
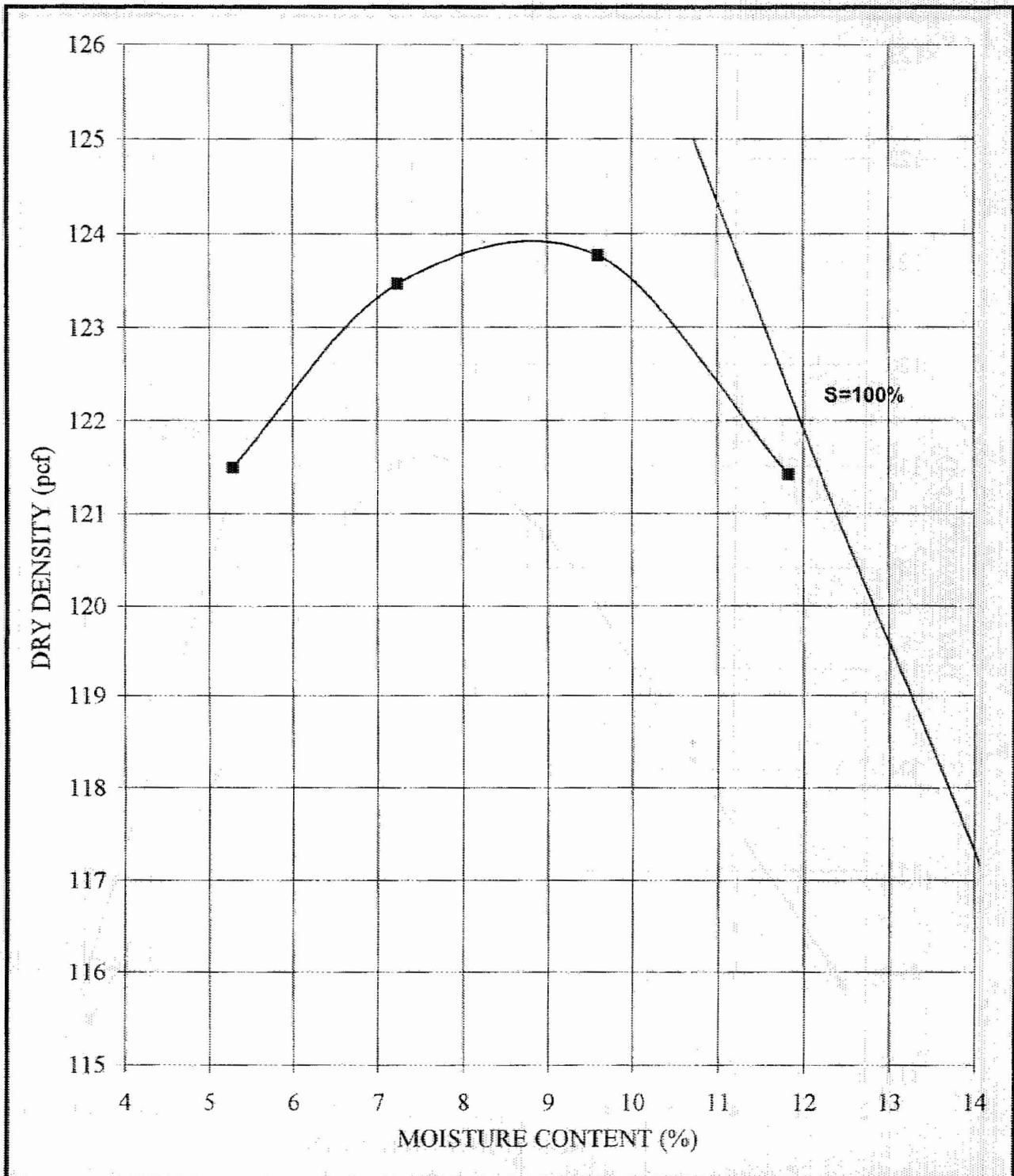


MOISTURE-DENSITY RELATION


ASTM D-1557 Method A

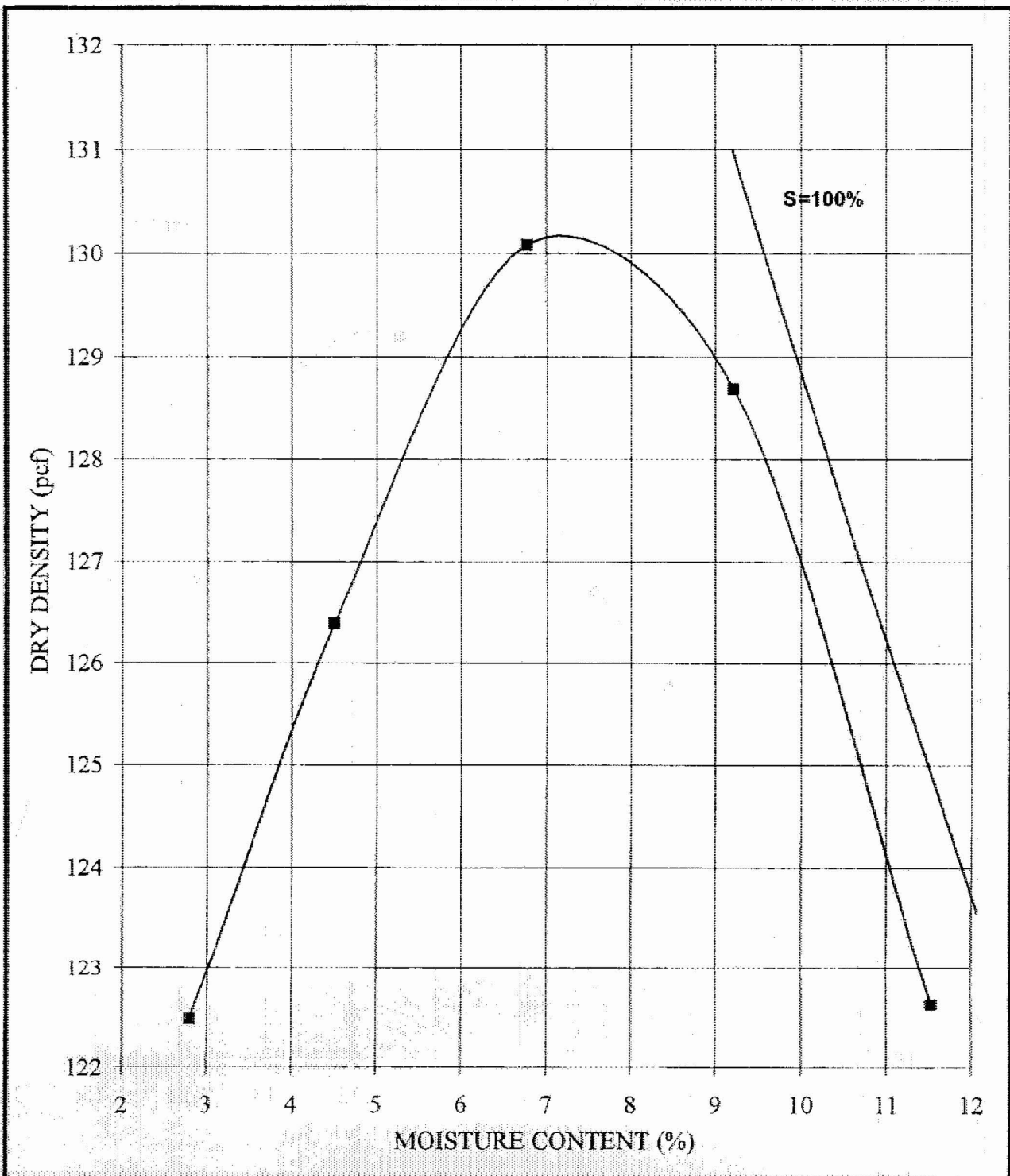
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/26/2006
Boring No.:	Depth (ft):	Sample Description:	Class:	LL:	PI:			
B-435	5.0-6.0	Silty SAND, brown	SM					
Assumed Specific Gravity:	2.45	% Passing 3/4" Sieve:	100.0					
		% Passing #4 Sieve:	100.0					
Maximum Dry Density (pcf):	119.1	Optimum Moisture Content (%):	8.9					




MOISTURE-DENSITY RELATION

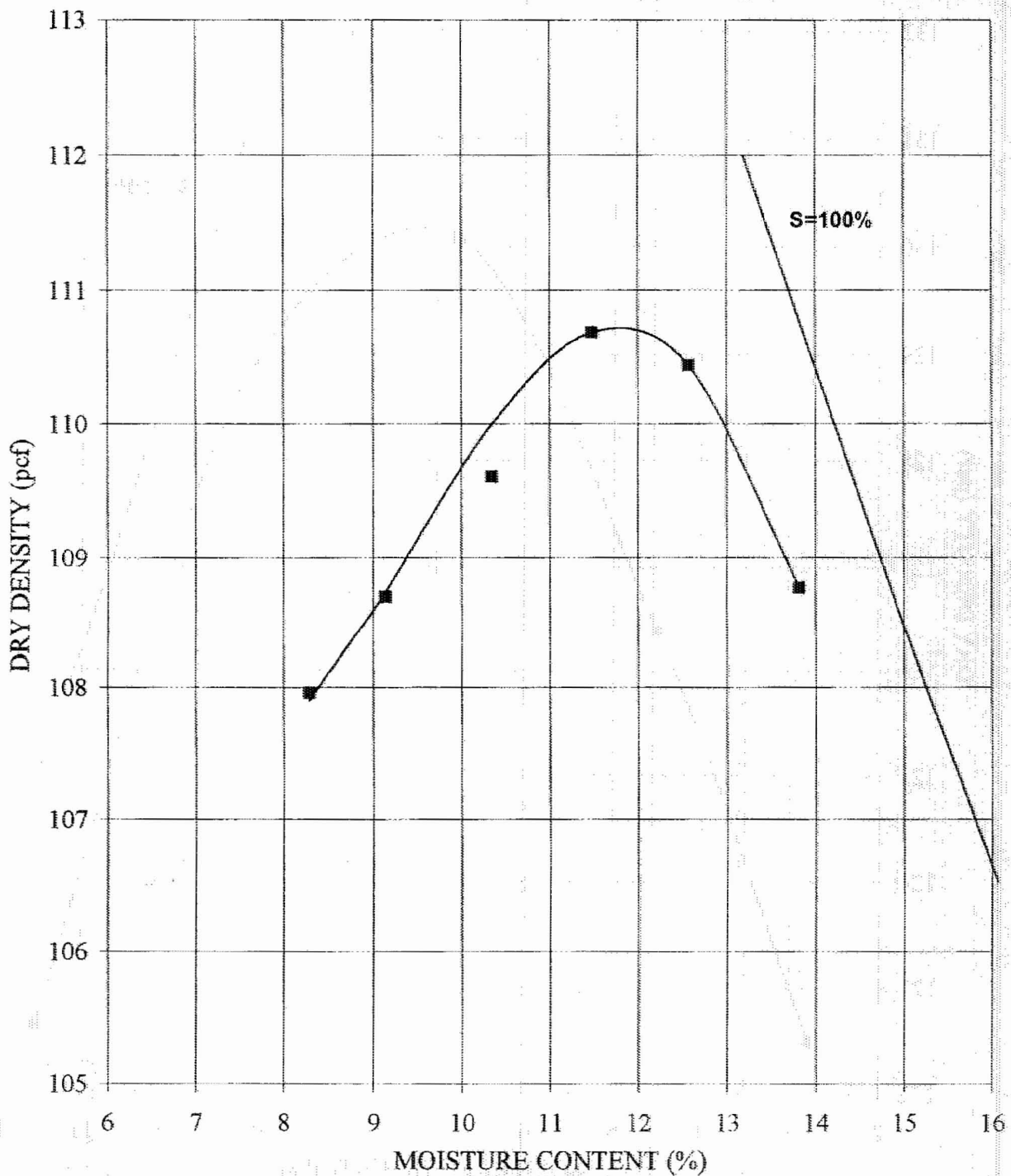
ASTM D-1557 Method A

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/15/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
B-435	7.0-8.0	Poorly Graded SAND, with silt, trace gravel, light brown	SP-SM					
Assumed Specific Gravity:		2.55	% Passing 3/4" Sieve:	100.0				
			% Passing #4 Sieve:	99.2				
Maximum Dry Density (pcf):		123.9	Optimum Moisture Content (%):	8.9				




MOISTURE-DENSITY RELATION
ASTM D-1557 Method A

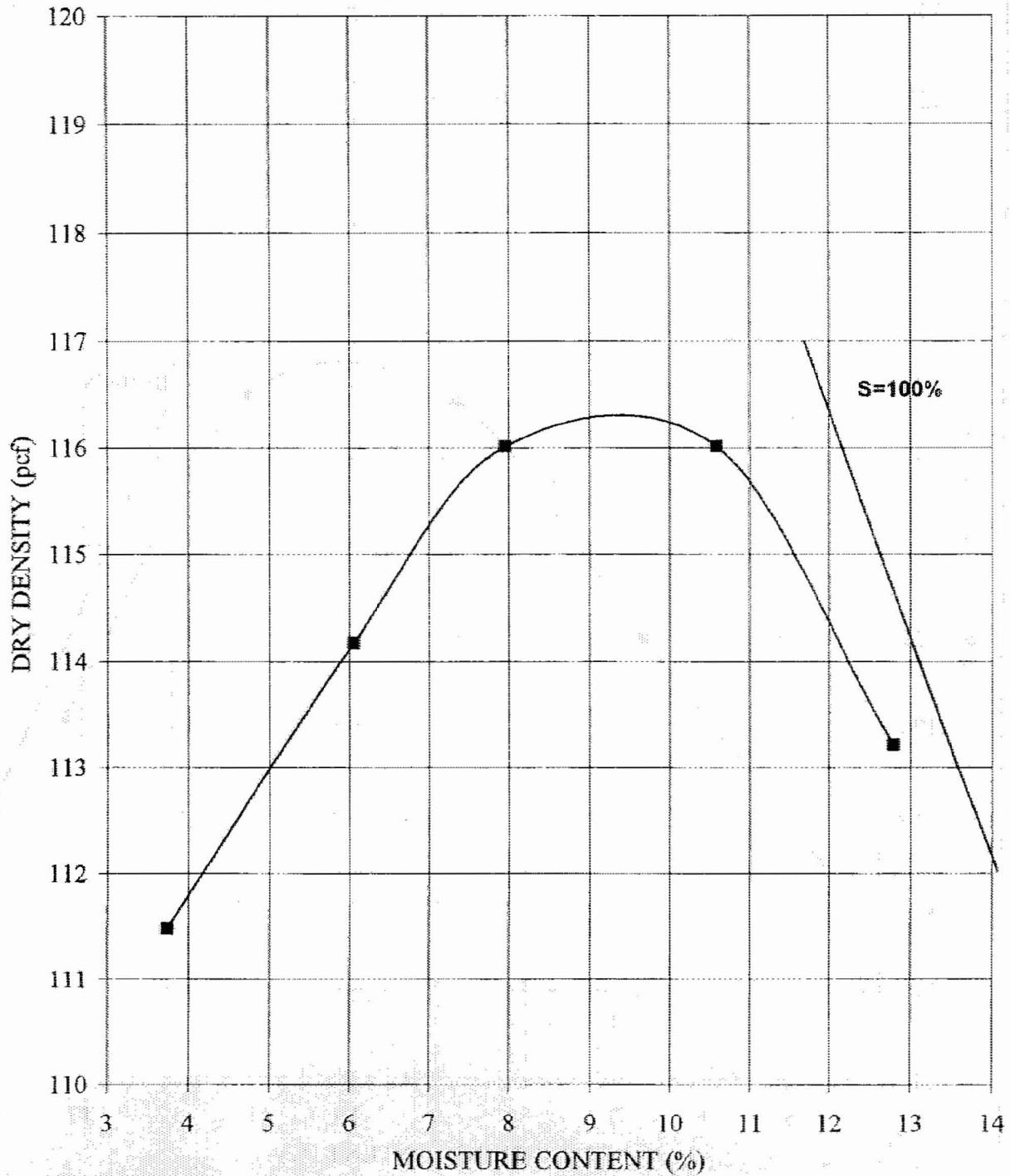
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:		06120048.00	Date:	9/15/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI				
B-435	9.0-10.0	Clayey SAND, brown	SC	34	17				
Assumed Specific Gravity:		2.60	% Passing 3/4" Sieve:		100.0				
Maximum Dry Density (pcf):		130.2	% Passing #4 Sieve:		100.0				
			Optimum Moisture Content (%):		7.3				



MOISTURE-DENSITY RELATION


ASTM D-1557 Method A

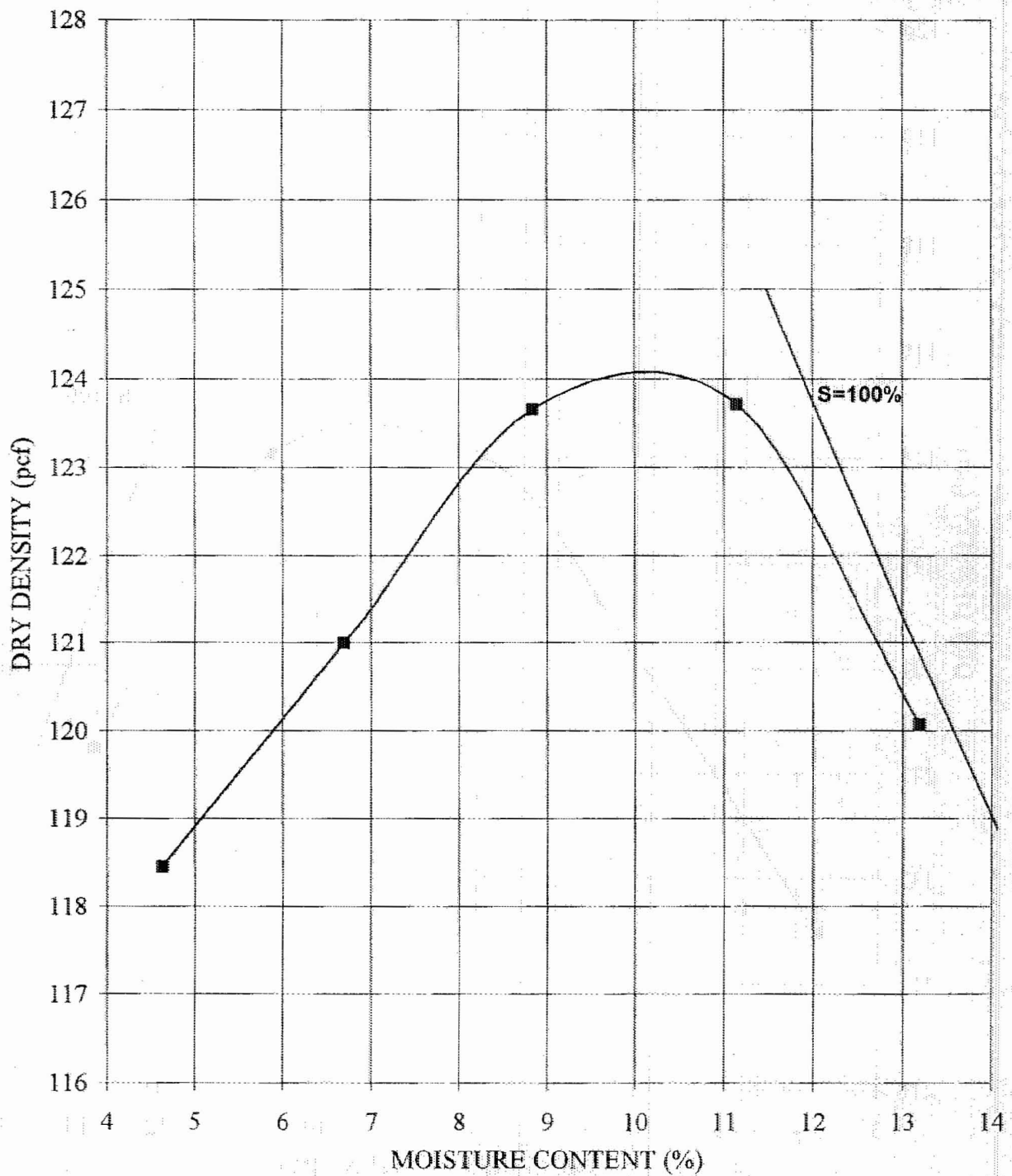
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
TP-B-715	5.5-6.5	Poorly Graded SAND, with silt, trace gravel, tan	SP-SM				
Assumed Specific Gravity:	2.35	% Passing 3/4" Sieve:	100.0				
		% Passing #4 Sieve:	99.1				
Maximum Dry Density (pcf):	110.7	Optimum Moisture Content (%):	11.8				



MOISTURE-DENSITY RELATION


ASTM D-1557 Method A

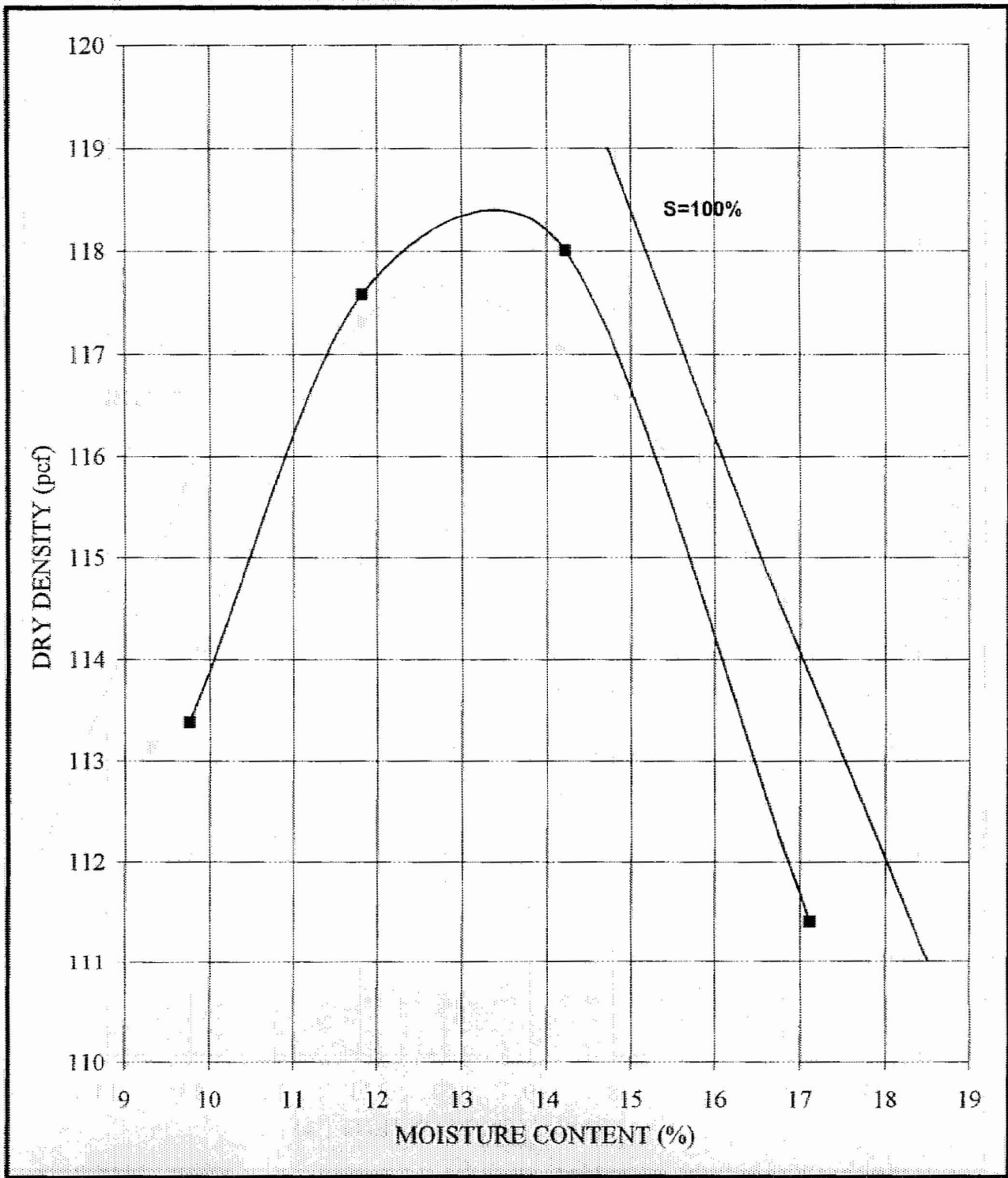
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Boring No.	Depth (ft)	Sample Description	Class	LL	PI				
TP-B-716	6.0-7.0	Poorly Graded SAND, with silt, trace gravel, brown	SP-SM						
Assumed Specific Gravity:	2.40	% Passing 3/4" Sieve:	100.0						
		% Passing #4 Sieve:	99.0						
Maximum Dry Density (pcf):	116.3	Optimum Moisture Content (%):	9.4						



MOISTURE-DENSITY RELATION

ASTM D-1557 Method A

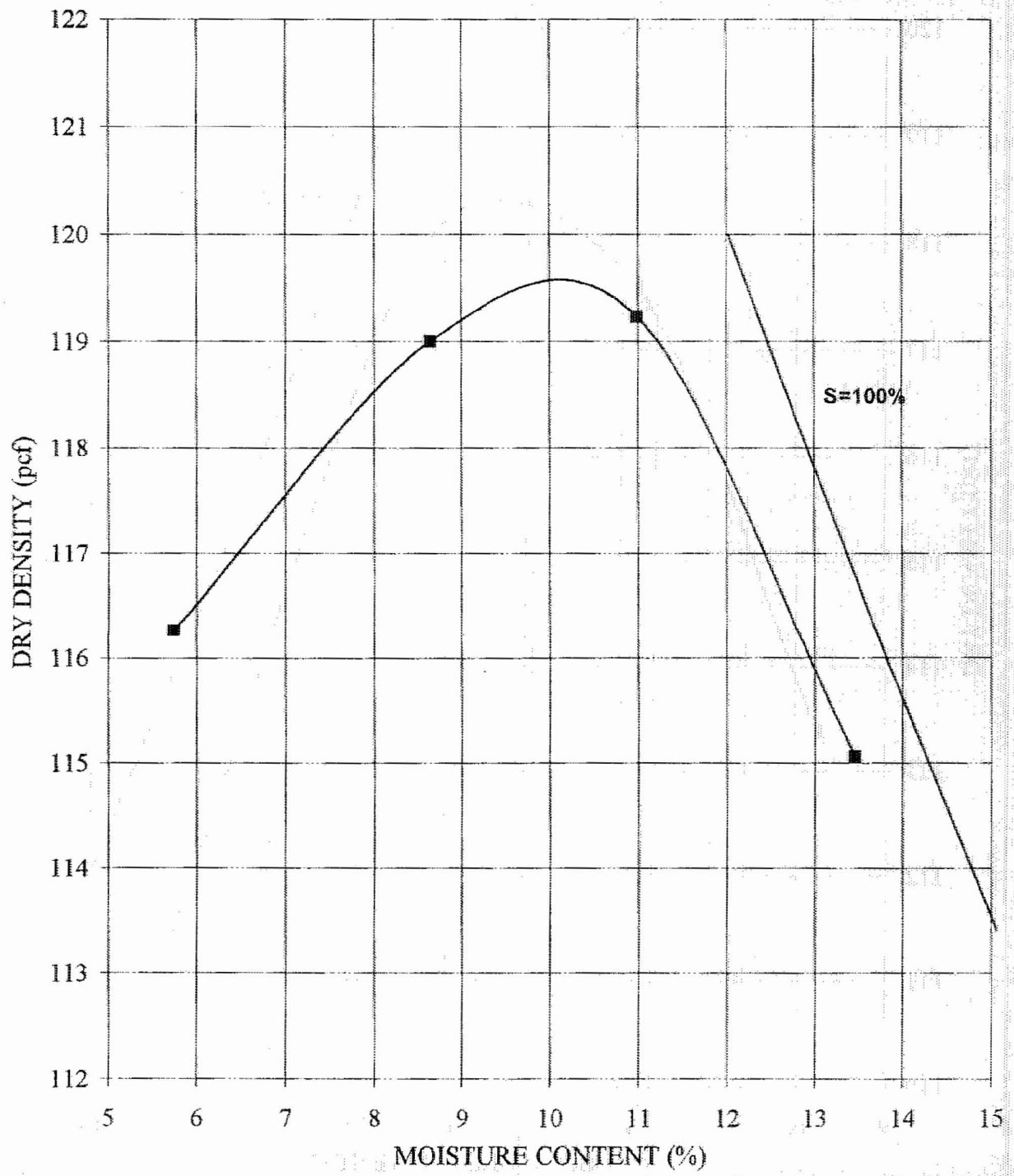
Project:	Constellation Energy Group COLA Project Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/15/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
TP-B-717	7.0-8.0	Poorly Graded SAND, with silt, trace gravel, light brown	SP-SM				
Assumed Specific Gravity:	2.60	% Passing 3/4" Sieve:	100.0				
		% Passing #4 Sieve:	97.4				
Maximum Dry Density (pcf):	123.8	Optimum Moisture Content (%):	10.2				



MOISTURE-DENSITY RELATION


ASTM D-1557 Method A

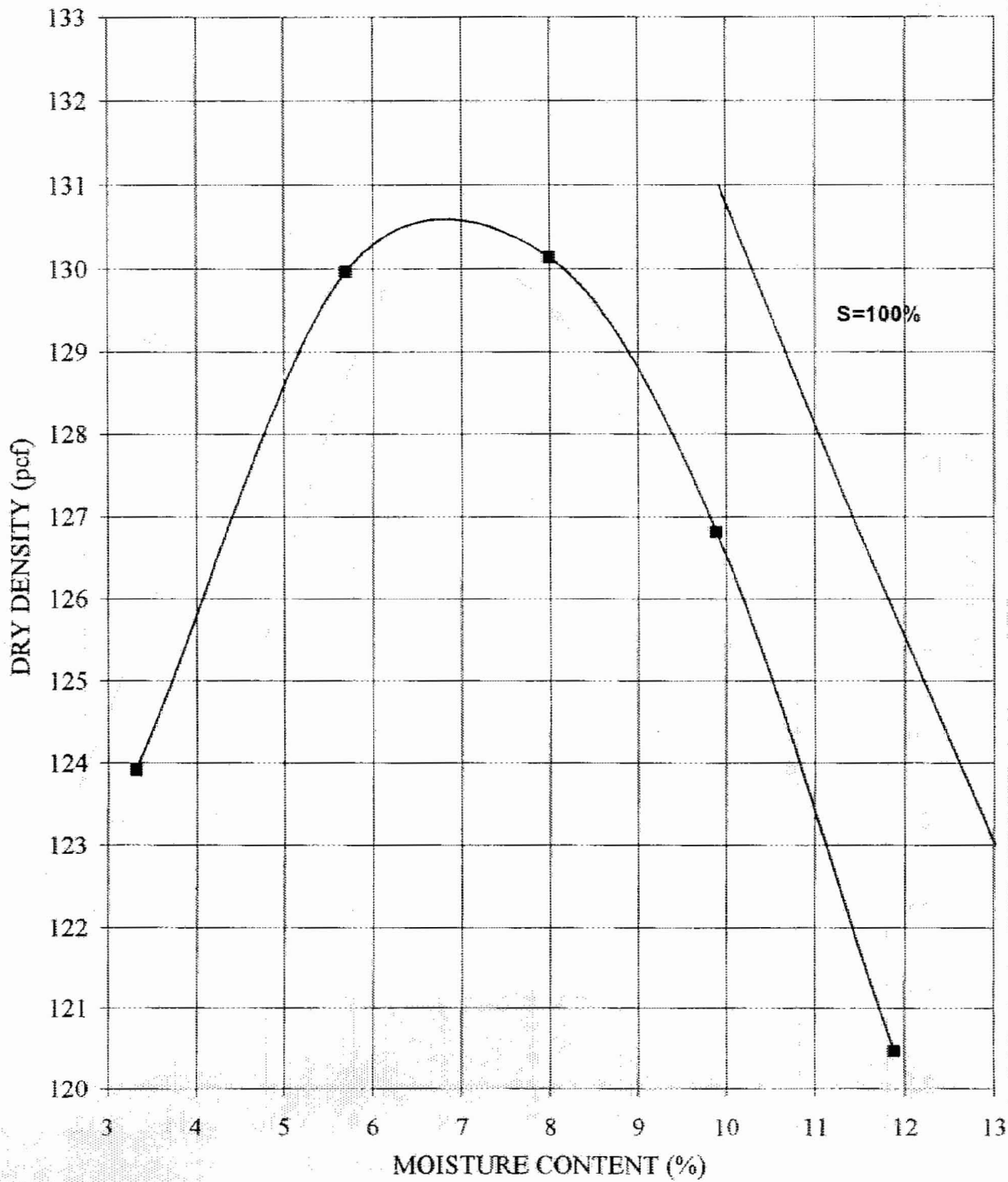
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	9/28/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI			
TP-B-719	0.5-1.5	LEAN CLAY, with sand, dark brown	CL	35	13			
Assumed Specific Gravity:	2.65	% Passing 3/4" Sieve:	100.0					
		% Passing #4 Sieve:	100.0					
Maximum Dry Density (pcf):	118.4	Optimum Moisture Content (%):	13.5					



MOISTURE-DENSITY RELATION


ASTM D-1557 Method A

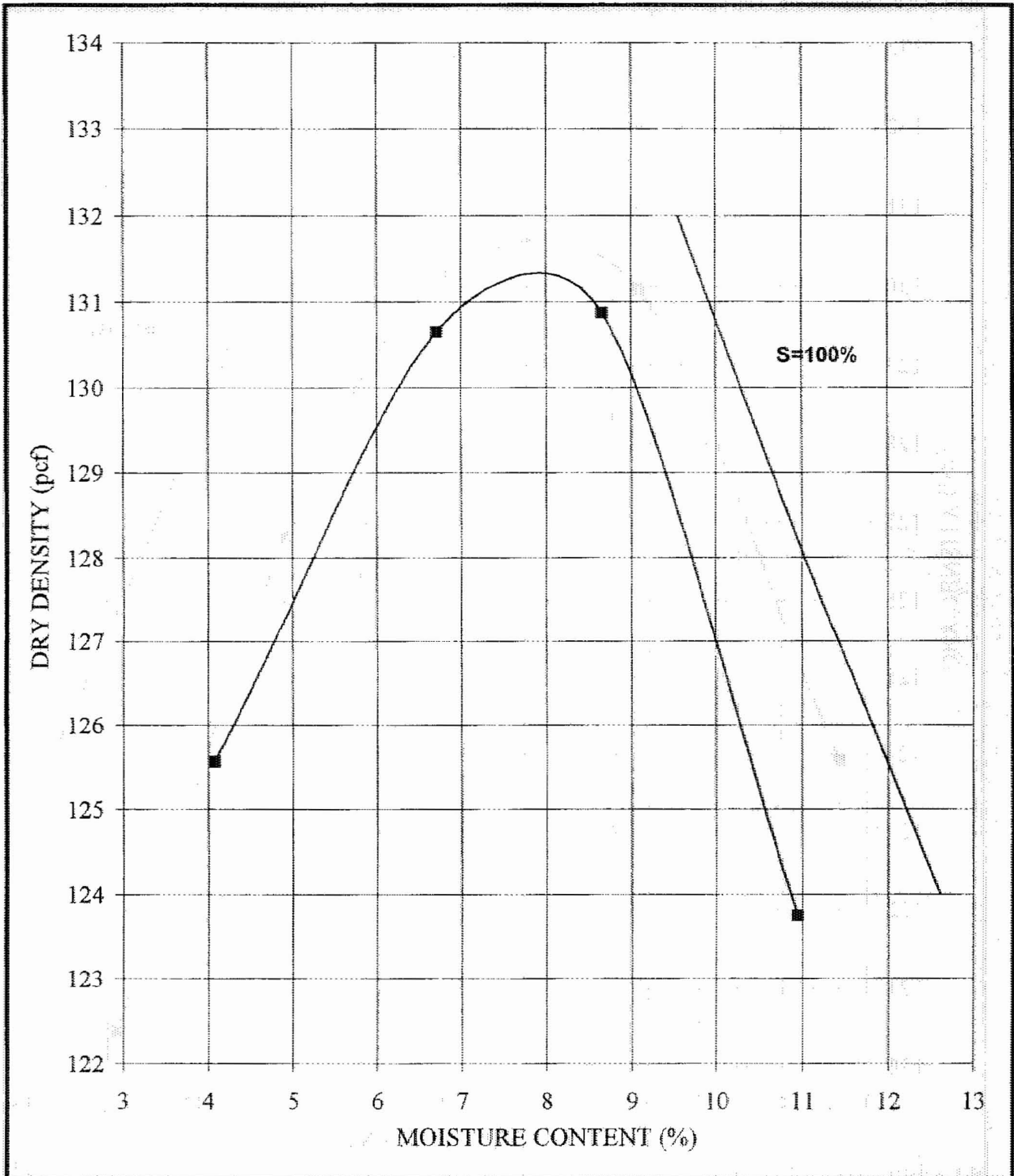
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	9/18/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
TP-B-719	7.0-8.0	Silty SAND, gray	SM	35	13			
Assumed Specific Gravity:	2.50	% Passing 3/4" Sieve:	100.0					
		% Passing #4 Sieve:	100.0					
Maximum Dry Density (pcf):	119.6	Optimum Moisture Content (%):	10.0					



MOISTURE-DENSITY RELATION


ASTM D-1557 Method A

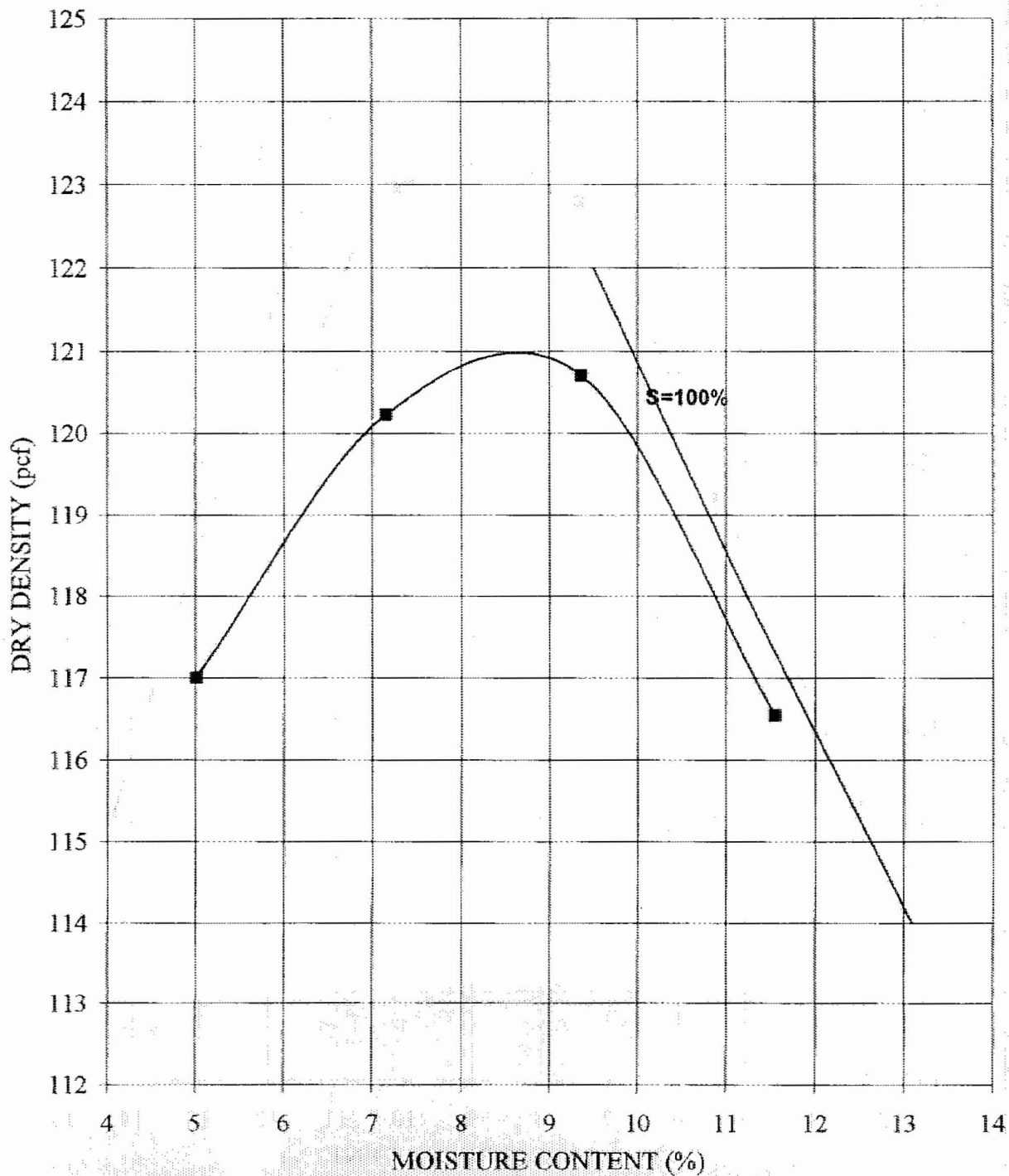
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	9/22/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI			
TP-B-727	6.0-7.0	Silty SAND, dark brown	SM					
Assumed Specific Gravity:	2.65	% Passing 3/4" Sieve:	100.0					
		% Passing #4 Sieve:	100.0					
Maximum Dry Density (pcf):	130.5	Optimum Moisture Content (%):	6.8					



MOISTURE-DENSITY RELATION


ASTM D-1557 Method A

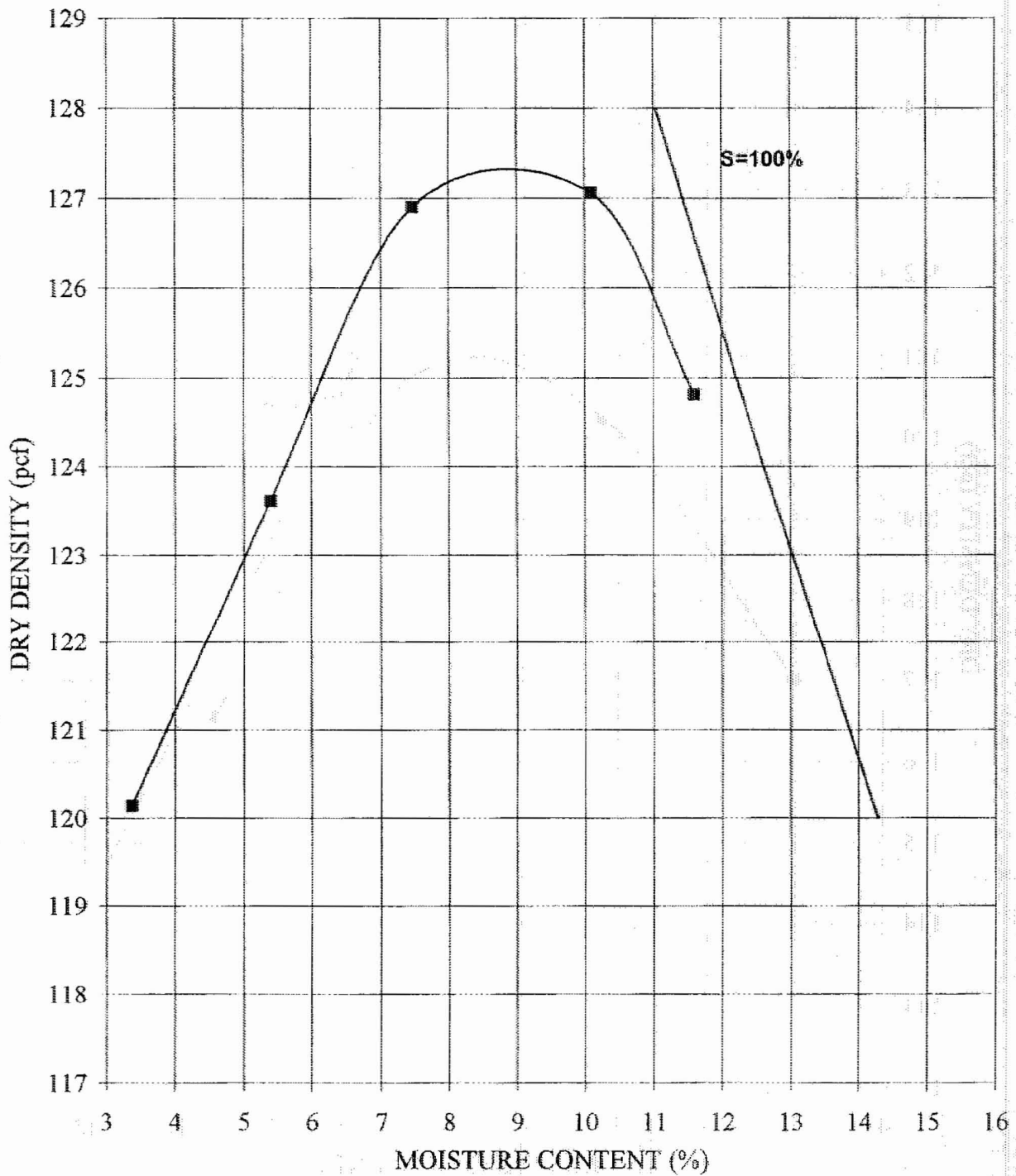
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:		06120048.00	Date:	9/22/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI				
TP-B-744	1.5-2.5	Sandy LEAN CLAY, dark brown	CL	25	8				
Assumed Specific Gravity:		2.65	% Passing 3/4" Sieve:		100.0				
Maximum Dry Density (pcf):		131.2	% Passing #4 Sieve:		100.0				
			Optimum Moisture Content (%):		8.0				



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-758	2.0-3.0	Poorly Graded SAND, with silt, trace gravel, brown	SP-SM					
Assumed Specific Gravity:	2.40	% Passing 3/4" Sieve:	100.0					
		% Passing #4 Sieve:	99.2					
Maximum Dry Density (pcf):	121.0	Optimum Moisture Content (%):	8.8					



MOISTURE-DENSITY RELATION


ASTM D-1557 Method A

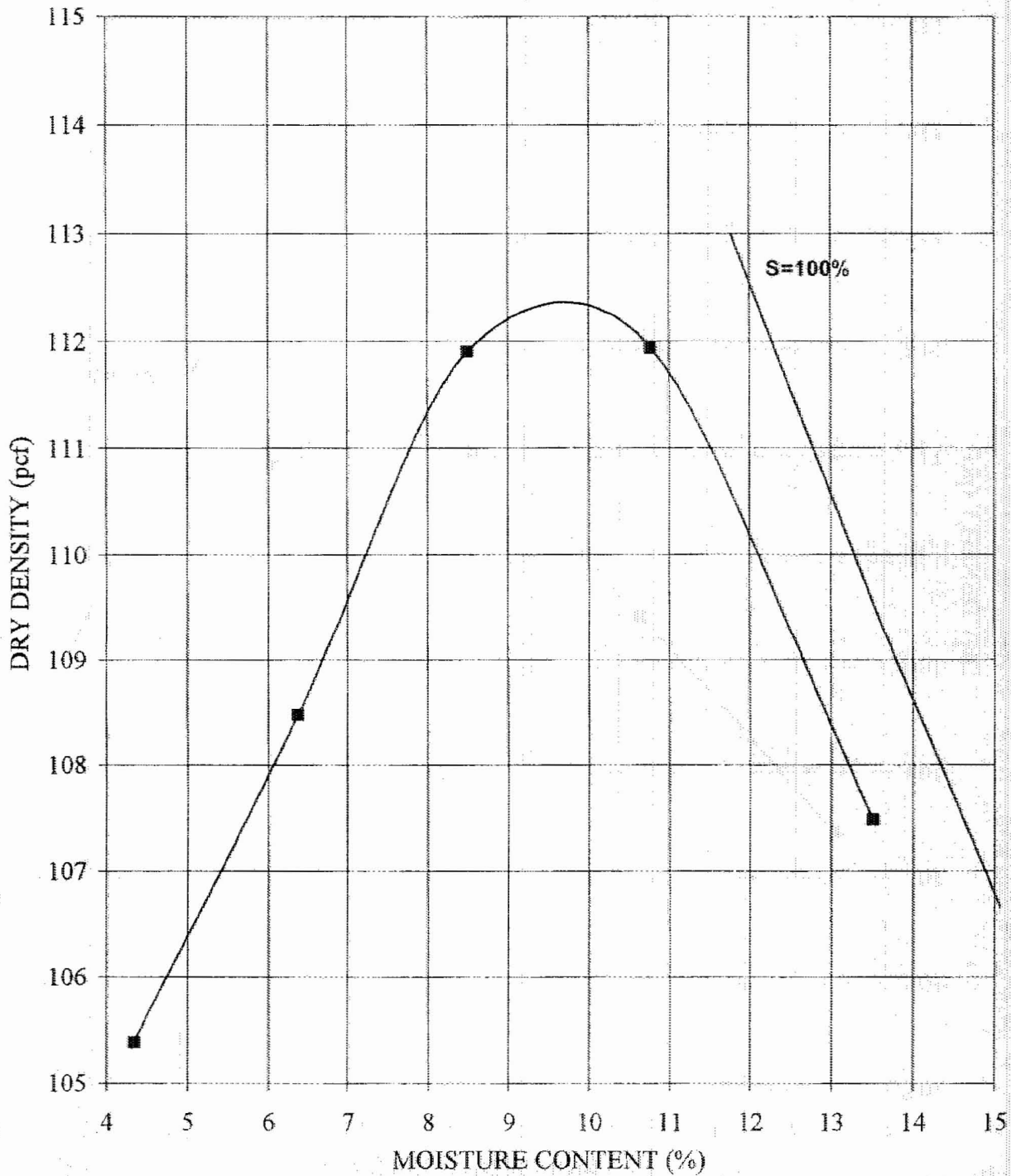
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:		06120048.00	Date:	9/18/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI				
TP-B-758	7.5-8.5	Silty SAND, trace gravel, light brown	SM						
Assumed Specific Gravity:		2.65	% Passing 3/4" Sieve:		100.0				
Maximum Dry Density (pcf):		127.3	% Passing #4 Sieve:		97.4				
			Optimum Moisture Content (%):		8.9				



MOISTURE-DENSITY RELATION


ASTM D-1557 Method A

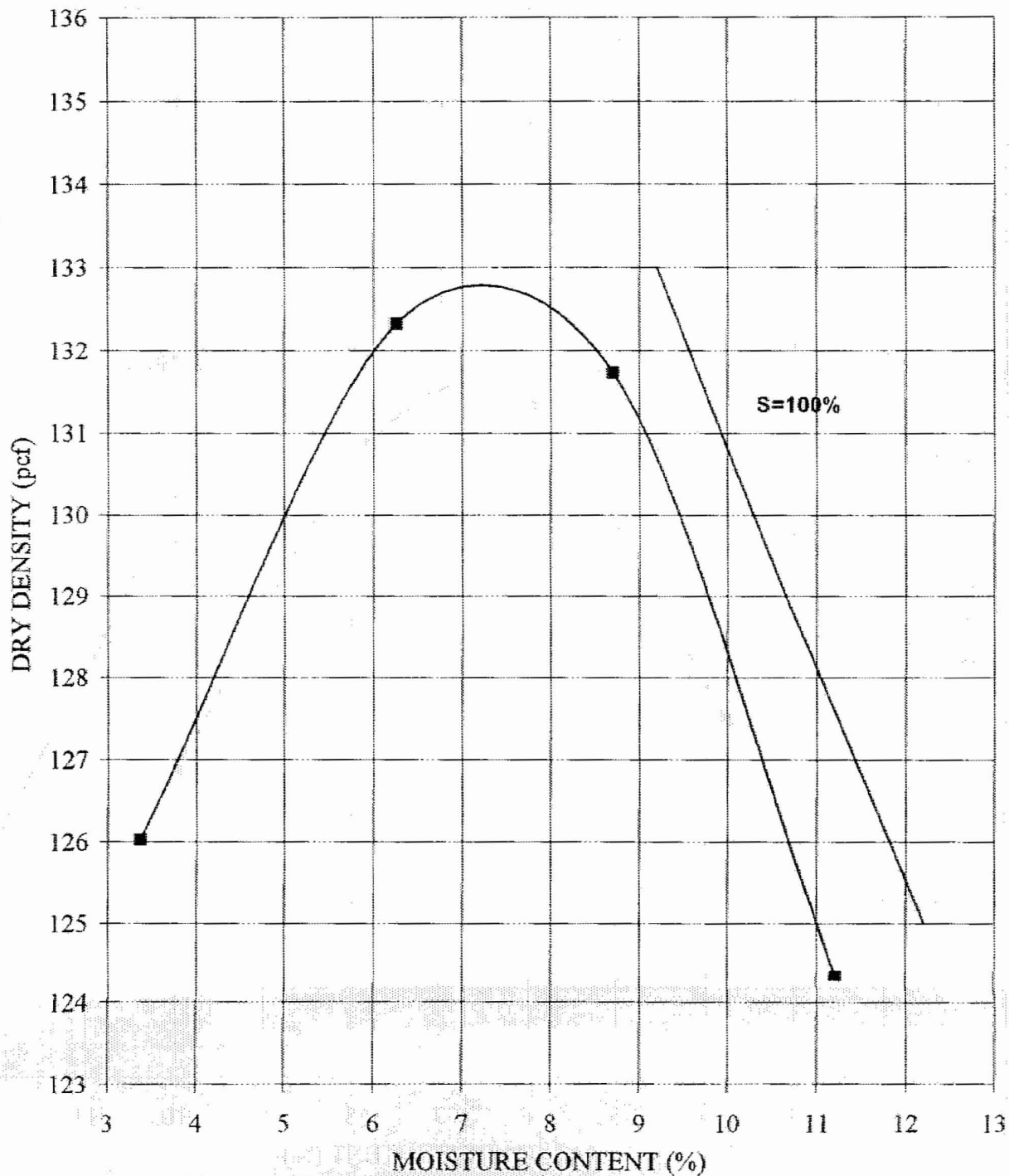
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
TP-C-309	2.0-3.0	Poorly Graded SAND, trace silt and gravel, brown	SP				
Assumed Specific Gravity:	2.50	% Passing 3/4" Sieve:	100.0				
		% Passing #4 Sieve:	98.8				
Maximum Dry Density (pcf):	111.2	Optimum Moisture Content (%):	13.9				



MOISTURE-DENSITY RELATION


ASTM D-1557 Method A

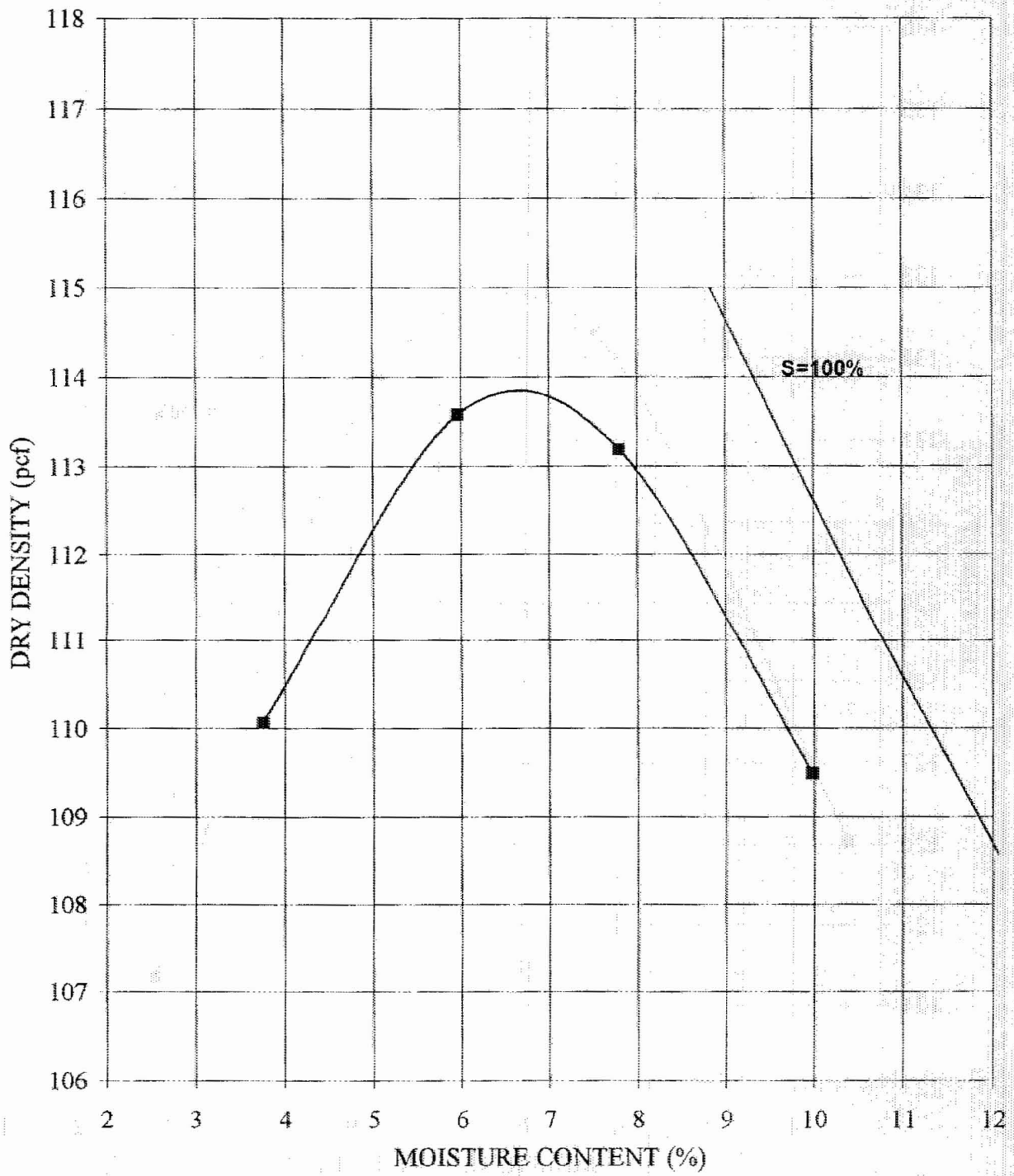
Project:	Constellation Energy Group COLA Project Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/26/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
TP-C-309	7.0-8.0	Poorly Graded SAND, with silt, light brown	SP-SM				
Assumed Specific Gravity:	2.30	% Passing 3/4" Sieve:	100.0				
		% Passing #4 Sieve:	100.0				
Maximum Dry Density (pcf):	112.3	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:	9-18-06
Boring No.	Depth (ft)	Sample Description	Class	LL	PI			
TP-C-723	2.5-3.5	Clayey SAND, dark brown	SC	30	15			
Assumed Specific Gravity:	2.65	% Passing 3/4" Sieve:	100.0					
		% Passing #4 Sieve:	100.0					
Maximum Dry Density (pcf):	132.8	Optimum Moisture Content (%):	7.3					



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-C-723	6.0-7.0	Poorly Graded SAND, with silt, trace gravel, brown	SP-SM	30	15			
Assumed Specific Gravity:	2.20	% Passing 3/4" Sieve:	100.0					
		% Passing #4 Sieve:	98.8					
Maximum Dry Density (pcf):	113.8	Optimum Moisture Content (%):	6.8					

CALIFORNIA BEARING RATIO RESULTS

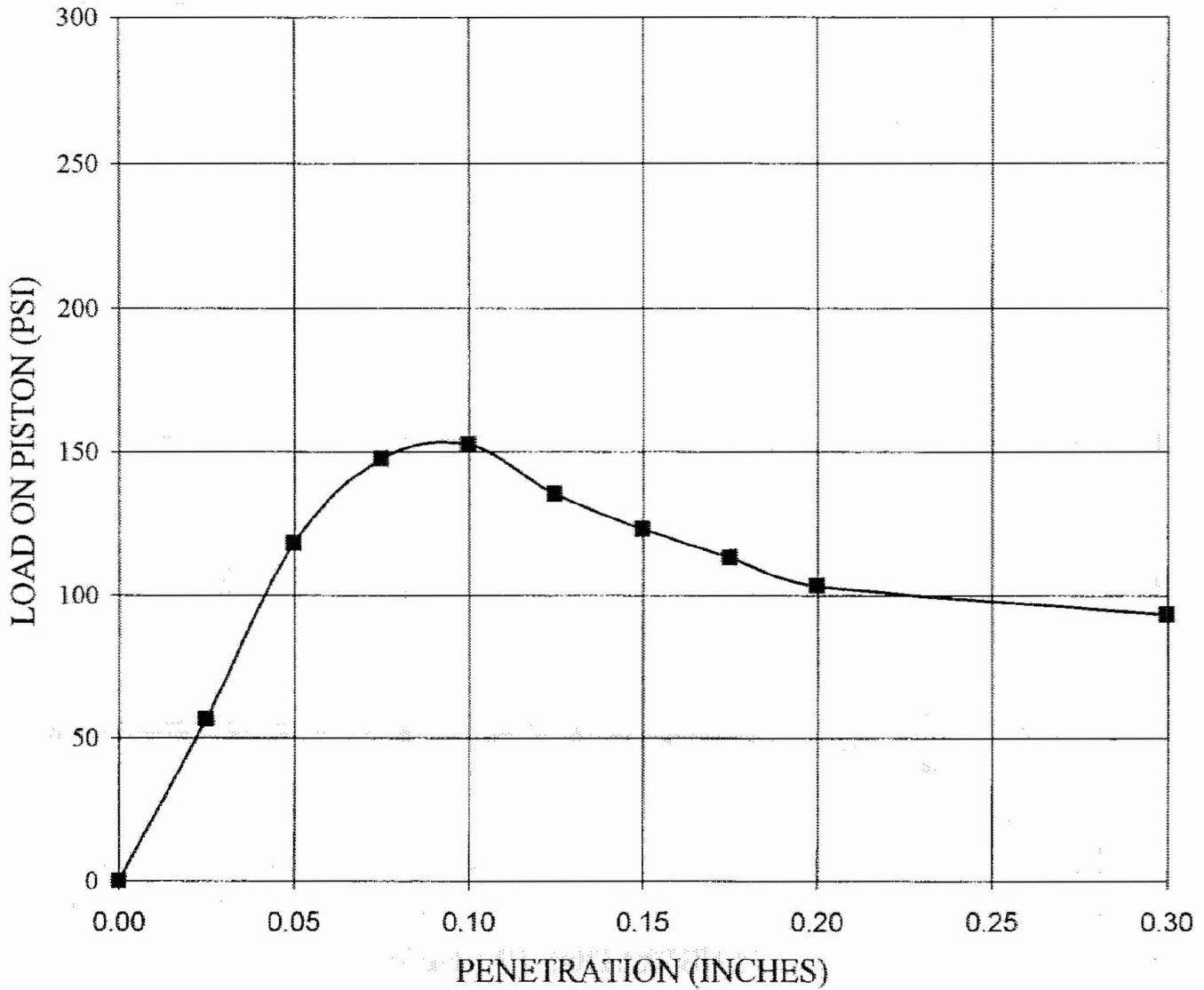
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UNSOAKED CBR



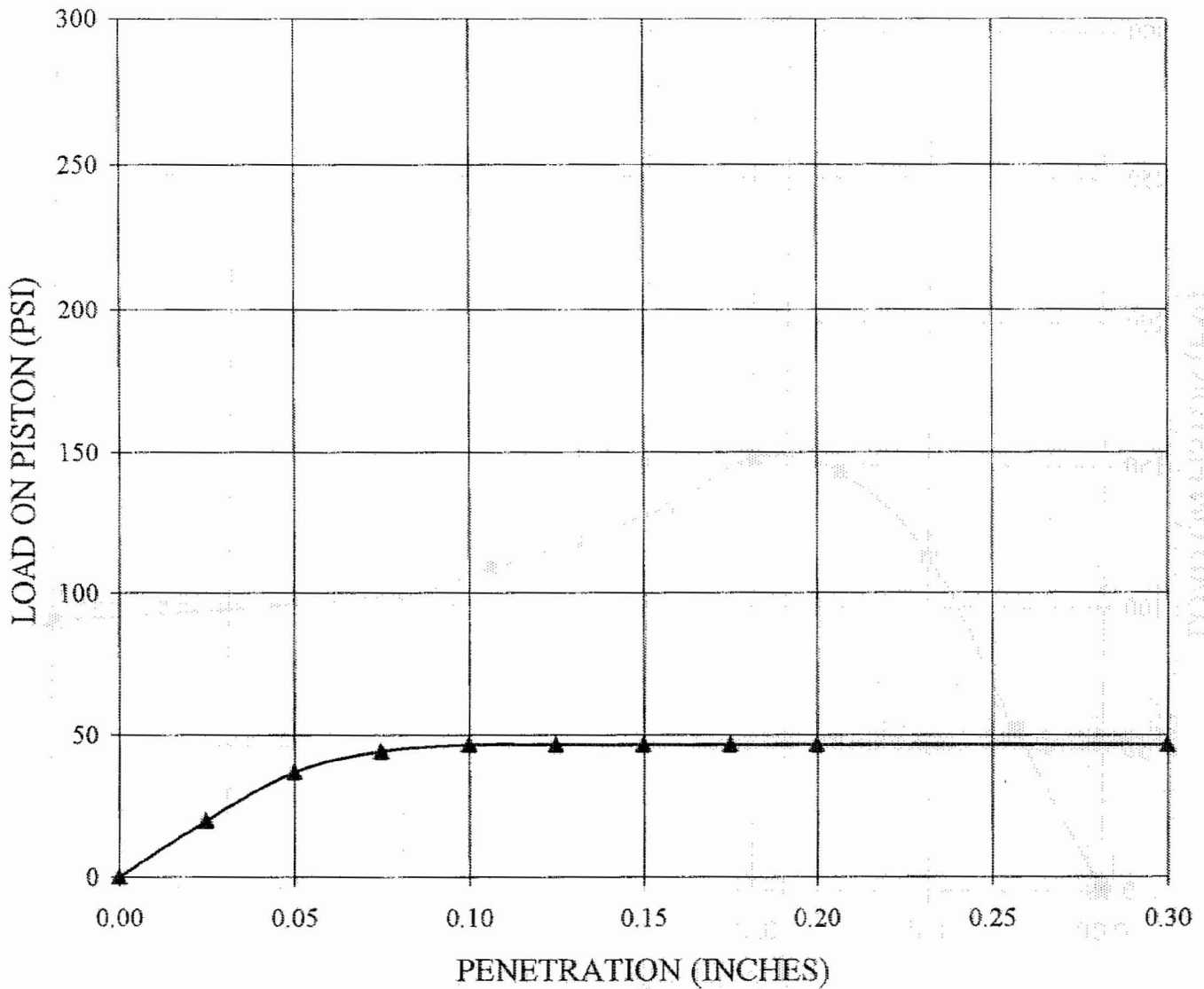
CALIFORNIA BEARING RATIO

ASTM D-1883

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.:	06120048.00	Date:	9/25/2006
Boring No.	Depth (ft.)	Sample Description			
TP-B-307	4.5-5.5	Poorly Graded SAND, with silt, brown			
CBR (Unsoaked):	14.8	Soaking Time:	N/A		
Surcharge:	50 PSF	Swell:	N/A		
DRY DENSITY, PCF		MOISTURE CONTENT, %			
Before Soaking:	103.8	Before Soaking:	9.7		
After Soaking:	N/A	After Soaking:	N/A		
Max. Dry Density:	109.3	Optimum Moisture:	10.5		



SOAKED CBR



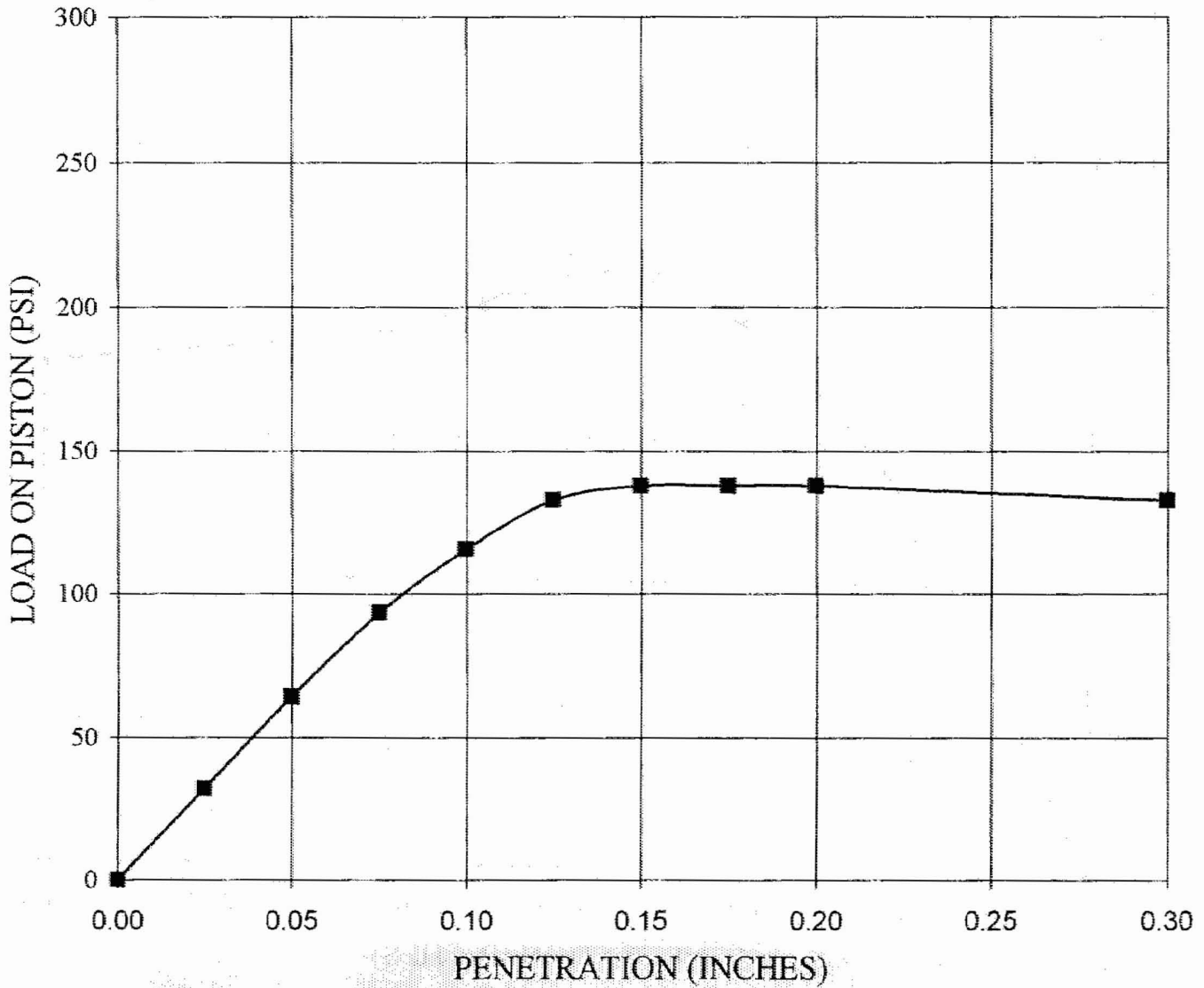
CALIFORNIA BEARING RATIO

ASTM D-1883

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.:	06120048.00	Date:	9/25/2006
Boring No.	Depth (ft)	Sample Description			
TP-B-307	4.5-5.5	Poorly Graded SAND, with silt, brown			
CBR (Soaked):	4.4	Soaking Time:	4 Days		
Surcharge:	50 PSF	Swell:	0.0%		
DRY DENSITY, PCF		MOISTURE CONTENT, %			
Before Soaking:	103.8	Before Soaking:	9.7		
After Soaking:	103.7	After Soaking:	12.8		
Max. Dry Density:	109.3	Optimum Moisture:	10.5		



UNSOAKED CBR



CALIFORNIA BEARING RATIO

ASTM D-1883

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			
TP-B-315	6.0-7.0	Poorly Graded SAND, with silt, tan			
CBR (Unsoaked):	11.6	Soaking Time:	N/A		
Surcharge:	50 PSF	Swell:	N/A		
DRY DENSITY, PCF		MOISTURE CONTENT, %			
Before Soaking:	109.2	Before Soaking:	11.6		
After Soaking:	N/A	After Soaking:	N/A		
Max. Dry Density:	114.9	Optimum Moisture:	11.4		

