MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS MATERIALS
USING A FLEXIBLE WALL PERMEAMETER
ASTM D 5084 - 16, METHOD C
FLUID: DEAIRED DISTILLED WATER WITH 0.01 M CaCL2

DATE:	7/15/2025
PROJECT NUMBER:	02211341
PROJECT NAME:	GeoPro, Inc
LOCATION:	NA
SAMPLE ID:	TG 120
SAMPLE DESCRIPTION:	Sample Prepared by Geo Pro, Inc

Terracon
15620 W. 113th Street
Lenexa, Kansas 66219
(913) 492-7777

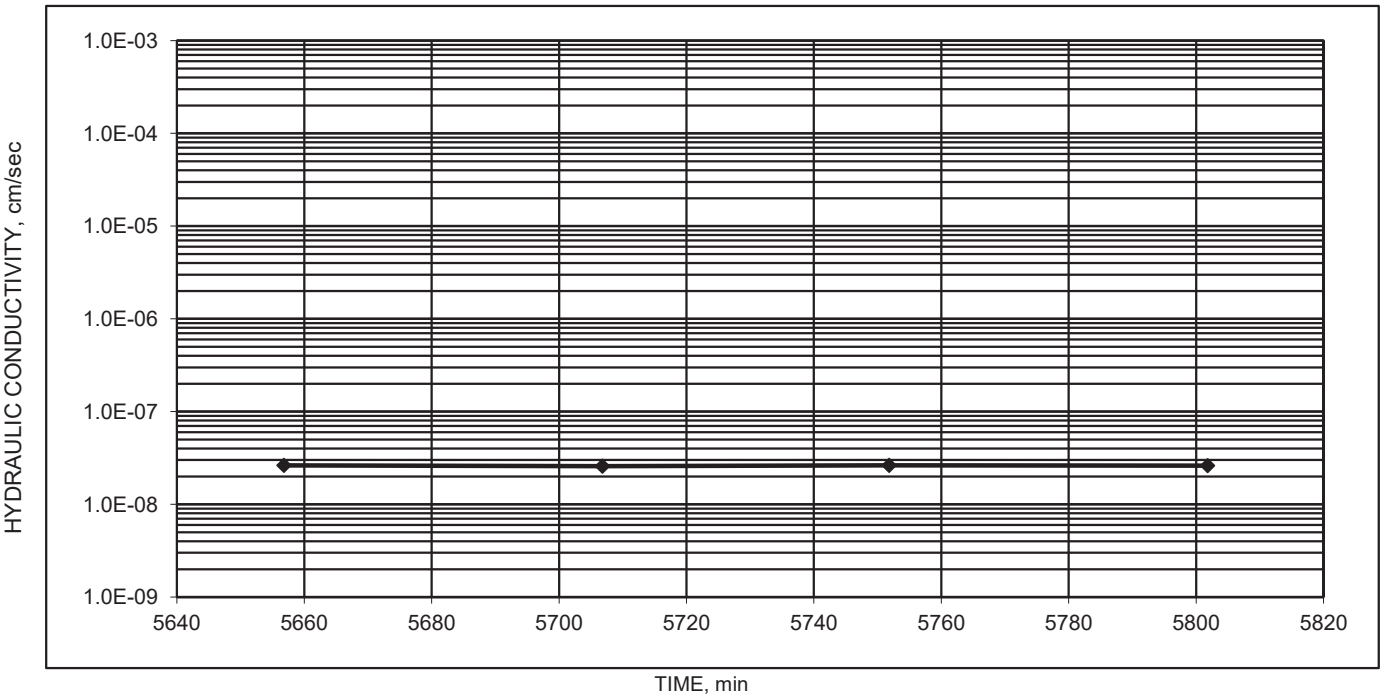
SAMPLE DATA

	INITIAL		ADDITIONAL DATA	
Moisture %:	NA		Sample Recompacted?	NO
Wet Unit Weight, pcf	76.7		Maximum Dry Density, pcf:	NA
Dry Unit Weight, pcf	NA		Optimum Moisture Content, %:	NA
Height, in.	0.99		Compaction, %:	NA
Diameter, in.	2.43		Over Optimum Moisture Content, %:	NA
Saturation, %:	NA		Specific Gravity:	NA
Void Ratio	NA		SG Assumed or Tested	NA
Porosity	NA		B-Value Parameter After Saturation:	94

PERMEATION DATA

Elapsed Time (min.)	Cell Pressure (psi)	Bottom Pressure (psi)	Top Pressure (psi)	Cell Volume (ml)	Bottom Volume (ml)	Top Volume (ml)	In Flow (ml/min.)	Out Flow (ml/min.)	Flow Ratio	Pressure Diff. (psi)	Gradient	k Value cm/sec
5657	64.64	61.12	60.10	0.979	9.458	-8.427	0.00129	0.00131	1.01	0.99	27.7	2.6E-08
5707	64.64	61.12	60.12	0.971	9.522	-8.488	0.00119	0.00134	1.13	0.98	27.4	2.6E-08
5752	64.64	61.13	60.15	0.968	9.580	-8.544	0.00132	0.00122	0.92	0.96	26.9	2.6E-08
5802	64.64	61.13	60.15	0.982	9.643	-8.604	0.00125	0.00126	1.01	0.97	26.9	2.6E-08

HYDRAULIC CONDUCTIVITY (k20), CM/SEC : **2.6E-08**



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MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS MATERIALS
USING A FLEXIBLE WALL PERMEAMETER
ASTM D 5084 - 16, METHOD C
FLUID: DEAIRED DISTILLED WATER WITH 0.01 M CaCL2

DATE:	7/15/2025
PROJECT NUMBER:	02211341
PROJECT NAME:	GeoPro, Inc
LOCATION:	NA
SAMPLE ID:	TG 160
SAMPLE DESCRIPTION:	Sample Prepared by Geo Pro, Inc

Terracon
15620 W. 113th Street
Lenexa, Kansas 66219
(913) 492-7777

SAMPLE DATA

	INITIAL		ADDITIONAL DATA	
Moisture %:	NA		Sample Recompacted?	NA
Wet Unit Weight, pcf	77.3		Maximum Dry Density, pcf:	NA
Dry Unit Weight, pcf	NA		Optimum Moisture Content, %:	NA
Height, in.	0.99		Compaction, %:	NA
Diameter, in.	2.43		Over Optimum Moisture Content, %:	NA
Saturation, %:	NA		Specific Gravity:	NA
Void Ratio	NA		SG Assumed or Tested	NA
Porosity	NA		B-Value Parameter After Saturation:	95

PERMEATION DATA

Elapsed Time (min.)	Cell Pressure (psi)	Bottom Pressure (psi)	Top Pressure (psi)	Cell Volume (ml)	Bottom Volume (ml)	Top Volume (ml)	In Flow (ml/min.)	Out Flow (ml/min.)	Flow Ratio	Pressure Diff. (psi)	Gradient	k Value cm/sec
1100	64.02	60.49	59.40	0.145	2.757	-2.594	0.00174	0.00150	0.86	0.99	27.5	3.3E-08
1125	64.02	60.49	59.41	0.173	2.798	-2.633	0.00166	0.00155	0.93	0.98	27.4	3.3E-08
1150	64.02	60.49	59.40	0.165	2.840	-2.674	0.00166	0.00169	1.02	0.98	27.5	3.4E-08
1175	64.03	60.49	59.40	0.188	2.882	-2.713	0.00160	0.00156	0.98	0.98	27.4	3.2E-08

HYDRAULIC CONDUCTIVITY (k20), CM/SEC : **3.3E-08**