

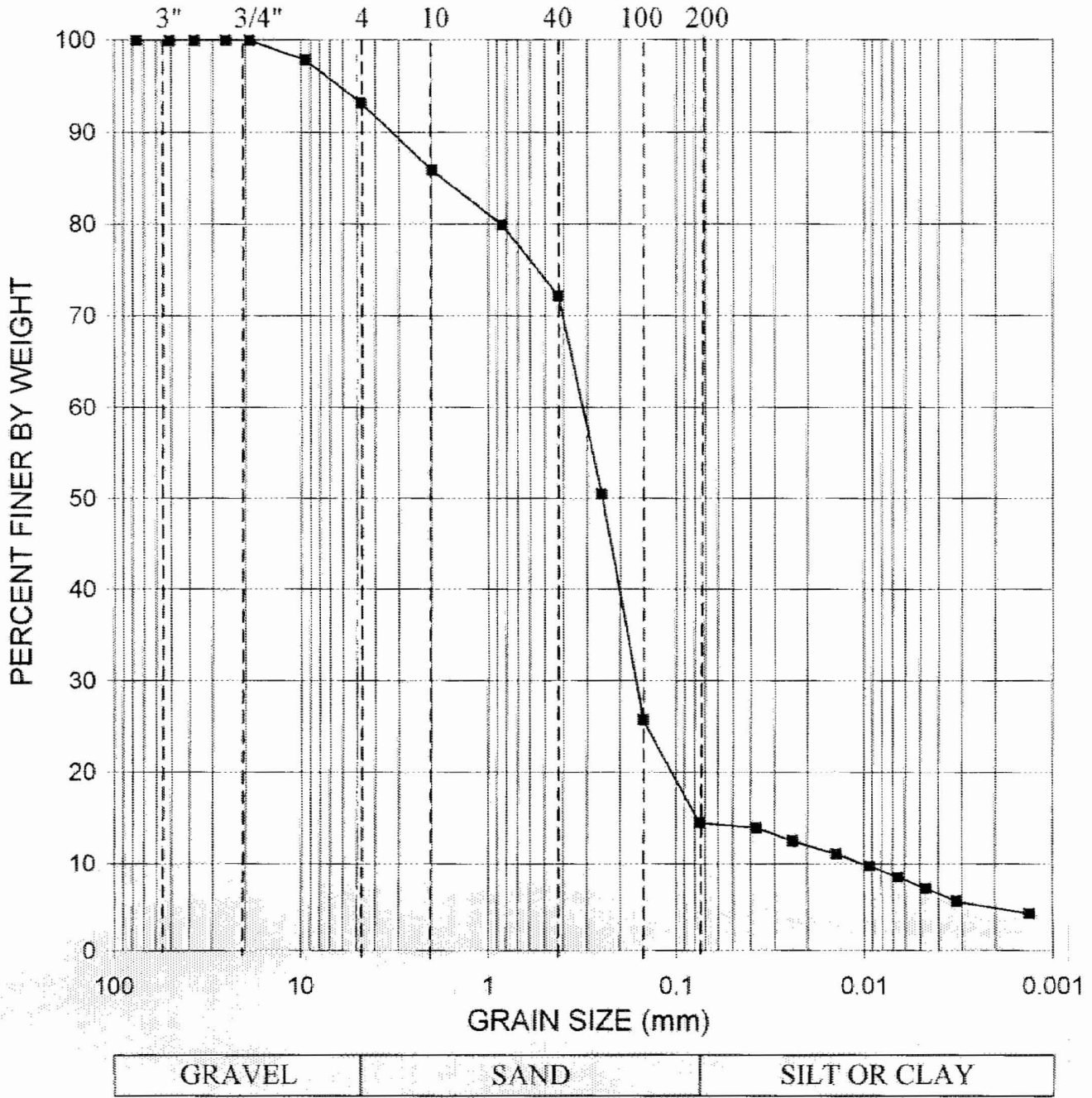
Number: 26

GENERAL INVESTIGATION

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U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

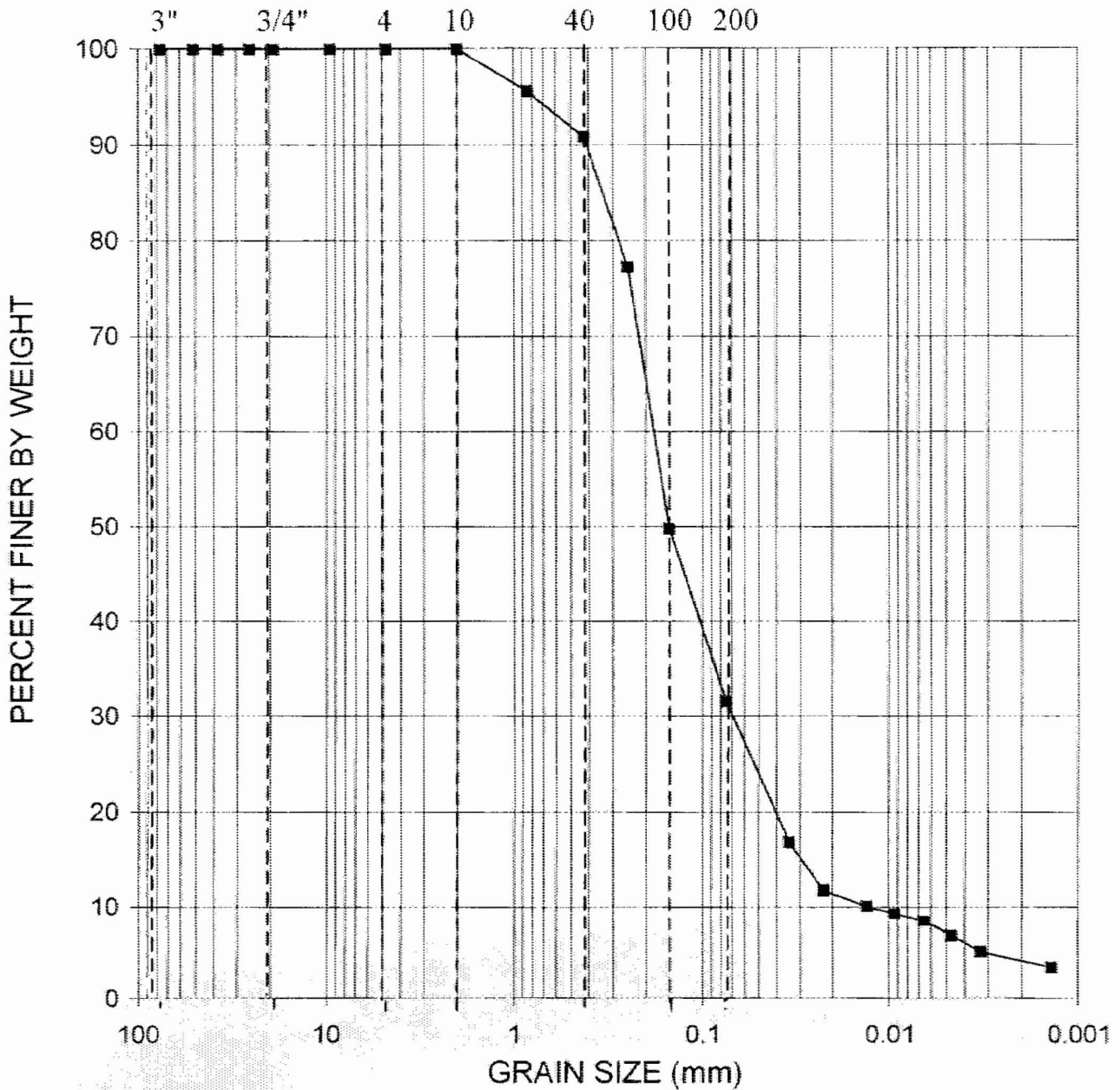
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	1/16/2007
Boring No./ Sample No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-735/ C-16A	63.5-65.0, 68.5-70.0	Silty SAND, trace shells, dark gray	SM				

U.S. Bureau of Census



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U.S. Standard Sieve Nos.



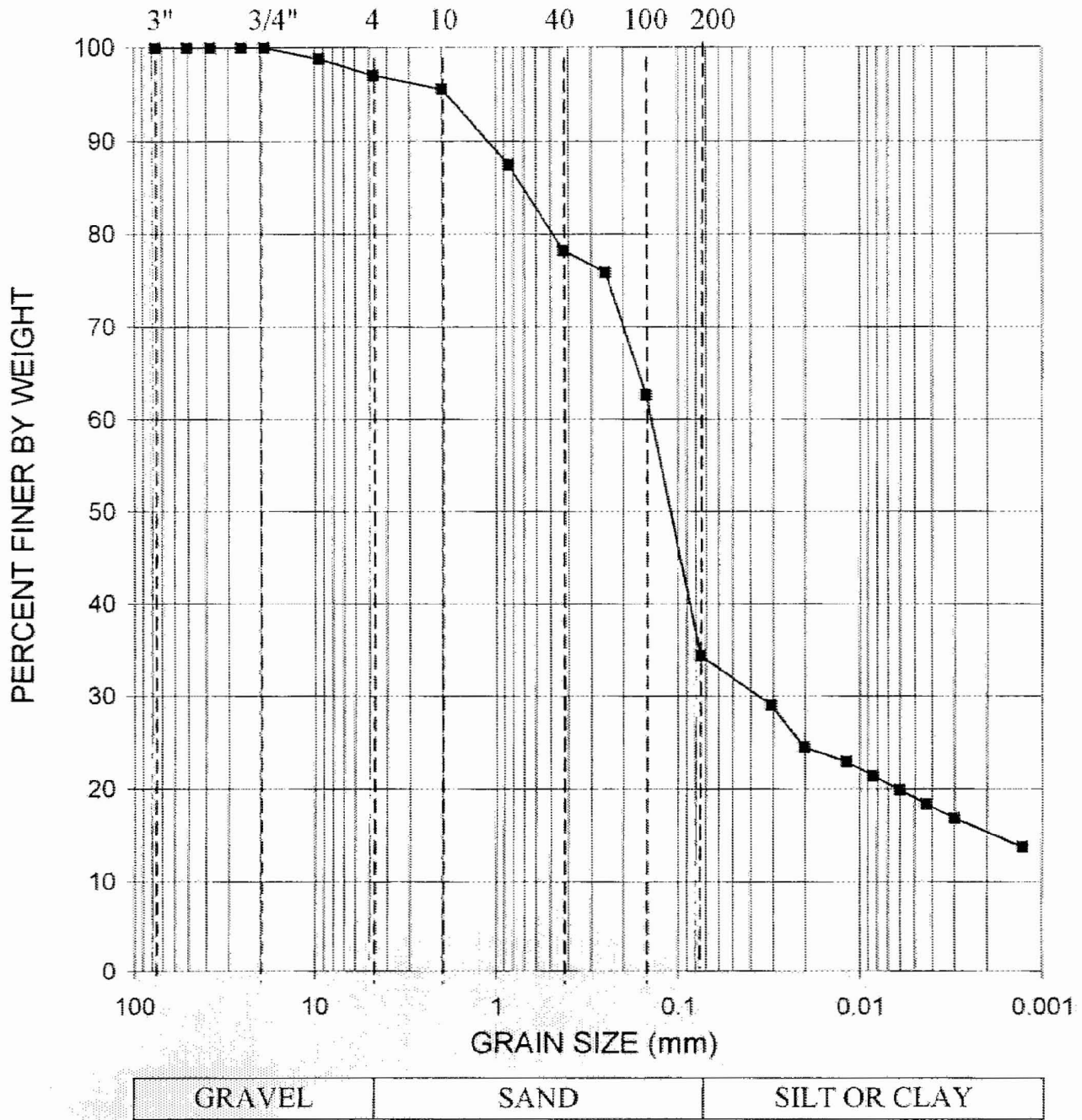
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	1/16/2007
Boring No./ Sample No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-744/C-17A	48.5-50.0, 53.5-55.0	Silty SAND, contains shells, dark gray	SM				



U.S. Standard Sieve Nos.

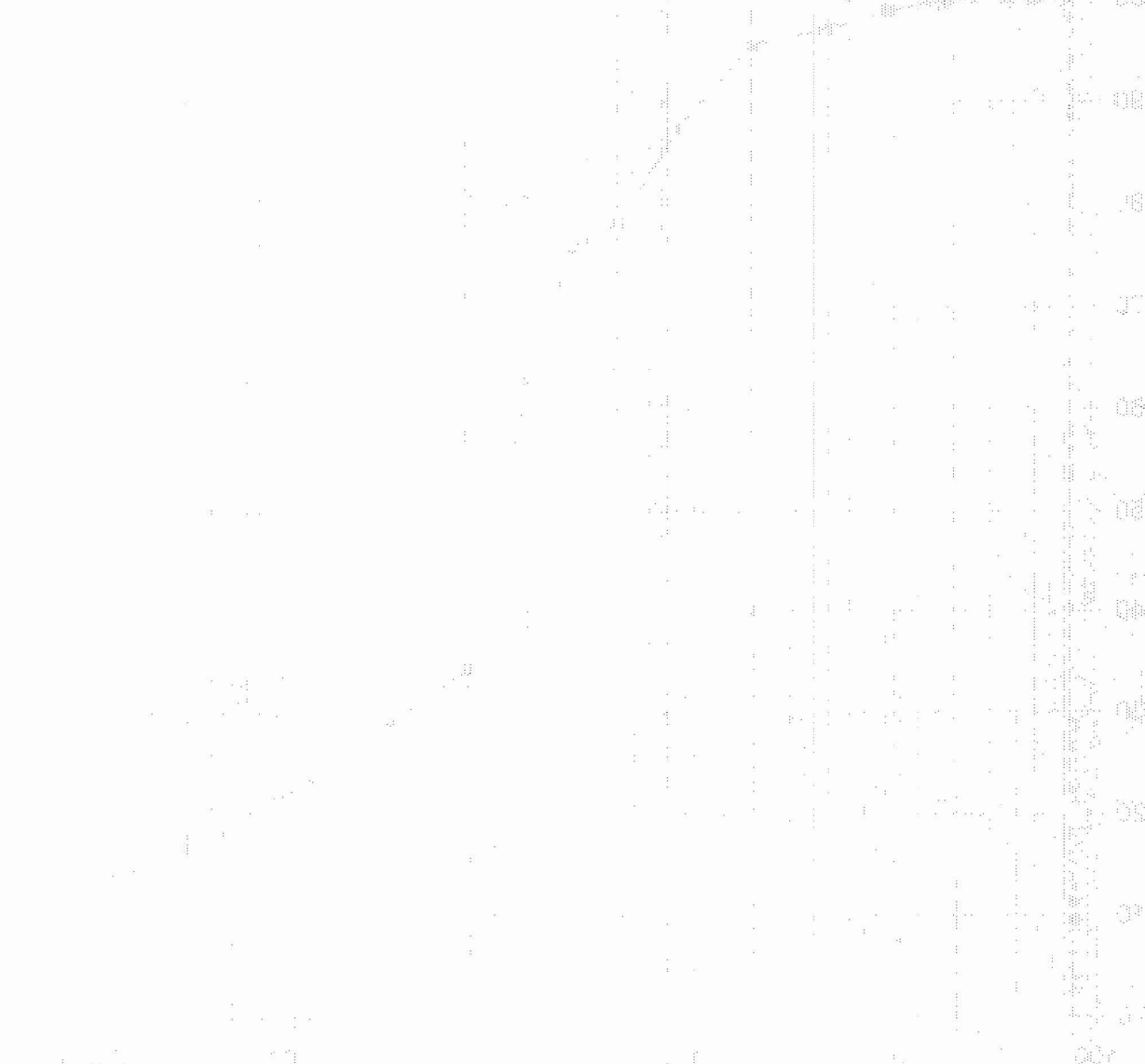


GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	1/16/2007
Boring No./ Sample No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-756/ C-18A	33.5-35.0, 38.5-40.0	Clayey SAND, trace gravel, orange-brown	SC			

# PHYSICS

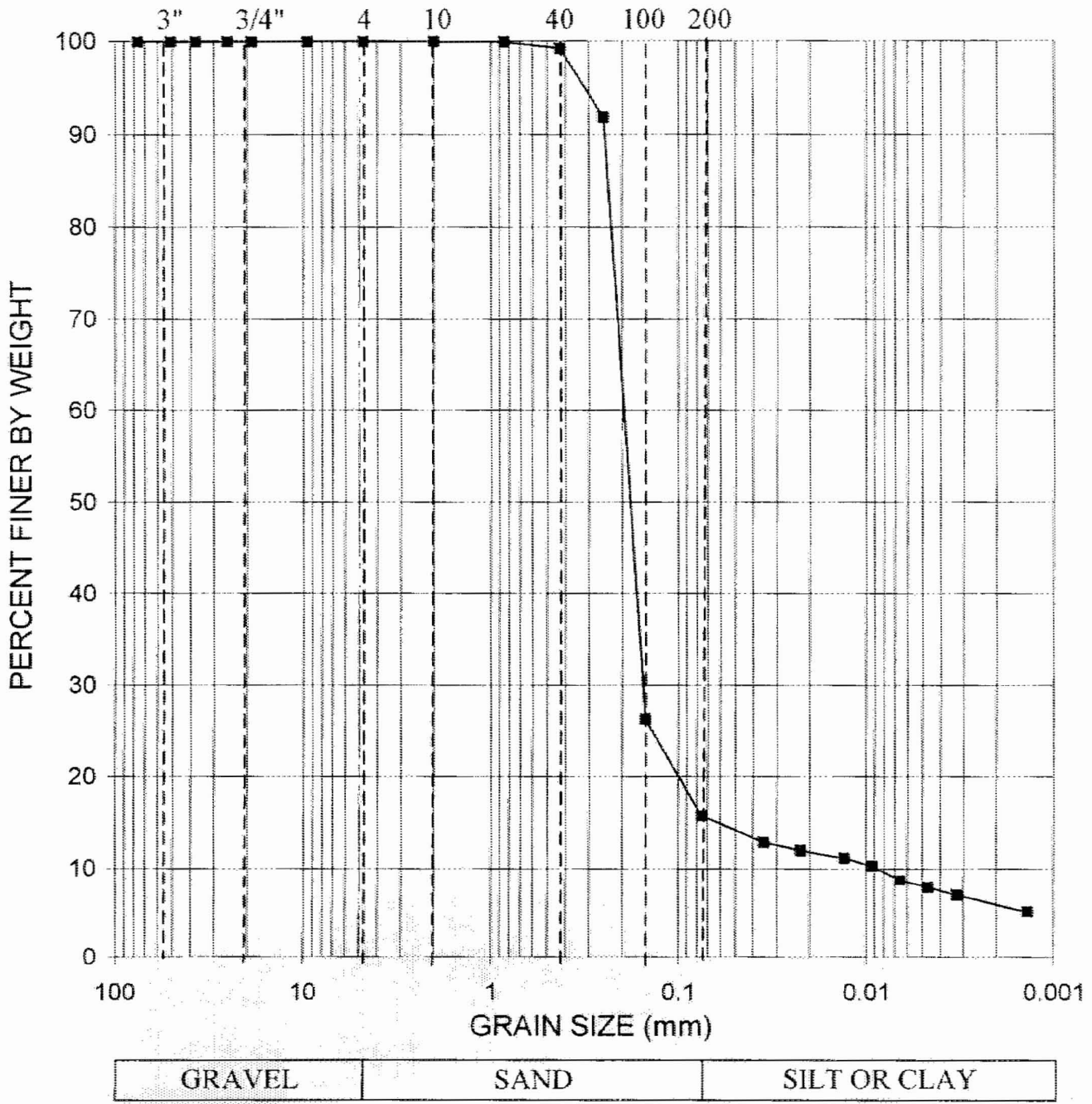
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Graph showing Distance vs. Time

Name	Roll No.	Date	Page No.
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U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	1/16/2007
Boring No./ Sample No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-768/ C-19A	43.5-45.0	Silty SAND, dark gray	SM				



STATION 100



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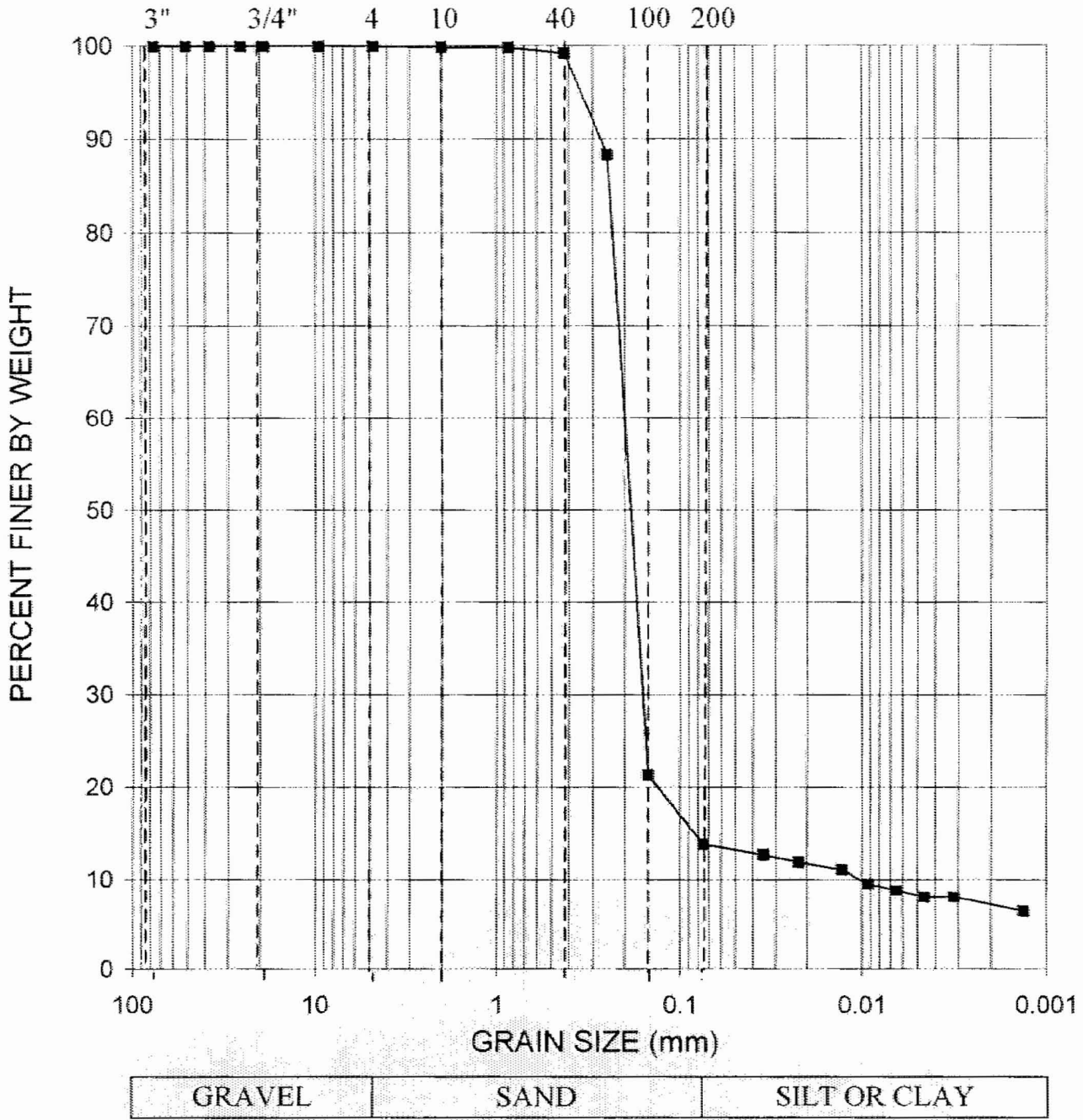
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U.S. Standard Sieve Nos.



GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	1/16/2007
Boring No./ Sample No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-769/C-20A	43.5-45.0, 48.5-50.0	Clayey SAND, dark gray	SC			

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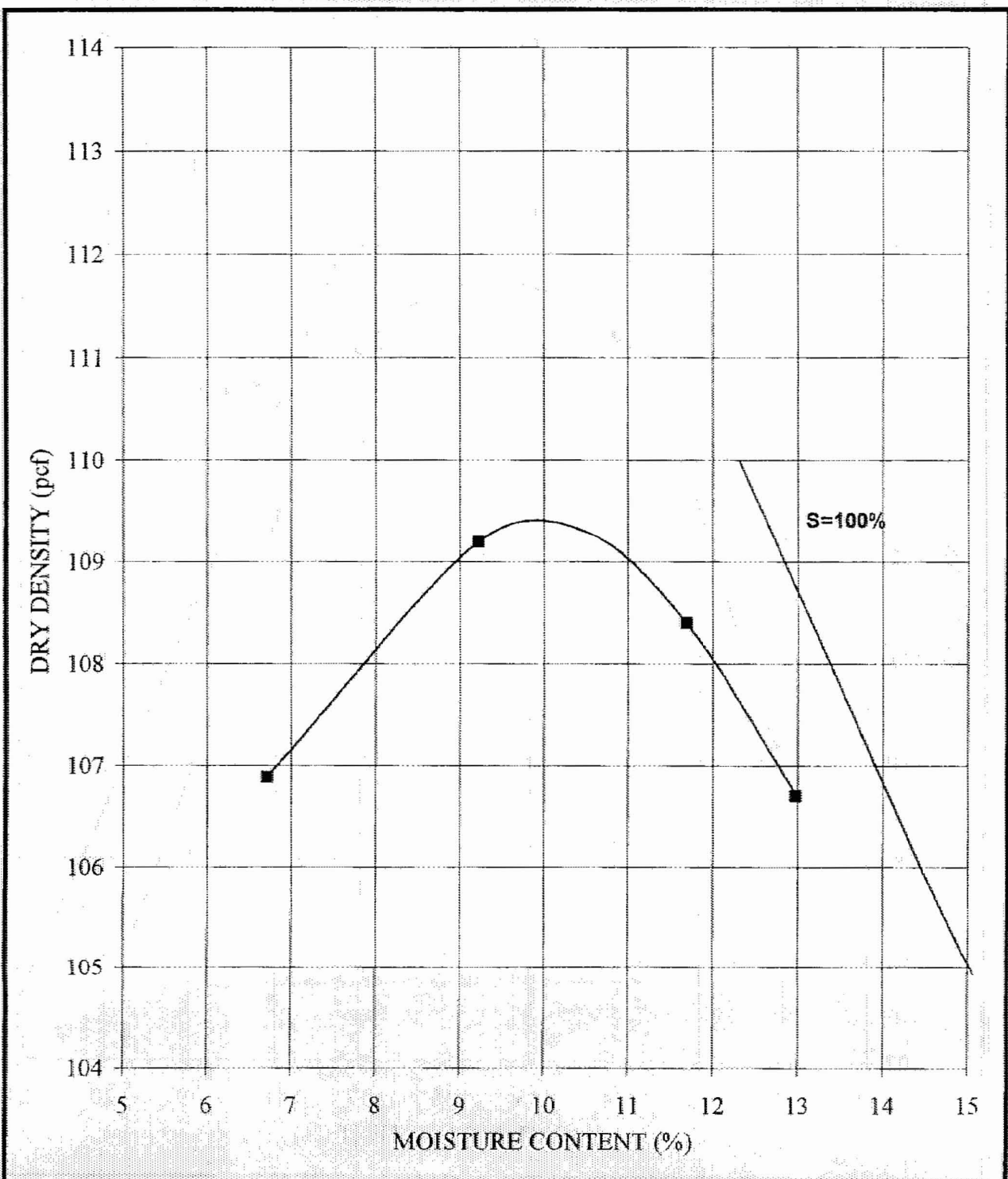
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**W. L. ...**  
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**MOISTURE DENSITY RELATIONSHIPS**

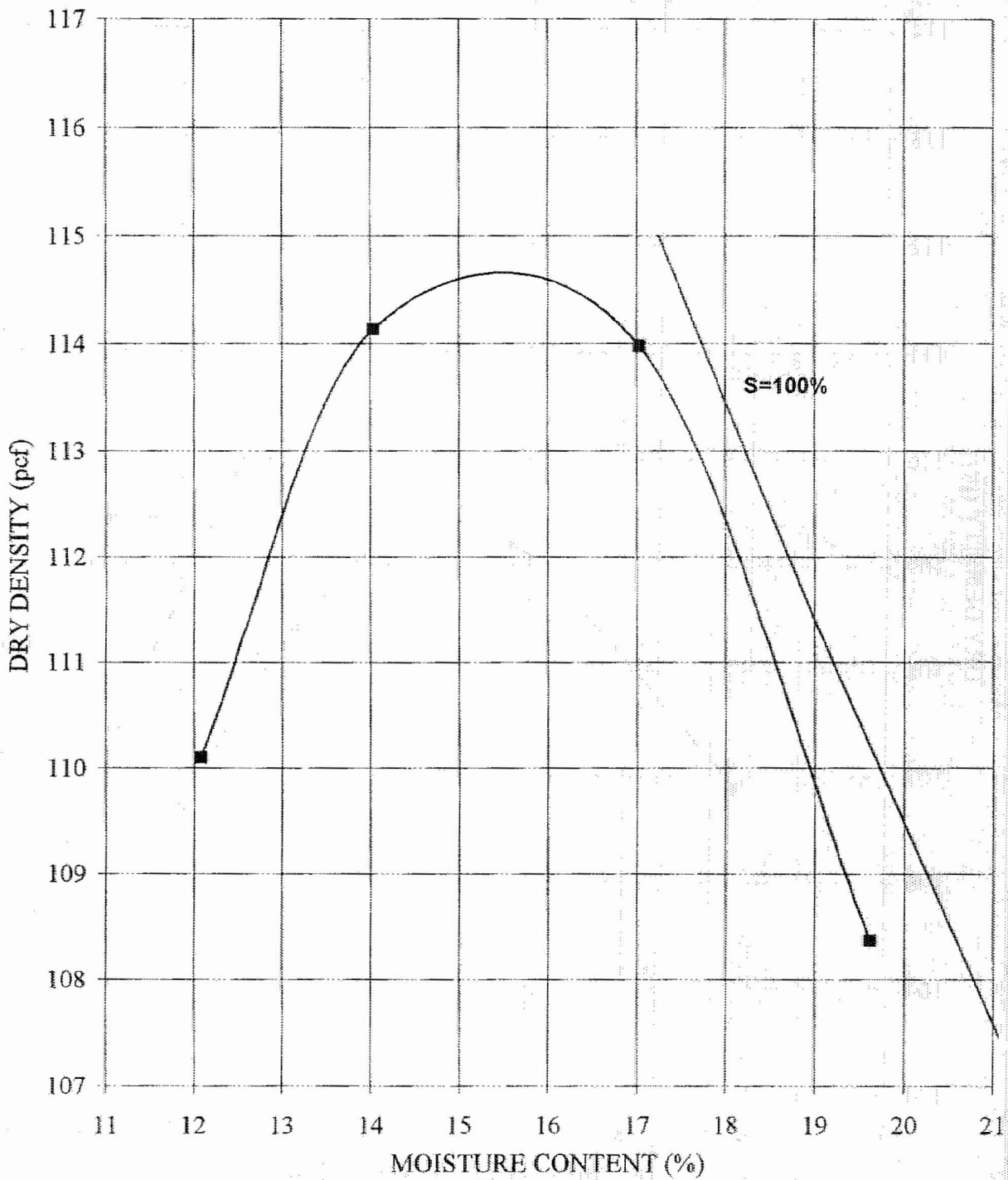
1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

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**MOISTURE-DENSITY RELATION**  
ASTM D-1557 Method A

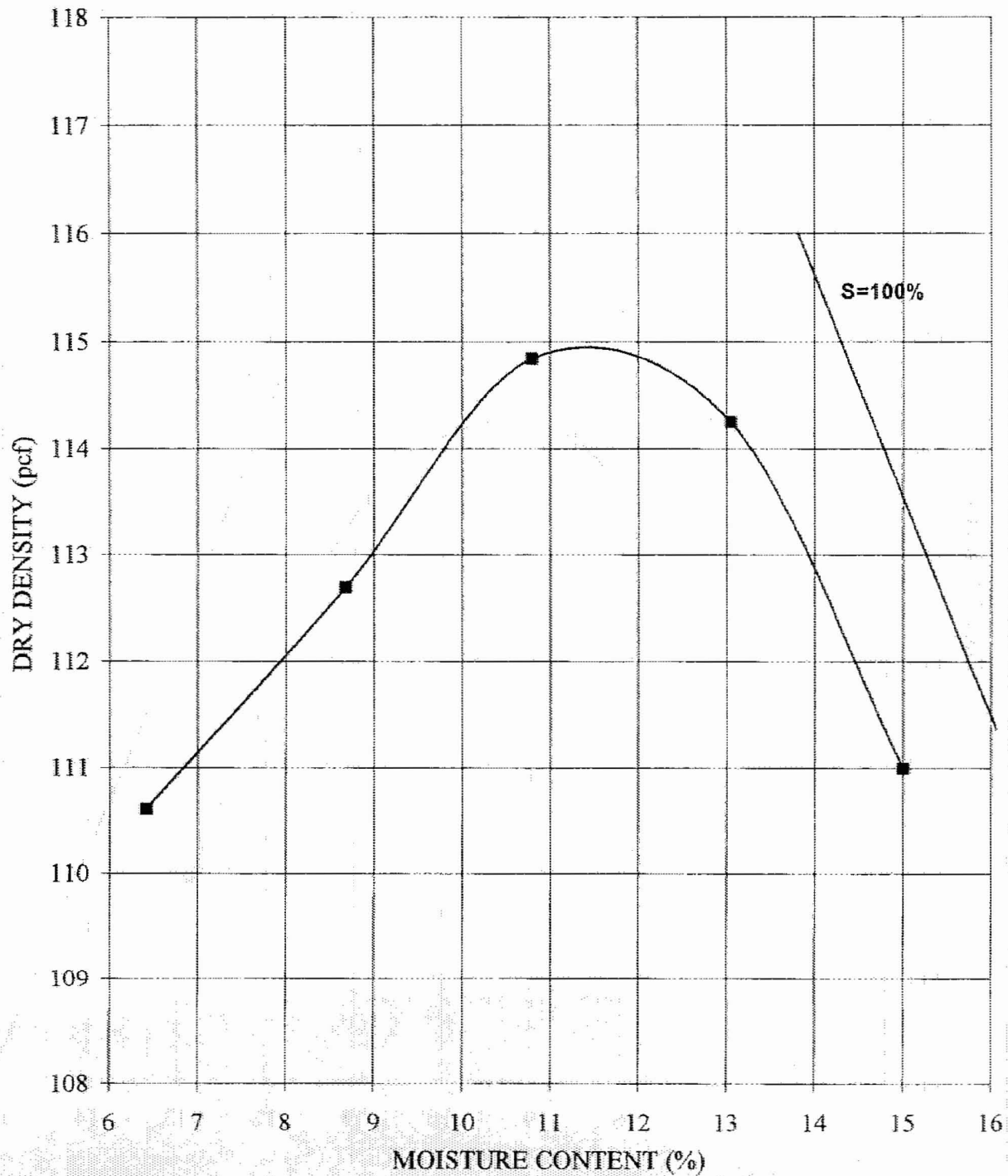
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI			
TP-B-307	4.5-5.5	Poorly Graded SAND, with silt, brown	SP-SM					
Assumed Specific Gravity:	2.25	% Passing 3/4" Sieve:	100.0					
		% Passing #4 Sieve:	100.0					
Maximum Dry Density (pcf):	109.3	Optimum Moisture Content (%):	10.5					



**MOISTURE-DENSITY RELATION**


ASTM D-1557 Method A

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:		06120048.00	Date:	9/26/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI				
TP-B-314	4.0-5.0	FAT CLAY, trace sand, gray-brown	CH	71	47				
Assumed Specific Gravity:		2.70	% Passing 3/4" Sieve:		100.0				
Maximum Dry Density (pcf):		114.6	Optimum Moisture Content (%):		15.5				

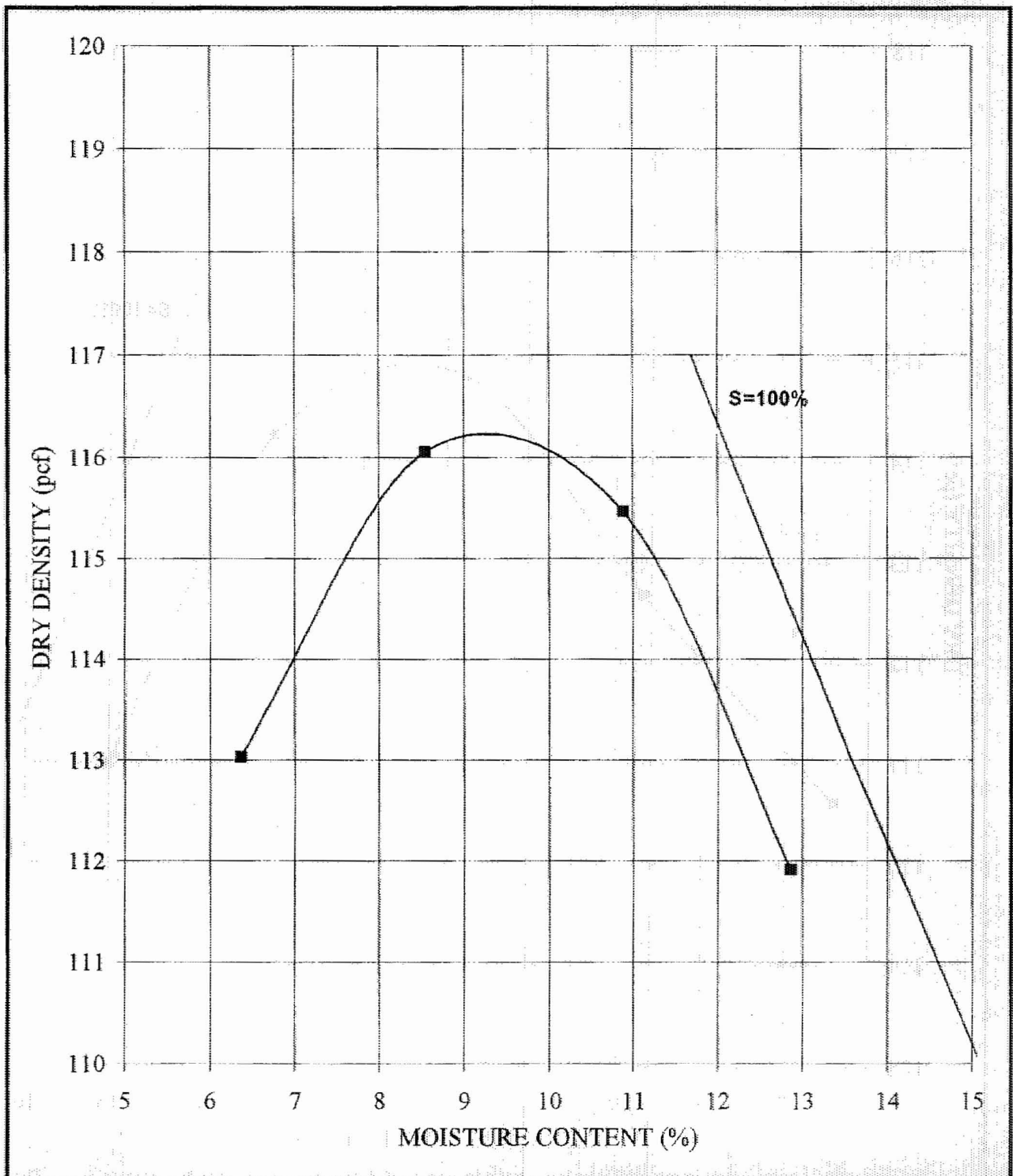


**MOISTURE-DENSITY RELATION**

ASTM D-1557 Method A


Project:	Constellation Energy Group COLA Project Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
TP-B-315	6.0-7.0	Poorly Graded SAND, with silt, tan	SP-SM				
Assumed Specific Gravity:	2.50	% Passing 3/4" Sieve:	100.0				
		% Passing #4 Sieve:	99.8				
Maximum Dry Density (pcf):	114.9	Optimum Moisture Content (%):	11.4				

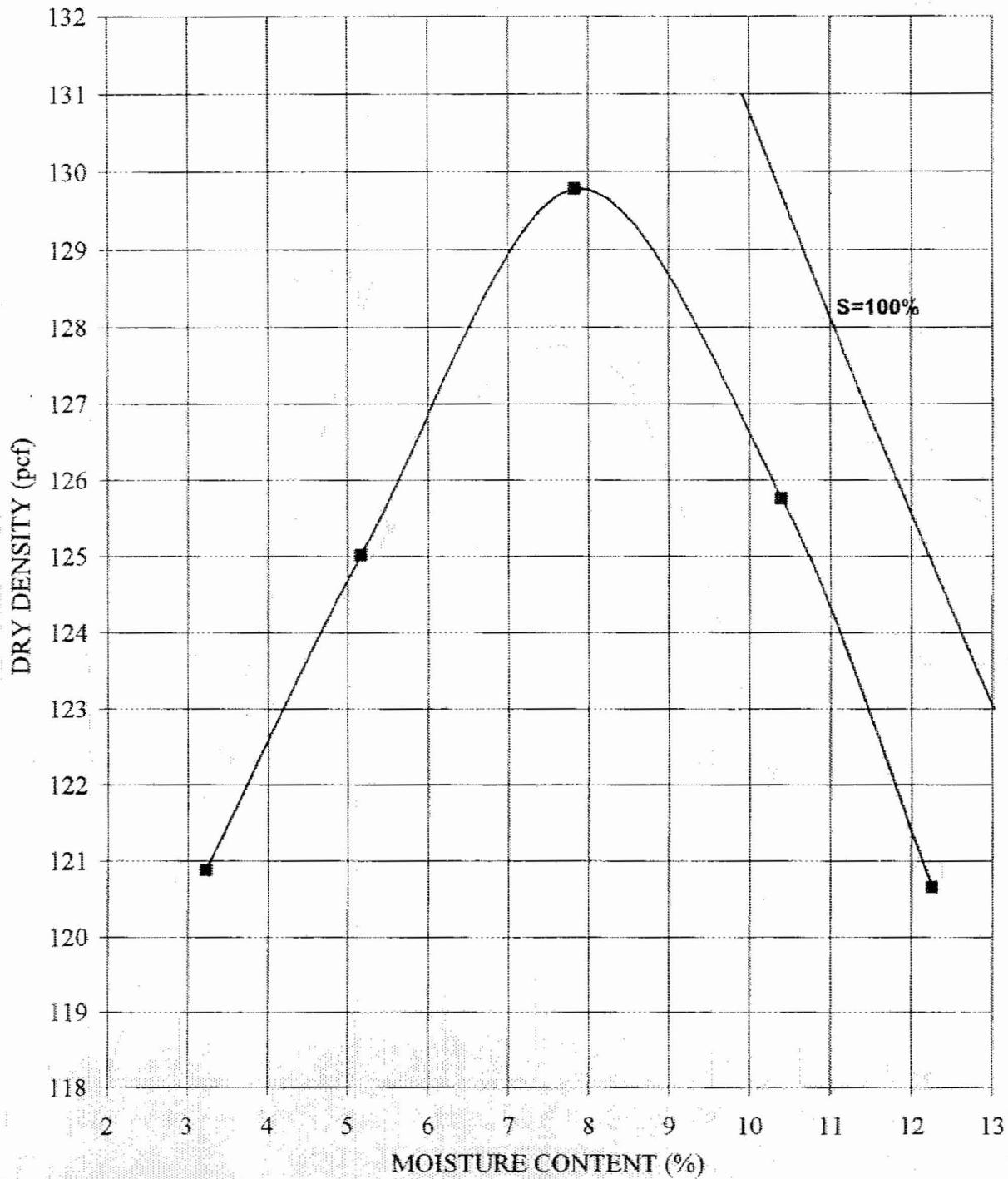




**MOISTURE-DENSITY RELATION**


ASTM D-1557 Method A

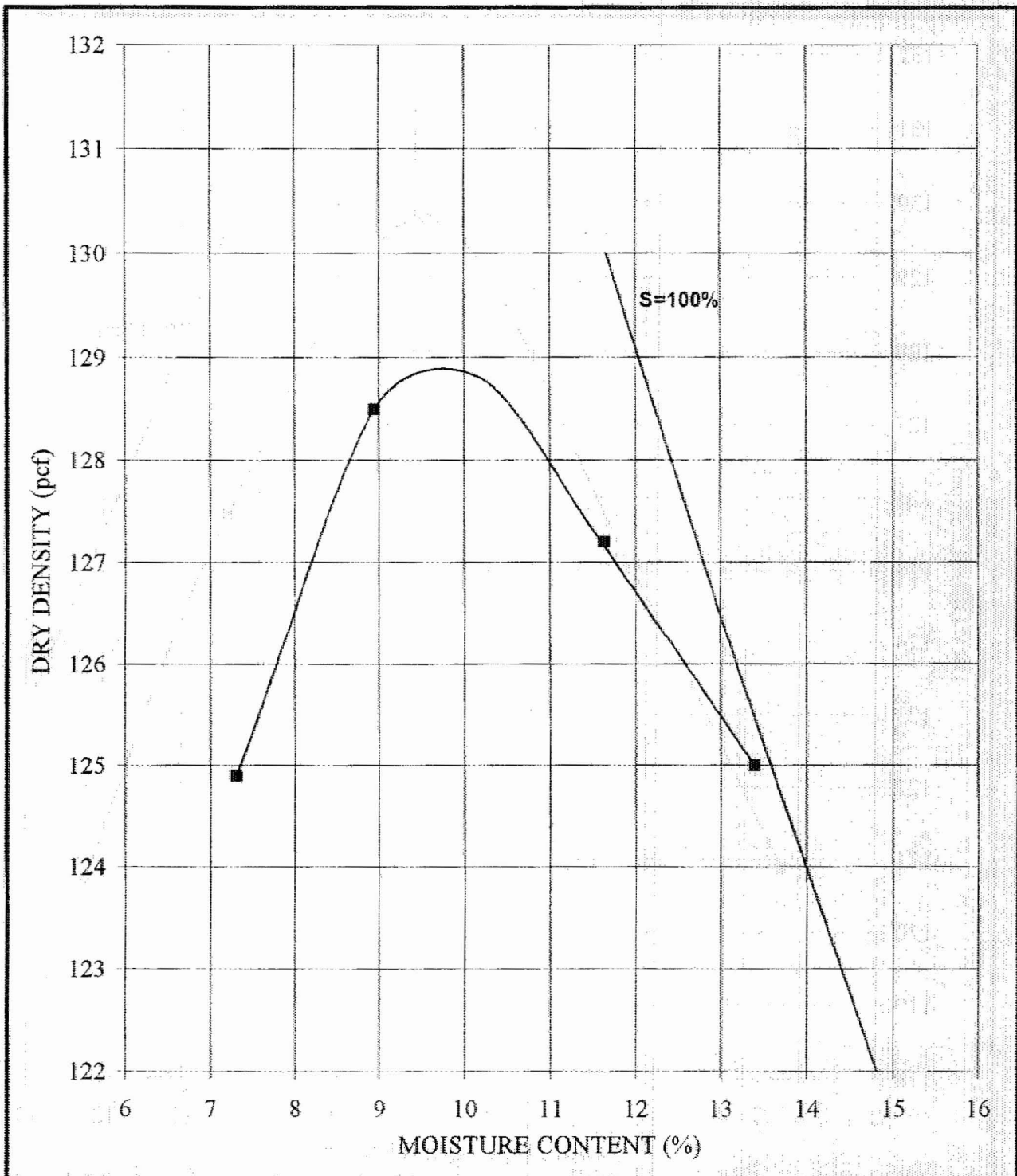
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	9/20/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
TP-B-334	3.0-4.0	Silty SAND, brown	SM					
Assumed Specific Gravity:	2.40	% Passing 3/4" Sieve:	100.0					
		% Passing #4 Sieve:	100.0					
Maximum Dry Density (pcf):	116.3	Optimum Moisture Content (%):	9.3					



**MOISTURE-DENSITY RELATION**


ASTM D-1557 Method A

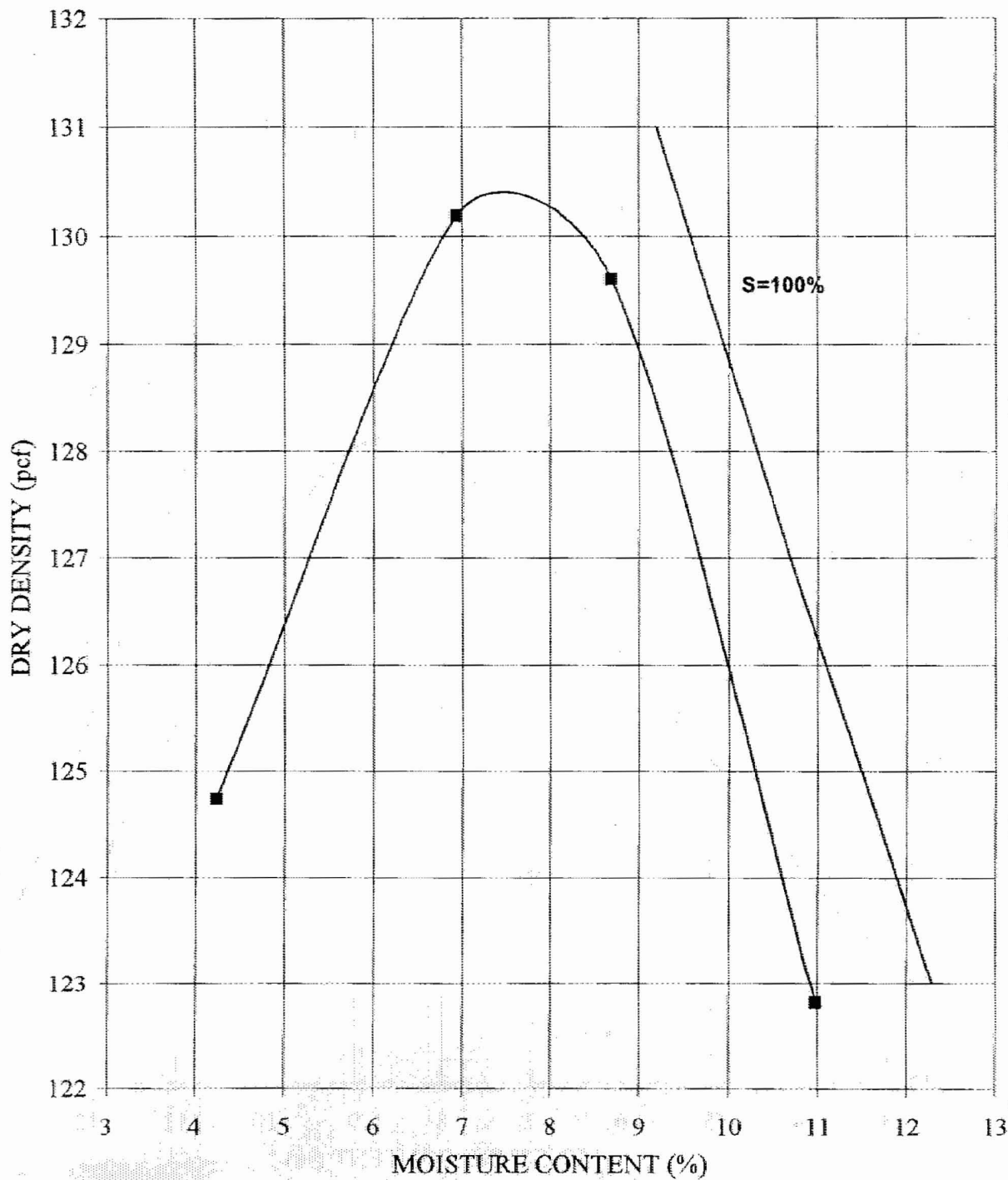
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Boring No.	Depth (ft)	Sample Description		Class.	LL	PI			
TP-B-334	6.0-7.0	Silty SAND, brown-gray		SM					
Assumed Specific Gravity:		2.65	% Passing 3/4" Sieve:		100.0				
			% Passing #4 Sieve:		100.0				
Maximum Dry Density (pcf):		129.8	Optimum Moisture Content (%):		8.0				



**MOISTURE-DENSITY RELATION**


ASTM D-1557 Method A

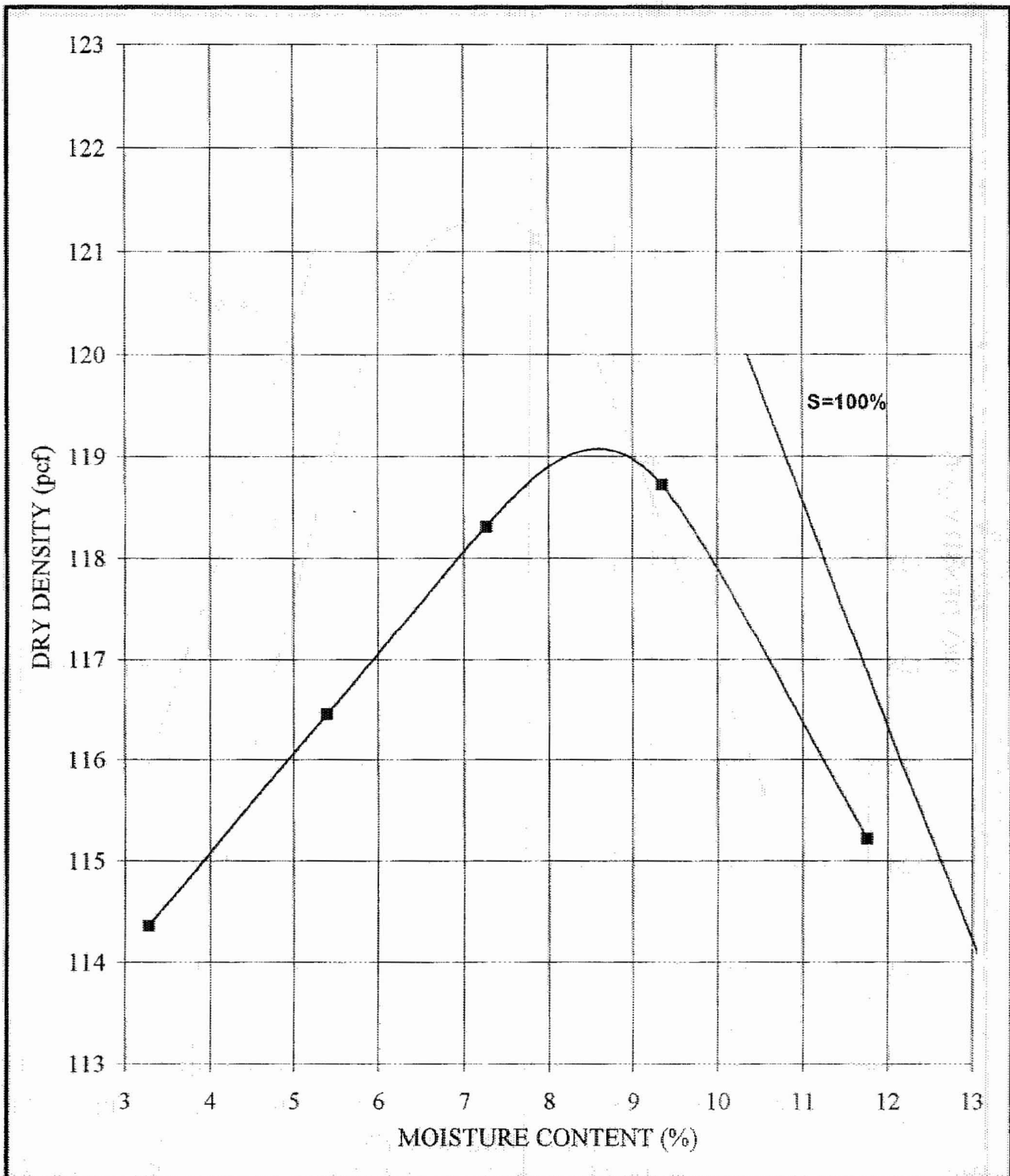
Project:	Constellation Energy Group COEA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	9/13/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI			
TP-B-335	3.0-4.0	Sandy LEAN CLAY, dark brown	CL	30	10			
Assumed Specific Gravity:	2.75	% Passing 3/4" Sieve:	100.0					
		% Passing #4 Sieve:	100.0					
Maximum Dry Density (pcf):	128.8	Optimum Moisture Content (%):	9.9					



**MOISTURE-DENSITY RELATION**


ASTM D-1557 Method A

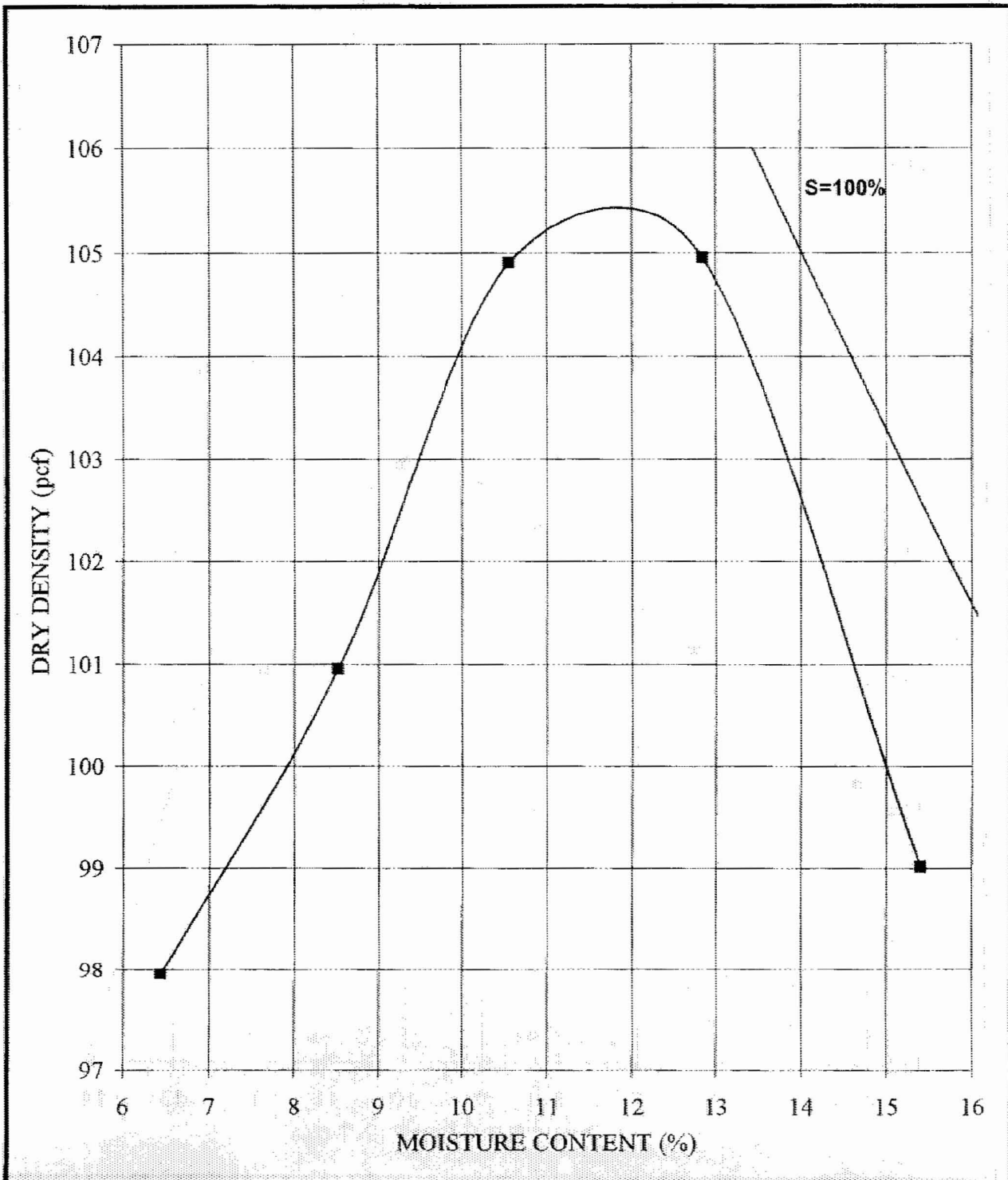
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/20/2006
Boring No.:	Depth (ft):	Sample Description:	Class:	LL:	PI:			
TP-B-335	5.0-6.0	Silty SAND, brown	SM					
Assumed Specific Gravity:		2.60	% Passing 3/4" Sieve:	100.0				
			% Passing #4 Sieve:	100.0				
Maximum Dry Density (pcf):	130.5	Optimum Moisture Content (%):	7.6					



**MOISTURE-DENSITY RELATION**


ASTM D-1557 Method A

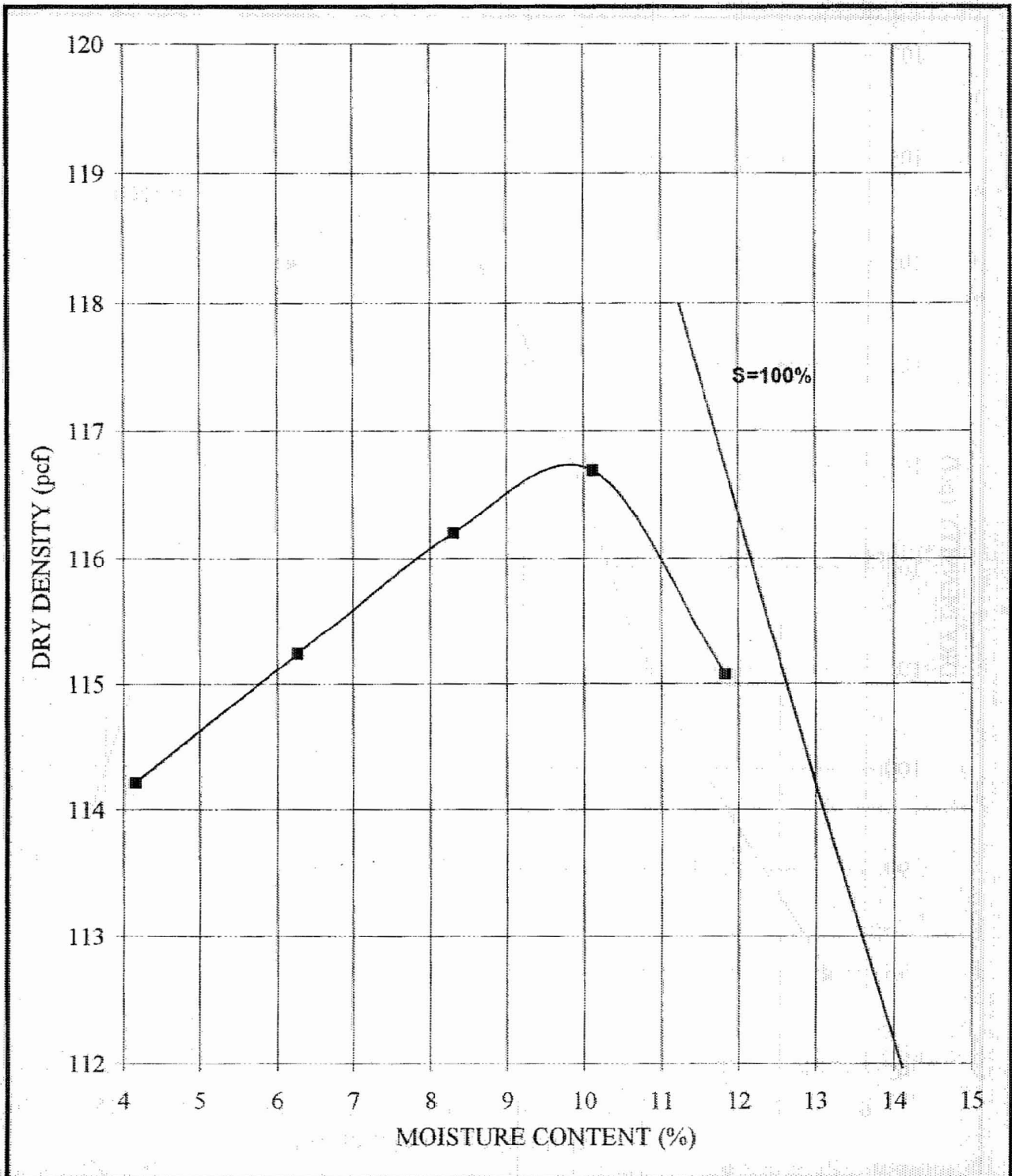
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:		06120048.00	Date:	9/18/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI				
TP-B-407	4.5-5.5	Well Graded SAND, with silt, trace gravel, dark	SW-SM						
Assumed Specific Gravity:		2.40	% Passing 3/4" Sieve:		100.0				
Maximum Dry Density (pcf):		119.1	Optimum Moisture Content (%):		8.6				




**MOISTURE-DENSITY RELATION**

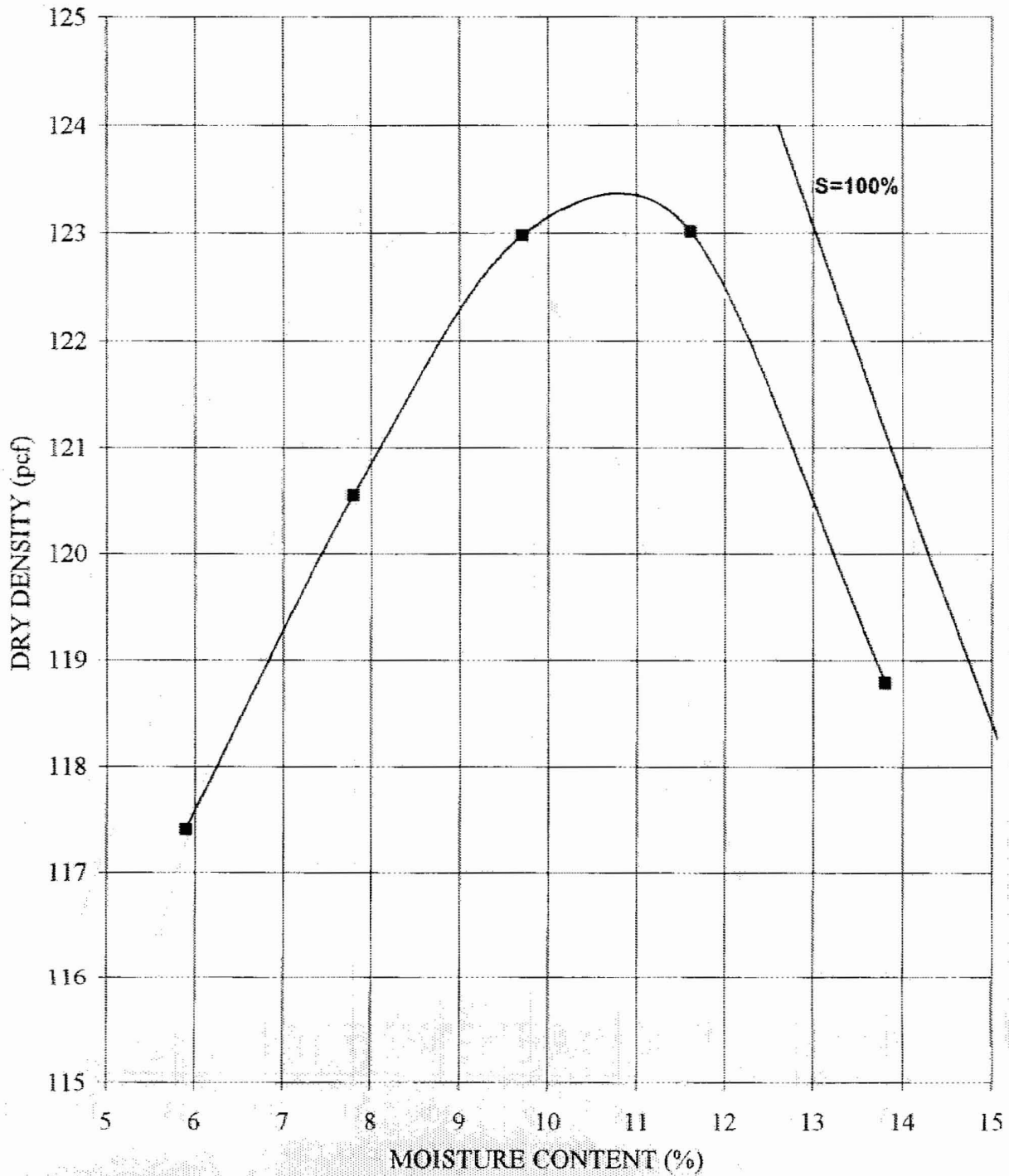
ASTM D-1557 Method A

Project:		Constellation Energy Group COLA Project Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:		06120048.00	Date:	9/21/2006
Boring No.:	Depth (ft):	Sample Description:	Class:	LL:	PI:				
TP-B-414	6.0-7.0	Poorly Graded SAND, with silt, light brown	SP-SM						
Assumed Specific Gravity:		2.20	% Passing 3/4" Sieve:		100.0				
Maximum Dry Density (pcf):		105.4	% Passing #4 Sieve:		100.0				
		Optimum Moisture Content (%):		11.9					




**MOISTURE-DENSITY RELATION**  
ASTM D-1557 Method A

Project:	Constellation Energy Group COEA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
TP-B-415	3.0-4.0	Poorly Graded SAND, trace silt, light brown	SP				
Assumed Specific Gravity:	2.40	% Passing 3/4" Sieve:	100.0				
		% Passing #4 Sieve:	99.8				
Maximum Dry Density (pcf):	116.7	Optimum Moisture Content (%):	9.8				

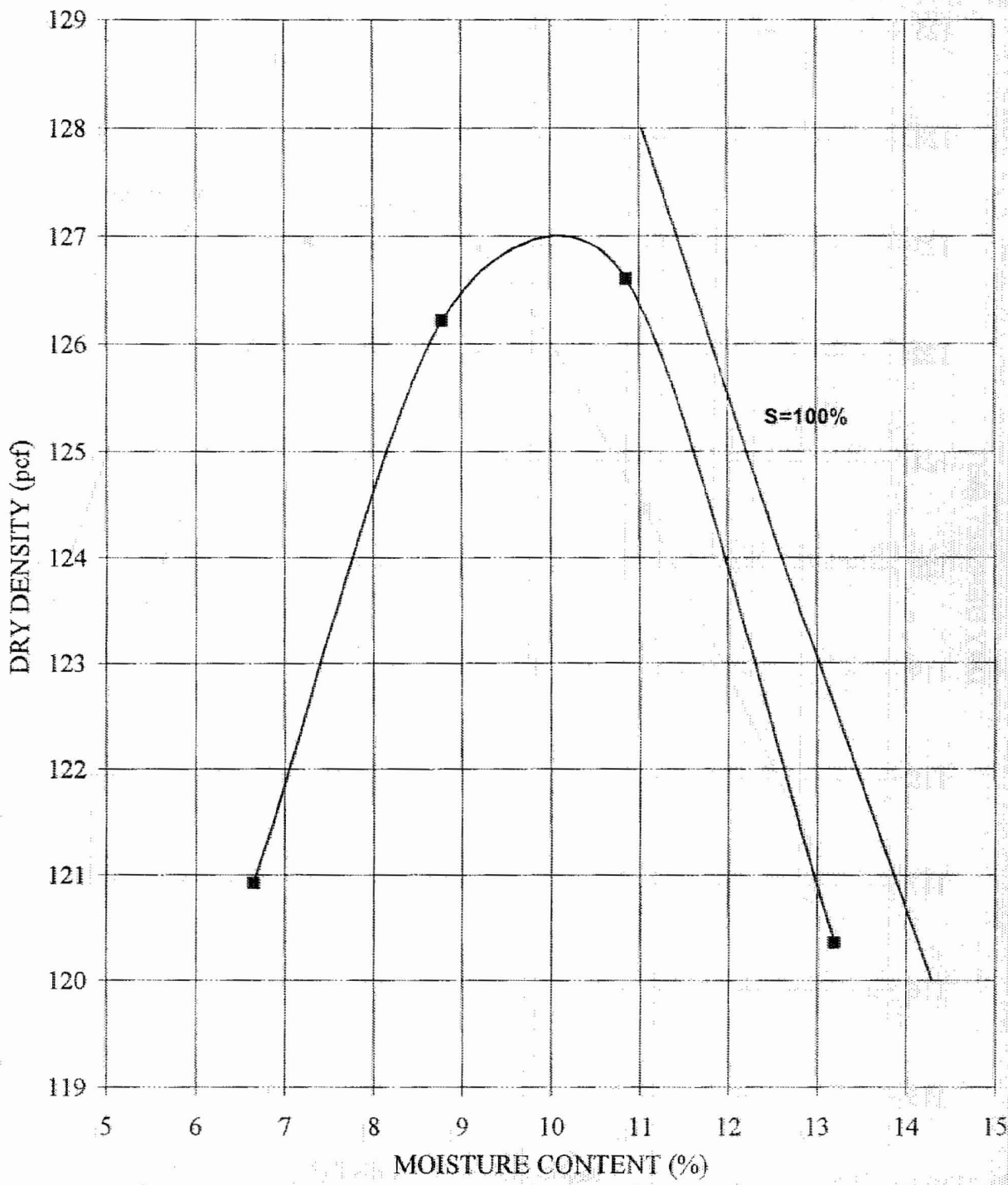


**MOISTURE-DENSITY RELATION**


ASTM D-1557 Method A

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	9/18/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI			
TP-B-423	5.0-6.0	Sandy LEAN CLAY, dark brown	CL	24	8			
Assumed Specific Gravity:	2.65	% Passing 3/4" Sieve:	100.0					
		% Passing #4 Sieve:	100.0					
Maximum Dry Density (pcf):	123.4	Optimum Moisture Content (%):	10.8					





**MOISTURE-DENSITY RELATION**  
ASTM D-1557 Method A

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
TP-B-434	2.0-3.0	Sandy LEAN CLAY, dark brown	CL	25	7		
Assumed Specific Gravity:	2.65	% Passing 3/4" Sieve:	100.0				
		% Passing #4 Sieve:	99.8				
Maximum Dry Density (pcf):	127.1	Optimum Moisture Content (%):	10.1				