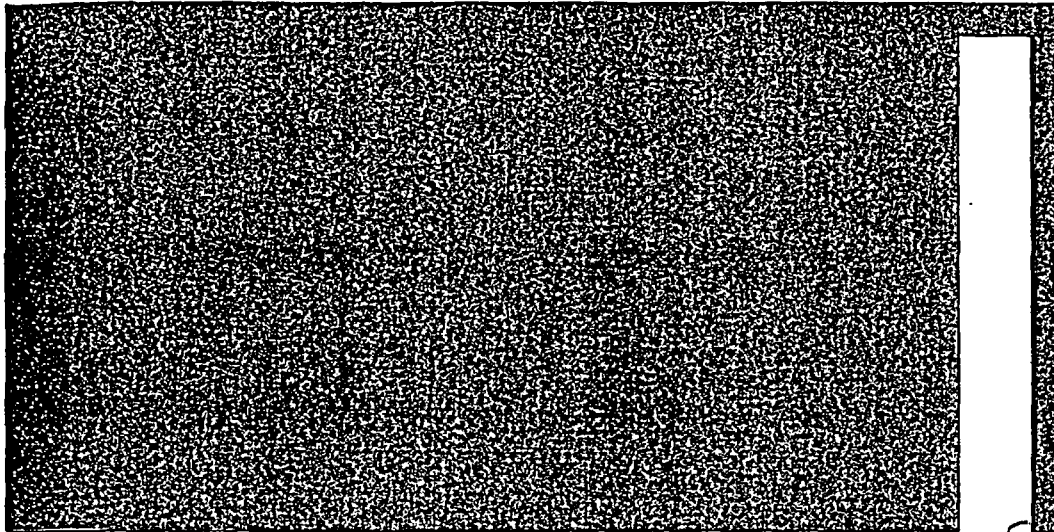


RAS 9635



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GROUNDWATER

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LES Exhibit 7

U.S. NUCLEAR REGULATORY COMMISSION

In the Matter of Louisiana Energy Services, L.P.

Docket No. 70-3103 Official Exhibit No. LES 7

OFFERED by: Applicant/Licensee Intervenor _____

NRC Staff _____

IDENTIFIED on 2/7/05 With _____ Panel Harper/Peery

Action Taken: ADMITTED REJECTED WITHDRAWN

Reporter/Clerk Bethany Engel

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USNRC

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Rocks	Unconsolidated deposits	k (darcy)	k (cm ²)	K (cm/s)	K (m/s)	K (gal/day/ft ²)
Limestone and dolomite		10^5	10^{-3}	10^2	1	10^6
Sandstone		10^4	10^{-4}	10	10^{-1}	10^5
		10^3	10^{-5}	1	10^{-2}	10^4
		10^2	10^{-6}	10^{-1}	10^{-3}	10^3
		10	10^{-7}	10^{-2}	10^{-4}	10^2
		1	10^{-8}	10^{-3}	10^{-5}	10
		10^{-1}	10^{-9}	10^{-4}	10^{-6}	1
		10^{-2}	10^{-10}	10^{-5}	10^{-7}	10^{-1}
		10^{-3}	10^{-11}	10^{-6}	10^{-8}	10^{-2}
		10^{-4}	10^{-12}	10^{-7}	10^{-9}	10^{-3}
		10^{-5}	10^{-13}	10^{-8}	10^{-10}	10^{-4}
		10^{-6}	10^{-14}	10^{-9}	10^{-11}	10^{-5}
		10^{-7}	10^{-15}	10^{-10}	10^{-12}	10^{-6}
		10^{-8}	10^{-16}	10^{-11}	10^{-13}	10^{-7}

	Permeability, k^*			Hydraulic conductivity, K		
	cm ²	ft ²	darcy	m/s	ft/s	U.S. gal/day/ft ²
cm ²	1	1.08×10^{-3}	1.01×10^8	9.80×10^2	3.22×10^3	1.85×10^9
ft ²	9.29×10^2	1	9.42×10^{10}	9.11×10^5	2.99×10^6	1.71×10^{12}
darcy	9.87×10^{-9}	1.06×10^{-11}	1	9.66×10^{-6}	3.17×10^{-5}	1.82×10^1
m/s	1.02×10^{-3}	1.10×10^{-6}	1.04×10^5	1	3.28	2.12×10^6
ft/s	3.11×10^{-4}	3.35×10^{-7}	3.15×10^4	3.05×10^{-1}	1	6.46×10^5
U.S. gal/day/ft ²	5.42×10^{-10}	5.83×10^{-13}	5.49×10^{-2}	4.72×10^{-7}	1.55×10^{-6}	1

*To obtain k in ft^2 , multiply k in cm^2 by 1.08×10^{-3} .