

33628

Ms. Juanitta B. Clem, P.E.
England Thims & Miller, Inc.
3131 St. Johns Bluff Rd. South
Jacksonville, Florida 32246

Subject: Response to Comments
Trail Ridge Landfill CQA Final Report
Jacksonville, Florida

Dear Ms. Clem:

This letter has been prepared in response to the comments made by England Thims & Miller, Inc. (ETM) on the Trail Ridge Landfill Construction Quality Assurance (CQA) Final Report. The comments were transmitted to GeoSyntec Consultants in the memorandum from Juanitta Bader Clem to Douglas C. Miller, both of ETM, dated 22 March 1993. This letter includes response to comments concerning Phase IIB of the Trail Ridge Landfill. The response corresponding to each comment is presented below with the comments presented in italics.

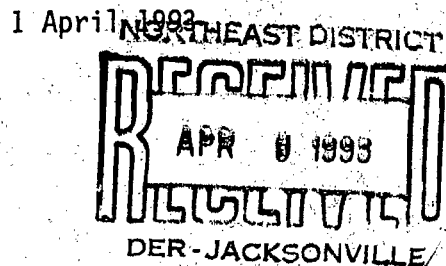
Comment No. 1a

Primary Liner: P232/P318 - Seaming log but no air pressure test log or extrusion weld log for the first 55'.

Response

The Seaming Log presented in Attachment 1 indicates that seam P232/P318 was seamed on 19 August 1992. The Air Pressure Test Log does not reflect the testing of the first 57 ft (17 m) of seam P232/P318. The Non-Destructive Testing Form prepared by National Seal Company (NSC), presented in Attachment 1, reports that seam FPS-254 passed the air pressure test on 19 August 1992. The seam FPS-254 corresponds to seam P232/P318 as shown on NSC's Panel Seaming Form presented in Attachment 1. GeoSyntec Consultants considers NSC's records of the air pressure testing of seam P232/P318 to be acceptable.

FQ2030/Q930156



Corporate Office:

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Huntington Beach, CA



RECYCLED AND RECYCLABLE



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Comment No. 1b

Primary Liner: P318/P319 - Seaming log but no air pressure test log or extrusion weld log for the 0' to 235'.

Response

The Seaming Log presented in Attachment 2 indicates that seam P318/P319 was seamed on 19 August 1992. The Air Pressure Test Log does not reflect the air pressure testing of seam P318/319. The Non-Destructive Testing Form prepared by NSC, included in Attachment 2, reports that the seam FPS-255 passed the air pressure test on 19 August 1992. The seam number FPS-255 corresponds to seam P318/P319 as shown on NSC's Panel Seaming Form form included in Attachment 2. GeoSyntec Consultants considers NSC's records of the air pressure testing of seam P318/P319 to be acceptable.

Comment No. 1c

*Primary Liner: P320/P321 - Seaming log for all six seams but
P321/P322 - no air pressure test logs or
P322/P323 - extrusion weld logs for the entire
P322/P324 - length of all the seams.
P323/P325
P324/P325*

Response

The Seaming Logs presented in Attachment 3 indicates that seams P320/P321, P321/P322, P322/P323, P322/P324, P323/P325, and P324/P325 were seamed on 19 August 1992 and 20 August 1992. The Air Pressure Test Logs do not reflect the air pressure testing of these seams. The Non-Destructive Testing Form prepared by NSC, included in Attachment 3, reports that seams FPS-257, FPS-258, FPS-259, and FPS-260 passed the air pressure test on 19 August 1992 and 20 August 1992. The seams FPS-257 corresponds to seam P320/P321, seam FPS-258 corresponds to seam P321/P322, seam FPS-259 corresponds to seams P322/P323 and P322/P324, and seam FPS-260 corresponds to seams P323/P325 and P324/P325 as shown on

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NSC's Panel Seaming Form included in Attachment 3. GeoSyntec Consultants considers NSC's records of the air pressure testing of seam P320/P321, P321/P322, P322/P323, P322/P324, P323/P325, and P324/P325 to be acceptable.

Comment No. 2a

Secondary Liner: Panel Nos. P442 and P443 were not shown on Drawing No. 5 and the drawing does not show R-1, R-2, R-3, R-4 and R-5. Therefore, I was not able to locate the following seams which were air pressure tested. (Note: All the seams were air tested on Nov. 10 or Nov. 11, 1992.)

SR-1/R-2

SR-2/R-3

SR-3/R-4

SR-4/R-5

SR-1 thru R-5

SR-5/S442

S393/S442

S442/S443

S443/S444

SR-5/S393

S444/S442

S435/S443

Response

GeoSyntec Consultants believes that ETM's comment applies to panel nos. S442 and S443 and not panel nos. P442 and P443. Revised Drawing Nos. 5 and 6 are included in Attachment 4. Panels nos. S442, S443, R-1, R-2, R-3, R-4, and R-5 are shown on the revised Drawing No. 5. All seams listed in Comment No. 2a are identifiable in the revised Drawing No. 5.

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Comment No. 2b

Secondary Liner: S247/S288 - Indicates a seam segment of 228' to S. end which is not consistent with the drawing.

Response

GeoSyntec Consultants believes that ETM's comment applies to seam S247/S248; because, panels S247 and S288 do not connect. However, the Air Pressure Test Log incorrectly reports that seam S247/S248 was air pressure tested from "228' to S. end." The note in the Air Pressure Test Log for seam S247/S248 must be corrected to "228' to N. end."

Closure

GeoSyntec Consultants believes that the information provided in this letter addresses the comments concerning Phase IIB, made by ETM on the Trail Ridge Landfill CQA Final Report. Should you have any questions or require any additional information, please do not hesitate to contact either of the undersigned.

Sincerely,

Daniel A. Schauer

Daniel A. Schauer, P.G.
Project Manager

Ali Khatami

Ali Khatami, Ph.D.
Project Engineer

Attachments

FQ2030/Q930156



ATTACHMENT 1



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

Sheet No. 5 of 8

Project: Trail Ridge Landfill

Phase: I + II 2-B

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
7-20	11:39	P 218-219	85°	2067	1504	750°	Full Seam	H.L.
7-20	11:08	P 218-220	85°	2067	1504	750°	Full Seam	H.L.
7-20	11:07	P 219-220	85°	T.P.	1412	750°	Full Seam	H.L.
7-20	11:47	P 219-221	85°	T.P.	1412	750°	Full Seam	H.L.
7-20	11:17	P 220-221	85°	T.P.	1412	750°	Full Seam	H.L.
7-20	13:25	P 221-222	89°	2036	1639	725°	Full Seam	H.L.
7-20	13:52	P 222-223	90°	2067	1504	750°	Full Seam	H.L.
7-20	13:48	P 222-224	90°	2067	1504	750°	Full Seam	H.L.
7-20	13:59	P 223-224	90°	2067	1504	750°	Full Seam	H.L.
7-20	13:50	P 223-225	90°	T.P.	1412	700°	Full Seam	H.L.
7-20	13:45	P 224-225	90°	T.P.	1412	700°	Full Seam	H.L.
7-20	14:33	P 225-226	90°	2036	1639	700°	Full Seam	H.L.
7-20	14:29	P 226-227	90°	T.P.	1412	700°	Full Seam	H.L.
7-20	15:02	P 227-228	90°	2067	1504	700°	Full Seam	H.L.
7-20	14:50	P 227-229	90°	2067	1504	700°	Full Seam	H.L.
7-20	15:07	P 228-229	90°	2067	1504	700°	Full Seam	H.L.
7-20	15:25	P 229-230	90°	T.P.	1412	725°	Full Seam	H.L.
7-20	15:10	P 229-230	90°	T.P.	1412	725°	Full Seam	H.L.
7-20	15:14	P 230-231	95°	2036	1639	700°	Full Seam	H.L.
7-20	15:57	P 231-232	95°	T.P.	1412	700°	Full Seam	H.L.
7-20	09:47	P 210-212	79°	2036	1639	725°	Full Seam	H.L.
7-21	A.M.	P 2-A 2-B Tie in Seam	P 207	East To	P 232	EST.	Full Seam	H.L.
8-19	1445	P-232 P-229/P-318	92°	2091	1516	725°	Full Seam	MG
8-19	1510	P-318/P-319	92°	2091	1516	725°	Full Seam	MG
8-19	1545	P-319/P-320	90°	2091	1516	725°	Full Seam	MG
8-19	1615	P-320/P-321	90°	2091	1516	725°	Full Seam	MG
8-20	0930	P-321/P-322	81°	2091	1516	725°	Full Seam	MG

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: TRAIL RIDGE PROJECT NUMBER: 2173 ILB MATERIAL DESCRIPTION: 60MIL P

DATE/ TIME	SEAM NO.	TESTER INITIAL	PRESSURE		AIR TESTING		TIME		COMPLETE Y/N	V BOX COMPLETE Y/N	LOCATION / COMMENTS
			START	END	+ / -	START	END				
7-21-92	BP 187	2053	30	30	0	8:12	8:17	Y			155 TO EOS
"	BP 188	"	30	30	0	8:10	8:15	Y			204' TO EOS
	"			VT							197 TO 204'S
7-21-92	"	2053	30	30	0	8:11	8:16	Y			153' TO 197'S
7-28-92	"	2060		VT						Y	143' TO 153'S
7-21-92	"	2053	30	30	0	8:29	8:34	Y			90' TO 143'S
"	"	"	30	29	1	8:40	8:45	Y			0 TO 90'S
7-6-92	BP-11 #A	2068		VT						Y	0 TO 165'
7-13-92	"	TL		VT						Y	165 TO 392
"	"	TL		VT						Y	392 TO 453
"	"	TL		VT						Y	453 TO 571
7-13-92	BTJ P-8	2021		VT						Y	0 TO 100
7-22-92	BTJ P-8	2060		VT						Y	154 TO 322
"	"	"		VT						Y	322 TO 571
8-19-92	FSP-254	2068	30	28	1	3:25	3:30	Y			0 TO 57'
8-21-92	"	2060		VT						Y	57' TO 155'
8-19-92	"	"	30	30	0	3:15	3:20	Y			155 TO EOS
"	FSP-255	"	30	30	0	3:35	3:40	Y			0 TO EOS
"	FSP-256	"	30	30	0	4:08	4:13	Y			0 TO EOS
"	FSP-257	"	30	30	0	4:25	4:40	Y			0 TO EOS
8-20-92	FSP-258	2053	30	30	0	11:20	11:25	Y			0 TO EOS
"	FSP-259	"	30	30	0	11:21	11:26	Y			0 TO 226
"	FSP-259	"	30	30	0	11:28	11:33	Y			226' TO EOS
8-21-92	FSP-254-1	2053		VT						Y	0 TO EOS, CROSS SEAM
"	FSP-260	"	30	29	1	11:22	11:27	Y			0 TO 226
"	"	"	30	30	0	11:29	11:34	Y			226 TO EOS

MAR 31 '93 14:56 No.009 P.02

ID:504-751-2789

NATIONAL SEAL

NSC

NATIONAL SEAL COMPANY

PANEL SEAMING FORM

PAGE 7 OF PROJECT NAME: TRail Ridge PROJECT NUMBER: 2173 TB MATERIAL DESCRIPTION: 60 mils

DATE/TIME	SEAM NUMBER	PANEL NUMBERS	SEAM LENGTH	SEAMER INITIALS	MACHINE NUMBER	TEMP SETTING	WEATHER	WINDS	AMBIENT TEMP	DES TEST P/F	COMMENTS
2:50 PM		P228				700					
2:20 PM	FSP185	P227/P229	296	2067	1504	700	Sunny	0-5	91°	P.	South to North
2:55 PM	FSP186	P228	14.5	T.O.	1412	700	"	"	"	"	cross section
3:10 PM	FSP186	P228/P230	297	T-P	1412	700-700	"	"	"	P.	"
3:12 PM	FSP187	P230/P231	299	2036	1639	700-750	"	"	"	P.	"
3:57 PM	FSP188	P231/P232	299	T-P	1412	700-700	"	"	"	P.	"
8:38 AM	FSP168	P170-P207	134'	2666 2019	G19	255 275	"	"	8.7	V BOX	EXTENSION (1051) 2 TO 134
4:30 PM	"	"	154	2067	G15	275	"	"	9.2	V BOX	134 TO 207
9:36 AM	TIE IN	P190-70		2067	G15	255	"	"		V BOX	
2:21 PM	UA-DB	P226	238		G15	275	cloudy	0-5	8.2	V BOX	134 TO 207
01:52 PM	"	P232	65	2067	G18	255	"	"	7.7	V BOX	222 TO 897
2:45 PM						705					
8:19 PM	FSP251	P231/P238	300	2091	1516	700	Sunny	10-20	90°	P.	(SHOW)
3:10 PM	FSP255	P238/P39	297	2091	1516	700	"	"	"	"	"
3:15 PM	FSP256	P235/P220	298	"	"	"	cloudy	15-25	"	"	"
4:15 PM	FSP257	P320/P321	298	"	"	"	"	"	"	"	"
4:50 PM	FSP258	P321/P322	301	2091	1516	725 6.25	"	"	"	"	"
7:20 PM	FSP259	P322/P324	301	"	"	"	"	"	"	"	"
10:00 PM											
10:15 PM	FSP259	P323	14.5	"	"	"	"	"	"	"	"

ATTACHMENT 2



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

Primary

Sheet No. 5 of 8

Project: Trail Ridge Landfill

Phase: I + II 2-B

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
7-20	11:39	P 218-219	85°	2067	1504	750°	Full Seam	H.L.
7-20	11:08	P 218-220	85°	2067	1504	750°	Full Seam	H.L.
7-20	11:07	P 219-220	85°	T.P.	1412	750°	Full Seam	H.L.
7-20	11:47	P 219-221	85°	T.P.	1412	750°	Full Seam	H.L.
7-20	11:17	P 220-221	85°	T.P.	1412	750°	Full Seam	H.L.
7-20	13:25	P 221-222	89°	2036	1639	725°	Full Seam	H.L.
7-20	13:52	P 222-223	90°	2067	1504	750°	Full Seam	H.L.
7-20	13:48	P 222-224	90°	2067	1504	750°	Full Seam	H.L.
7-20	13:59	P 223-224	90°	2067	1504	750°	Full Seam	H.L.
7-20	13:50	P 223-225	90°	T.P.	1412	700°	Full Seam	H.L.
7-20	13:45	P 224-225	90°	T.P.	1412	700°	Full Seam	H.L.
7-20	14:33	P 225-226	90°	2036	1639	700°	Full Seam	H.L.
7-20	14:29	P 226-227	90°	T.P.	1412	700°	Full Seam	H.L.
7-20	15:02	P 227-228	90°	2067	1504	700°	Full Seam	H.L.
7-20	15:50	P 227-229	90°	2067	1504	700°	Full Seam	H.L.
7-20	15:07	P 228-229	90°	2067	1504	700°	Full Seam	H.L.
7-20	15:25	P 228-230	90°	T.P.	1412	725°	Full Seam	H.L.
7-20	15:10	P 229-230	90°	T.P.	1412	725°	Full Seam	H.L.
7-20	15:14	P 230-231	95°	2036	1639	700°	Full Seam	H.L.
7-20	15:57	P 231-232	95°	T.P.	1412	700°	Full Seam	H.L.
7-20	09:47	P 210-212	79°	2036	1639	725°	Full Seam	H.L.
7-21	A.M.	P 2-A 2-B Tie in Seam	P 207	East To	P 232	EXT.	Full Seam	H.L.
8-19	1445	P-232 P-229/P-318	92°	2091	1516	725°	Full SEAM	MG
8-19	1510	P-318/P-319	92°	2091	1516	725°	Full SEAM	MG
8-19	1545	P-319/P-320	90°	2091	1516	725°	Full SEAM	MG
8-19	1615	P-320/P-321	90°	2091	1516	725°	Full SEAM	MG
8-20	0930	P-321/P-322	81°	2091	1516	725°	Full SEAM	MG

14:32 No.015 P.04

MAR 22 '93

ID:504-751-2789



NATIONAL SEAL COMPANY

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NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: TRAIL RIDGE PROJECT NUMBER: 2173 ILB MATERIAL DESCRIPTION: 60MIL P

DATE/TIME	SEAM NO.	TESTER INITIAL	PRESSURE		AIR TESTING				COMPLETE Y/N	V BOX COMPLETE Y/N	LOCATION / COMMENTS
			START	END	+/-	START	END	TIME			
7-21-92	BP 187	2053	30	30	0	8:12	8:17		Y		155 TO EOS
"	BP 188	"	30	30	0	8:10	8:15		Y		204' TO EOS
	"			VT							193 TO 204'S
7-21-92	"	2053	30	30	0	8:11	8:16		Y		153' TO 193'S
7-22-92	"	2060		VT						Y	143' TO 153'S
7-21-92	"	2053	30	30	0	8:29	8:34		Y		90' TO 143'S
"	"	"	30	29	1	8:40	8:45		Y		0 TO 90'S
7-6-92	BP-11 #B	2065		VT						Y	0 TO 165'
7-13-92	"	TL		VT						Y	165 TO 392'
"	"	TL		VT						Y	392 TO 453'
"	"	TL		VT						Y	453 TO 551'
7-13-92	BTIP-8	20213		VT						Y	0 TO EOS
7-22-92	BTIP-8	2060		VT						Y	154 TO 322'
"	"	"		VT						Y	322 TO 553'
8-19-92	FSP-254	2068	30	28	1	3:25	3:30		Y		0 TO 57'
8-21-92	"	2060		VT						Y	57' TO 155'
8-19-92	"	"	30	30	0	3:15	3:20		Y		155 TO EOS
"	FSP-255	"	30	30	0	3:35	3:40		Y		0 TO EOS
"	FSP-256	"	30	30	0	4:08	4:13		Y		0 TO EOS
"	FSP-257	"	30	30	0	4:25	4:40		Y		0 TO EOS
8-20-92	FSP-258	2053	30	30	0	11:20	11:25		Y		0 TO EOS
"	FSP-259	"	30	30	0	11:21	11:26		Y		0 TO 226'
"	FSP-259	"	30	30	0	11:28	11:33		Y		226' TO EOS
8-21-92	FSP-254-1	2053		VT						Y	0 TO EOS, CROSS SEAM
"	FSP-260	"	30	29	1	11:22	11:27		Y		0 TO 226'
"	"	"	30	30	0	11:29	11:34		Y		226 TO EOS

NSC

NATIONAL SEAL COMPANY

PANEL SEAMING FORM

PAGE 7 OF

PROJECT NAME: Trail Ridge

PROJECT NUMBER: 2173 TB

MATERIAL DESCRIPTION: 60 mils /

[illegible]

ATTACHMENT 3



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

Sheet No. 5 of 8

Project: Trail Ridge Landfill

Phase: I + II 2-B

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	O.A. I.D.
7-20	11:39	P 218-219	85°	2067	1504	750°	Full Seam	H.L.
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7-20	11:47	P 219-221	85°	T.P.	1412	750°	Full Seam	H.L.
7-20	11:17	P 220-221	85°	T.P.	1412	750°	Full Seam	H.L.
7-20	13:25	P 221-222	89°	2036	1639	725°	Full Seam	H.L.
7-20	13:52	P 222-223	90°	2067	1504	750°	Full Seam	H.L.
7-20	13:48	P 222-224	90°	2067	1504	750°	Full Seam	H.L.
7-20	13:59	P 223-224	90°	2067	1504	750°	Full Seam	H.L.
7-20	13:50	P 223-225	90°	T.P.	1412	700°	Full Seam	H.L.
7-20	13:45	P 224-225	90°	T.P.	1412	700°	Full Seam	H.L.
7-20	14:33	P 225-226	90°	2036	1639	700°	Full Seam	H.L.
7-20	14:29	P 226-227	90°	T.P.	1412	700°	Full Seam	H.L.
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7-20	15:10	P 229-230	90°	T.P.	1412	725°	Full Seam	H.L.
7-20	15:14	P 230-231	95°	2036	1639	700°	Full Seam	H.L.
7-20	15:57	P 231-232	95°	T.P.	1412	700°	Full Seam	H.L.
7-20	09:47	P 210-212	79°	2036	1639	725°	Full Seam	H.L.
7-21	A.M.	P-2-A 2-B Tie in Seam	P 207	East To	P. 232	E.T.	Full Seam	H.L.
8-19	1445	P-232 P-229/P-318	92°	2091	1516	725°	Full Seam	MG
8-19	1510	P-318/P-319	92°	2091	1516	725°	Full Seam	MG
8-19	1545	P-319/P-320	90°	2091	1516	725°	Full Seam	MG
8-19	1615	P-320/P-321	90°	2091	1516	725°	Full Seam	MG
8-20	0930	P-321/P-322	81°	2091	1516	725°	Full Seam	MG



Seaming Log

PRIMARY

Sheet No. 6 of 8

Project: *Trail Ridge Landfill*

Phase: I + II II-B

Project No.: FQ2030

Year: 1992

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

[illegible]

NSC NATIONAL SEAL COMPANY

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NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: TRAIL RIDGE PROJECT NUMBER: 2173 IB MATERIAL DESCRIPTION: 60MIL P

DATE/ TIME	SEAM NO.	TESTER INITIAL	PRESSURE		AIR TESTING		TIME		COMPLETE Y/N	V BOX COMPLETE Y/N	LOCATION / COMMENTS
			START	END	+ / -	START	END				
7-21-92	BP 187	2053	30	30	0	8:12	8:17	Y			155 TO EOS
"	BP 188	"	30	30	0	8:10	8:15	Y			204' TO EOS
	"			VT							193 TO 204'S
7-21-92	"	2053	30	30	0	8:11	8:16	Y			153' TO 193'S
7-22-92	"	2060		VT						Y	143' TO 153'S
7-21-92	"	2053	30	30	0	8:29	8:34	Y			90' TO 143'S
"	"	"	30	29	1	8:40	8:45	Y			0 TO 90'S
7-6-92	BS-11 #3	2055		VT						Y	0 TO 165'
7-13-92	"	TL		VT						Y	165 TO 392
"	"	TL		VT						Y	392 TO 442
"	"	TL		VT						Y	442 TO 551
7-13-92	BTIP-8	2021		VT						Y	0 TO 600
7-22-92	BTIP-10	2060		VT						Y	154 TO 222
"	"	"		VT						Y	222 TO 337
8-19-92	FSP-254	2068	30	28	1	3:25	3:30	Y			0 TO 57'
8-21-92	"	2060		VT						Y	57' TO 155'
8-19-92	"	"	30	30	0	3:15	3:20	Y			155 TO EOS
"	FSP-255	"	30	30	0	3:35	3:40	Y			0 TO EOS
"	FSP-256	"	30	30	0	4:08	4:13	Y			0 TO EOS
"	FSP-257	"	30	30	0	4:35	4:40	Y			0 TO EOS
8-20-92	FSP-258	2053	30	30	0	11:20	11:25	Y			0 TO EOS
"	FSP-259	"	30	30	0	11:21	11:26	Y			0 TO 226
"	FSP-259	"	30	30	0	11:28	11:33	Y			226' TO EOS
8-21-92	FSP-254-1	2053		VT						Y	0 TO EOS CROSS SEAM
"	FSP-260	"	30	29	1	11:22	11:27	Y			0 TO 226
"	"	"	30	30	0	11:29	11:34	Y			226 TO EOS

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NATIONAL SEAL COMPANY

PANEL SEAMING FORM

PAGE 7 OF PROJECT NAME: Trail Ridge PROJECT NUMBER: 2173 TB MATERIAL DESCRIPTION: 60 mils

DATE/TIME	SEAM NUMBER	PANEL NUMBERS	SEAM LENGTH	SEAMER INITIALS	MACHINE NUMBER	TEMP SETTING	WEATHER	WINDS	AMBIENT TEMP	DES TEST P/F	COMMENTS
2:50 PM		P228				700					
7:20-92	FSP185	P228/P229	296	2067	1504	700	Sunny	0-5	91°	P.	South to north
2:55 PM		P228				700					
3:10 PM	FSP185	P229	14.5	T-O	1417	700	"	"	"	"	Crossed line
3:12 PM	FSP186	P229/P230	297	T-P	1412	700	"	"	"	P.	"
3:57 PM	FSP187	P230/P231	299	2036	1639	700	"	"	"	P.	"
8:38 AM		P231/P232	299	T-P	1412	700	"	"	"	P.	"
7:21-92	FSP168	P170-P207	134'	2066	G09	255	"	"	8.7	V BOX	EXTENSION (S) 134
4:30 PM		"				255	"	"		V BOX	"
7:20-92	"	"	154	2067	G015	255	"	"	9.2	V BOX	134 to 282
9:36 AM	TIE IN	P170-70		2057	G015	255	"	"		V BOX	"
7:21-92	IA-BB	P226	238		G015	255	Sunny	0-5	8.2	V BOX	134 to 322
01:52 AM		P232	65	2067	G018	255	"	"	7.7	V BOX	322 to 897
2:45						705					
8:19-92	FSP251	P231/P238	300	2091	1566	700	Sunny	10-20	90°	P.	(SHOWN)
3:10		P238/P317	297	2091	1516	700	"	"	"	"	"
3:15	FSP256	P2315/P220	298	"	"	"	cloudy	15-25	"	"	"
4:15	FSP257	P232/P232	298	"	"	"	"	"	"	"	"
4:50						725					
7:20-92	FSP258	P232/P232	301	2091	1566	625	"	"	"	"	"
10:00		P232									
10:15	FSP259	P232/P234	301	"	"	"	"	"	"	"	"
10:15	FSP259	P233	14.5	"	"	"	"	"	"	"	"

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NATIONAL SEAL COMPANY

PANEL SEAMING FORM

PAGE 8 OF

PROJECT NAME: Trail Ride

PROJECT NUMBER: 2173 11 B

MATERIAL DESCRIPTION: 60 mi/s. 1

[illegible]

ATTACHMENT 4

OVERSIZED
DOCUMENT WAS
REMOVED AND
INSERTED INTO
OCULUS
SEPARATELY.