Exhibits B- 51 through B-67 **Field Electrical Resistivity Test Results**

FIELD ELECTRICAL RESISTIVITY TEST DATA

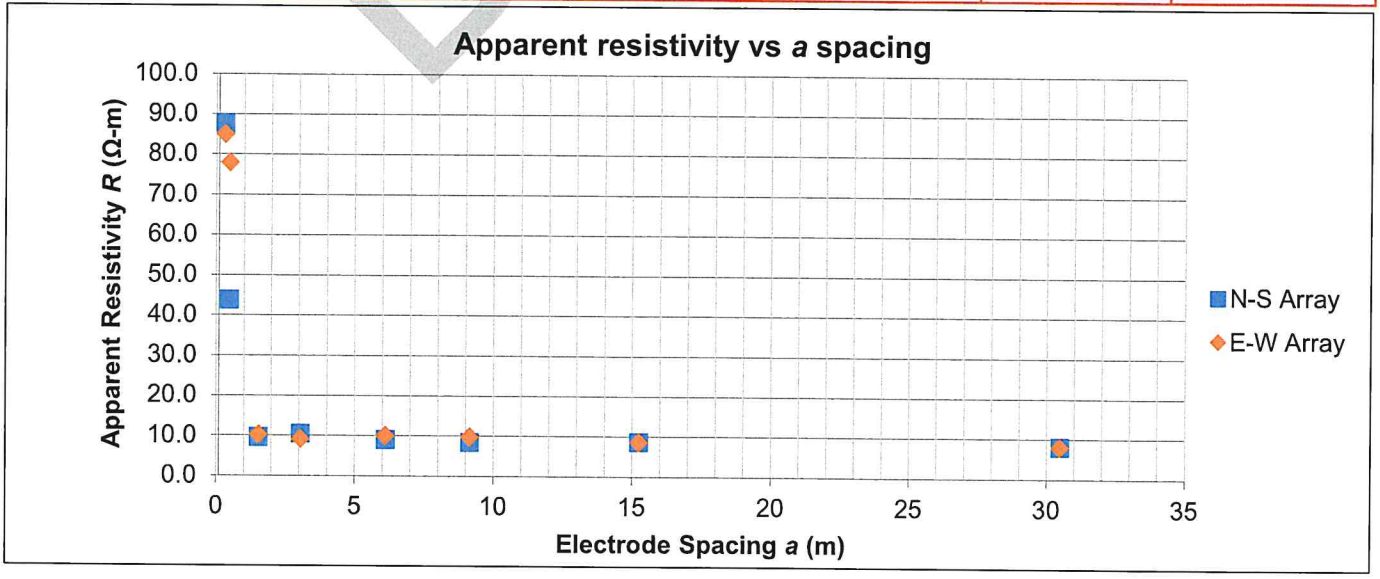
Barrett Solar Facility ■ Point, Texas
July 2023 ■ Terracon Project No. 94235249

Terracon
8901 John W Carpenter Fwy
Ste 100
Dallas, TX

Array Loc.	ER-1 (32.967481,-95.912946)		
Instrument	MiniRes	**Weather**	Sunny, Hot
Serial #	SN 333	**Ground Cond.**	Moist, Hard
Cal. Check	Yes	**Tested By**	Cameron
Test Date	July 12, 2023	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(meters)	(inches)	(meters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-m)	Ω	(Ω-m)
1	0	1.2	0.03	45.700	87.63	44.300	84.94
1.5	0	1.8	0.05	14.852	43.80	26.400	77.85
5	2	6	0.15	0.985	9.57	1.060	10.29
10	3	12	0.30	0.537	10.46	0.472	9.20
20	6	12	0.30	0.235	9.04	0.261	10.05
30	9	12	0.30	0.146	8.40	0.171	9.84
50	15	12	0.30	0.090	8.62	0.090	8.62
100	30	12	0.30	0.042	8.04	0.042	8.04



FIELD ELECTRICAL RESISTIVITY TEST DATA

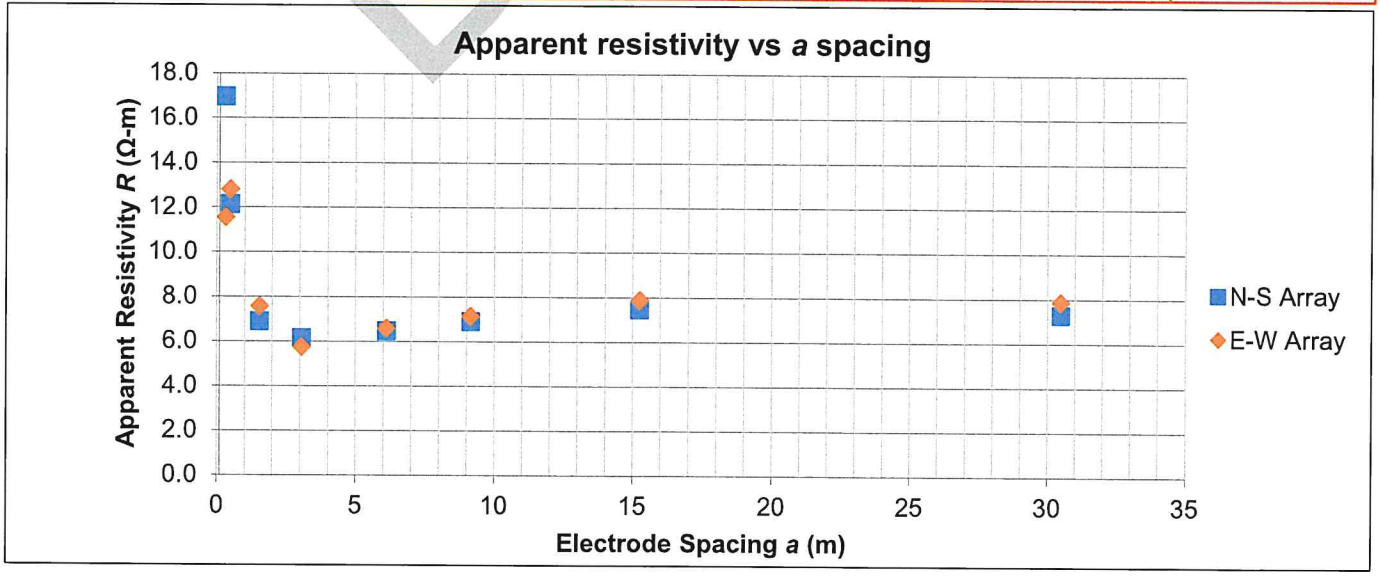
Barrett Solar Facility ■ Point, Texas
July 2023 ■ Terracon Project No. 94235249

Terracon
8901 John W Carpenter Fwy
Ste 100
Dallas, TX

Array Loc.	ER-2 (32.961874,-95.918316)		
Instrument	MiniRes	**Weather**	Sunny, Hot
Serial #	SN 333	**Ground Cond.**	Moist, Hard
Cal. Check	Yes	**Tested By**	Cameron
Test Date	July 12, 2023	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi a R}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(meters)	(inches)	(meters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-m)	Ω	(Ω-m)
1	0	1.2	0.03	8.844	16.96	6.017	11.54
1.5	0	1.8	0.05	4.118	12.14	4.336	12.79
5	2	6	0.15	0.710	6.89	0.777	7.55
10	3	12	0.30	0.315	6.14	0.294	5.73
20	6	12	0.30	0.168	6.47	0.171	6.58
30	9	12	0.30	0.120	6.90	0.124	7.13
50	15	12	0.30	0.078	7.47	0.082	7.86
100	30	12	0.30	0.038	7.28	0.041	7.85



FIELD ELECTRICAL RESISTIVITY TEST DATA

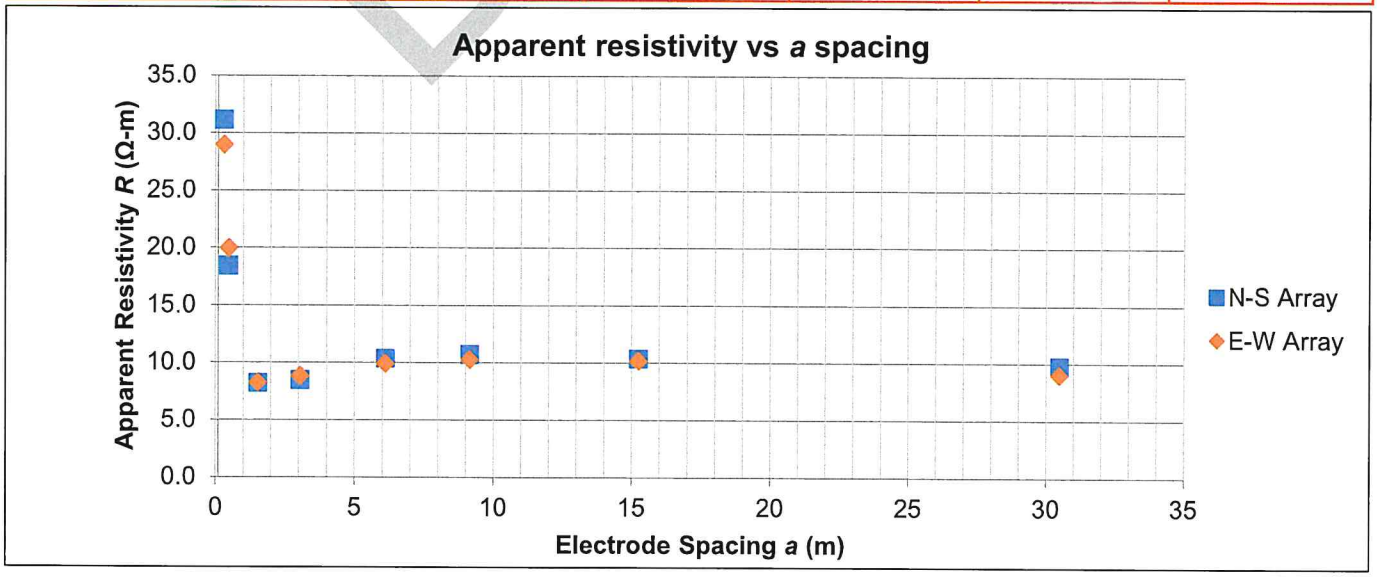
Barrett Solar Facility ■ Point, Texas
July 2023 ■ Terracon Project No. 94235249

Terracon
8901 John W Carpenter Fwy
Ste 100
Dallas, TX

Array Loc.	ER-3 (32.961245,-95.908747)		
Instrument	MiniRes	**Weather**	Sunny, Hot
Serial #	SN 333	**Ground Cond.**	Moist, Hard
Cal. Check	Yes	**Tested By**	Cameron
Test Date	July 12, 2023	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(meters)	(inches)	(meters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-m)	Ω	(Ω-m)
1	0	1.2	0.03	16.225	31.11	15.096	28.95
1.5	0	1.8	0.05	6.249	18.43	6.754	19.92
5	2	6	0.15	0.845	8.21	0.850	8.25
10	3	12	0.30	0.435	8.48	0.453	8.83
20	6	12	0.30	0.269	10.35	0.257	9.89
30	9	12	0.30	0.186	10.70	0.178	10.24
50	15	12	0.30	0.108	10.35	0.106	10.16
100	30	12	0.30	0.051	9.77	0.047	9.00



FIELD ELECTRICAL RESISTIVITY TEST DATA

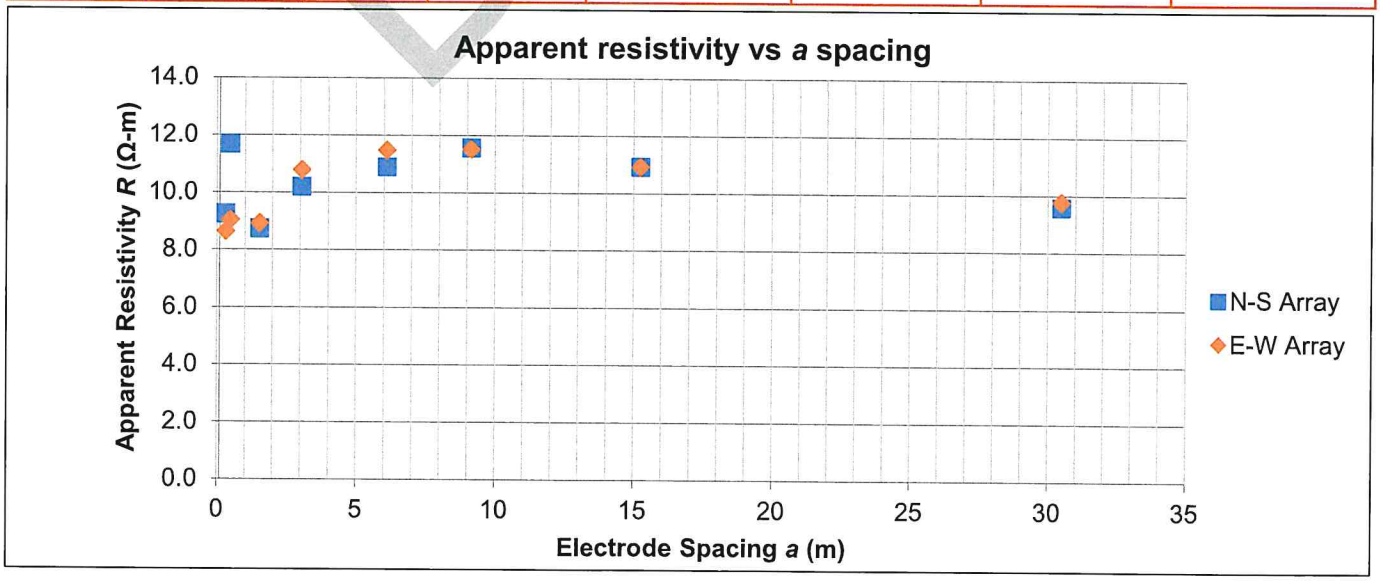
Barrett Solar Facility ■ Point, Texas
July 2023 ■ Terracon Project No. 94235249

Terracon
8901 John W Carpenter Fwy
Ste 100
Dallas, TX

Array Loc.	ER-4 (32.956215,-95.913069)		
Instrument	MiniRes	**Weather**	Sunny, Hot
Serial #	SN 333	**Ground Cond.**	Moist, Hard
Cal. Check	Yes	**Tested By**	Cameron
Test Date	July 12, 2023	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(meters)	(inches)	(meters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-m)	Ω	(Ω-m)
1	0	1.2	0.03	4.824	9.25	4.502	8.63
1.5	0	1.8	0.05	3.960	11.68	3.060	9.02
5	2	6	0.15	0.900	8.74	0.919	8.92
10	3	12	0.30	0.523	10.19	0.553	10.77
20	6	12	0.30	0.283	10.89	0.298	11.47
30	9	12	0.30	0.201	11.56	0.200	11.51
50	15	12	0.30	0.114	10.92	0.114	10.92
100	30	12	0.30	0.050	9.58	0.051	9.77



FIELD ELECTRICAL RESISTIVITY TEST DATA

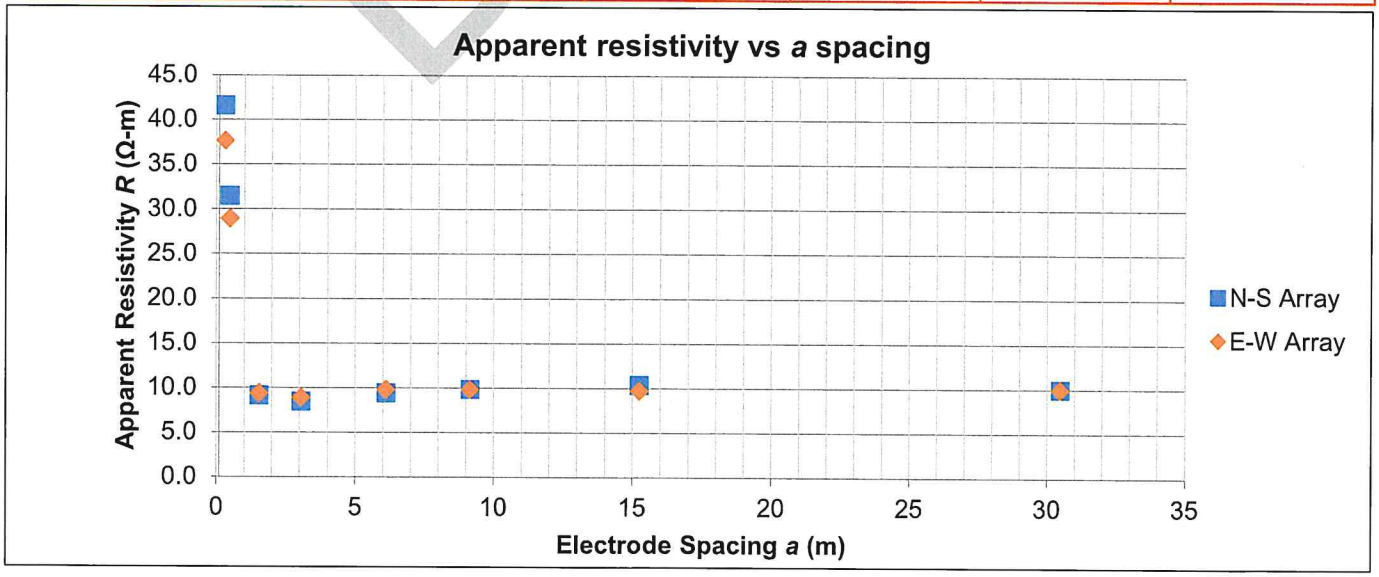
Barrett Solar Facility ■ Point, Texas
July 2023 ■ Terracon Project No. 94235249

Terracon
8901 John W Carpenter Fwy
Ste 100
Dallas, TX

Array Loc.	ER-5 (32.953992,-95.901496)		
Instrument	MiniRes	**Weather**	Sunny, Hot
Serial #	SN 333	**Ground Cond.**	Moist, Hard
Cal. Check	Yes	**Tested By**	Cameron
Test Date	July 12, 2023	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(meters)	(inches)	(meters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-m)	Ω	(Ω-m)
1	0	1.2	0.03	21.700	41.61	19.625	37.63
1.5	0	1.8	0.05	10.676	31.48	9.797	28.89
5	2	6	0.15	0.940	9.13	0.966	9.38
10	3	12	0.30	0.434	8.46	0.457	8.90
20	6	12	0.30	0.245	9.43	0.255	9.81
30	9	12	0.30	0.171	9.84	0.171	9.84
50	15	12	0.30	0.108	10.35	0.101	9.68
100	30	12	0.30	0.052	9.96	0.052	9.96



FIELD ELECTRICAL RESISTIVITY TEST DATA

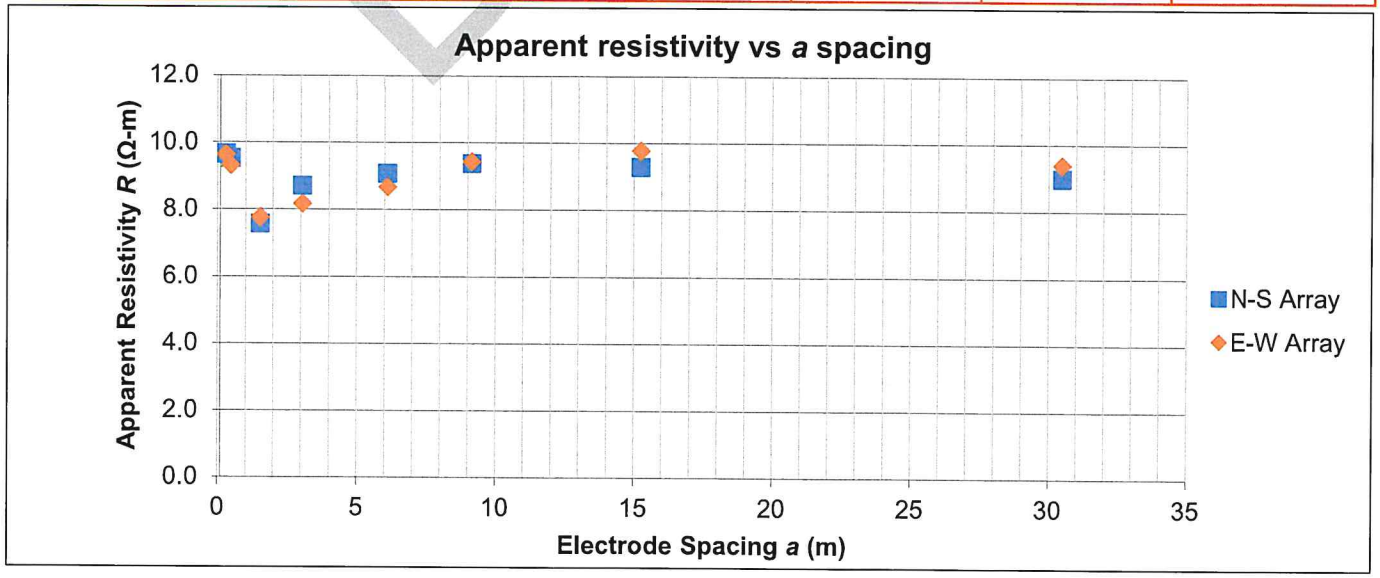
Barrett Solar Facility ■ Point, Texas
July 2023 ■ Terracon Project No. 94235249

Terracon
8901 John W Carpenter Fwy
Ste 100
Dallas, TX

Array Loc.	ER-6 (32.950774,-95.91028)		
Instrument	MiniRes	**Weather**	Sunny, Hot
Serial #	SN 333	**Ground Cond.**	Moist, Hard
Cal. Check	Yes	**Tested By**	Cameron
Test Date	July 12, 2023	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(meters)	(inches)	(meters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-m)	Ω	(Ω-m)
1	0	1.2	0.03	5.038	9.66	5.025	9.64
1.5	0	1.8	0.05	3.232	9.53	3.156	9.31
5	2	6	0.15	0.780	7.57	0.798	7.75
10	3	12	0.30	0.447	8.71	0.419	8.16
20	6	12	0.30	0.236	9.08	0.225	8.66
30	9	12	0.30	0.163	9.38	0.164	9.44
50	15	12	0.30	0.097	9.29	0.102	9.77
100	30	12	0.30	0.047	9.00	0.049	9.39



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Dallas, TX

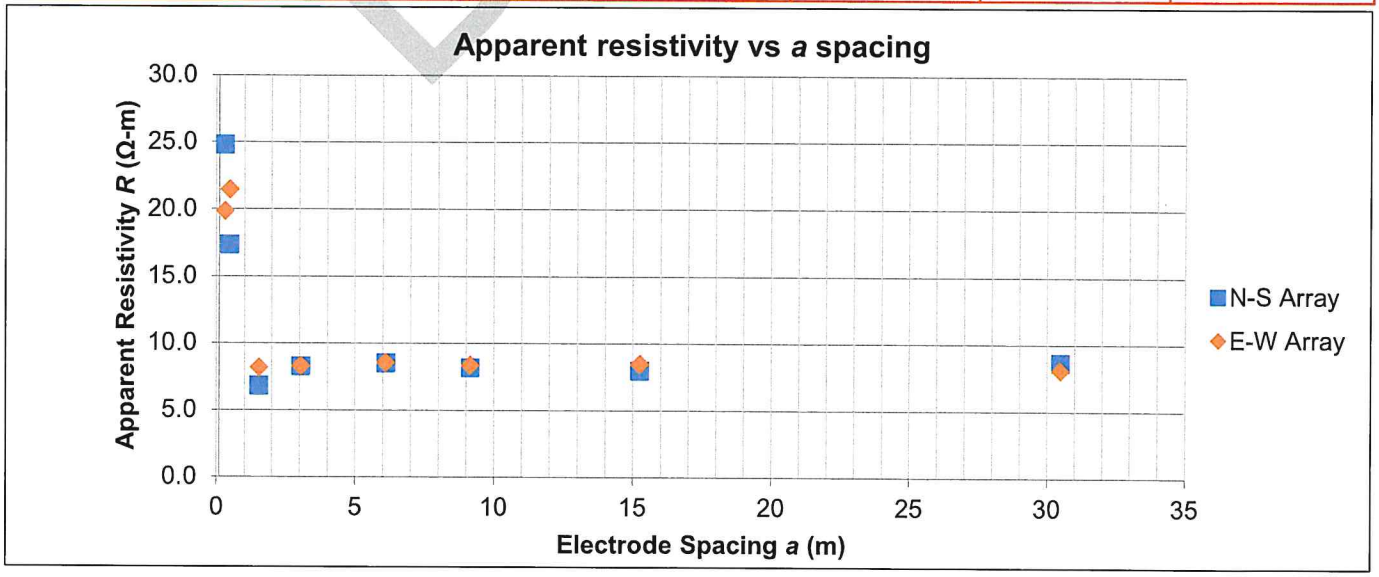
FIELD ELECTRICAL RESISTIVITY TEST DATA

Barrett Solar Facility ■ Point, Texas
July 2023 ■ Terracon Project No. 94235249

Array Loc.	ER-7 (32.947517,-95.892598)		
Instrument	MiniRes	**Weather**	Cloudy, Hot
Serial #	SN 333	**Ground Cond.**	Moist, Hard
Cal. Check	Yes	**Tested By**	Cameron
Test Date	July 13, 2023	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(meters)	(inches)	(meters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-m)	Ω	(Ω-m)
1	0	1.2	0.03	12.921	24.78	10.330	19.81
1.5	0	1.8	0.05	5.877	17.33	7.264	21.42
5	2	6	0.15	0.701	6.81	0.839	8.15
10	3	12	0.30	0.424	8.26	0.425	8.28
20	6	12	0.30	0.221	8.51	0.222	8.54
30	9	12	0.30	0.142	8.17	0.145	8.34
50	15	12	0.30	0.083	7.95	0.088	8.43
100	30	12	0.30	0.045	8.62	0.042	8.04



Terracon
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Dallas, TX

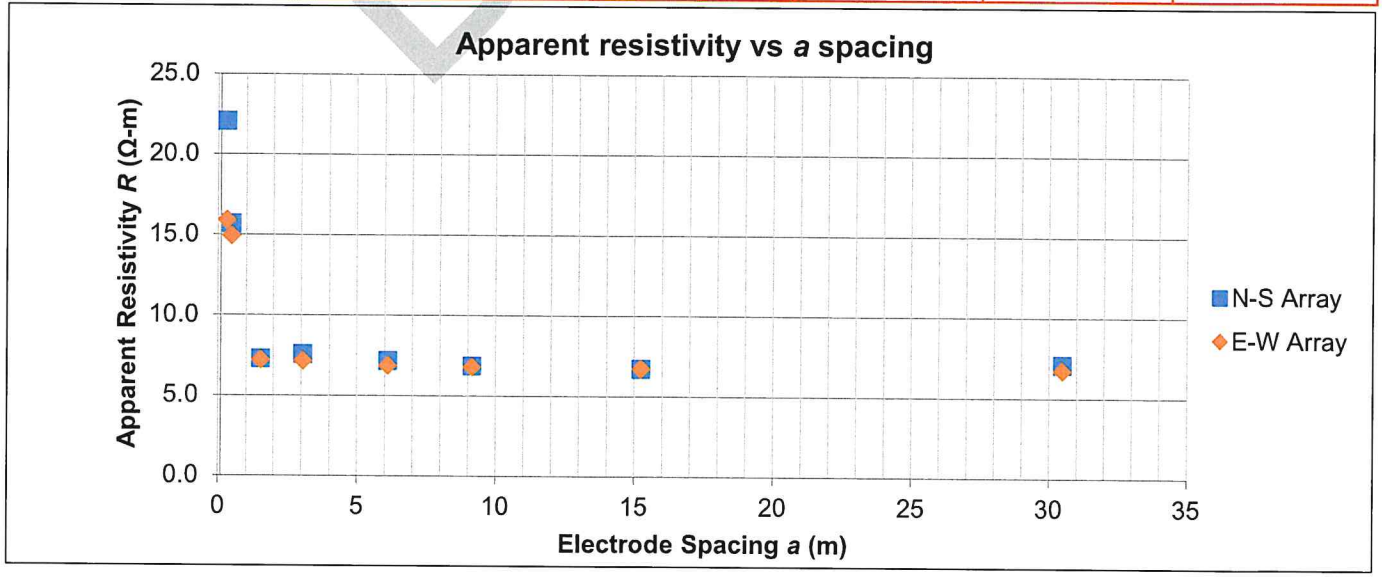
FIELD ELECTRICAL RESISTIVITY TEST DATA

Barrett Solar Facility ■ Point, Texas
July 2023 ■ Terracon Project No. 94235249

Array Loc.	ER-8 (32.940264,-95.888378)		
Instrument	MiniRes	**Weather**	Cloudy, Hot
Serial #	SN 333	**Ground Cond.**	Moist, Hard
Cal. Check	Yes	**Tested By**	Cameron
Test Date	July 13, 2023	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(meters)	(inches)	(meters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-m)	Ω	(Ω-m)
1	0	1.2	0.03	11.505	22.06	8.285	15.89
1.5	0	1.8	0.05	5.313	15.67	5.058	14.92
5	2	6	0.15	0.751	7.29	0.739	7.18
10	3	12	0.30	0.388	7.56	0.366	7.13
20	6	12	0.30	0.186	7.16	0.178	6.85
30	9	12	0.30	0.119	6.85	0.118	6.79
50	15	12	0.30	0.070	6.71	0.070	6.71
100	30	12	0.30	0.037	7.09	0.035	6.70



Terracon
8901 John W Carpenter Fwy
Ste 100
Dallas, TX

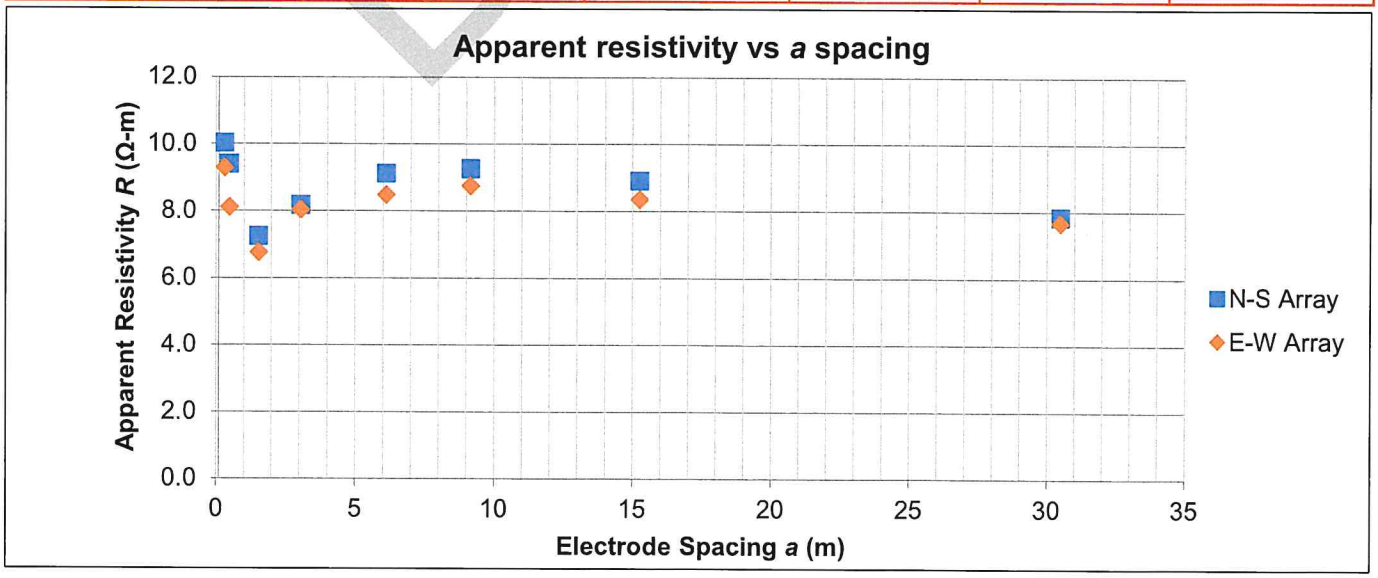
FIELD ELECTRICAL RESISTIVITY TEST DATA

Barrett Solar Facility ■ Point, Texas
July 2023 ■ Terracon Project No. 94235249

Array Loc.	ER-9 (32.9356103,-95.884691)		
Instrument	MiniRes	**Weather**	Cloudy, Hot
Serial #	SN 333	**Ground Cond.**	Moist, Hard
Cal. Check	Yes	**Tested By**	Cameron
Test Date	July 13, 2023	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(meters)	(inches)	(meters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-m)	Ω	(Ω-m)
1	0	1.2	0.03	5.232	10.03	4.839	9.28
1.5	0	1.8	0.05	3.186	9.40	2.747	8.10
5	2	6	0.15	0.747	7.25	0.695	6.75
10	3	12	0.30	0.420	8.18	0.412	8.03
20	6	12	0.30	0.237	9.12	0.220	8.47
30	9	12	0.30	0.161	9.26	0.152	8.75
50	15	12	0.30	0.093	8.91	0.087	8.34
100	30	12	0.30	0.041	7.85	0.040	7.66



FIELD ELECTRICAL RESISTIVITY TEST DATA

Barrett Solar Final Study ■ Point, Texas
August 23, 2024 ■ 94245360

Terracon
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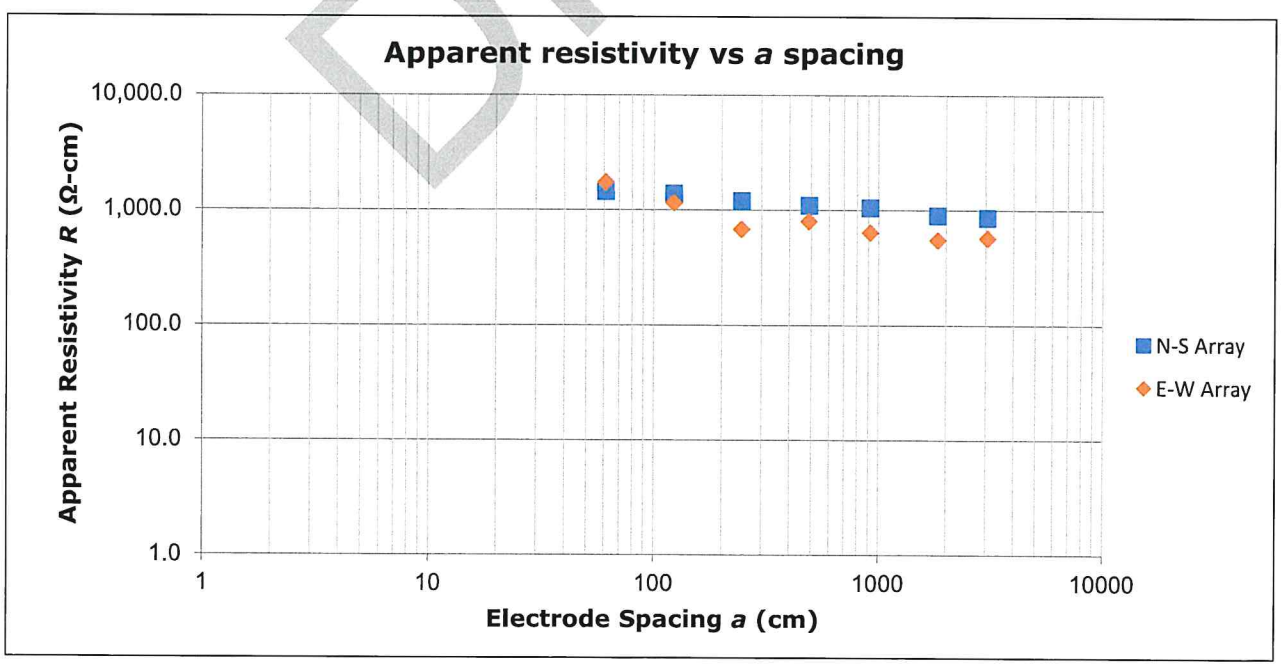
Array Loc.	SBER-1		
Lattitude and Longitude	32.9676436N 95.9122268W		
Instrument	MiniRes	**Weather**	hot, sunny
Serial #	333	**Ground Cond.**	hard, dry
Cal. Check	Yes	**Tested By**	Tim Nix
Test Date	August 23, 2024	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi a R}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(centimeters)	(inches)	(centimeters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-cm)	Ω	(Ω-cm)
2	61	2.4	6	3.712	1450	4.454	1740
4	122	4.8	12	1.778	1390	1.480	1150
8	244	9.6	24	0.770	1200	0.438	680
16	488	12.0	30	0.358	1100	0.260	800
30	914	12.0	30	0.183	1050	0.112	640
60	1829	12.0	30	0.078	900	0.048	550
100	3048	12.0	30	0.045	860	0.030	570



FIELD ELECTRICAL RESISTIVITY TEST DATA

Barrett Solar Final Study ■ Point, Texas
August 23, 2024 ■ 94245360

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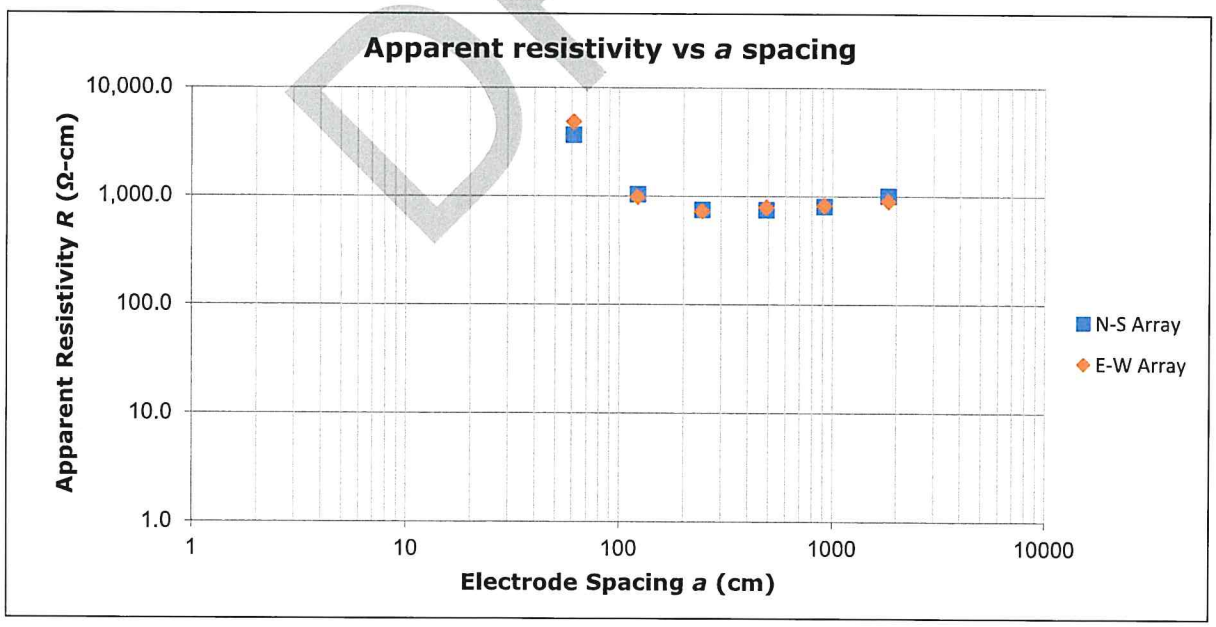
Array Loc.	ER-11		
Lattitude and Longitude	32.9575363N 95.9031917W		
Instrument	MiniRes	**Weather**	hot, sunny
Serial #	333	**Ground Cond.**	hard, dry
Cal. Check	Yes	**Tested By**	Tim Nix
Test Date	August 23, 2024	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(centimeters)	(inches)	(centimeters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-cm)	Ω	(Ω-cm)
2	61	2.4	6	9.388	3660	12.420	4840
4	122	4.8	12	1.329	1040	1.256	980
8	244	9.6	24	0.481	750	0.470	730
16	488	12.0	30	0.244	750	0.256	790
30	914	12.0	30	0.140	810	0.142	820
60	1829	12.0	30	0.088	1010	0.078	900



FIELD ELECTRICAL RESISTIVITY TEST DATA

Barrett Solar Final Study ■ Point, Texas
August 23, 2024 ■ 94245360

Terracon
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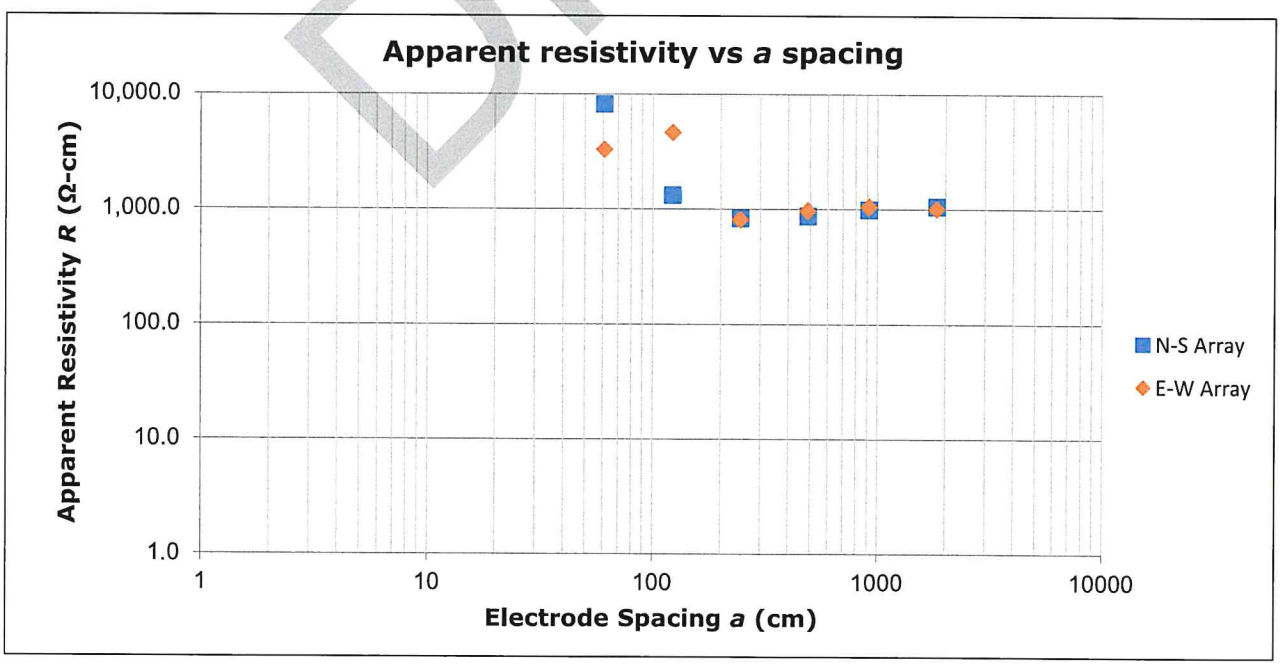
Array Loc.	ER-10		
Lattitude and Longitude	32.9574495N 95.9080316W		
Instrument	MiniRes	**Weather**	hot, sunny
Serial #	333	**Ground Cond.**	hard, dry
Cal. Check	Yes	**Tested By**	Tim Nix
Test Date	August 23, 2024	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(centimeters)	(inches)	(centimeters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-cm)	Ω	(Ω-cm)
2	61	2.4	6	21.0	8180	8.417	3280
4	122	4.8	12	1.693	1320	5.943	4630
8	244	9.6	24	0.531	830	0.521	810
16	488	12.0	30	0.281	870	0.315	970
30	914	12.0	30	0.172	990	0.183	1050
60	1829	12.0	30	0.092	1060	0.088	1010



FIELD ELECTRICAL RESISTIVITY TEST DATA

Barrett Solar Final Study ■ Point, Texas
August 23, 2024 ■ 94245360

Terracon
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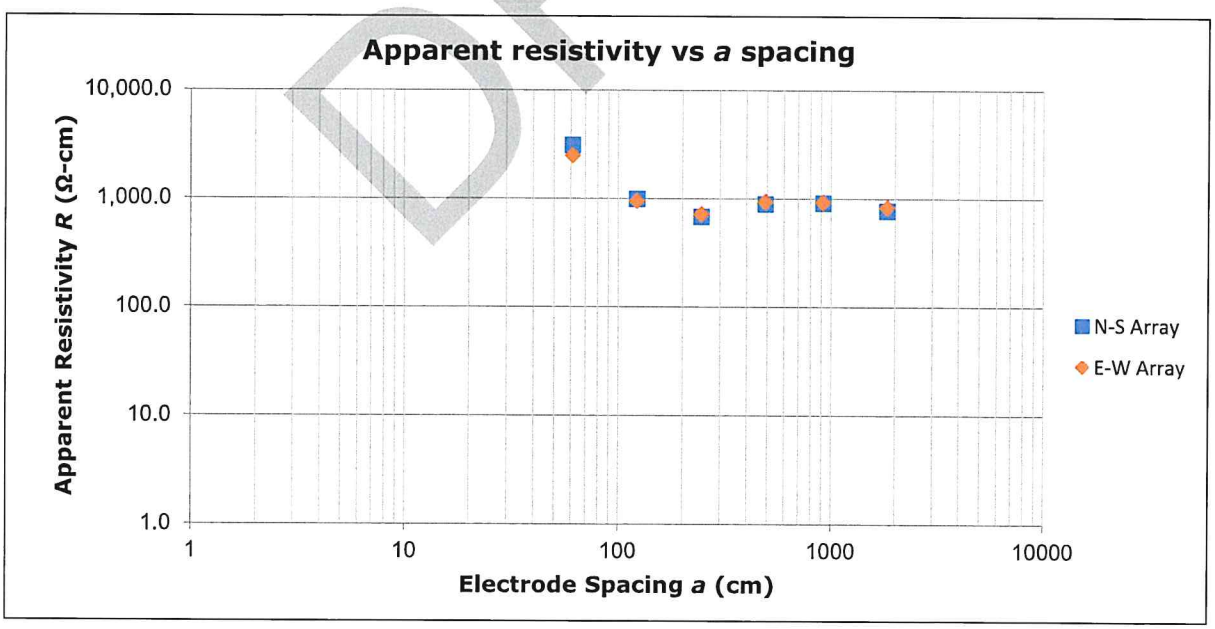
Array Loc.	ER-12		
Lattitude and Longitude	32.9639789N 95.9118248W		
Instrument	MiniRes	**Weather**	hot, sunny
Serial #	333	**Ground Cond.**	hard, dry
Cal. Check	Yes	**Tested By**	Tim Nix
Test Date	August 23, 2024	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(centimeters)	(inches)	(centimeters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-cm)	Ω	(Ω-cm)
2	61	2.4	6	7.967	3100	6.392	2490
4	122	4.8	12	1.276	990	1.217	950
8	244	9.6	24	0.439	680	0.460	720
16	488	12.0	30	0.289	890	0.306	940
30	914	12.0	30	0.159	910	0.161	930
60	1829	12.0	30	0.067	770	0.072	830



FIELD ELECTRICAL RESISTIVITY TEST DATA

Barrett Solar Final Study ■ Point, Texas
August 23, 2024 ■ 94245360

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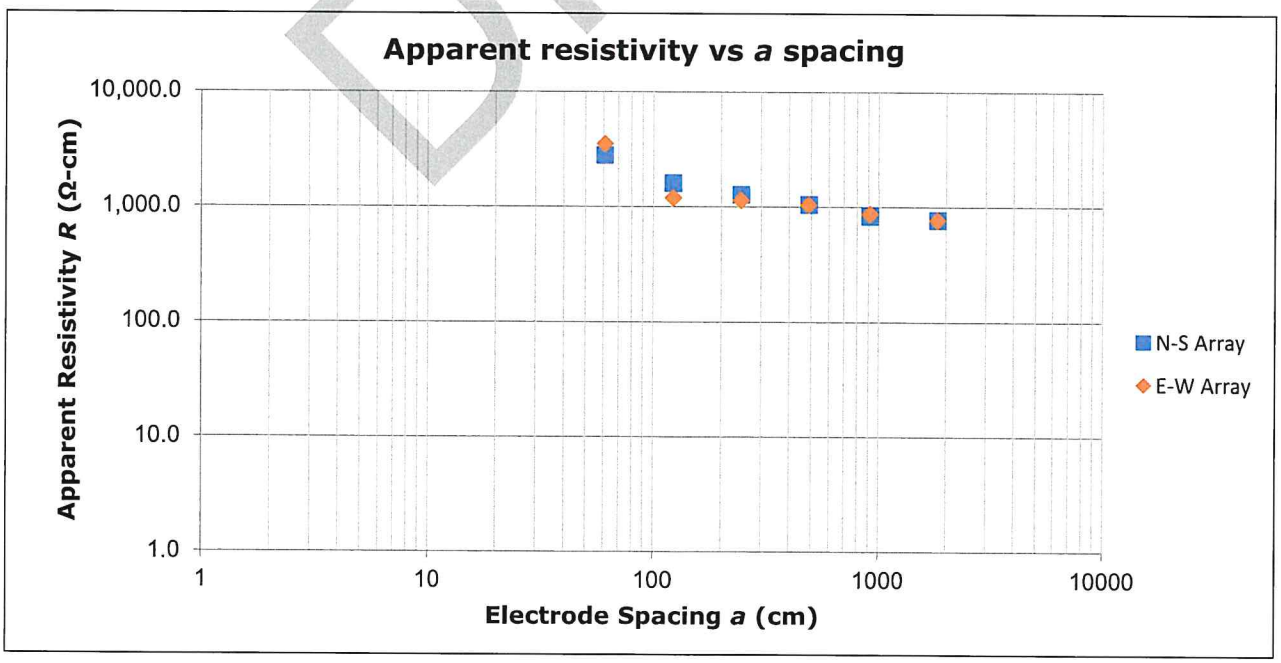
Array Loc.	ER-13		
Lattitude and Longitude	32.9634495N 95.9207116W		
Instrument	MiniRes	**Weather**	hot, sunny
Serial #	333	**Ground Cond.**	hard, dry
Cal. Check	Yes	**Tested By**	Tim Nix
Test Date	August 23, 2024	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(centimeters)	(inches)	(centimeters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-cm)	Ω	(Ω-cm)
2	61	2.4	6	7.190	2800	9.058	3530
4	122	4.8	12	2.069	1610	1.524	1190
8	244	9.6	24	0.820	1280	0.733	1140
16	488	12.0	30	0.340	1050	0.340	1050
30	914	12.0	30	0.145	830	0.151	870
60	1829	12.0	30	0.067	770	0.067	770



FIELD ELECTRICAL RESISTIVITY TEST DATA

Barrett Solar Final Study ■ Point, Texas
August 23, 2024 ■ 94245360

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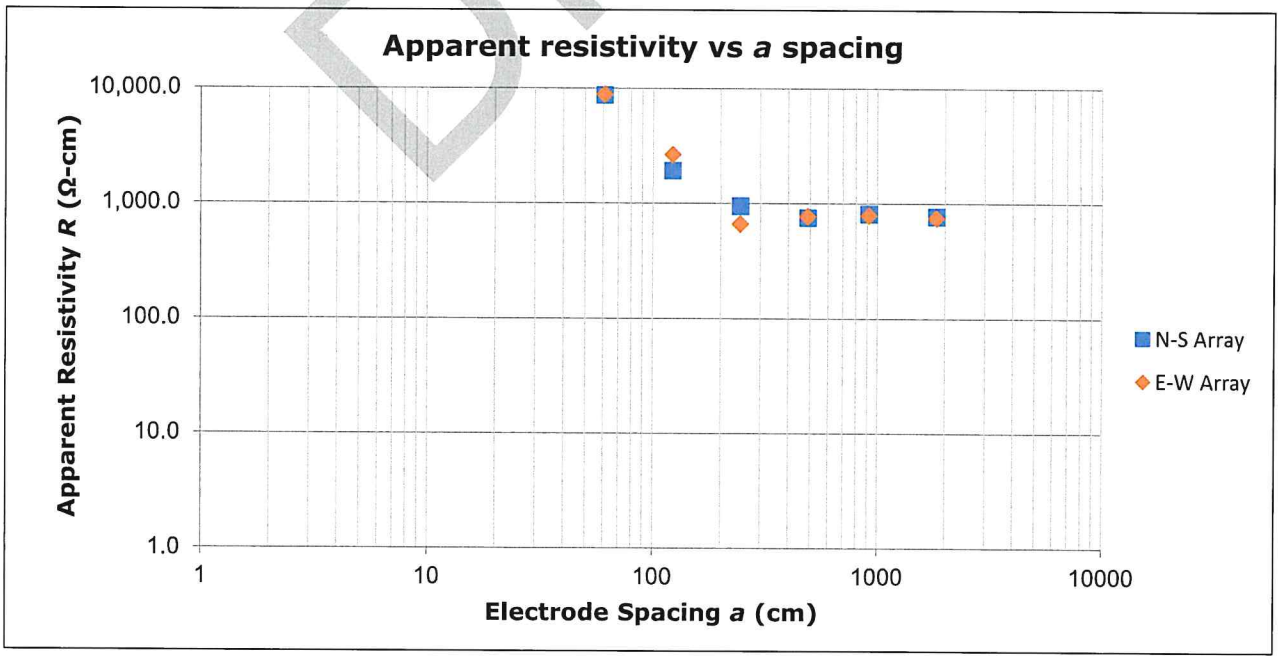
Array Loc.	ER-14		
Lattitude and Longitude	32.9600091N 95.9130071W		
Instrument	MiniRes	**Weather**	hot, sunny
Serial #	333	**Ground Cond.**	hard, dry
Cal. Check	Yes	**Tested By**	Tim Nix
Test Date	August 23, 2024	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(centimeters)	(inches)	(centimeters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-cm)	Ω	(Ω-cm)
2	61	2.4	6	22.4	8730	22.8	8880
4	122	4.8	12	2.461	1920	3.384	2640
8	244	9.6	24	0.609	950	0.423	660
16	488	12.0	30	0.244	750	0.248	770
30	914	12.0	30	0.140	810	0.137	790
60	1829	12.0	30	0.067	770	0.065	750



FIELD ELECTRICAL RESISTIVITY TEST DATA

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August 23, 2024 ■ 94245360

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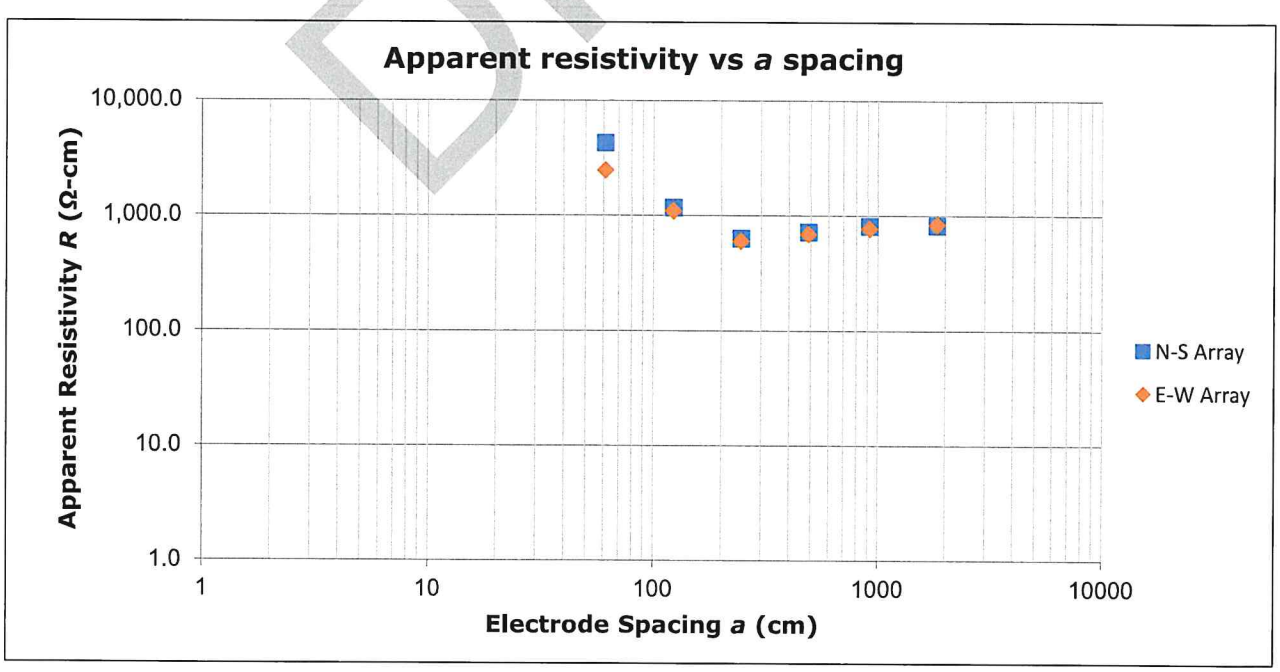
Array Loc.	ER-15		
Lattitude and Longitude	32.9529331N 95.9130605W		
Instrument	MiniRes	**Weather**	hot, sunny
Serial #	333	**Ground Cond.**	hard, dry
Cal. Check	Yes	**Tested By**	Tim Nix
Test Date	August 23, 2024	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(centimeters)	(inches)	(centimeters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-cm)	Ω	(Ω-cm)
2	61	2.4	6	10.994	4280	6.341	2470
4	122	4.8	12	1.495	1170	1.416	1100
8	244	9.6	24	0.403	630	0.382	600
16	488	12.0	30	0.233	720	0.222	690
30	914	12.0	30	0.140	810	0.133	770
60	1829	12.0	30	0.071	820	0.073	840



FIELD ELECTRICAL RESISTIVITY TEST DATA

Barrett Solar Final Study ■ Point, Texas
August 23, 2024 ■ 94245360

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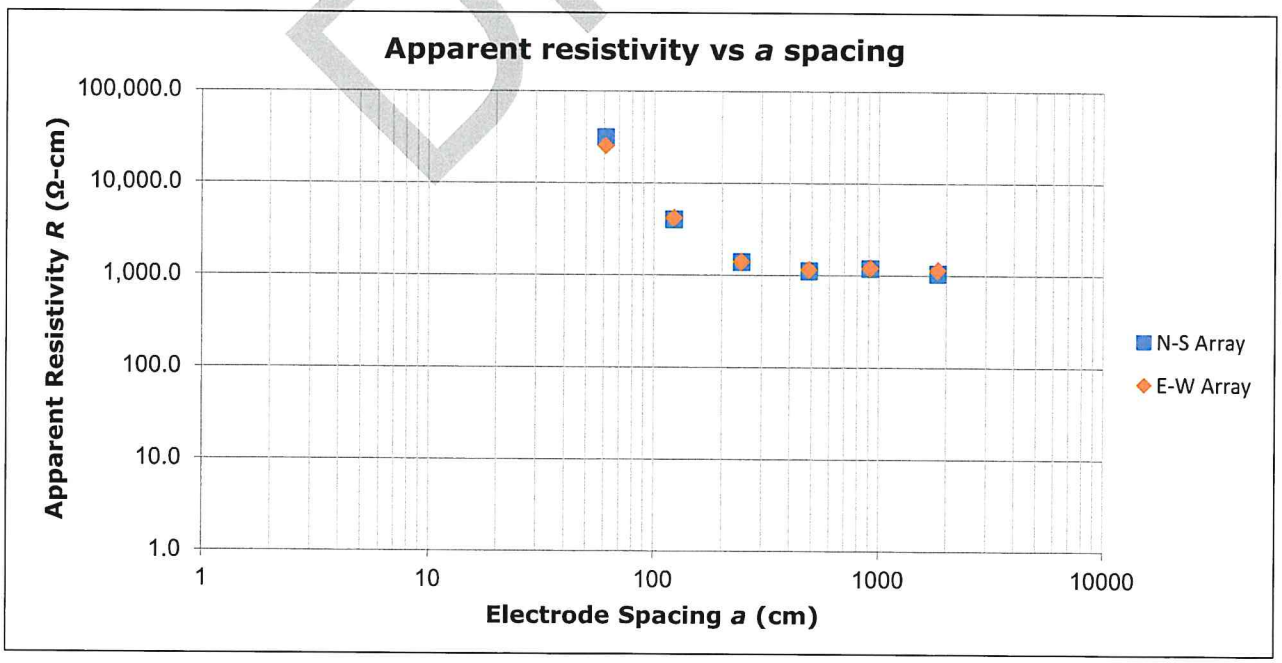
Array Loc.	ER-16		
Lattitude and Longitude	32.9523075N 95.9067503W		
Instrument	MiniRes	**Weather**	hot, sunny
Serial #	333	**Ground Cond.**	hard, dry
Cal. Check	Yes	**Tested By**	Tim Nix
Test Date	August 23, 2024	**Method**	Wenner 4-pin (ASTM G57-06 (2012); IEEE 81-2012)
Notes & Conflicts			

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi aR}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		Electrode Depth *b*		N-S Test		E-W Test	
(feet)	(centimeters)	(inches)	(centimeters)	Measured Resistance *R*	Apparent Resistivity ρ	Measured Resistance *R*	Apparent Resistivity ρ
				Ω	(Ω-cm)	Ω	(Ω-cm)
2	61	2.4	6	81.2	31640	65.4	25480
4	122	4.8	12	5.199	4050	5.401	4210
8	244	9.6	24	0.897	1400	0.905	1410
16	488	12.0	30	0.365	1130	0.376	1160
30	914	12.0	30	0.207	1190	0.211	1210
60	1829	12.0	30	0.092	1060	0.100	1150



Exhibits B- 68 through B- 78 **Thermal Resistivity Test Results and Dryout Curves**

21239 FM529 Rd., Bldg. F
Cypress, TX 77433
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Fax: 832-427-1752
info@geothermusa.com
http://www.geothermusa.com

July 12, 2023

Terracon
8901 John W. Carpenter Fwy, Suite 100
Dallas, TX 75247
Attn: Mohammed Alhachami, E.I.T.

Re: Thermal Analysis of Native Soil Samples
Barrett Solar Facility – Point, TX (Project No. 94235249)

The following is the report of thermal dryout characterization tests conducted on four (4) native soil samples from the referenced project sent to our laboratory.

Thermal Resistivity Tests: The samples were tested at the 'optimum' moisture content and at 90% of the standard Proctor dry density ***provided by Terracon***. The tests were conducted in accordance with the IEEE standard 442-2017. The results are tabulated below and the thermal dryout curves are presented in **Figures 1 to 4.**

Sample ID, Description, Thermal Resistivity, Moisture Content and Density

Sample ID	Depth (ft)	Effort (%)	Description (Terracon)	Thermal Resistivity (°C-cm/W)		Moisture Content (%)	Dry Density (lb/ft³)
				Wet	Dry		
B-1/ Bulk 1	0-4	90	Brown, dark Brown Fat Clay	65	125	18	96
B-10/ Bulk 2	0-4	90	Brown Fat Clay	58	145	17	96
B-12/ Bulk 3	0-4	90	Dark Brown Fat Clay	67	138	17	97
B-16/ Bulk 4	0-4	90	Light Brown Lean Clay	56	138	14	99

Comments: The thermal characteristic depicted in the dryout curves apply for the soils at their respective test dry density.

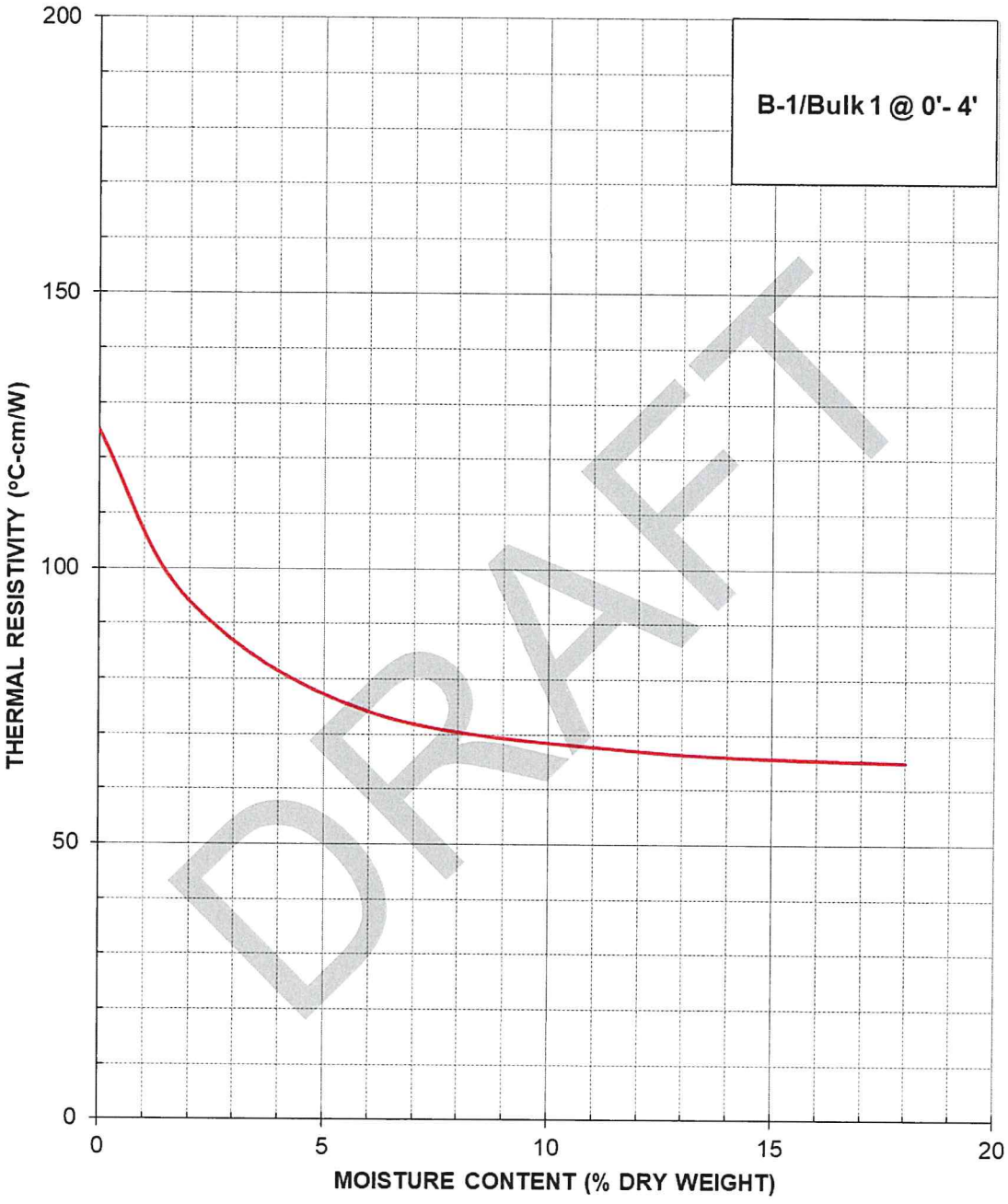
Please contact us if you have any questions or if we can be of further assistance.

Geotherm USA

Nimesh Patel

Geotherm USA

THERMAL DRYOUT CURVE



Terracon (Project No. 94235249)

Barrett Solar Facility – Point, TX

Thermal Analysis of Native Soil Samples

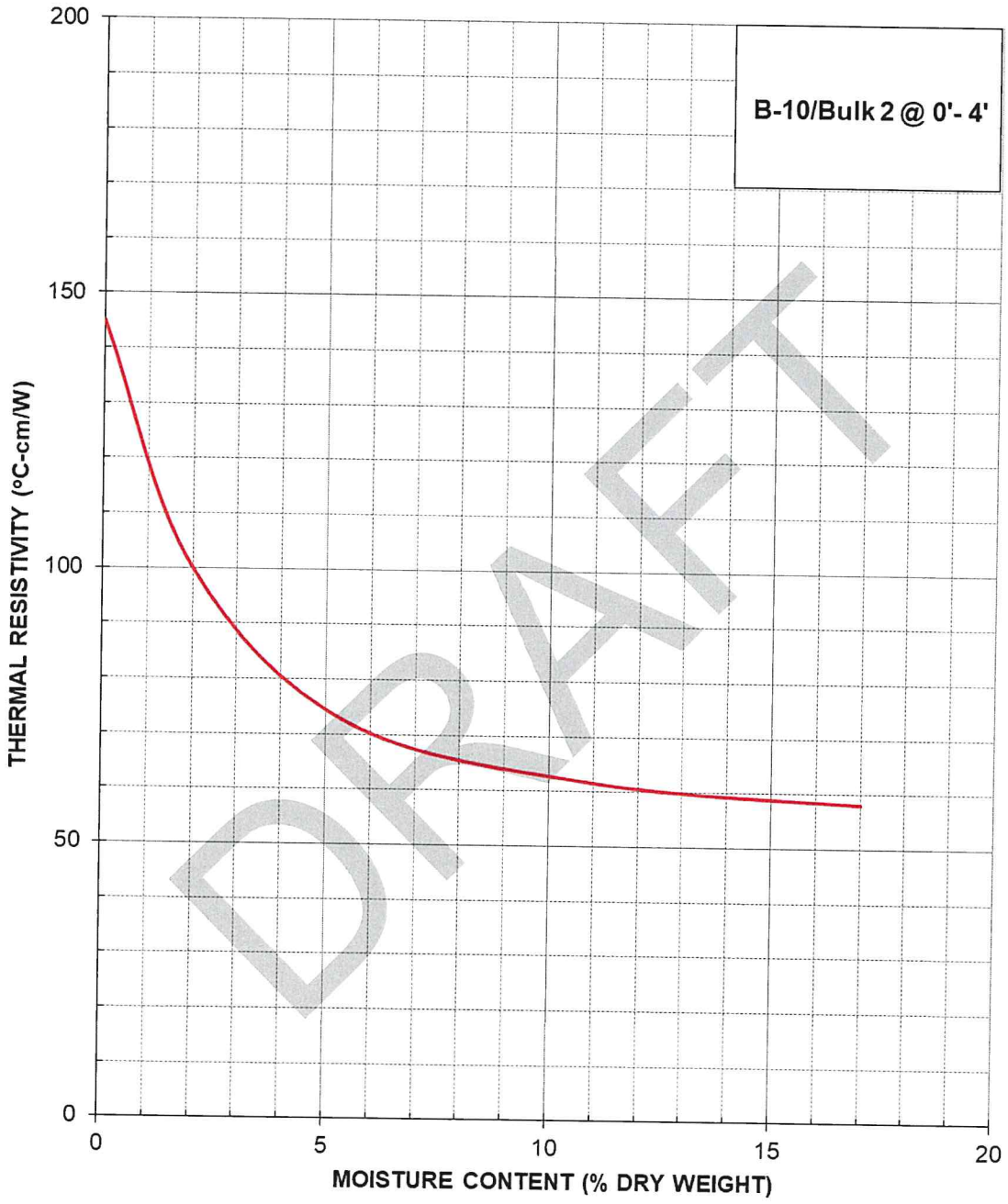
July 2023

Figure 1

EXHIBIT B-69

Geotherm USA

THERMAL DRYOUT CURVE



Terracon (Project No. 94235249)

Barrett Solar Facility – Point, TX

Thermal Analysis of Native Soil Samples

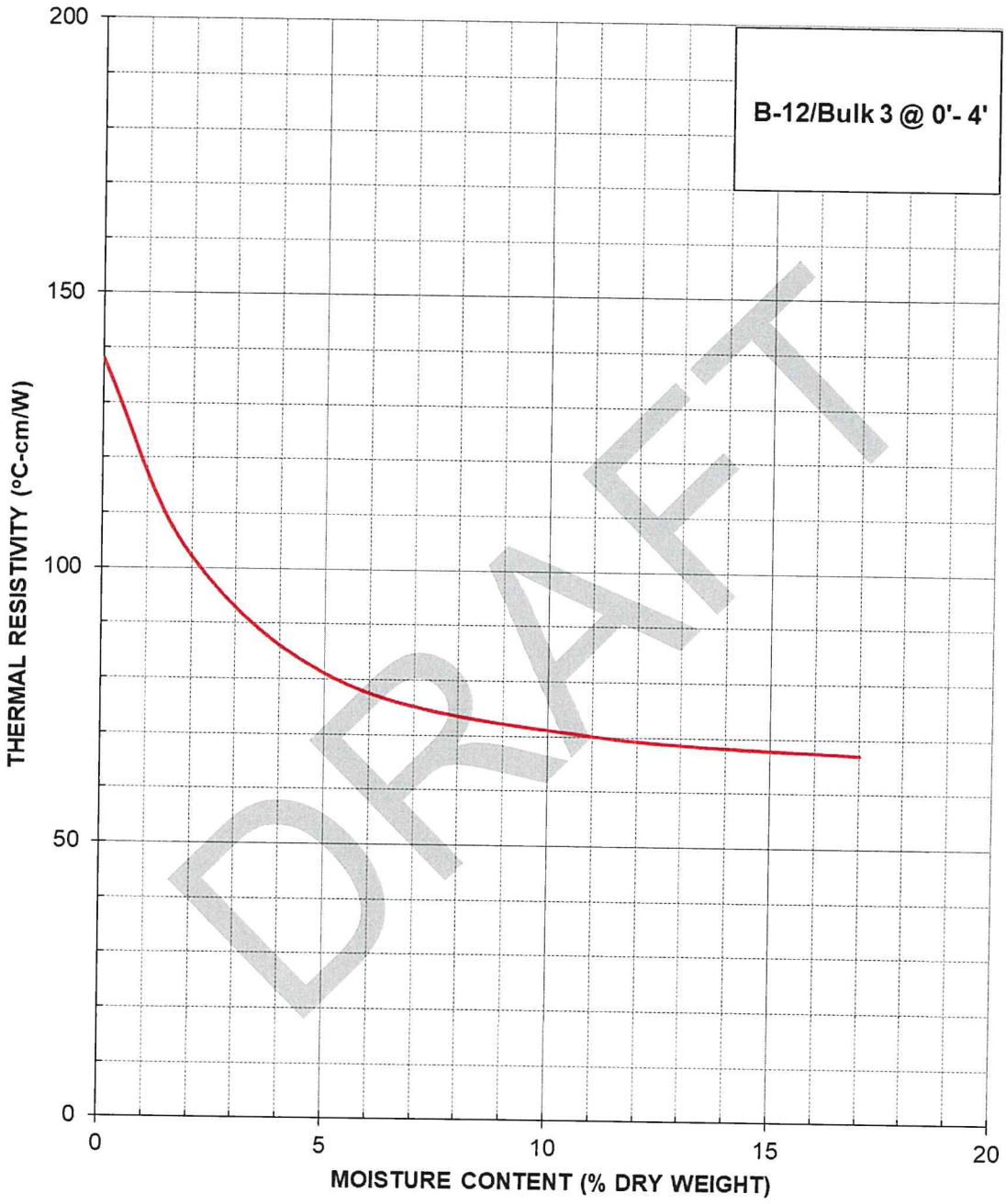
July 2023

Figure 2

EXHIBIT B-70

Geotherm USA

THERMAL DRYOUT CURVE



Terracon (Project No. 94235249)

Barrett Solar Facility – Point, TX

Thermal Analysis of Native Soil Samples

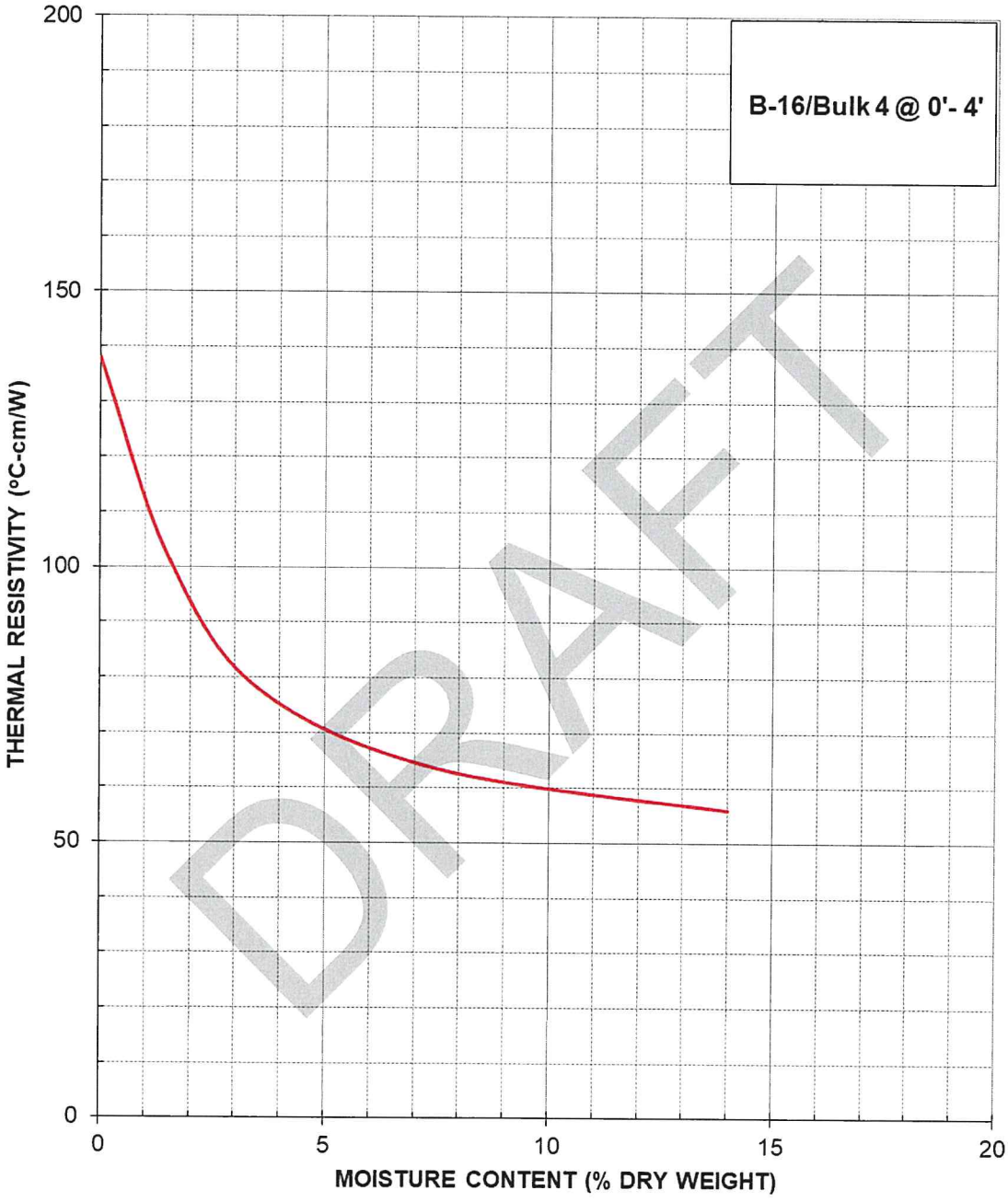
July 2023

Figure 3

EXHIBIT B-71

Geotherm USA

THERMAL DRYOUT CURVE



Terracon (Project No. 94235249)

Barrett Solar Facility – Point, TX

Thermal Analysis of Native Soil Samples

July 2023

Figure 4

EXHIBIT B-72

Geotherm

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http://www.geothermusa.com

September 19, 2024

Terracon
8901 John W. Carpenter Fwy., Suite 100
Dallas, TX 75247
Attn: Santosh Aryal, E.I.T

Re: Thermal Analysis of Native Soil Samples
Barrett Solar Facility – Point, TX (Project No. 94245360)

The following is the report of thermal dryout characterization tests conducted on five (5) bulk soil samples from the referenced project sent to our laboratory.

Thermal Resistivity Tests: The samples were tested at the 'optimum' moisture content and at 85% or 95% of the standard Proctor dry density ***provided by Terracon***. The tests were conducted in accordance with the **IEEE standard 442-2017**. The results are tabulated below and the thermal dry out curves are presented in **Figures 1 to 5.**

Sample ID, Description, Thermal Resistivity, Moisture Content and Density

Sample ID	Depth (ft)	Effort (%)	Description (Terracon)	Thermal Resistivity (°C-cm/W)		Moisture Content (%)	Dry Density (lb/ft³)
				Wet	Dry		
Bulk-5 @ B-21	0 – 4	85	Brown Fat Clay (CH)	79	272	18	89
Bulk-6 @ B-26	0 – 4	85	Lean Clay (CL)	76	284	18	88
Bulk-7 @ B-31	0 – 4	85	Lean Clay (CL)	74	267	16	89
Bulk-8 @ B-34	0 – 4	85	Dark Brown Fat Clay (CH)	78	266	18	89
Bulk-SB2	0 – 4	95	Fat Clay (CH)	69	224	18	98

Comments: The thermal characteristic depicted in the dryout curves apply for the soils at their respective test dry density.

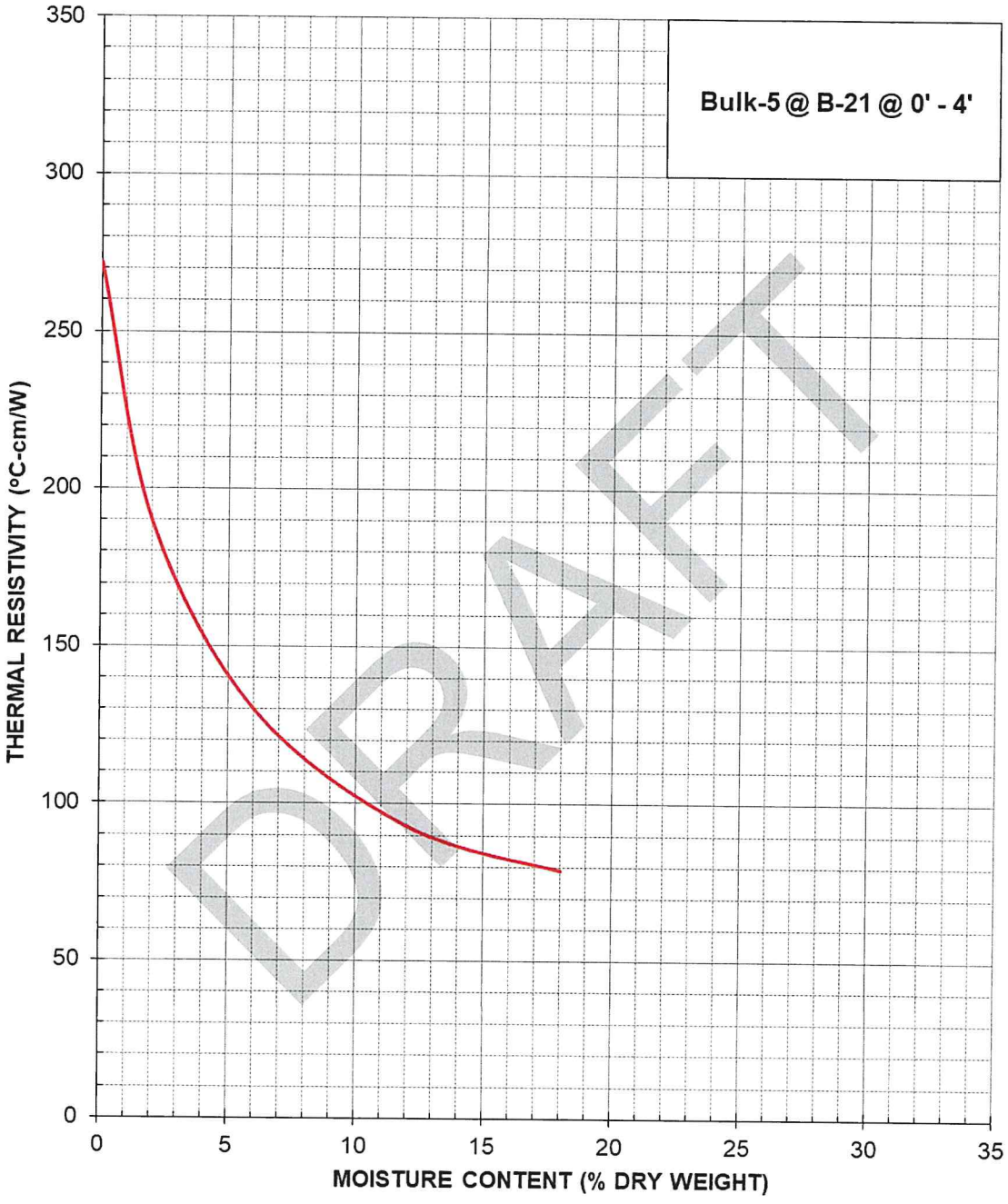
Please contact us if you have any questions or if we can be of further assistance.

Geotherm USA, LLC

Nimesh Patel

Geotherm

THERMAL DRYOUT CURVE



Terracon (Project No. 94245360)

Barrett Solar Facility – Point, TX

Thermal Analysis of Native Soil Samples

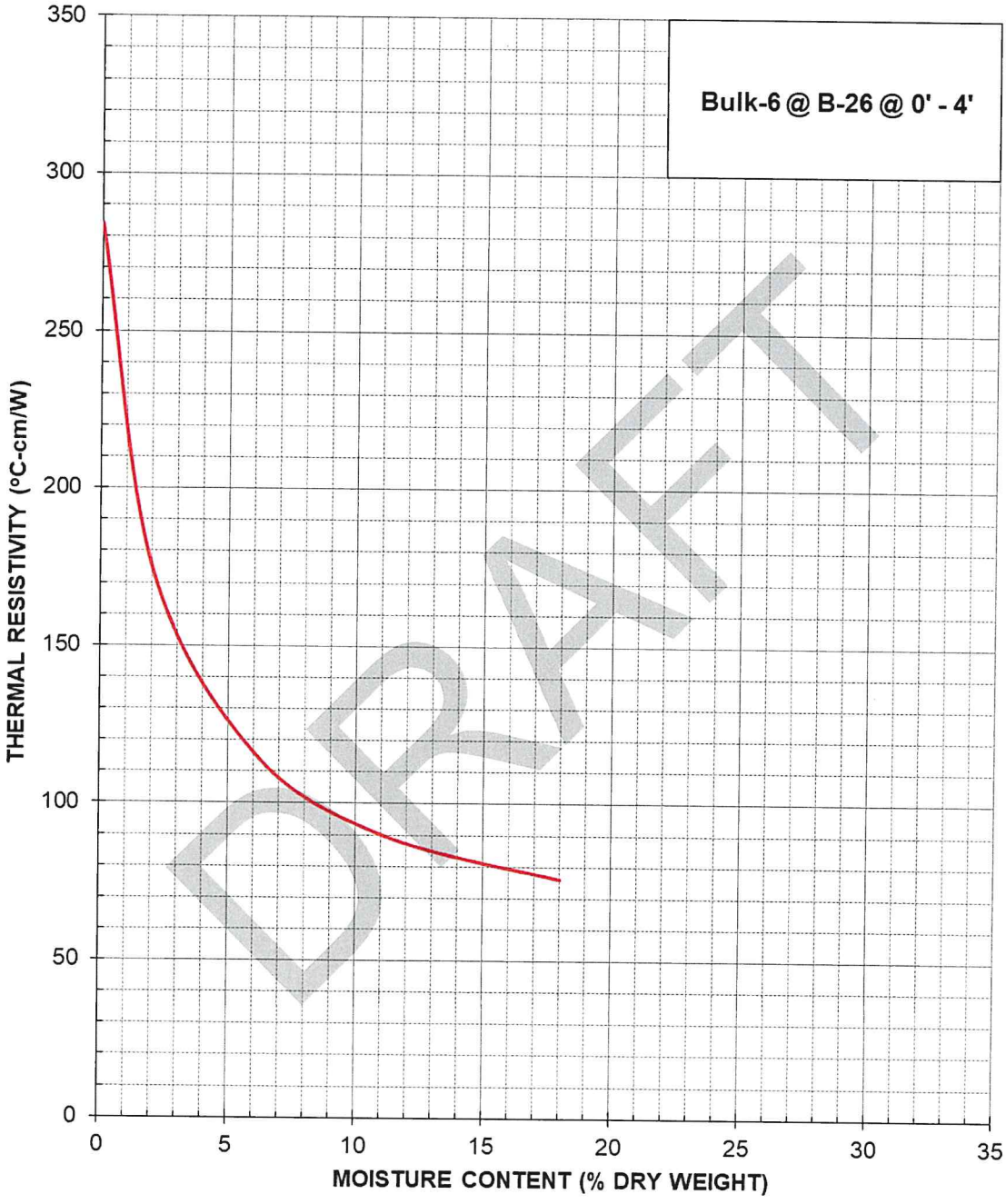
September 2024

Figure 1

EXHIBIT B-74

Geotherm

THERMAL DRYOUT CURVE



Terracon (Project No. 94245360)

Barrett Solar Facility – Point, TX

Thermal Analysis of Native Soil Samples

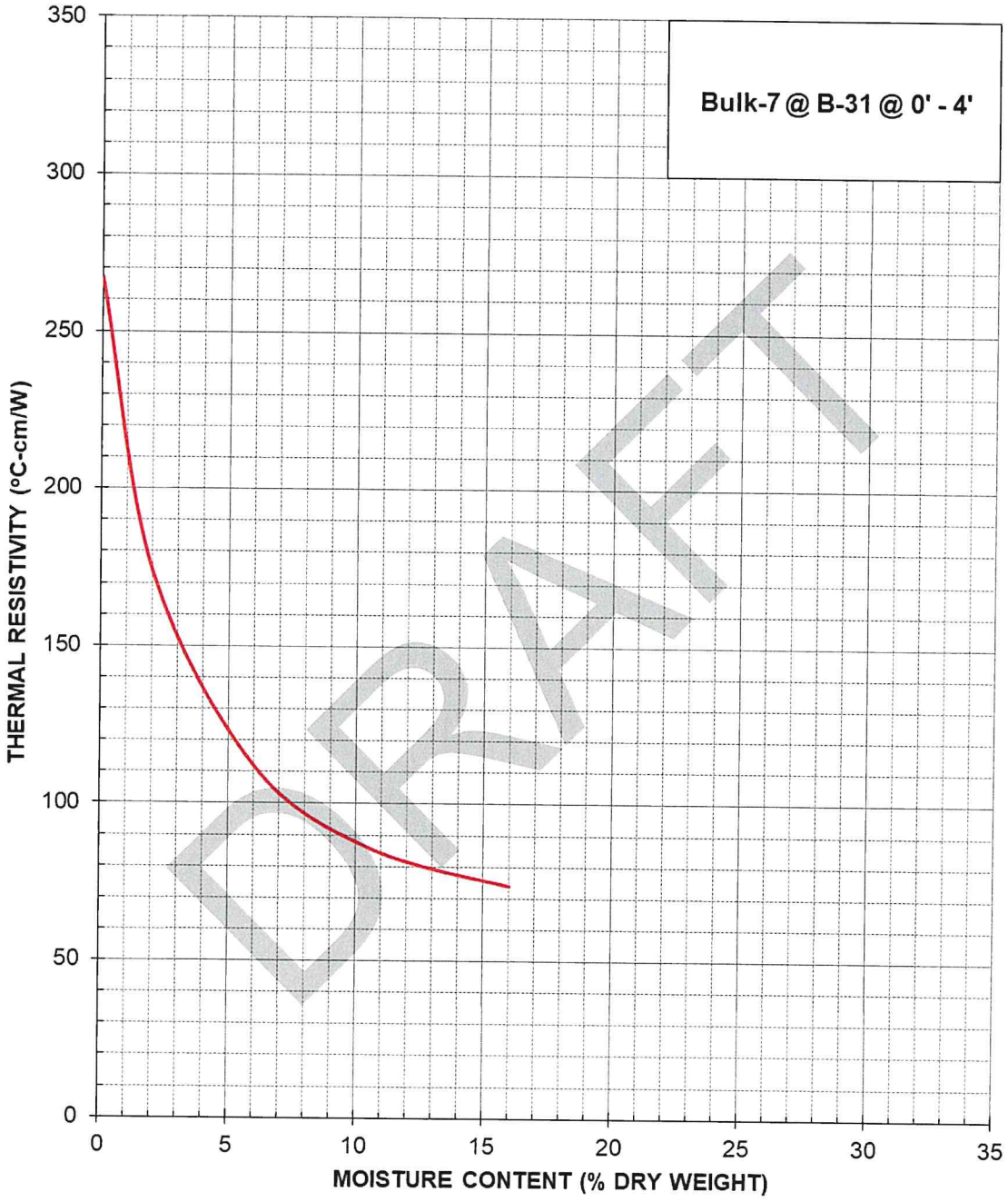
September 2024

Figure 2

EXHIBIT B-75

Geotherm

THERMAL DRYOUT CURVE



Terracon (Project No. 94245360)

Barrett Solar Facility – Point, TX

Thermal Analysis of Native Soil Samples

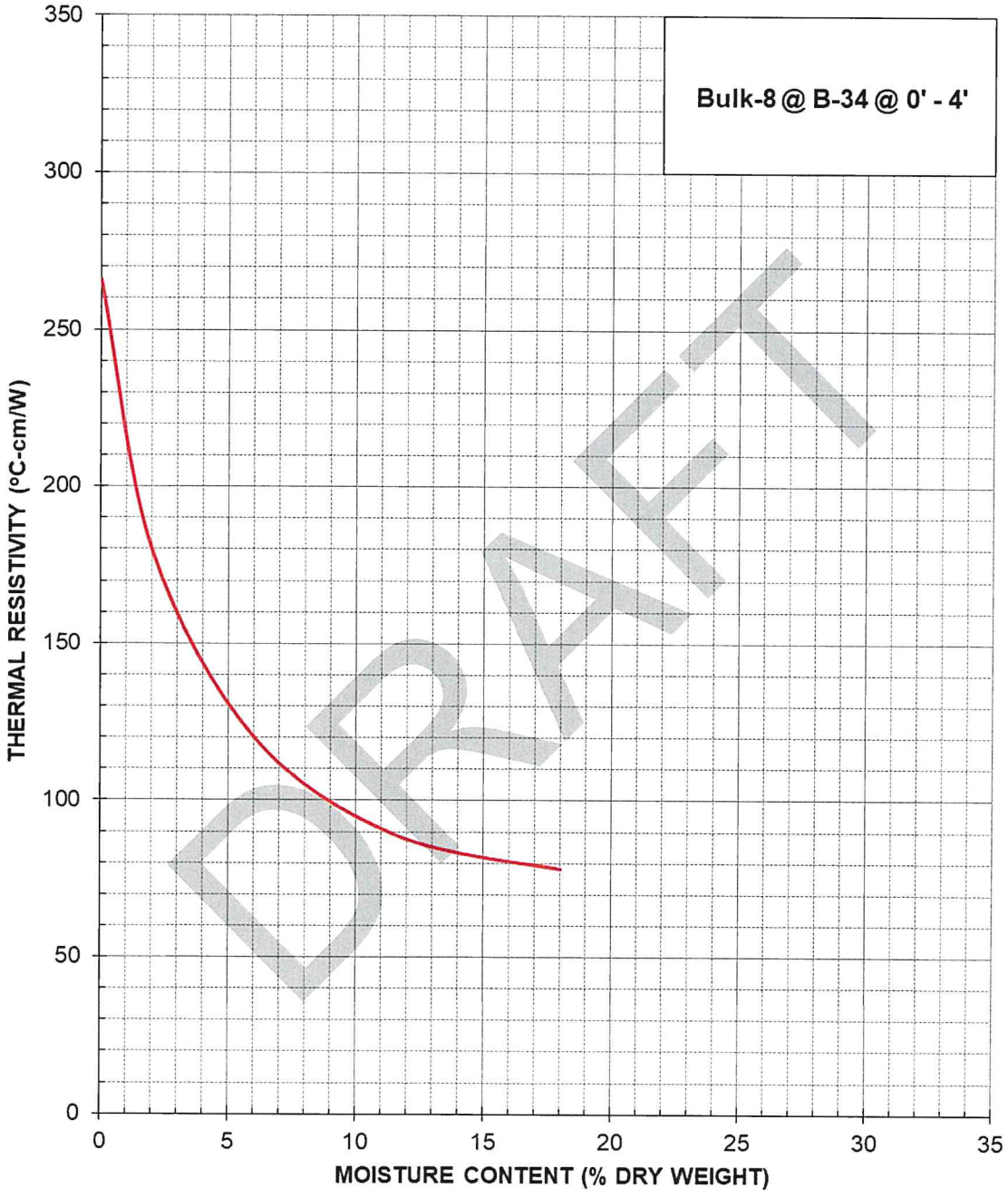
September 2024

Figure 3

EXHIBIT B-76

Geotherm

THERMAL DRYOUT CURVE



Terracon (Project No. 94245360)

Barrett Solar Facility – Point, TX

Thermal Analysis of Native Soil Samples

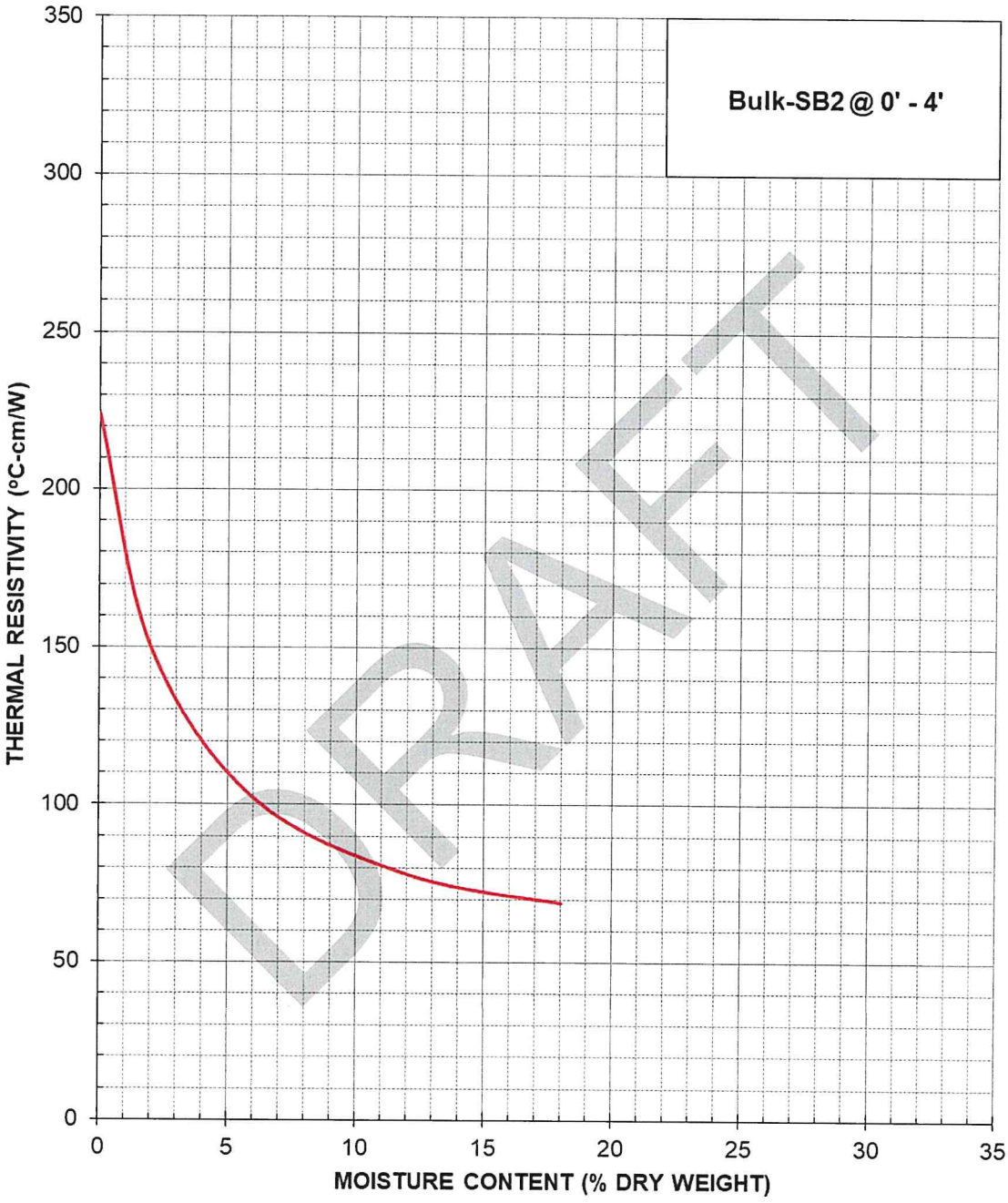
September 2024

Figure 4

EXHIBIT B-77

Geotherm

THERMAL DRYOUT CURVE



Terracon (Project No. 94245360)

Barrett Solar Facility – Point, TX

Thermal Analysis of Native Soil Samples

September 2024

Figure 5

EXHIBIT B-78

Exhibits B-79 through B-87 **Standard Proctor Moisture-Density Graphs**

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Terracon Project No. 94235249

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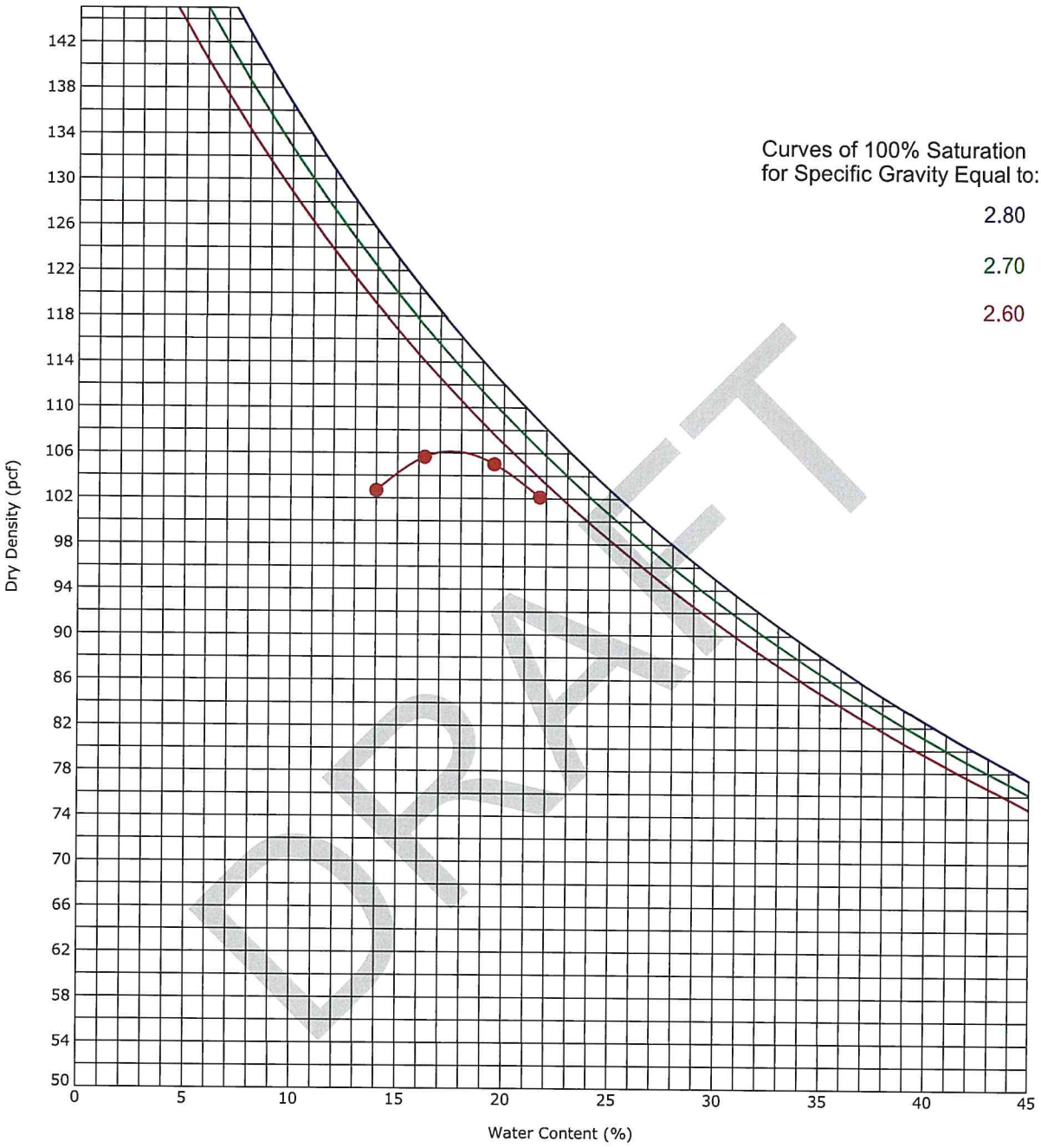
Dallas, TX

Moisture-Density Relationship

ASTM D698-Method A



Boring ID	Depth (Ft)	Description of Materials
Bulk-1	0 - 4	Brown and Dark Brown Fat Clay (CH)

Fines (%)	Fraction > mm size	LL	PL	PI	Test Method	Maximum Dry Density (pcf)	Optimum Water Content (%)
96	0.0	58	19	39	ASTM D698-Method A	106.1	17.5

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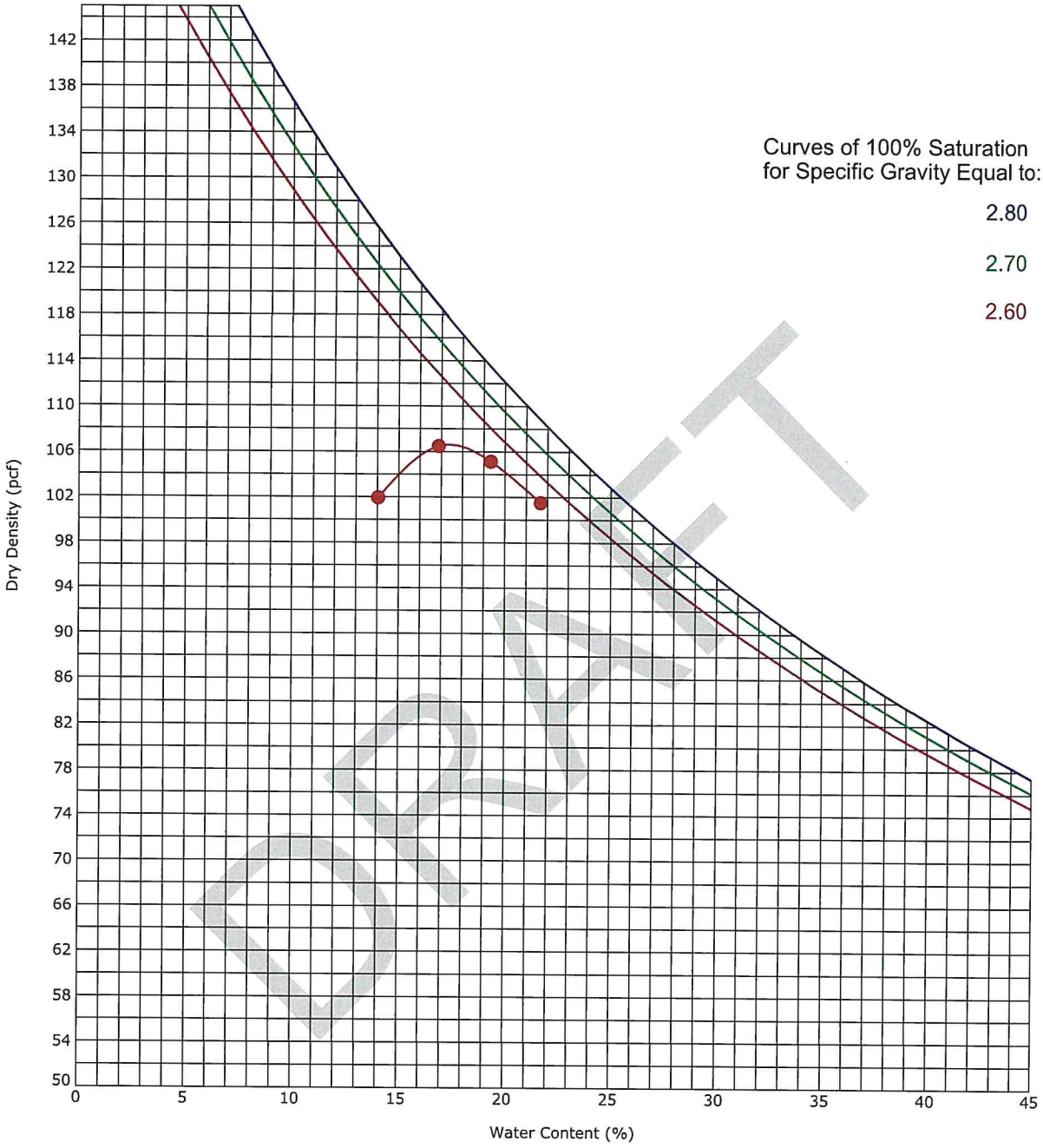
Dallas, TX

Moisture-Density Relationship

ASTM D698-Method A



Boring ID	Depth (Ft)	Description of Materials
Bulk-2	0 - 4	Brown Fat Clay (CH)

Fines (%)	Fraction > mm size	LL	PL	PI	Test Method	Maximum Dry Density (pcf)	Optimum Water Content (%)
96	0.0	54	18	36	ASTM D698-Method A	106.6	17.4

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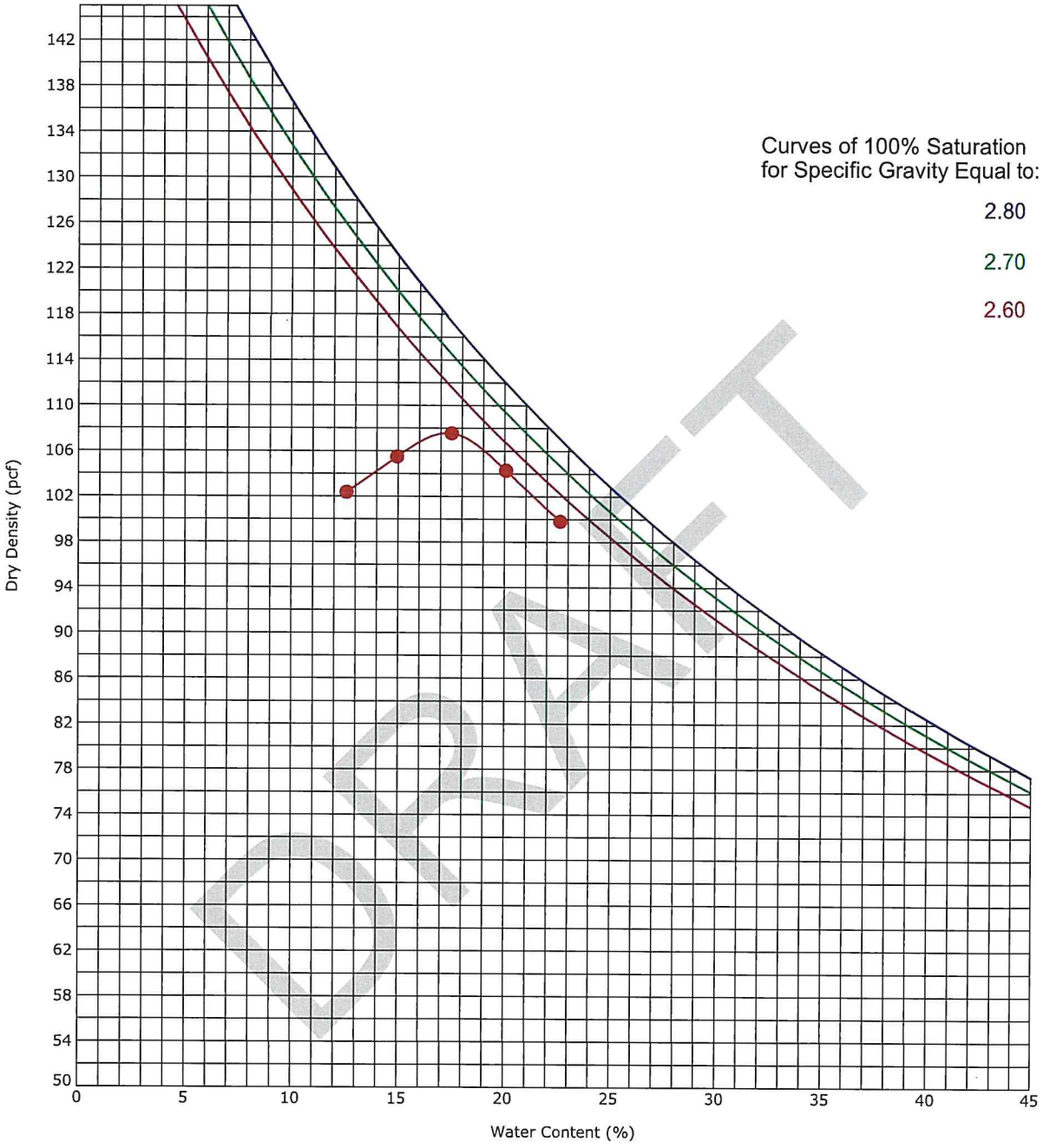
ASTM D698-Method A



Boring ID	Depth (Ft)	Description of Materials
Bulk-3	0 - 4	Dark Brown Fat Clay (CH)

Fines (%)	Fraction > mm size	LL	PL	PI	Test Method	Maximum Dry Density (pcf)	Optimum Water Content (%)
95	0.0	56	19	37	ASTM D698-Method A	107.6	17.2

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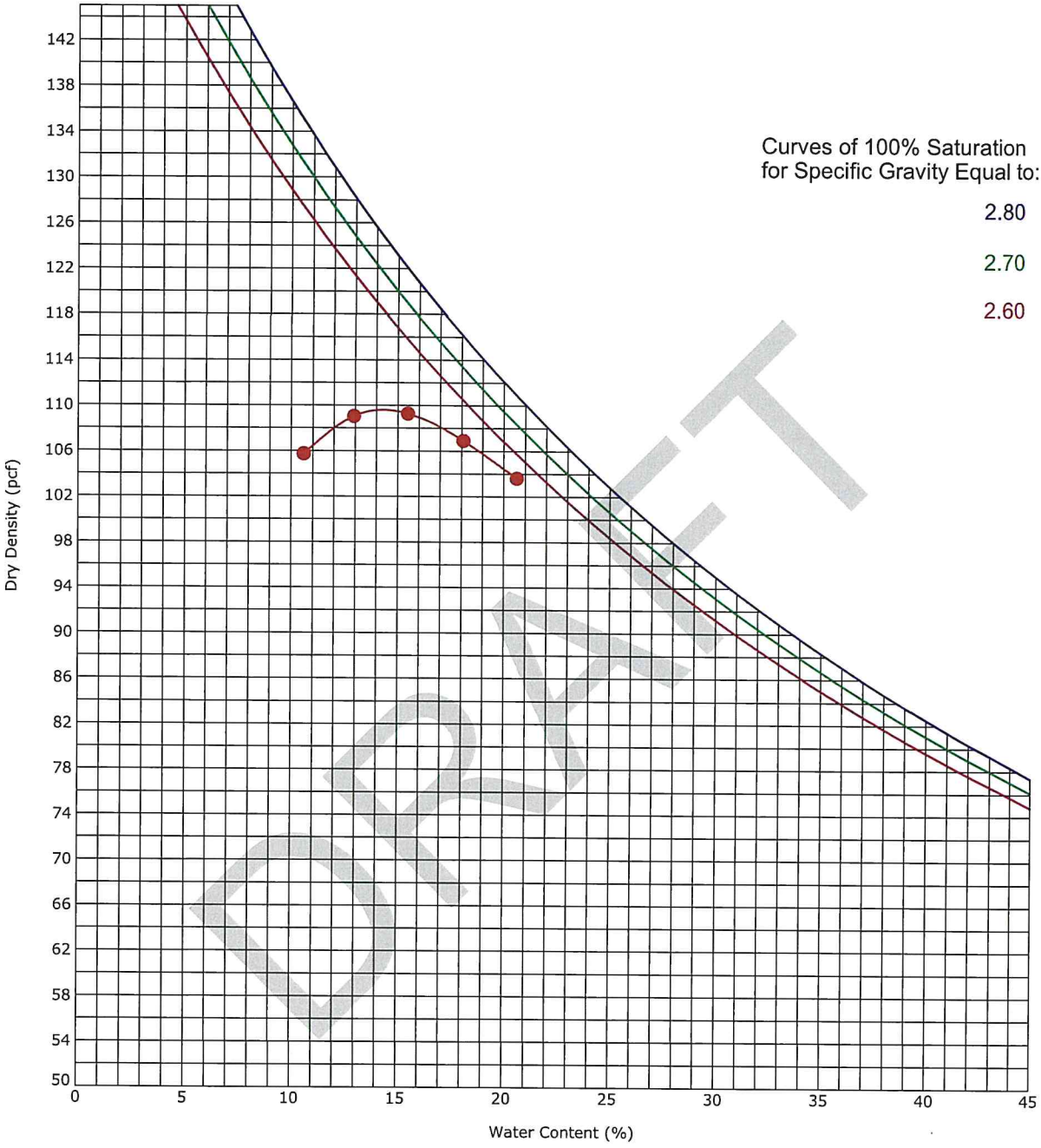
Moisture-Density Relationship

ASTM D698-Method A



Boring ID	Depth (Ft)	Description of Materials
Bulk-4	0 - 4	Light Brown Lean Clay (CL)

Fines (%)	Fraction > mm size	LL	PL	PI	Test Method	Maximum Dry Density (pcf)	Optimum Water Content (%)
89	0.0	49	16	33	ASTM D698-Method A	109.6	14.3

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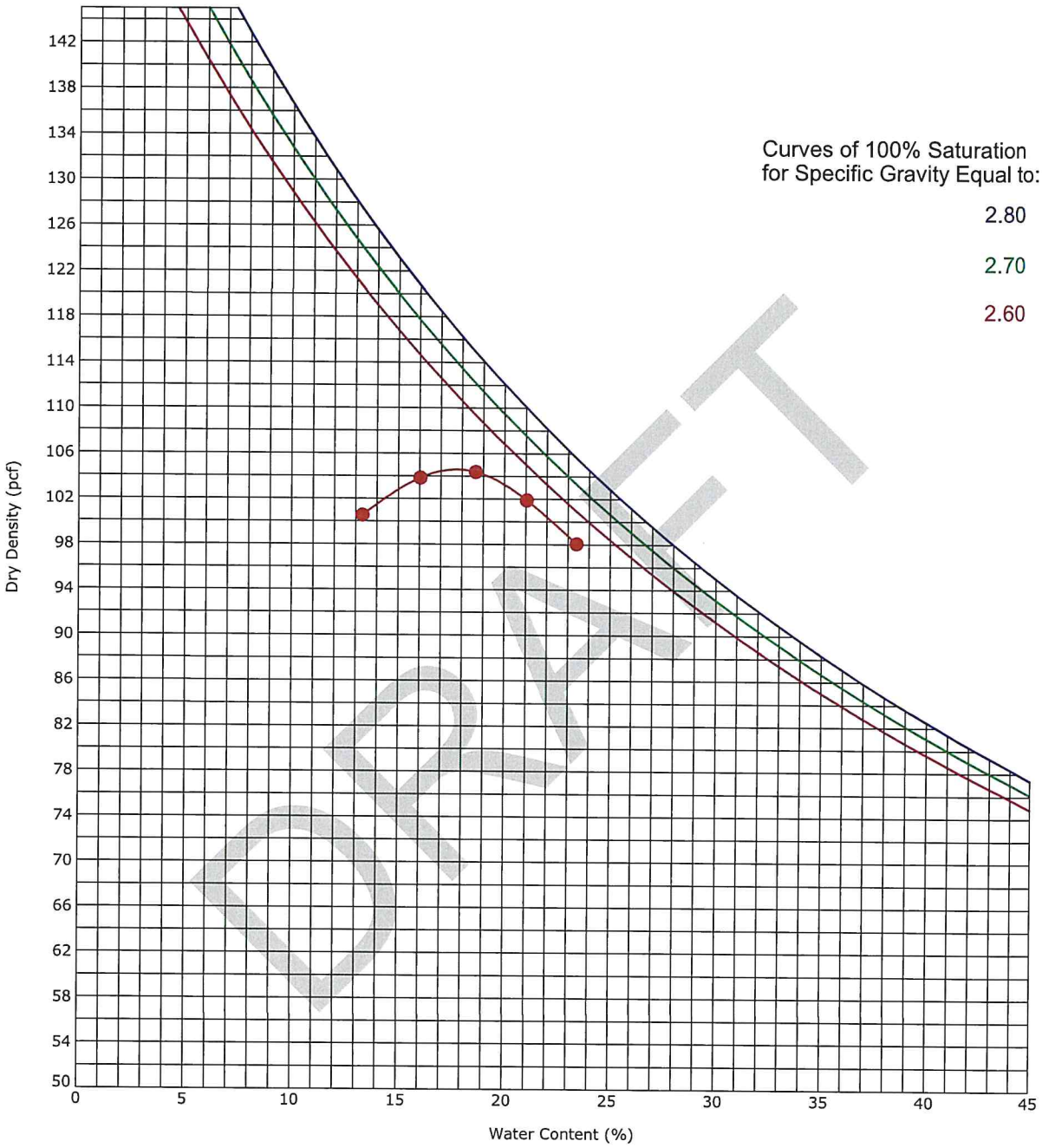
Moisture-Density Relationship

ASTM D698-Method A



Boring ID	Depth (Ft)	Description of Materials
Bulk-5 at B-21	0 - 4	Brown Fat Clay (CH)

Fines (%)	Fraction > mm size	LL	PL	PI	Test Method	Maximum Dry Density (pcf)	Optimum Water Content (%)
96	0.0	61	20	41	ASTM D698-Method A	104.6	17.8

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Terracon Project No. 94245360

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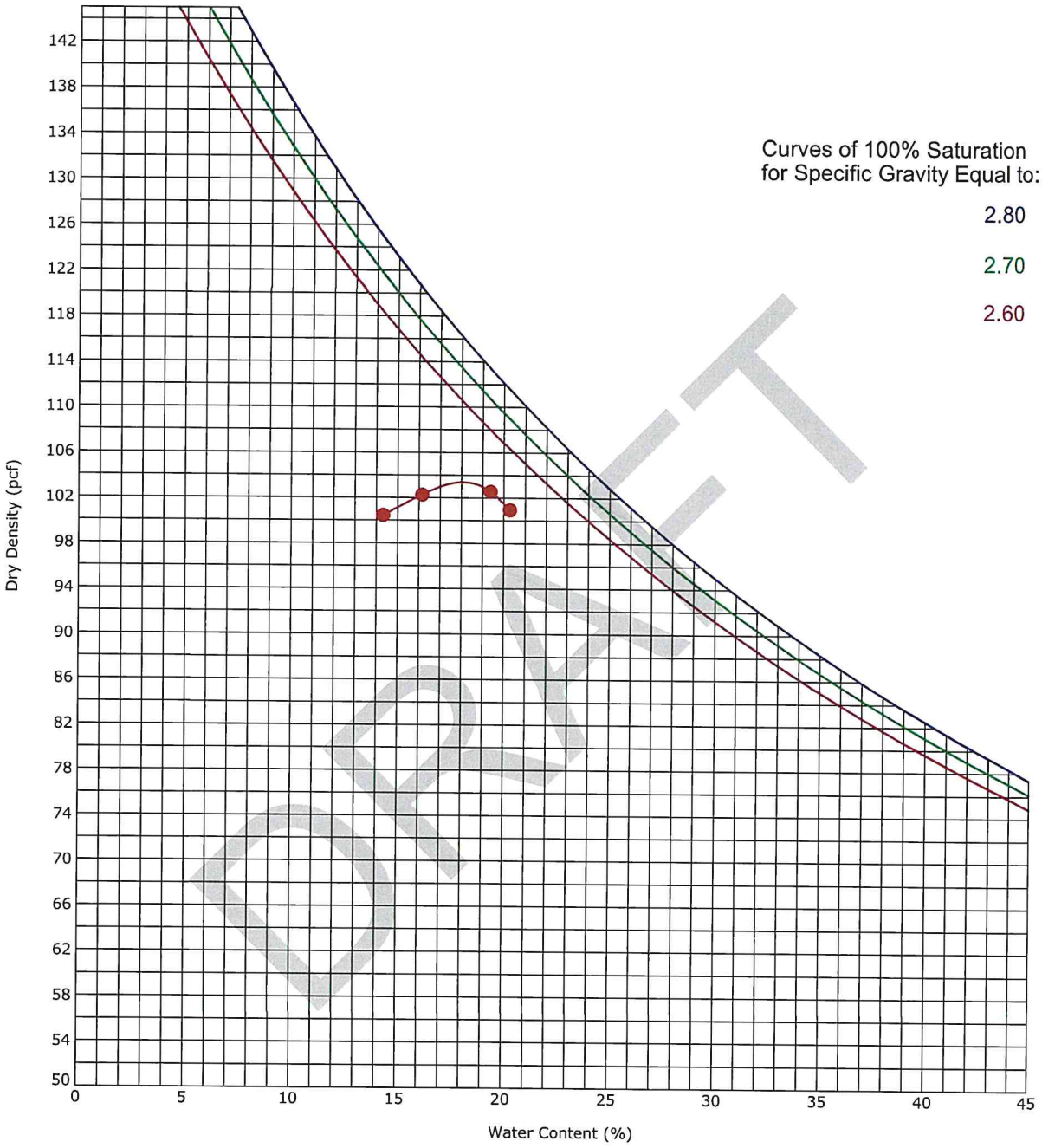
Dallas, TX

Moisture-Density Relationship

ASTM D698-Method A



Boring ID	Depth (Ft)	Description of Materials
Bulk-6 at B-26	0 - 4	LEAN CLAY(CL)

Fines (%)	Fraction > mm size	LL	PL	PI	Test Method	Maximum Dry Density (pcf)	Optimum Water Content (%)
90	0.0	49	15	34	ASTM D698-Method A	103.4	18.0

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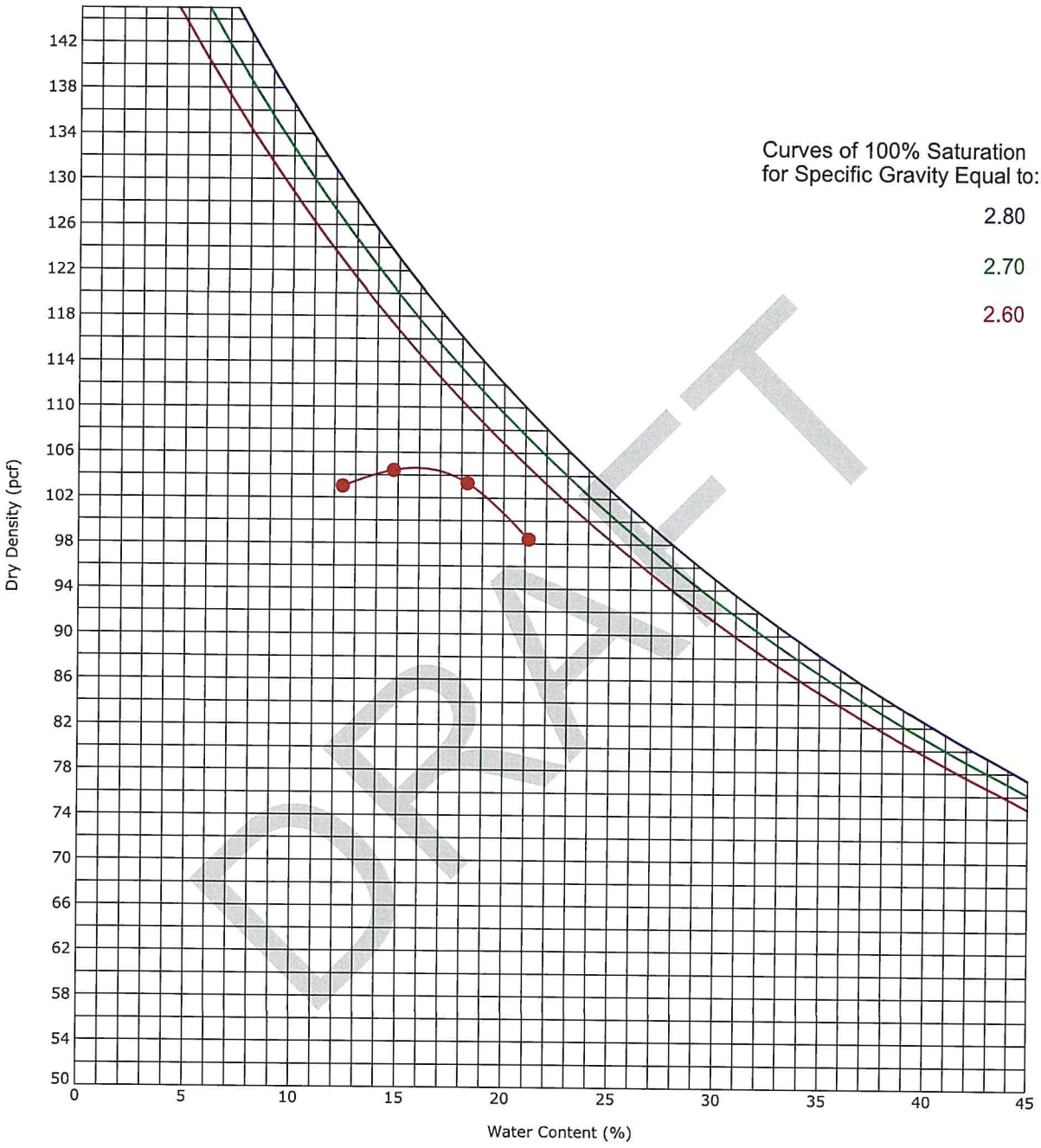
Dallas, TX

Moisture-Density Relationship

ASTM D698-Method A



Boring ID	Depth (Ft)	Description of Materials
Bulk-7 at B-31	0 - 4	LEAN CLAY(CL)

Fines (%)	Fraction > mm size	LL	PL	PI	Test Method	Maximum Dry Density (pcf)	Optimum Water Content (%)
91	0.0	42	16	26	ASTM D698-Method A	104.6	15.9

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Terracon Project No. 94245360

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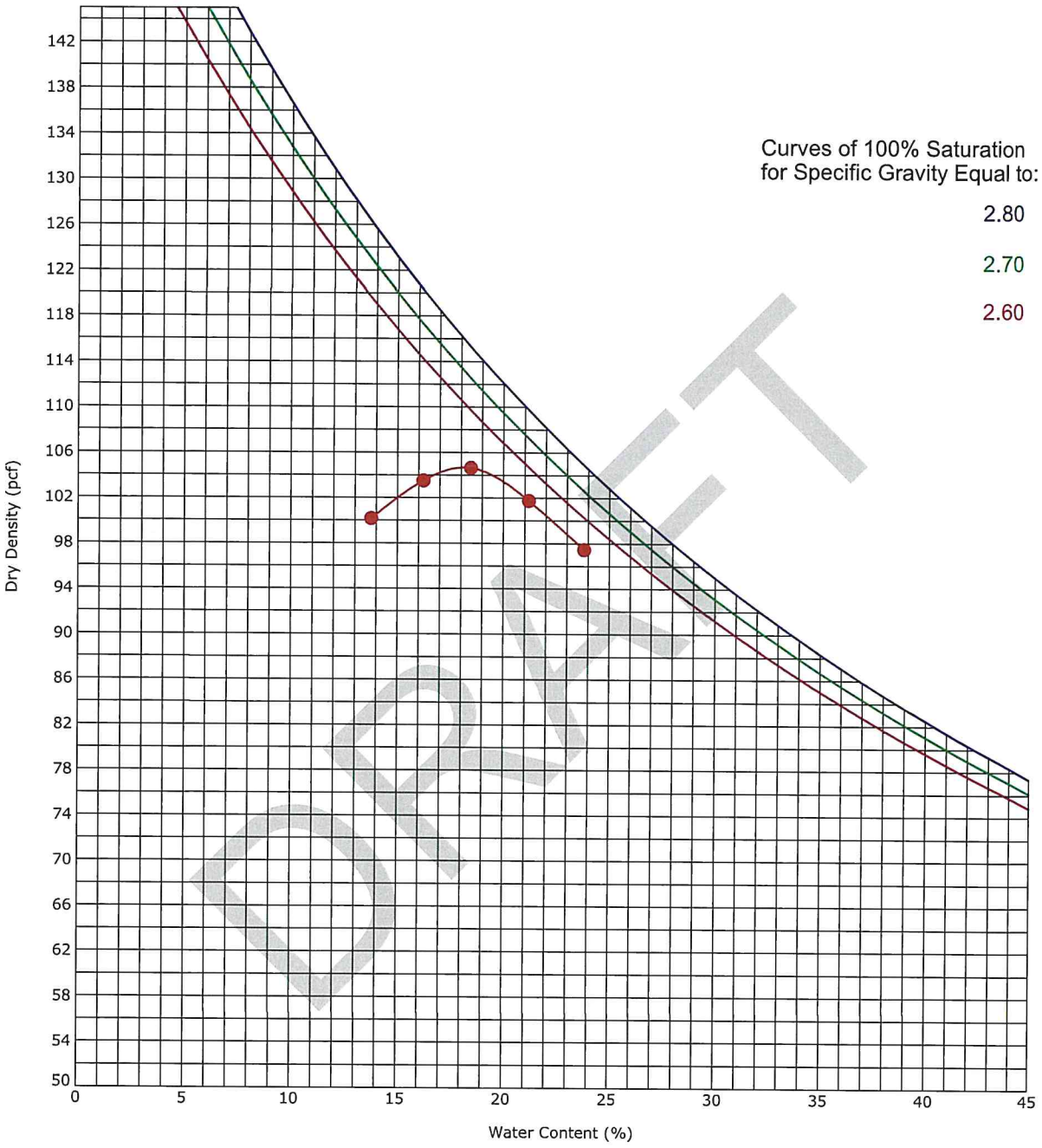
Dallas, TX

Moisture-Density Relationship

ASTM D698-Method A



Boring ID	Depth (Ft)	Description of Materials
Bulk-8 at B-34	0 - 4	Dark Brown Fat Clay (CH)

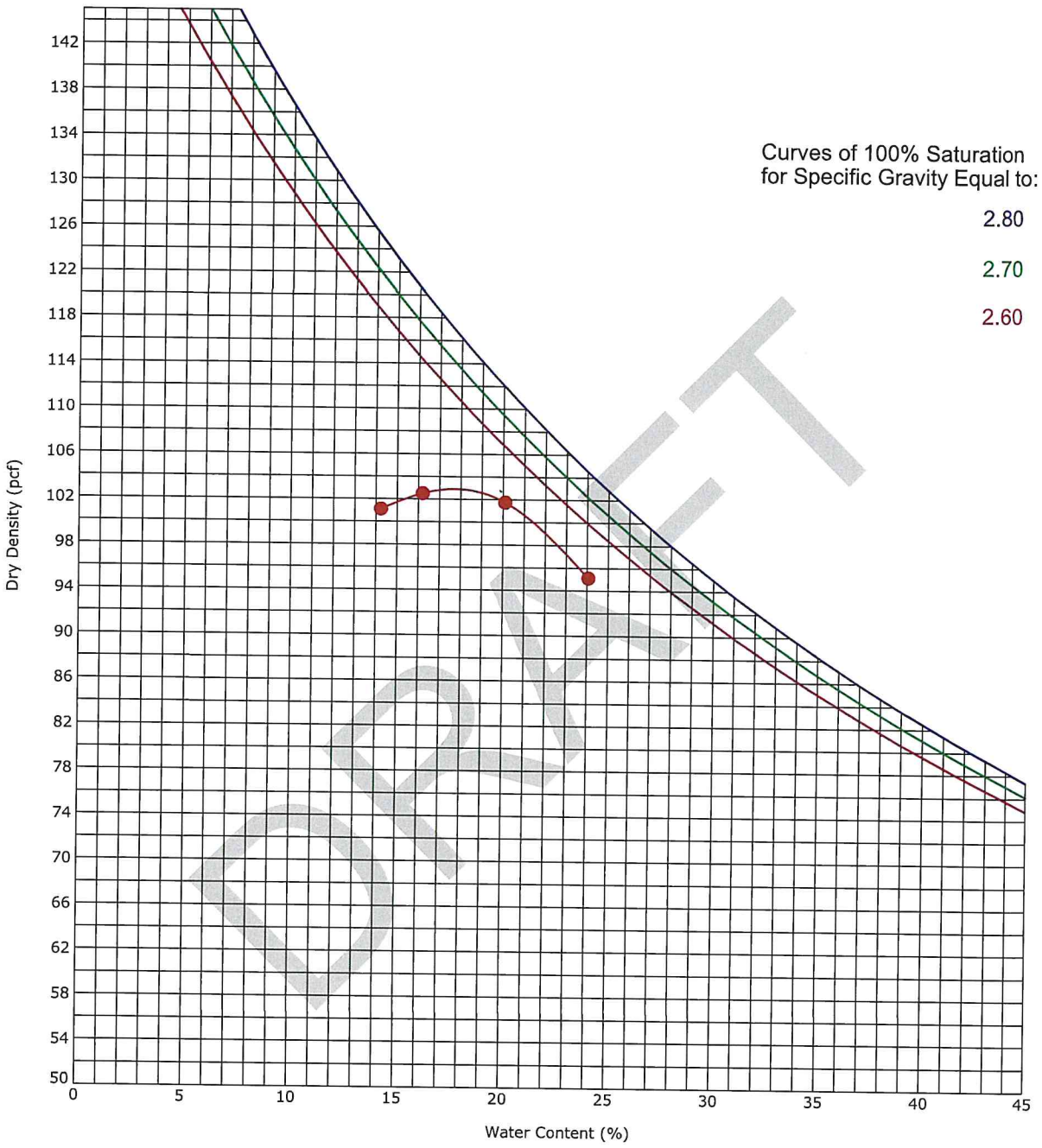
Fines (%)	Fraction > mm size	LL	PL	PI	Test Method	Maximum Dry Density (pcf)	Optimum Water Content (%)
88	0.0	58	19	39	ASTM D698-Method A	104.7	18.1

Barrett Solar - Final Study
US Highway 69 | Point, TX
Terracon Project No. 94245360

Terracon
8901 John W Carpenter Fwy Ste 100
Dallas, TX

Moisture-Density Relationship

ASTM D698-Method A



Boring ID	Depth (Ft)	Description of Materials
Bulk-SB2	0 - 4	FAT CLAY(CH)

Fines (%)	Fraction > mm size	LL	PL	PI	Test Method	Maximum Dry Density (pcf)	Optimum Water Content (%)
93	0.0	50	16	34	ASTM D698-Method A	102.9	17.6