

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



DOCUMENT  
#2148884

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED  
10/16/2012

1. OGCC Operator Number: 96850	4. Contact Name Karolina Blaney	Complete the Attachment Checklist  OP OGCC
2. Name of Operator: WPX Energy Rocky Mountain LLC	Phone: 970 683 2295	
3. Address: 1058 County Road 215 City: Parachute State: CO Zip: 81635	Fax: 970 285 9573	
5. API Number 05- NA	OGCC Facility ID Number 422267	Survey Plat
6. Well/Facility Name:	7. Well/Facility Number STARKEY GULCH	Directional Survey
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENW SEC. 32, T6S, R96W, 6TH PM		Surface Eqpm Diagram
9. County: Garfield	10. Field Name: Grand Valley	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNL/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement	PDOP Reading
	Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond
Formation	Signed surface use agreement attached
Formation Code	
Spacing order number	
Unit Acreage	
Unit configuration	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	NUMBER
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	From:
	To:
	Effective Date:
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for Inspection:	MIT required if shut in longer than two years. Date of last MIT
<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
*submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Report of Work Done	
Approximate Start Date:	Date Work Completed: 8/24/2011	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)		
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Liner upgrade	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Karolina Blaney Date: 10/16/2012 Email: Karolina.Blaney@WPXEnergy.com  
Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: Stanley C. Spencer Title: EPS Northwest Date: 4/17/14  
CONDITIONS OF APPROVAL, IF ANY:



TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 96850 API Number:

2. Name of Operator: WPX Energy Rocky Mountain LLC OGCC Facility ID # 422267

3. Well/Facility Name: Well/Facility Number: STARKEY GUL

4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENW SEC. 32, T6S, R96W, 6TH PM

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5.

DESCRIBE PROPOSED OR COMPLETED OPERATIONS

The purpose of this Form 4 is to report modifications of liner specifications at the 33-1-795 multi-well pit. The liner system has been upgraded from the Form 15 permitted 45 mil polyethylene liner to the following specifications:

- 60 mil HDPE liner
- 200 mil Hypernet Geonet Drain Mat
- 40 mil HDPE liner
- leak detection system

Attached is the Liner and Leak Detection System cross-section and Large Containment Systems Installation Report for the additional 60 and 40 mil HDPE liners.

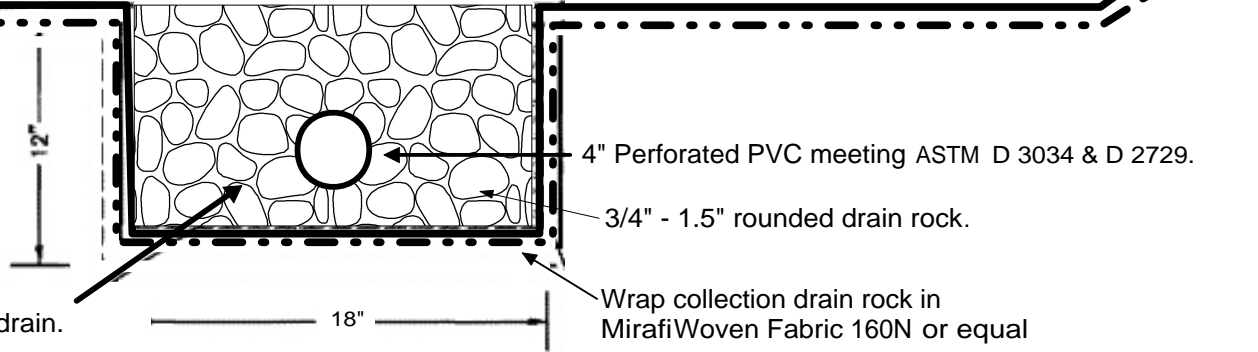
# Starkey Gulch Frac Pit Liner & Leak Detection System Details

## Sundry Notice:

### Upgraded Pit Liner System:

- \* 60 milHDPE Liner
- \* 200 milHypernetGeonetDrain Mat
- \* 40 milHDPE Liner
- \* Woven Geotextile Felt

Place pipe 2" above bottom of collection drain.  
Slope pipe toward deep end of pit.



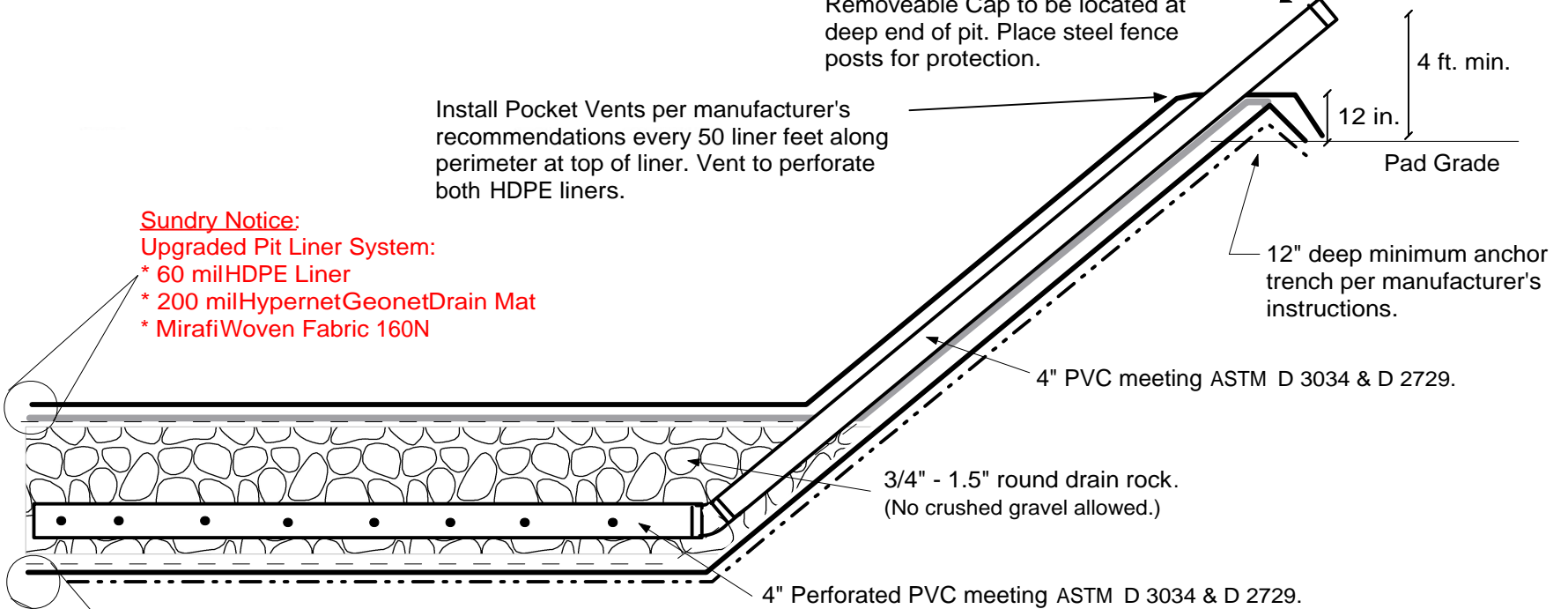
Monitoring Stand Pipe with 4" PVC  
Removeable Cap to be located at  
deep end of pit. Place steel fence  
posts for protection.

Install Pocket Vents per manufacturer's  
recommendations every 50 liner feet along  
perimeter at top of liner. Vent to perforate  
both HDPE liners.

## Sundry Notice:

### Upgraded Pit Liner System:

- \* 60 milHDPE Liner
- \* 200 milHypernetGeonetDrain Mat
- \* MirafiWoven Fabric 160N



## Sundry Notice:

### Upgraded Pit Liner System:

- \* MirafiWoven Fabric 160N
- \* 40 milHDPE Liner
- \* Woven Geotextile Felt

\* Install HPDE Liners;  
Geonet and Vent Pockets  
per manufacturer's instructions.

# STARKEY FRAC



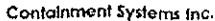
LANGE CONTAINMENT SYSTEMS, INC.

AUGUST 2012

# Trial Welds







[www.LangeContainment.com](http://www.LangeContainment.com)

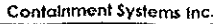
**Project Name:**

Starkey Trac

**QC Technician:**

Victor

Casillas



Fax: (303) 446-8798

[www.LangeContainment.com](http://www.LangeContainment.com)

**Project Name:**

Stocking Trace

**QC Technician:**

Victor Casillas

# Panel Logs







Containment Systems Inc.

Page 4 of 4Deployment Date 8-23-12Project Name: Starky Trac

Job #

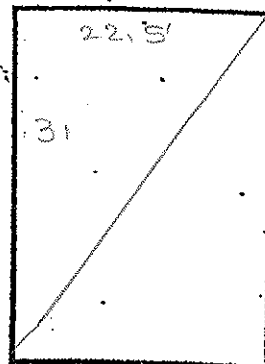
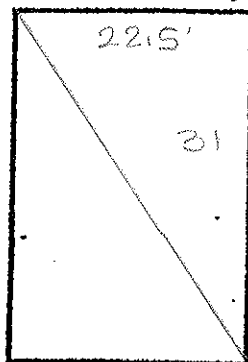
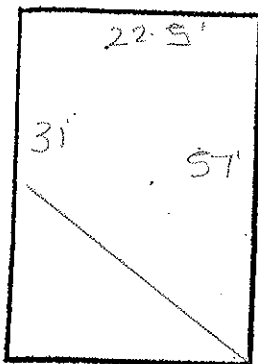
Supt: Victor CasillasMaterial ☒ Primary ☐ Secondary [ ]

Pond #

Cell #

Ped #

Other:

Panel # 1 Roll # 2324 Panel # 2 Roll # 2324 Panel # 3 Roll # 2324

Initial SF

Linear Feet Trench

Final SF

Initial SF

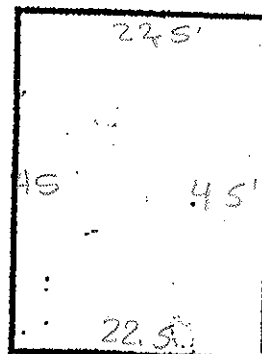
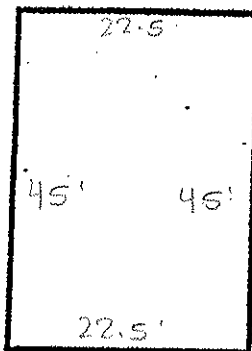
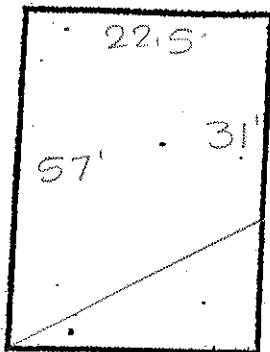
Linear Feet Trench

Final SF

Initial SF

Linear Feet Trench

Final SF

Panel # 4 Roll # 2324Panel # 5 Roll # 2324Panel # 6 Roll # 2324

Initial SF

Linear Feet Trench

Final SF

Initial SF

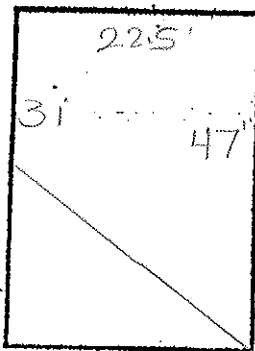
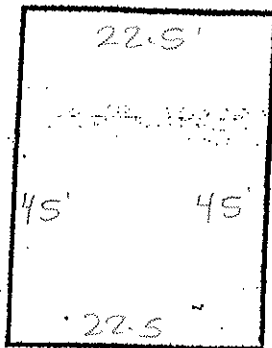
Linear Feet Trench

Final SF

Initial SF

Linear Feet Trench

Final SF

Panel # 7 Roll # 2324Panel # 8 Roll # 2324

Total Initial SF This Page

SF

Total Final SF This Page

SF

Anchor Trench

Total Linear feet trench

LF

Depth and width allowed in trench

LF

Total SF in Trench

SF

Total Pay Area This Page

SF

Total Previous Pages

SF

Total Pay Area to Date

SF

Initial SF

Linear Feet Trench

Final SF

Initial SF

Linear Feet Trench

Final SF



Containment Systems Inc.

Page 2 of 4Deployment Date 8-23-2012Project Name: Starkyr Trac

Job #

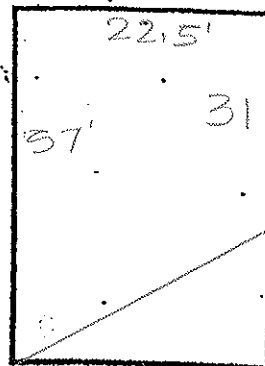
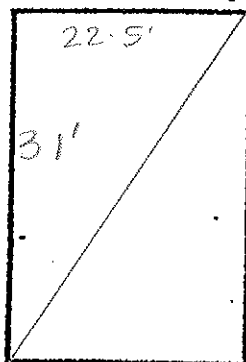
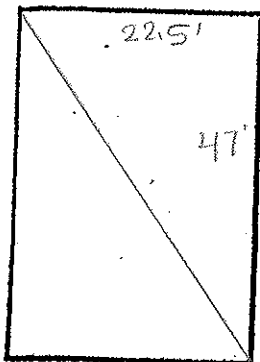
Supt: Victor CasillasMaterial: 60mil DLS SmoothPrimary ☒ Secondary ☐

Pond #

Cell #

Pad #

Other:

Panel # 9 Roll # 62324 Panel # 10 Roll # 5329 Panel # 11 Roll # 5329

Initial SF

Lineal Feet Trench

Initial SF

Lineal Feet Trench

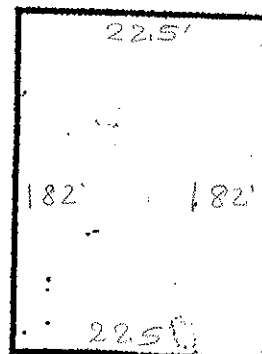
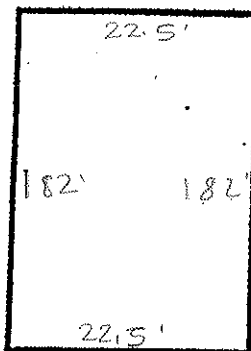
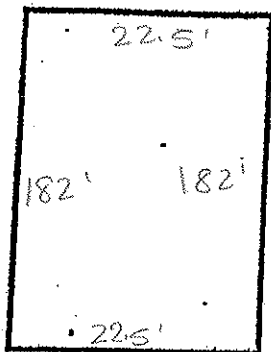
Initial SF

Lineal Feet Trench

Final SF

Final SF

Final SF

Panel # 12 Roll # 2324Panel # 13 Roll # 5329Panel # 14 Roll # 5329

Initial SF

Lineal Feet Trench

Initial SF

Lineal Feet Trench

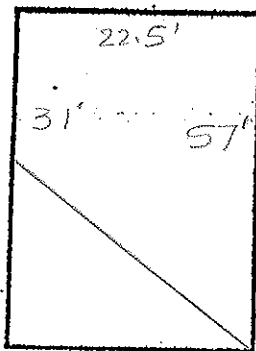
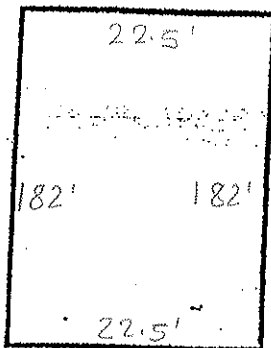
Initial SF

Lineal Feet Trench

Final SF

Final SF

Final SF

Panel # 15 Roll # 5331Panel # 16 Roll # 5329

Total Initial SF This Page

SF

Total Final SF This Page

SF

Anchor Trench

Total Linear feet trench

LF

Depth and width allowed in trench

LF

Total SF in Trench

SF

Total Pay Area This Page

SF

Total Previous Pages

SF

Total Pay Area to Date

SF

Initial SF

Lineal Feet Trench

Initial SF

Lineal Feet Trench

Final SF

Final SF



Containment Systems Inc.

Page 3 or 4Deployment Date 8-23-12Project Name: Starkip Trac

Job #

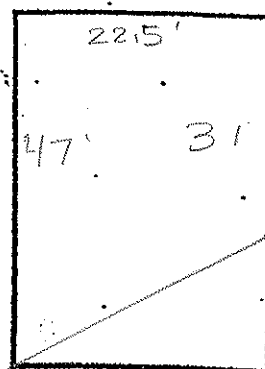
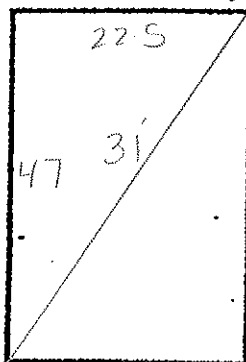
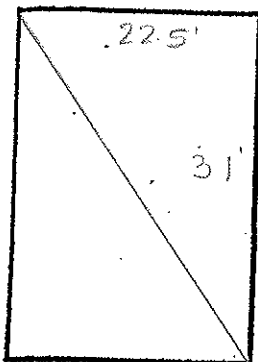
Supt: Victor CasillasMaterial: 50mil Dls SmoothPrimary ☒ Secondary ☐

Pond #

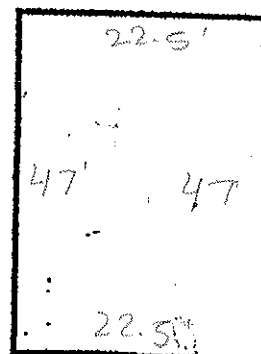
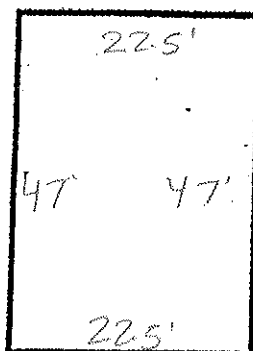
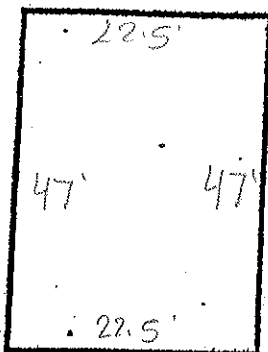
Cell #

Pad #

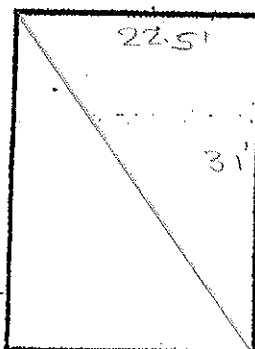
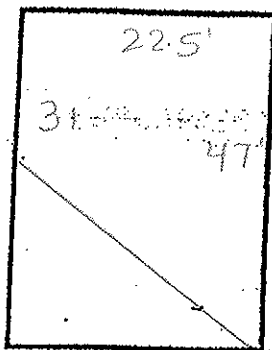
Other:

Panel # 17 Roll # 5329 Panel # 18 Roll # 5331 Panel # 19 Roll # 5331

Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench
Final SF		Final SF		Final SF	

Panel # 20 Roll # 5331 Panel # 21 Roll # 5331 Panel # 22 Roll # 5331

Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench
Final SF		Final SF		Final SF	

Panel # 23 Roll # 5331 Panel # 24 Roll # 5331

Total Initial SF This Page	SF
Total Final SF This Page	SF
Anchor Trench	
Total Linear feet trench	LF
Depth and width allowed in trench	LF
Total SF in Trench	SF

Total Pay Area This Page	SF
Total Previous Pages	SF

Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench	Total Pay Area to Date	SF
Final SF		Final SF			SF



Containment Systems Inc.

Page 4 of 4

Deployment Date 8-23-12

Project Name: Starky, Inc.

Job #

Supt: Victor Casillas

Material: 60mil D/S Smooth

Primary ☒ Secondary ☐

Pond #

Cell #

Pad #

Other:

Panel #

25

Roll #

1-5331

Panel #

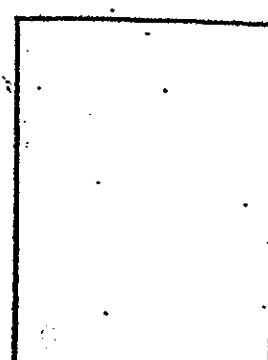
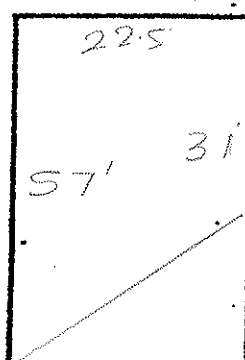
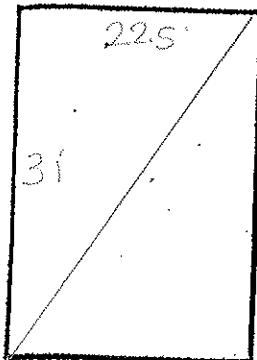
26

Roll #

5331

Panel #

Roll #



Initial SF

Linear Feet Trench

Initial SF

Linear Feet Trench

Initial SF

Linear Feet Trench

Final SF

Final SF

Final SF

Panel #

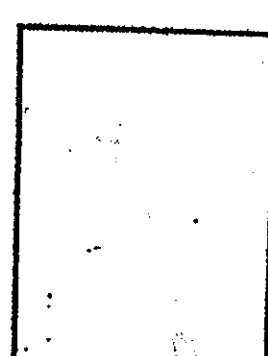
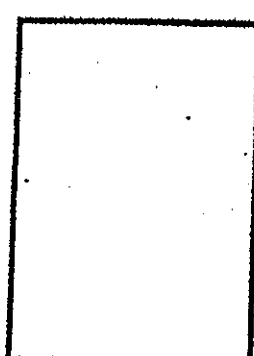
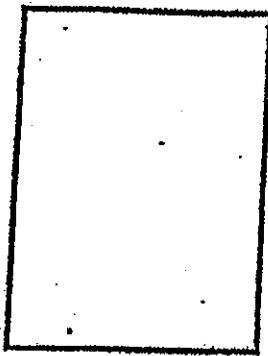
Roll #

Panel #

Roll #

Panel #

Roll #



Initial SF

Linear Feet Trench

Initial SF

Linear Feet Trench

Initial SF

Linear Feet Trench

Final SF

Final SF

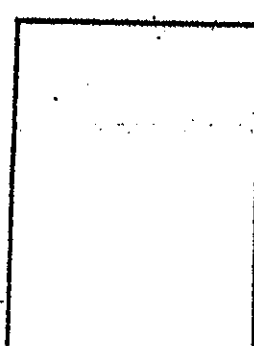
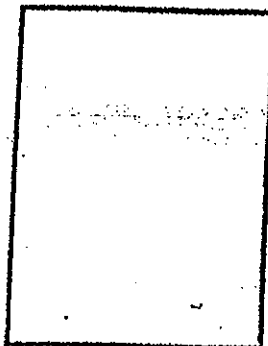
Final SF

Panel #

Roll #

Panel #

Roll #



Total Initial SF This Page

SF

Total Final SF This Page

SF

Anchor Trench

Total Linear feet trench

LF

Depth and width allowed in trench

LF

Total SF in Trench

SF

Total Pay Area This Page

SF

Total Previous Pages

SF

Total Pay Area to Date

SF

Initial SF

Linear Feet Trench

Initial SF

Linear Feet Trench

Final SF

Final SF

# Seaming & Air Pressure Test





Containment Systems Inc.

Project Name:  
Project Manager:  
Superintendent:  
Reported By:

Victor Casillas  
Victor Casillas

Primary Secondary Other:

Job#:

Material: 60ml DLS Smooth

Weld Date	Seam No.	Seam Length	Time	Operator Name / ID#	Mach No.	Mach Temp	Mach Speed	Amb Temp	Test Date	Test Type	Time IN	Time Out	Test Results	D. S. Number (NOTES)
8-23-12	1-2	31'	7:00 7:10 am pm	VC	127	850°	400		8-23-12	AT	2:30	2:35	(P) F	
8-23-12	3-4	31'	7:14 7:24 am pm	VC	127	850°	400		8-23-12	AT	2:31	2:36	(P) F	
8-23-12	4-5	45	7:10 7:25 am pm	JA	128	850°	400		8-23-12	AT	2:32	2:37	(P) F	
8-23-12	5-6	45	7:28 7:43 am pm	JA	128	850°	400		8-23-12	AT	2:33	2:38	(P) F	
8-23-12	6-7	45'	7:30 7:45 am pm	VC	127	850°	400		8-23-12	AT	2:34	2:39	(P) F	
8-23-12	7-8	45'	7:45 8:00 am pm	JA	128	850°	400		8-23-12	AT	2:35	2:40	(P) F	
8-23-12	8-9	31'	8:13 8:23 am pm	JA	128	850°	400		8-23-12	AT	2:40	2:45	(P) F	
8-23-12	10-11	31'	7:50 8:00 am pm	VC	127	850°	400		8-23-12	AT	2:41	2:46	(P) F	
8-23-12	11-12	57	8:30 8:50 am pm	JA	128	850°	400		8-23-12	AT	2:42	2:47	(P) F	DS-1
8-23-12	12-13	57	8:10 8:35 am pm	VC	127	850°	400		8-23-12	AT	2:43	2:48	(P) F	
8-23-12	13-14	182'	9:00 10:10 am pm	JA	128	850°	400		8-23-12	AT	2:48	2:53	(P) F	
8-23-12	14-15	182'	10:20 11:42 am pm	VC	127	850°	400		8-23-12	AT	2:49	2:54	(P) F	
8-23-12	15-16	57	10:40 10:58 am pm	JA	128	850°	400		8-23-12	AT	2:50	2:55	(P) F	DS-2
8-23-12	16-17	31'	11:30 11:13 am pm	VC	127	850°	400		8-23-12	AT	2:51	2:56	(P) F	
8-23-12	18-19	31	11:20 11:37 am pm	VC	127	850°	400		8-23-12	AT	2:52	2:57	(P) F	
8-23-12	19-20	47'	11:00 11:15 am pm	JA	127	850°	400		8-23-12	AT	3:10	3:15	(P) F	
8-23-12	20-21	47'	10:5 11:21 am pm	VC	128	850°	400		8-23-12	AT	3:11	3:16	(P) F	
8-23-12	21-22	47'	11:20 11:30 am pm	JA	127	850°	400		8-23-12	AT	3:12	3:17	(P) F	
8-23-12	22-23	47'	11:25 11:40 am pm	VC	128	850°	400		8-23-12	AT	3:18	3:23	(P) F	
8-23-12	23-24	31	11:47 2:00 am pm	JA	127	850°	400		8-23-12	AT	3:19	3:24	(P) F	DS-3
8-23-12	25-26	31	11:55 2:09 am pm	VC	128	850°	400		8-23-12	AT	3:24	3:29	(P) F	
Total =					127	850°	400		8-23-12	AT	3:25	3:25	(P) F	

Air Test

40

psi for

5

minutes-

5

psi loss allowed.

Tested By:

Victor Casillas



April 15 5300

Tasted By: *[Signature]*





Material: 6081-T6

[illegible]

# Repair Log





Containment Systems Inc.

Project Name: Starky Frac  
 Project Manager: \_\_\_\_\_  
 Supintendent: Victor Casillas

HDPE  
 HDT  
 PPR  
 40 Other: mil DLS Smooth  
 Date: 08-24-12  
 Job#: \_\_\_\_\_  
 Thickness: \_\_\_\_\_

Primary Secondary Other

VT=Vacum Test ST=Spark Test PT=Probe Test

Repair Number	Damage Code	Seam # or Panel #	Location	Date	Equip #	Operator	Repair Type	Approx. Size	Test Data		
									Test	Results	Date
1	DS-1	1-12	AT 50' W EOS	8-24-12	82	AS	P	2'X5'	VT ST PT	P F	8-24-12
2	T	1-23-14	X	8-24-12	82	AS	P	2'X3'	VT ST PT	P F	8-24-12
3	T	1-4-5-12	X	8-24-12	82	AS	P	3'X4'	VT ST PT	P F	8-24-12
4	T	5-6-12	X	8-24-12	82	AS	P	2'X2'	VT ST PT	P F	8-24-12
5	T	6-7-12	X	8-24-12	82	AS	P	2'X2'	VT ST PT	P F	8-24-12
6	T	7-8-11-12	X	8-24-12	82	AS	P	3'X4'	VT ST PT	P F	8-24-12
7	T	8-9-10-11	X	8-24-12	82	AS	P	2'X2'	VT ST PT	P F	8-24-12
8	DS-2	14-15	AT 45' EEB	8-24-12	82	AS	P	2'X5'	VT ST PT	P F	8-24-12
9	T	16-17-18-19	X	8-24-12	82	AS	P	3'X3'	VT ST PT	P F	8-24-12
10	T	15-16-19-20	X	8-24-12	82	AS	P	3'X3'	VT ST PT	P F	8-24-12
11	T	15-20-21	X	8-24-12	82	AS	P	2'X3'	VT ST PT	P F	8-24-12
12	T	15-21-22	X	8-24-12	82	AS	P	2'X3'	VT ST PT	P F	8-24-12
13	DS-3	22-23	AT 40' N EOS	8-24-12	82	AS	P	2'X5'	VT ST PT	P F	8-24-12
14	T	15-22-23-26	X	8-24-12	82	AS	P	3'X3'	VT ST PT	P F	8-24-12
15	T	23-24-25-26	X	8-24-12	82	AS	P	3'X3'	VT ST PT	P F	8-24-12
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	

Vacum Test: PSI for Seconds. Probe Test: PSI.

Damage Codes:

Bo - Burn Out  
 CR - Crease  
 DS - Destruct Sample  
 EE - Earthwork Equipment Damage  
 FM - Fish Mouth  
 ES - Exposed Scrim

SI - Subgrade Irregularity  
 RW - Roller Wrinkle in Seam  
 WR - Wrinkle  
 WS - Welder Restart  
 BL - Blister  
 T - Joint

Repair Types:

C - Cap Strip  
 P - Patch  
 B - Extrusion Bead

\* TOS - Top of Slope  
 \*\* BOS - Toe of Slope

# Destruct Summary





**Jobs:**

Primary

## Secondary

**Other:**

Material: 60 mil D's Smooth

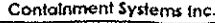
Victor Casillas  
Victor Casillas

## Destructive Test

[illegible]

# Trial Welds





[www.LangeContainment.com](http://www.LangeContainment.com)

**Project Name:**

Starky Trac

QC Technician: Victor Casillas





[www.LangeContainment.com](http://www.LangeContainment.com)

**Project Name:**

Starky, Franc

**QC Technician:**

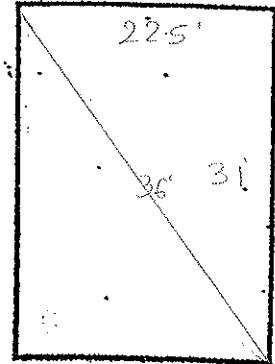
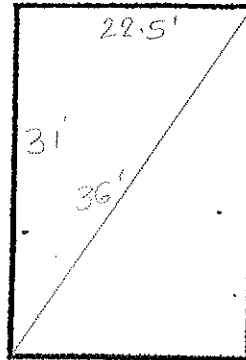
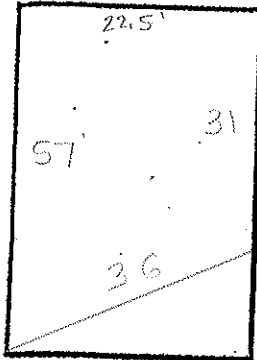
Victor Casillas

# Panel Logs

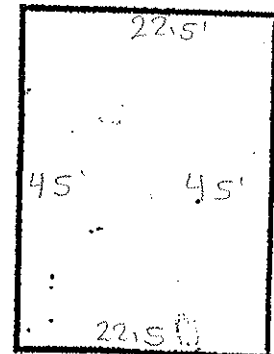
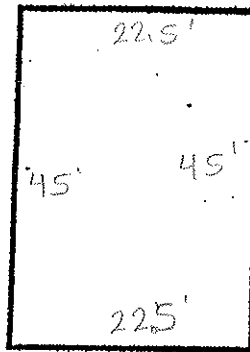
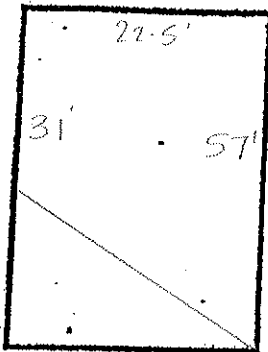




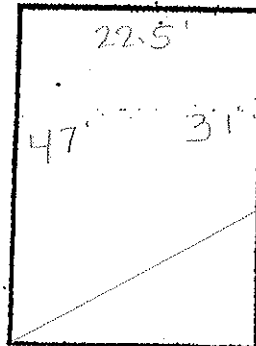
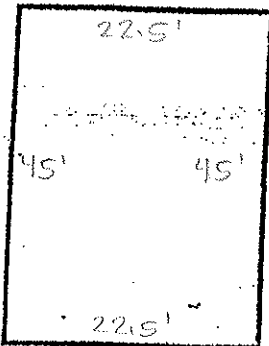
Containment Systems Inc.

Page 1 of 4Deployment Date 08-21-12Project Name: Stinky Trac Job # \_\_\_\_\_ Supt: Victor CasillasMaterial: 40mil Poly Smooth Primary ☒ Secondary ☐ Pond # \_\_\_\_\_ Cell # \_\_\_\_\_ Pad # \_\_\_\_\_ Other: \_\_\_\_\_Panel # 1 Roll # 8572 Panel # 2 Roll # 8572 Panel # 3 Roll # 8572

Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench
Final SF		Final SF		Final SF	

Panel # 4 Roll # 8572 Panel # 5 Roll # 8572 Panel # 6 Roll # 8572

Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench
Final SF		Final SF		Final SF	

Panel # 7 Roll # 8572 Panel # 8 Roll # 8572

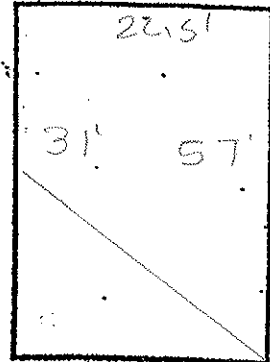
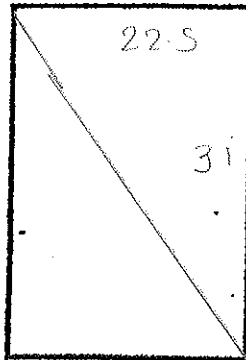
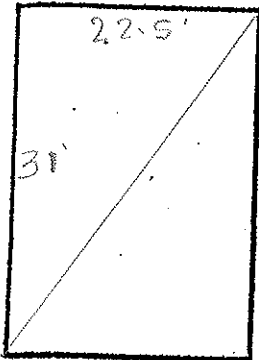
Total Initial SF This Page	SF
Total Final SF This Page	SF
Anchor Trench	
Total Linear feet trench	LF
Depth and width allowed in trench	LF
Total SF in Trench	SF

Total Pay Area This Page	SF
Total Previous Pages	SF

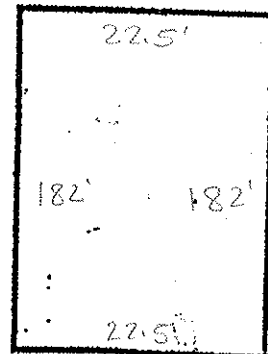
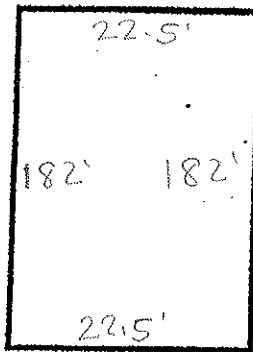
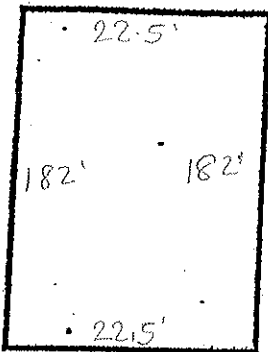
Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench	Total Pay Area to Date	SF
Final SF		Final SF			



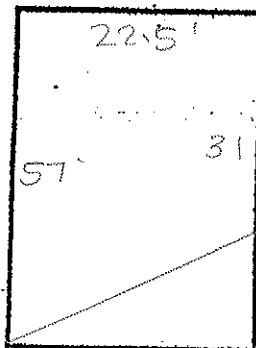
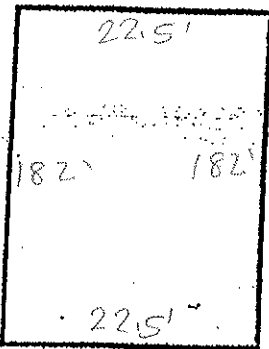
Containment Systems Inc.

Page 2 of 4Deployment Date 08-21-12Project Name: Starky Trac Job # \_\_\_\_\_ Supt: Victor CasillasMaterial: 40mil D155 smooth Primary ☐ Secondary ☒ Pond # \_\_\_\_\_ Cell # \_\_\_\_\_ Pad # \_\_\_\_\_ Other: \_\_\_\_\_Incl # 9 Roll # 18572 Panel # 10 Roll # 8572 Panel # 11 Roll # 8572

Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench
Final SF		Final SF		Final SF	

Panel # 12 Roll # 8572 Panel # 13 Roll # 8572 Panel # 14 Roll # 8571

Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench
Final SF		Final SF		Final SF	

Panel # 15 Roll # 8571 Panel # 16 Roll # 8571

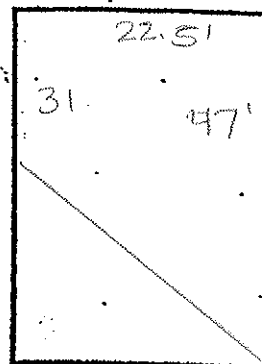
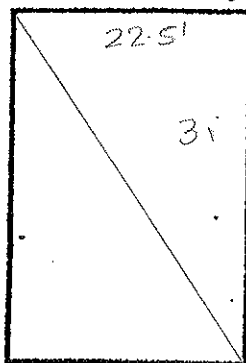
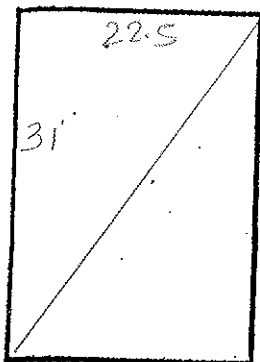
Total Initial SF This Page	SF
Total Final SF This Page	SF
Anchor Trench	
Total Linear feet trench	LF
Depth and width allowed in trench	LF
Total SF in Trench	SF

Total Pay Area This Page	SF
Total Previous Pages	SF

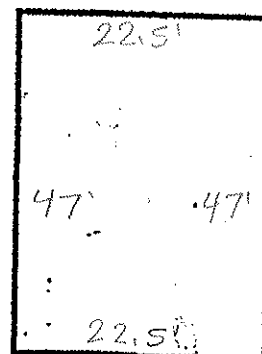
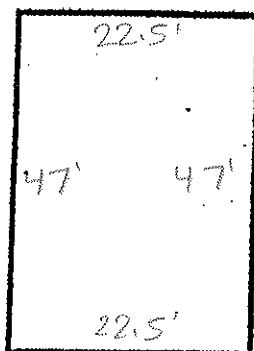
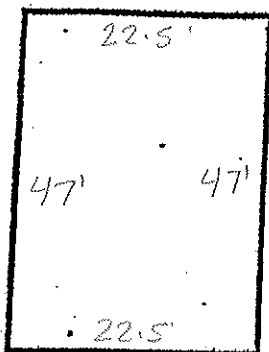
Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench	Total Pay Area to Date
Final SF		Final SF		SF

Deployment Date 8-21-12

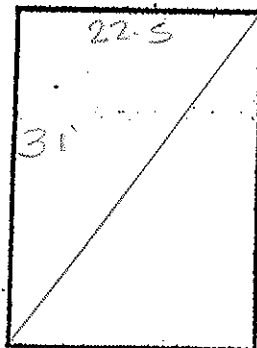
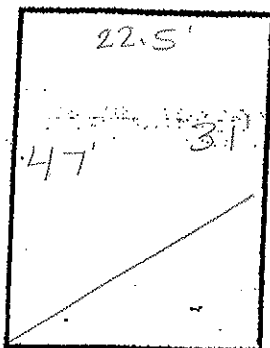
Containment Systems Inc.

Page 3 of 4Project Name: Starky Trac Job # \_\_\_\_\_ Supt: Victor CasillasMaterial: 40mil o/s Smooth Primary ☐ Secondary ☒ Pond # \_\_\_\_\_ Cell # \_\_\_\_\_ Pad # \_\_\_\_\_ Other: \_\_\_\_\_Panel # 17 Roll # 8571 Panel # 18 Roll # 8571 Panel # 19 Roll # 8571

Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench
Final SF		Final SF		Final SF	

Panel # 20 Roll # 8571 Panel # 21 Roll # 8571 Panel # 22 Roll # 8571

Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench
Final SF		Final SF		Final SF	

Panel # 23 Roll # 8571 Panel # 24 Roll # 8571

Total Initial SF This Page	SF
Total Final SF This Page	SF
Anchor Trench	
Total Linear feet trench	LF
Depth and width allowed in trench	LF
Total SF in Trench	SF

Total Pay Area This Page SF

Total Previous Pages SF

Total Pay Area to Date SF

Initial SF	Linear Feet Trench	Initial SF	Linear Feet Trench
Final SF		Final SF	



Containment Systems Inc.

Page 4 of 4

Deployment Date 8-21-12

Project Name: Starky Trac

Job #

Supt: Victor Casillas

Material: 40mil DLS Smooth Primary ☐ Secondary ☒

Pond #

Cell #

Pad #

Other:

Panel #

25

Roll #

108571

Panel #

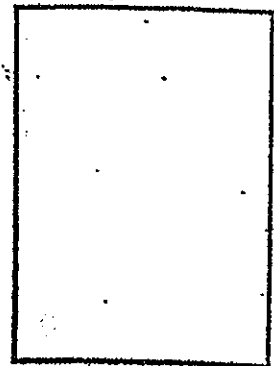
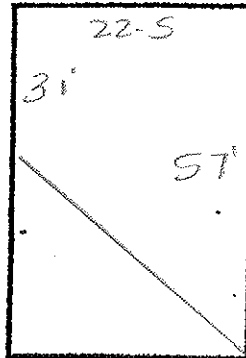
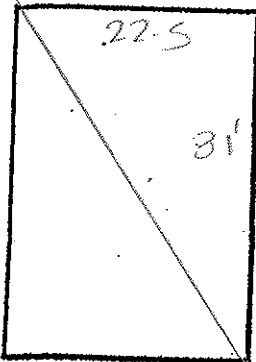
26

Roll #

8571

Panel #

Roll #



Initial SF

Linear Feet Trench

Initial SF

Linear Feet Trench

Initial SF

Linear Feet Trench

Final SF

Final SF

Final SF

Panel #

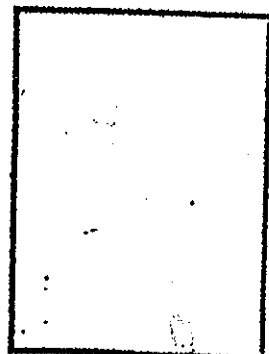
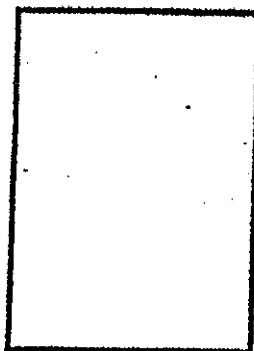
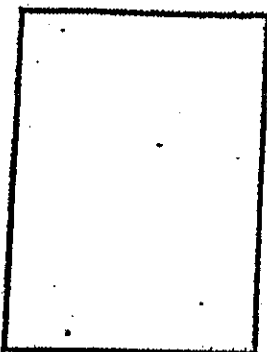
Roll #

Panel #

Roll #

Panel #

Roll #



Initial SF

Linear Feet Trench

Initial SF

Linear Feet Trench

Initial SF

Linear Feet Trench

Final SF

Final SF

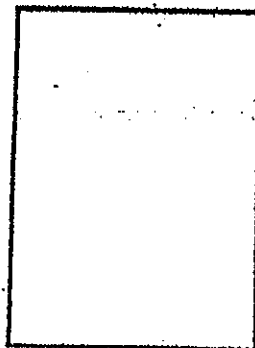
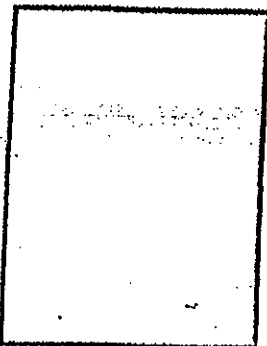
Final SF

Panel #

Roll #

Panel #

Roll #



Total Initial SF This Page

SF

Total Final SF This Page

SF

Anchor Trench

Total Linear feet trench

LF

Depth and width allowed in trench

LF

Total SF in Trench

SF

Total Pay Area This Page

SF

Total Previous Pages

SF

Total Pay Area to Date

SF

Initial SF

Linear Feet Trench

Initial SF

Linear Feet Trench

Final SF

Final SF

# Seaming & Air Pressure Test







Containment Systems Inc.

Project Name: Stanley 3000  
Project Manager: Victor Casillas  
Superintendent: Victor Casillas  
Reported By: Victor Casillas

Primary

Secondary

Other:

Job#:

Material: 40 mil. DLS Smooth

Weld Date	Seam No.	Seam Length	Time	Operator Name / ID#	Mach No.	Mach Temp	Mach Speed	Amb Temp	Test Date	Test Type	Time In	Time Out	Test Results	D. S. Number (NOTES)
8-21-12	1-2	31'	7:00 10:4	J.A	128	800°	700		8-21-12	AT	1:00	1:05	P F	
8-21-12	2-3	36'	7:19 7:24	J.A	128	800°	700		8-21-12	AT	1:01	1:06	P F	
8-21-12	3-4	31'	7:10 7:14	J.A	128	800°	700		8-21-12	AT	1:02	1:07	P F	
8-21-12	4-5	36'	7:25 7:30	J.A	128	800°	700		8-21-12	AT	1:03	1:08	P F	
8-21-12	5-6	45'	7:35 7:41	J.A	128	800°	700		8-21-12	AT	1:04	1:09	P F	
8-21-12	6-7	45'	7:43 7:49	J.A	128	800°	700		8-21-12	AT	1:10	1:15	P F	
8-21-12	7-8	45'	8:00 8:05	J.A	128	800°	700		8-21-12	AT	1:11	1:16	P F	
8-21-12	8-9	31'	8:10 8:15	J.A	128	800°	700		8-21-12	AT	1:12	1:17	P F	
8-21-12	10-11	31'	8:23 8:28	J.A	128	800°	700		8-21-12	AT	1:13	1:18	P F	
8-21-12	11-12	57'	8:40 8:46	J.A	127	800°	700		8-21-12	AT	1:16	1:21	P F	
8-21-12	12-13	182'	9:00 9:25	J.A	127	800°	700		8-21-12	AT	1:20	1:25	P F	
8-21-12	13-14	182'	9:05 9:30	J.A	127	800°	700		8-21-12	AT	1:33	1:30	P F	
8-21-12	14-15	192'	9:30 9:35	J.A	128	800°	700		8-21-12	AT	1:35	1:40	P F	
8-21-12	15-16	57'	9:35 9:40	J.A	127	800°	700		8-21-12	AT	1:37	1:42	P F	DS-2
8-21-12	16-17	31'	9:45 9:50	J.A	128	800°	700		8-21-12	AT	1:39	1:44	P F	
8-21-12	18-19	31'	10:00 10:05	J.A	128	800°	700		8-21-12	AT	1:44	1:49	P F	
8-21-12	19-20	47'	10:10 10:15	J.A	128	800°	700		8-21-12	AT	1:45	1:50	P F	
8-21-12	20-21	47'	10:20 10:25	J.A	127	800°	700		8-21-12	AT	1:49	1:54	P F	
8-21-12	21-22	47'	10:25 10:30	J.A	128	800°	700		8-21-12	AT	1:55	2:00	P F	
8-21-12	22-23	47'	10:30 10:35	J.A	127	800°	700		8-21-12	AT	2:03	2:08	P F	
Total =									8-21-12	AT	2:05	2:10	P F	DS-3

Air Test:

30

psi for

5

minutes-

5

psi loss allowed.

Tested By:

Victor Casillas



Material: 60x101015

[illegible]



Material: 40310203

Weld Date	Seam No.	Seam Length	Time	Operator Name / ID#	Mach No.	Mach Temp	Mach Speed	Amb Temp	Test Date	Test Type	Time In	Time Out	Test Results	D. S. Number (NOTES)
8-22-12	5-12	22.5'	6:50 6:53 am pm	JA	128	800°	700	71.6m	8-22-12	AT	8:10	8:15	P F	
8-22-12	6-12	22.5'	6:53 6:56 am pm	JA	128	800°	700		8-22-12	AT	8:11	8:16	P F	
8-22-12	7-12	22.5'	6:56 6:59 am pm	JA	128	806°	700		8-22-12	AT	8:12	8:17	P F	D5-1
8-22-12	8-11	37'	6:59 7:05 am pm	JA	128	800°	700		8-22-12	AT	8:13	8:18	P F	
8-22-12	9-10	37'	7:05 7:11 am pm	JA	128	800°	700		8-22-12	AT	8:14	8:19	P F	
8-22-12	17-18	37'	7:30 7:36 am pm	JA	128	800°	700		8-22-12	AT	8:17	8:22	P F	
8-22-12	16-19	37'	7:36 7:41 am pm	JA	128	800°	700		8-22-12	AT	8:18	8:23	P F	
8-22-12	15-20	22.5'	7:41 7:49 am pm	JA	128	800°	700		8-22-12	AT	8:19	8:24	P F	
8-22-12	15-21	22.5'	7:49 7:57 am pm	JA	128	800°	700		8-22-12	AT	8:21	8:26	P F	
8-22-12	15-22	22.5'	7:57 8:00 am pm	JA	128	800°	700		8-22-12	AT	8:28	8:33	P F	
8-22-12	24-25	37'	8:00 8:08 am pm	JA	128	800°	700		8-22-12	AT	8:29	8:34	P F	
Total =														

# Repair Log





Containment Systems Inc.

Project Name: Starky Free  
 Project Manager: \_\_\_\_\_  
 Supintendent: Victor Casillas

HDPE  
 HDT  
 PPR  
 40 Other: mil DLS Smooth  
 Date: 08-22-12  
 Job#: \_\_\_\_\_  
 Thickness: \_\_\_\_\_

Primary Secondary Other

VT=Vacum Test ST=Spark Test PT=Probe Test

Repair Number	Damage Code	Seam # or Panel #	Location	Date	Equip #	Operator	Repair Type	Approx. Size	Test Data		
									Test	Results	Date
1	T	1-2-3-4	X	8-22-12	82	AS	P	3'x3'	VT ST PT	P F	8-22-12
2	T	1-4-5-12	X	8-22-12	82	AS	P	2'x3'	VT ST PT	P F	8-22-12
3	T	5-6-12	X	8-22-12	82	AS	P	2'x2'	VT ST PT	P F	8-22-12
4	T	6-7-12	X	8-22-12	82	AS	P	2'x3'	VT ST PT	P F	8-22-12
5	DS-1	7-12	AT 11 EE OS	8-22-12	82	AS	P	2'x5'	VT ST PT	P F	8-22-12
6	T	7-8-11-12	X	8-22-12	82	AS	P	2'x4'	VT ST PT	P F	8-22-12
7	T	8-9-10-11	X	8-22-12	82	AS	P	3'x3'	VT ST PT	P F	8-22-12
8	DS-2	14-15	AT 43 WE OS	8-22-12	82	AS	P	2'x5'	VT ST PT	P F	8-22-12
9	T	16-17-18-19	X	8-22-12	82	AS	P	2'x2'	VT ST PT	P F	8-22-12
10	T	15-16-19-20	X	8-22-12	82	AS	P	3'x3'	VT ST PT	P F	8-22-12
11	T	15-20-21	X	8-22-12	82	AS	P	2'x2'	VT ST PT	P F	8-22-12
12	T	15-21-22	X	8-22-12	82	AS	P	2'x2'	VT ST PT	P F	8-22-12
13	DS-3	22-23	AT 40 AIG OS	8-22-12	82	AS	P	2'x5'	VT ST PT	P F	8-22-12
14	T	15-22-23-26	X	8-22-12	82	AS	P	2'x2'	VT ST PT	P F	8-22-12
15	T	23-24-25-26	X	8-22-12	82	AS	P	2'x2'	VT ST PT	P F	8-22-12
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	
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									VT ST PT	P F	
									VT ST PT	P F	
									VT ST PT	P F	

Vacum Test: PSI for Seconds. Probe Test: PSI.

Damage Codes:

Bo - Burn Out  
 CR - Crease  
 DS-# Destruct Sample  
 EE - Earthwork Equipment Damage  
 FM - Fish Mouth  
 ES - Exposed Scrim

SI - Subgrade Irregularity  
 RW - Roller Wrinkle in Seam  
 WR - Wrinkle  
 WS - Welder Restart  
 BL - Blister  
 T - Joint

Repair Types:

C - Cap Strip  
 P - Patch  
 B - Extrusion Bead

\* TOS - Top of Slope  
 \*\* BOS - Toe of Slope

# Destruct Summary





**Containment Systems Inc**

Project Name: Shirley Chase  
Project Manager: Victor Casillas  
Superintendent: Victor Casillas  
Reported By: Victor Casillas

**Project Manager:**

**Superintendent:**

Reported By:

## Primary

Secondary

**Other:**

Job:

Material: 40 mil Dls Smooth

## Destructive Test

Peel Test(Extr.) min

**ପ୍ରା**

### Peel Test(Fusion)

**पृष्ठ**

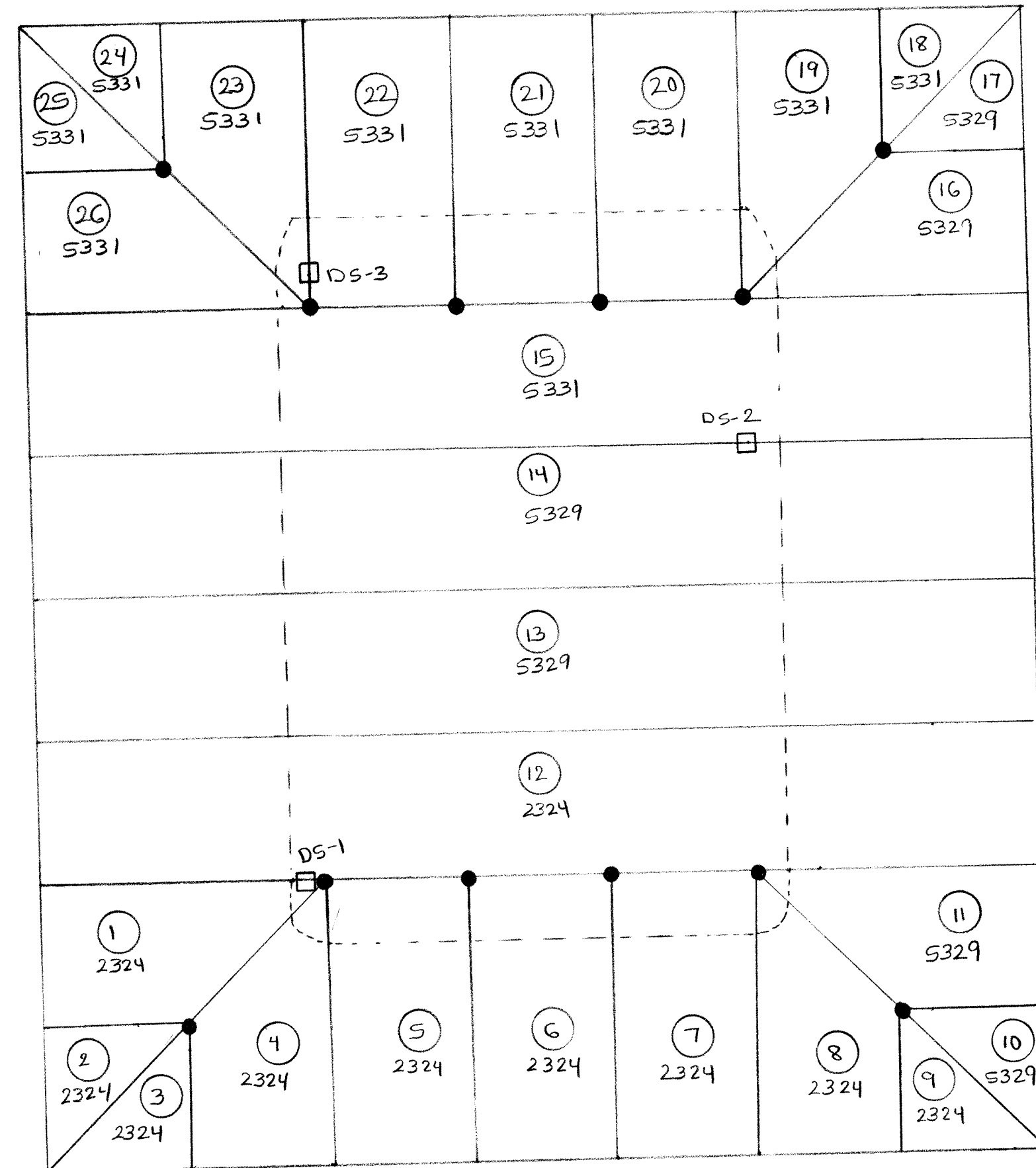
Shear Test min

**ପୃଷ୍ଠା**

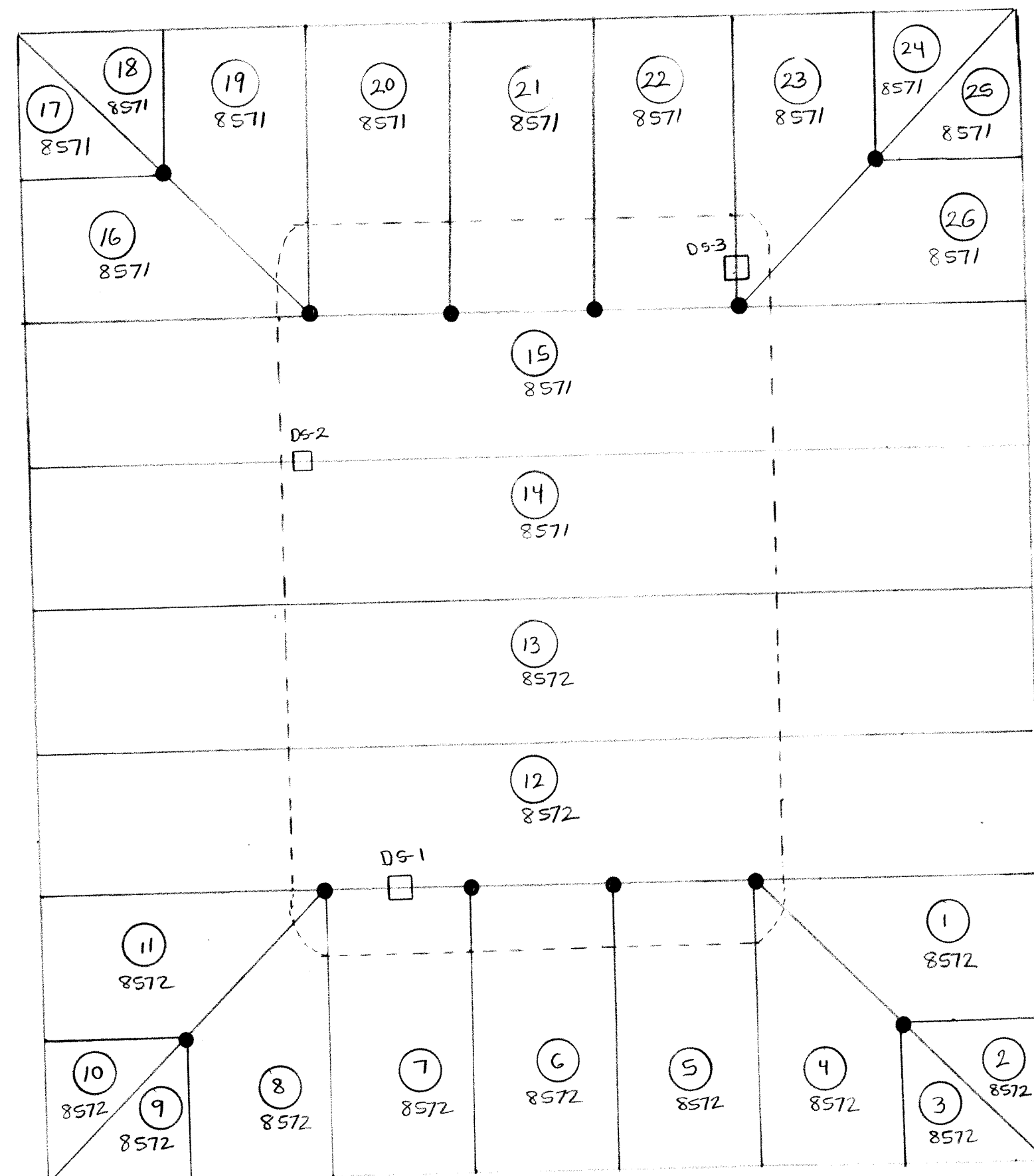
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# PRIMARY



# SECONDARY



# STARKEY FRAC

□ = DESTRUCTIVES

⊙ = PANEL NUMBERS

• = PATCHES

0-1-2-3-4-5-6-7-8-9 = ROLL NUMBERS



LANGE		APPROVED BY:	DRAWN BY: Vichy
SCALE: 1"=20'	DATE: 8-25-12	REVISED	
60 MIL D/SMOOTH		DRAWING NUMBER 1-1	
40 MIL D/SMOOTH			