

Company BLACKWOOD & NICHOLS	Location 1450 th /N&790 th /4, Sec. 10, T30N-R74.	FROM 7725' TO 8955'
Well #501	County Rio Arriba	DEPTH LOGGED
Field North East Blanco Unit	State New Mexico	DATE LOGGED 7/1/83 thru 7/1/88
Elevation 6325' DF	Drilling Fluid Chem gel.	ENGINEERS W.D. STRICKLIN

SHALE	DOLOMITE	COAL	TRACE	CORE NO.	CG - CONNECTION GAS
SANDSTONE	CHERT	ANHY-GYP	FAIR	DST NO.	NB - NEW BIT
LIMESTONE	SALT	SILTSTONE	GOOD	DEVIATION	NR - NO RETURNS
					CO - CIRCULATE OUT
					NS - NO SAMPLE
					TG - TRIP GAS
					DTG - DOWN TIME GAS

LITHOLOGY	DEPTH	PERCENTAGE	OIL SHOW	CHROMATOGRAPH HYDROCARBONS IN PPM				REMARKS
				TOTAL GAS	METHANE	ETHANE PROPANE	BUTANE PENTANE	
				10 25 40 100 200 300 400	5 10 20 50 100 150 200			
	7750						SS:lt gry,v/fn gr,sli calc, firm,w/dk mafic min,no poro. Coal:blk,orittle,conchoidal, low rank bitu.	
	7800						SS:lt gry,v/fn gr,qtzitic,v/nd,sharp,non calc. SH:dk gry,v/carb,slty,sli calc. Abnt iron debris. Silt:lt gry,firm,hd,tite, sli calc. Abnt L.C.A.	
	7900						SS:beach white,fn-med gr,non calc,cons & unconcs,well rnd, clear,w/abnt white bentonite. T/Jm:SH:pale green,non calc, slty in pt,firm,abnt Fe frag.	
	7950						SH:lt green,non calc,firm, abnt retainer debris. SS:lt gry,fngr,sli calc,firm, clean. SH:lt green-pale green,sli calc,slty in pt,firm. Abnt carb shale. Tr/blk carb shale.	
	8000						Silt:lt grn-pair grn,sndy in pt,v/sli calc. SS:lt gry,fngr,p-cons,sli calc,fri,clear,w/some unconcs clear well rnd xisscatt thn mtz. Lith change:Tr/arkose,opaque chrt,& pyrite. Lith change:SH:lt orn,firm, v/sli calc,slty in pt,w/grn & pale grn ss.	
	8100						SS:lt gry-white,fn-med gr, v/sli calc,firm,clear. SH:grn,lt grn,lt orn,sli calc firm,slty in pt,w/occ cse gr qtz xl scatt thn mtz,Tr/gry opaque chrt. SS:lt gry-white,qtzitic,firm fn-med gr,non calc,w/fe mags in mtz.	
	8200						SH:lt grn,pale grn,lt brn, firm,sli calc,w/abnt low rank bitu coal-pyritic in pt. SS:lt gry,fngr,sli calc,fri, clean,cons. Silt:lt-pale green,firm,sndy in pt,sli calc. Tr/carbonaceous mtl.	
	8300						SS:lt gry,fn-med gr,v/sli calc,fri,clear,w/fe mags. SH:pale grn,lt grn,lt tan, w/some kelly green,firm,non calc,slty in pt. Silt:lt grn-tan,sli calc,sndy in pt,firm. Tr/carb shale--occ cse gr qtz xl.	
	8400						SS:lt gry,fngr,sli calc,firm, clean,w/dk mafic min in mtz. Lag after trip--abnt cedar fibers & cavings. SS:lt gry,fngr,v/sli calc, qtzitic in pt,sharp, Silt:lt grn,lt tan,orn,sndy in pt,firm,sli calc. Lith change:SH:lt red-pale pink,fngr,cons,sli calc,fri, clean. SH:lt red-lavander, lt grn,sity,sli calc.Silt: lt red-lt grn,sli calc,sndy. SS:lt gry,fn-med gr,sli calc cons,clear,firm,Tr/red ss ad SH:lt grn,orn,lavander,sity, v/sli calc,firm.	
	8500						SS:lt gry,fngr,v/sli calc, cons,fri,clear,fair ϕ ,w/dk mafic min,some ne-sharp. SH:lt red-lt calc,sndy in pt,calc,firm. SH:lt grn-pale grn,lt red, slty in pt,sli calc,firm. SS:lt gry,lt orn,lt pink, non calc,clear,fri,cons,w/ dk mafic min scatt thn mtz. SS:lt gry,fngr,v/sli calc, clean,fri,cons,w/some firm/ sharp. Silt:choc orn,firm,calc,sndy, Tr/blk carb mtl,section com v/calc. Section v/calc.	
	8600						SH:lt grn,pale grn,lt red, slty in pt,sli calc,firm. Coal:blk,orittle,conchoidal fracture,low rank bitum. Silt:lt gry-lt orn,w/lt gry mottling,fnxlyn,hd,sharp. SS:blk,dk gry,fnxlyn,hd,tite, w/sucrosic anhydrite incl. Silt:lt grn,lt red,sli calc, sndy in pt,firm. Tr/Entrada: 0/25'. SS:lt gry-white,fn-med gr, cons,fri,clear,well sorted & rnd,sli calc,fair porosity. Abnt anhydrite & ss scatt thn samples. Silt:lt grn-lt gry,sndy,firm. Abnt LCM in sample. Abnt ss & sucrosic anhydrite scatt thn samples. SS:lt gry,fn-med gr,cons,fri, clean,well sorted & rnd,sli calc,w/dk mafic min in some. SH:lt grn-gray,slty in pt,sli calc,firm. SS:lt gry-gry,fngr,v/sli calc firm,sharp,low ϕ ,occ slty. SH:lt grn-gry,w/some orange mottled,sli calc,sity in pt. SS:lt gry-tan,fngr,sli calc, clean,fri,fair ϕ .	
	8700						Tr/Chinle: 0/25'. SH:dk brn-lt red,slty thn-out calc,firm,w/Tr/gry opaquechrt Silt:red-lt red,v/calc,sndy thn firm,sharp.	
	8800							
	8845'							
	8900							
	8955'						Total Depth: 8954', 7/13/88	