



02054818

051-06098

SG INTERESTS As Drilled WBD Volk 12-89-21 #1									
WELL #: As Drilled WBD Volk 12-89-21 #1 AREA: Gunnison County, Colorado SURVEY: FIELD: Bull Mountain Unit			SL: 1,484' FNL & 2,422' FWL Sec 21 T12S R89W BHL: 2,176' FNL & 2,412' FWL Sec 21 T12S R89W API # 05-051-06098-00 AFE			ENGR: Dennis Romero RIG: Precision 18 GL: 7,338' KB: 22'			
DIRECTIONAL	OPEN HOLE LOGGING	SANDS/ MARKERS	DEPTHS FROM GL		CASING PROFILE	HOLE SIZE	CASING DETAILS	MUD WT. TYPE	CEMENT DETAILS
			TVD	MD					
Totco Inclination Surveys not to exceed 462'	None		100'	100'		20" 133# Casing Preset @ 100'			
			462'	462'		12-1/4"	9-5/8" 40.0# J-55 LTC	Natural mud	
See Helmer Directional Plan for Detail	None Mudloggers on at 462'	KOP	500'	500'		12-1/4"			See BJ Cement Recommendation
			500'	500'		8-1/2"			
See Helmer Directional Plan for Detail		South Canyon Grp	2,466'	2,538'		8-1/2"			
			2,599'	2,677'					
See Helmer Directional Plan for Detail		DV Tool	2,757'	2,841'					
			3,123'	3,218'					
See Helmer Directional Plan for Detail		V Seam	3,136'	3,231'					
			3,160'	3,255'					
See Helmer Directional Plan for Detail	GR/Calliper HRI, HDL, DSN FMI CBL	Top Cameo Coal	3,233'	3,330'					
			3,233'	3,330'					
See Helmer Directional Plan for Detail		Rollins SS							
See Helmer Directional Plan for Detail		Float Collar							
See Helmer Directional Plan for Detail		TD							

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NOT TO SCALE