ 400' +/-) —
	13' Mudstone/Shale
	1* Coal (8-6 Seam)
	Zone 1
	Coal (8 Seam)
	Mudstone
	Hydro-Frac Disturbance (typ.)
	Pictured 100-400' Horizonal Frac Impact (Est)
	Cliffs
	Sandstone Date Description Descriptio
Property Of New Mexico Operations, BHP V SAN JUAN COAL	CO. San Juan Underground 69/22/62 General Layout Glasser Potential Hydro Fracture
POB 4561: VATERFLOW NEW MEXICO 67421-0561	Path: G-\ Underg \ Un
NEW MEXICO 87421-0561	(not to scale)