



**Pacific Gas and
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Diablo Canyon Unit 1

Special Report 01-05: Results of Steam Generator Tube Eddy Current Inspections
During Unit 1 Tenth Refueling Outage

Dear Commissioners and Staff:

In accordance with Diablo Canyon Power Plant Technical Specification 5.6.10.b, this special report provides the results of steam generator (SG) tube eddy current inspections performed during the Unit 1 tenth refueling outage, completed in November 2000.

The enclosed tables provide the number and extent of tubes inspected in each SG and the location and percent through-wall of each indication identified.

Sincerely,

for David H. Oatley

cc: Ellis W. Merschoff
David L. Proulx
Girija S. Shukla
State of California
Diablo Distribution (w/o enc.)

Enclosure

DDM/469

1A001

SPECIAL REPORT 01-05

**RESULTS OF STEAM GENERATOR TUBE EDDY CURRENT INSPECTIONS
DURING UNIT 1 TENTH REFUELING OUTAGE**

Introduction

Technical Specification (TS) 5.6.10.b requires that the results of steam generator (SG) tube inspections be submitted to the NRC within 12 months following completion of the inspection. The report shall include:

1. Number and extent of tubes inspected,
2. Location and percent of wall thickness penetration for each indication of an imperfection, and
3. Identification of tubes plugged.

Table 1 provides the number and extent of tubes inspected in each SG.

Table 2 provides the location and percent through-wall of each indication identified, and identifies the tubes that were plugged in the Unit 1 tenth refueling outage. Several tubes were preventively plugged due to data quality concerns, and no indications were detected by eddy current.

Notes:

1. Free span indications (e.g., manufacturing burnish mark) that had eddy current signals traceable to preservice inspection data are not considered as reportable indications and are not included in this report.
2. Table 2 provides axial outside diameter stress corrosion cracking (ODSCC) indications at tube support plates (TSPs) that were confirmed by Plus Point. For simplicity, one indication per TSP is reported, even if multiple indications were reported by Plus Point. Bobbin distorted support signals that were not confirmed by Plus Point are not reportable indications and are not included in this report. A discussion of bobbin distorted support signals attributed to axial ODSCC is included in the 90-day report for voltage-based alternate repair criteria (ARC), submitted to the NRC in DCL-01-010 dated February 5, 2001.

Abbreviations and Terms

The following provides a definition of abbreviations and terms used in Tables 1 and 2.

SG	Steam Generator
Row	Row
Col	Column
Location	SG location codes
Inch	Distance above or below the center line of the TSP or the top of TS, inches
Inch2	For axial PWSCC indications, location of crack endpoint from TSP centerline or top of TS, inches
Plugged	Tube was plugged in 1R10
Deplugged	Tube was unplugged in 1R10
Bobbin	Differential inside diameter coil probe
+Point	Plus Point rotating probe
TSP	Tube support plate
TS	Tubesheet
Indication	Type of indication: Indication Code, anti-vibration bar (AVB) wear, or cold leg thinning.
ID/OD	Location of crack-like indications on tube surface
%TW	Depth of indication as percent through-wall
INDICATION CODES	
SAI	Single axial indication (from +Point exam) Note: SAI may be left in service for the following reasons: <ul style="list-style-type: none"> • Voltage-based ARC for axial ODSCC at TSP intersections • W* ARC for axial PWSCC in WEXTX tubesheet • Less than 40% through-wall axial PWSCC at dented TSP intersections
SCI	Single circumferential indication (from +Point exam)
SVI	Single volumetric indication (from +Point exam)

Table 1
Number and Extent of Tube Inspections During 1R10

SCOPE	PROBE TYPE	SG 11	SG 12	SG 13	SG 14
Full length (except Rows 1 and 2 U-bends)	Bobbin	100%	100%	100%	100%
Rows 1 and 2 U-bends	+ Point	100%	100%	100%	100%
Hot Leg top-of tubesheet	+ Point	100%	100%	100%	100%
≥ 5 volt dented TSP intersections	+ Point	100% from 1H to 4H, 20% (50 min) from 5H to 7H	100% from 1H to 6H, 20% (50 min) at 7H	20% (50 min) from 1H to 7H	100% from 1H to 3H, 20% (50 min) from 4H to 7H
< 5 volt dented TSP intersections	+ Point	100% from 1H to 4H, 20% at 5H	100% from 1H to 6H, 20% at 7H	20% at 1H	100% from 1H to 3H, 20% at 4H
Hot leg roll plugs	+ Point	20%	N/A	100%	100%
Distorted OD bobbin signals at TSP intersections	+ Point	Per voltage-based repair criteria	Per voltage-based repair criteria	Per voltage-based repair criteria	Per voltage-based repair criteria
Distorted ID bobbin signals at TSP intersections	+ Point	100%	100%	100%	100%
Free span dings	+ Point	20% TSH to 3H	20% TSH to 6H	20% TSH to 1H	20% TSH to 3H
Baseline TSP ligament indications	+ Point	N/A	100%	100%	N/A

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
11	1	24	7H	9.74		SCI	ID		Plugged	
11	2	58	1H	-0.09		SAI	OD			
11	2	60							Plugged	Preventive plugging/UB data quality
11	3	2	TSH	-1.42	-1.18	SAI	ID			
11	3	28	2H	-0.18	-0.07	SAI	ID	21		
11	3	41	1H	0.01		SAI	OD			
11	4	20	1H	-0.05		SAI	OD			
11	4	32	3H	-0.18		SAI	OD			
11	4	41	1H	-0.17	0.08	SAI	ID	35		
11	4	46	3H	-0.11	0.18	SAI	ID	42	Plugged	
11	4	52	1H	0.03		SAI	OD			
11	4	92	1C	0.11		thin		32		
11	4	92	2C	-0.04		thin		32		
11	4	94	2C	0.13		thin		30		
11	5	62	1H	-0.11		SAI	OD		Plugged	
11	5	94	1C	0.06		thin		21		
11	5	94	2C	0.11		thin		0		
11	6	93	1C	0.06		thin		7		
11	7	37	3H	-0.17		SAI	OD			
11	7	82	1H	-0.08		SAI	OD			
11	8	2	2C	0.02		thin		10		
11	8	32	3H	0.08		SAI	OD			
11	8	88	1H	0.11		SAI	OD		Plugged	
11	9	82	1H	-0.06		SAI	OD			
11	10	71	1H	-0.06		SAI	OD			
11	10	92	1C	-0.28		thin		0		
11	10	93	1C	-0.26		thin		6		
11	11	93	1C	-0.24		thin		0		
11	12	13	1H	-0.07		SAI	OD			
11	12	91	1C	-0.22		thin		2		
11	13	16	2H	-0.18	0.05	SAI	ID	48	Plugged	
11	13	66	TSH	0.02		SCI	OD		Plugged	
11	14	13	1H	-0.07		SAI	OD			Deplugged
11	14	28	2H	0.15	0.28	SAI	ID	23		
11	14	87	2H	0.00		SAI	OD			
11	14	88	1H	0.03		SAI	OD			
11	15	16	2H	-0.13	0.02	SAI	ID	21		
11	15	44	TSH	-0.09		SCI	ID		Plugged	
11	15	76	2H	-0.16	-0.08	SAI	ID	20		Deplugged
11	15	81	2H	-0.03		SAI	OD			
11	15	92	1C	-0.11		thin		34		
11	16	68	3H	-0.16		SAI	OD			
11	16	70	1H	0.03		SAI	OD			Deplugged
11	17	17	TSH	-3.12		SCI	ID		Plugged	
11	17	27	3H	0.05		SAI	OD			
11	17	35	7H	35.27		wear		18		
11	17	74	7H	33.72		wear		22		
11	17	76	1H	-0.14		SAI	OD			
11	18	31	2H	-0.14		SAI	OD			
11	18	89	2C	-0.24		thin		0		
11	19	15	3H	-0.09	0.11	SAI	ID	35		
11	19	26	2H	-0.23	0.10	SAI	ID	58	Plugged	
11	19	52	1H	0.04		SAI	OD			
11	20	28	2H	-0.25	0.18	SAI	ID	21		Deplugged

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
11	20	29	2H	0.05	0.23	SAI	ID	23		Deplugged
11	20	33	1H	-0.16	-0.08	SAI	ID	20		
11	20	40	1H	-0.05		SAI	OD			
11	20	44	TSH	-8.24	-8.13	SAI	ID			
11	20	65	1H	0.02		SAI	OD			Deplugged
11	20	88	1C	-0.24		thin		0		
11	21	49	1H	0.07		SAI	OD			
11	21	87	1C	-0.30		thin		23		
11	22	7	3H	-0.16	0.10	SAI	ID	41	Plugged	
11	22	23	2H	-0.21	-0.15	SAI	ID	24		
11	22	23	2H	0.10	0.20	SAI	ID	20		
11	22	70	1H	-0.04		SAI	OD			
11	22	71	2H	-0.08	0.12	SAI	ID	35		
11	22	87	2C	-0.13		thin		43	Plugged	
11	23	14	3H	-0.13	0.00	SAI	ID	27		
11	23	87	2C	-0.17		thin		0		
11	23	88	2C	-0.21		thin		0		
11	24	20	2H	0.02	0.09	SAI	ID	38		
11	24	56	2H	-0.14		SAI	OD		Plugged	
11	24	67	2H	-0.08	0.07	SAI	ID	24		
11	24	87	2C	-0.21		thin		25		
11	25	57	3H	-0.13	0.14	SAI	ID	20		Deplugged
11	25	62	7H	44.05		wear		23		
11	25	62	7H	63.05		wear		30		
11	25	85	1C	0.11		thin		22		
11	25	86	2C	-0.21		thin		0		
11	26	25	1H	0.08	0.30	SAI	ID	23		Deplugged
11	26	46	1H	0.01		SAI	OD			
11	26	63	1H	-0.06		SAI	OD			
11	26	86	2C	-0.24		thin		30		
11	27	28	1H	0.04		SAI	OD			
11	27	44	2H	-0.30		SAI	OD			
11	27	47	1H	0.12		SAI	OD			
11	27	75	2H	-0.05	0.06	SAI	ID	34		
11	28	27	1H	-0.32	-0.03	SAI	ID	33		Deplugged
11	28	35	1H	-0.02		SAI	OD		Plugged	
11	28	48	7H	50.59		wear		22		
11	28	48	7H	73.19		wear		25		
11	28	48	7H	84.67		wear		17		
11	28	50	1H	-0.03		SAI	OD		Plugged	Deplugged
11	28	50	1H	-0.11	-0.02	SAI	ID	29	Plugged	Deplugged
11	28	85	1C	-0.09		thin		8		
11	29	29	2H	-0.07		SAI	OD			
11	29	37	2H	-0.07	0.17	SAI	ID	20		Deplugged
11	29	43	1H	0.05		SAI	OD			
11	29	83	2C	-0.13		thin		44	Plugged	
11	29	84	2C	-0.17		thin		32		
11	30	21	2H	-0.08	-0.02	SAI	ID	20		
11	30	33	1H	-0.15		SAI	OD		Plugged	
11	30	67	2H	-0.21	0.12	SAI	ID	28		Deplugged
11	30	83	1C	-0.28		thin		14		
11	31	81	2C	-0.19		thin		27		
11	32	24	2H	-0.16		SAI	OD			
11	32	79	1C	0.02		thin		0		

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
11	33	55	1H	0.03		SAI	OD			
11	33	77	2C	-0.37		thin		35		
11	33	79	1C	0.28		thin		23		
11	34	24	3H	-0.06	0.26	SAI	ID	21		
11	34	79	1C	-0.34		thin		22		
11	35	17	1C	-0.24		thin		10		
11	35	43	2H	-0.09		SAI	OD			
11	35	76	2C	-0.19		thin		18		
11	36	30	2H	-0.25	-0.08	SAI	ID	35		
11	36	34	1H	0.07		SCI	ID		Plugged	
11	36	73	2C	-0.26		thin		9		
11	36	77	2C	-0.21		thin		9		
11	36	77	1C	0.17		thin		0		
11	37	32	1H	0.16		SAI	OD			Deplugged
11	37	39	4H	-0.23	0.20	SAI	ID	58	Plugged	
11	37	41	2H	-0.05		SAI	OD			
11	37	45	2H	0.11		SAI	OD			
11	37	46	7H	62.83		wear		35		
11	37	75	2C	-0.15		thin		11		
11	38	41	4H	-0.26	-0.13	SAI	ID	20		
11	38	72	1C	-0.34		thin		29		
11	39	54	7H	101.50		wear		31		
11	39	54	7H	129.70		wear		24		
11	39	54	7H	66.35		wear		22		
11	39	56	7H	131.08		wear		18		
11	39	73	1C	-0.32		thin		5		
11	40	35	7H	103.52		wear		18		
11	40	43	7H	67.49		wear		29		
11	40	43	7H	103.69		wear		38		
11	40	43	7H	104.39		wear		31		
11	40	50	1H	0.17		SAI	OD			
11	40	68	7H	67.91		wear		21		
11	40	68	7H	102.78		wear		28		
11	41	44	7H	107.20		wear		19		
11	41	44	7H	137.73		wear		13		
11	41	64	2C	-0.25		thin		0		
11	42	29	2C	-0.30		thin		31		
11	42	59	1C	-0.36		thin		45	Plugged	
11	42	62	1C	-0.34		thin		34		
11	42	65	1C	-0.34		thin		29		
11	43	30	7H	37.11		wear		23		
11	43	62	1C	-0.37		thin		40	Plugged	
11	44	55	2C	0.21		thin		0		
11	44	59	1C	-0.06		thin		13		
11	44	60	2C	-0.23		thin		22		
11	44	61	1C	-0.41		thin		0		
11	45	59	2C	-0.30		thin		30		
11	46	51	1C	-0.17		thin		29		
11	46	54	1C	-0.28		thin		20		
12	1	36	7H	9.15		SCI	ID		Plugged	
12	1	38							Plugged	Preventive plugging/UB data quality
12	1	44							Plugged	Preventive plugging/UB data quality
12	1	51	7H	9.20		SCI	ID		Plugged	
12	1	67							Plugged	Preventive plugging/UB data quality

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
12	1	85							Plugged	Preventive plugging/UB data quality
12	2	1	1C	-0.19		thin		9		
12	2	37							Plugged	Preventive plugging/UB data quality
12	2	50							Plugged	Preventive plugging/UB data quality
12	2	76	2H	-0.21	-0.02	SAI	ID	20		
12	2	77							Plugged	Preventive plugging/UB data quality
12	2	78	1H	0.05	0.12	SAI	ID	20		
12	2	79	3H	-0.18	0.26	SAI	ID	20		Deplugged
12	2	83	2H	-0.05		SCI	OD		Plugged	
12	2	88							Plugged	Preventive plugging/UB data quality
12	2	89							Plugged	Preventive plugging/UB data quality
12	2	92	5H	-0.41	-0.34	SAI	ID	20		
12	2	92	5H	-0.07	0.04	SAI	ID	20		
12	2	92	5H	0.09	0.28	SAI	ID	20		
12	2	93	4H	0.09	0.22	SAI	ID	20		
12	3	1	1C	-0.11		thin		10		
12	3	18	6H	-0.19		SAI	OD			
12	3	79	1H	0.29		SCI	OD		Plugged	
12	3	81	1H	-0.29		SCI	OD		Plugged	
12	3	81	1H	0.28		SCI	OD		Plugged	
12	4	1	2C	0.02		thin		27		
12	4	57	1H	0.01	0.08	SAI	ID	20		
12	4	59	1H	0.13		SCI	ID		Plugged	
12	4	59	1H	-0.21		SCI	OD		Plugged	
12	4	69	TSH	-0.55	-0.42	SAI	ID		Plugged	
12	4	69	1H	-0.13	0.02	SAI	ID	20		
12	4	84	1H	-0.01	0.06	SAI	ID	21		Deplugged
12	4	94	1C	0.13		thin		34		
12	5	1	2C	0.04		thin		0		
12	5	4	1C	-0.22		thin		33		
12	5	20	6H	-0.07		SAI	OD			
12	5	65	1H	-0.24	0.07	SAI	ID	25		Deplugged
12	5	66	2H	-0.13	-0.04	SAI	ID	33		Deplugged
12	5	77	5H	-0.29	-0.10	SAI	ID	36		
12	5	93	1H	-0.11	0.00	SAI	ID	20		Deplugged
12	6	2	1C	0.02		thin		40	Plugged	
12	6	49	1H	-0.24		SAI	OD			
12	6	65	2H	0.02		SAI	OD			
12	6	74	3H	-0.16	0.03	SAI	ID	20		
12	6	93	1C	-0.21		thin		17		
12	7	2	2C	-0.08		thin		33		
12	7	20	2H	-0.21		SAI	OD			
12	7	31	1H	-0.03	0.19	SAI	ID	20		
12	7	49	1H	-0.01		SAI	OD			
12	7	68	3H	0.02	0.23	SAI	ID	36		Deplugged
12	7	85	1H	0.00		SAI	OD			
12	7	94	1C	-0.21		thin		0		
12	8	2	2C	-0.04		thin		37		
12	8	7	1H	-0.25		SAI	OD		Plugged	
12	8	15	2H	-0.16	0.14	SAI	ID	26		
12	8	17	1H	0.28		SAI	OD			
12	8	20	2H	-0.26		SAI	OD			
12	8	61	2H	-0.26	-0.12	SAI	ID	30		
12	8	61	2H	0.04	0.25	SAI	ID	36		

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
12	8	66	2H	-0.31	-0.24	SAI	ID	20		Deplugged
12	8	67	1H	-0.05	0.04	SAI	ID	27		
12	8	92	2C	-0.19		thin		16		
12	8	93	1H	-0.15	-0.04	SAI	ID	24		
12	9	34	1H	0.03		SAI	OD		Plugged	
12	9	34	2H	0.07		SAI	OD		Plugged	
12	9	34	2H	-0.04	0.05	SAI	ID	21	Plugged	
12	9	56	1H	-0.28	-0.19	SAI	ID	22		
12	9	70	1H	-0.20		SAI	OD			Deplugged
12	9	92	2C	-0.09		thin		32		
12	10	41	2H	0.00		SAI	OD			
12	10	43	1H	-0.01		SAI	OD			
12	10	58	1H	0.25		SAI	OD			
12	10	67	1H	-0.27	0.00	SAI	ID	20		Deplugged
12	10	81	1H	-0.14		SAI	OD			
12	10	85	4H	0.15	0.21	SAI	ID	33		Deplugged
12	11	4	1C	-0.19		thin		41	Plugged	
12	11	45	1H	-0.05	0.31	SAI	ID	35		
12	11	75	2H	-0.14		SAI	OD			
12	11	80	5H	-0.30	0.12	SAI	ID	45	Plugged	
12	11	80	5H	-0.31	0.29	SAI	ID	51	Plugged	
12	11	81	2H	0.03	0.25	SAI	ID	36		Deplugged
12	11	93	2C	-0.09		thin		31		
12	12	3	1C	-0.02		thin		13		
12	12	4	1C	-0.10		thin		0		
12	12	21	4H	0.31		SAI	OD			
12	12	65	2H	0.24		SAI	OD			
12	12	80	3H	-0.21	-0.04	SAI	ID	42	Plugged	
12	12	83	2H	-0.02		SAI	OD			
12	13	3	1C	-0.02		thin		3		
12	13	6	2C	-0.10		thin		34		
12	13	10	1H	-0.45	-0.35	SAI	ID	24		
12	13	34	1H	0.02	0.15	SAI	ID	46	Plugged	
12	13	82	5H	-0.20		SAI	OD			
12	13	84	2H	0.23		SAI	OD			
12	13	84	1H	-0.05	0.02	SAI	ID	20		
12	13	84	1H	-0.08	0.03	SAI	ID	20		
12	13	92	2C	-0.06		thin		28		
12	14	5	2C	-0.23		thin		15		
12	14	16	4H	-0.05	0.04	SAI	ID	21		
12	14	30	2H	0.05		SAI	OD			
12	14	45	1H	-0.04	0.10	SAI	ID	20		
12	14	68	1H	-0.27	0.13	SAI	ID	20		Deplugged
12	14	70	1H	-0.12	0.02	SAI	ID	20		Deplugged
12	14	72	2H	0.22		SAI	OD		Plugged	Deplugged
12	14	72	2H	-0.23	0.19	SAI	ID	38	Plugged	Deplugged
12	14	72	2H	0.24	0.31	SAI	ID	20	Plugged	Deplugged
12	14	73	1H	0.22		SCI	OD		Plugged	
12	14	76	1H	0.01		SAI	OD			
12	14	82	1H	0.24		SAI	OD		Plugged	Deplugged
12	14	82	1H	-0.23	-0.18	SAI	ID	20	Plugged	Deplugged
12	14	91	1C	-0.15		thin		21		
12	15	3	1C	-0.14		thin		40	Plugged	
12	15	5	2C	-0.15		thin		29		

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
12	15	10	1H	0.27		SAI	OD		Plugged	
12	15	10	1H	-0.19	0.02	SAI	ID	24	Plugged	
12	15	35	1H	0.19		SAI	OD			
12	15	42	2H	0.03		SAI	OD			
12	15	67	2H	0.05		SAI	OD		Plugged	
12	15	67	TSH	-0.54	-0.39	SAI	ID		Plugged	
12	15	74	1H	-0.03		SAI	OD			
12	16	12	5H	-0.07	0.04	SAI	ID	21		
12	16	33	2H	0.01		SAI	OD			
12	16	40	2H	0.01		SAI	OD			
12	16	73	1H	-0.43	-0.17	SAI	ID	24		Deplugged
12	16	73	1H	-0.25	-0.11	SAI	ID	20		Deplugged
12	16	76	2H	-0.14	-0.03	SAI	ID	20		Deplugged
12	17	16	3H	-0.22		SAI	OD			
12	17	24	1H	-0.02		SAI	OD			
12	17	44	1H	-0.09		SAI	OD			
12	17	45	1H	-0.06		SAI	OD			
12	17	47	1H	-0.02		SAI	OD			
12	17	60	2H	0.12		SAI	OD		Plugged	Deplugged
12	17	60	2H	-0.25	-0.08	SAI	ID	22	Plugged	Deplugged
12	17	68	1H	-0.04		SAI	OD			
12	17	79	1H	0.26		SAI	OD			
12	18	5	2C	-0.02		thin		12		
12	19	6	1C	-0.27		thin		44	Plugged	
12	19	31	4H	-0.08	0.03	SAI	ID	21		
12	19	39	7H	36.34		wear		15		
12	19	48	1H	0.35		SAI	OD			
12	19	57	2H	-0.07		SAI	OD			
12	19	67	7H	35.47		wear		21		
12	19	67	7H	37.01		wear		16		
12	19	67	7H	50.09		wear		21		
12	19	67	7H	51.18		wear		22		
12	19	67	7H	61.66		wear		24		
12	19	74	2H	-0.15	-0.03	SAI	ID	25		
12	19	79	1H	-0.07		SAI	OD			
12	19	89	2C	-0.15		thin		0		
12	20	7	2C	-0.19		thin		28		
12	20	48	3H	-0.23	0.02	SAI	ID	30		
12	20	51	1H	0.05		SAI	OD			
12	20	54	1H	0.07		SAI	OD			
12	20	58	1H	-0.18	0.28	SAI	ID	61	Plugged	
12	20	58	1H	-0.05	0.10	SAI	ID	52	Plugged	
12	20	83	1H	-0.14		SAI	OD			
12	21	55	7H	40.45		wear		27		
12	21	55	7H	57.15		wear		18		
12	21	60	1H	0.04		SAI	OD			Deplugged
12	21	60	2H	-0.28	-0.03	SAI	ID	20		Deplugged
12	21	73	1H	-0.05		SAI	OD		Plugged	
12	22	35	7H	25.08		wear		16		
12	22	57	1H	0.07		SAI	OD			
12	22	62	2H	-0.01		SAI	OD			
12	22	80	1H	-0.11		SAI	OD			
12	22	83	1H	-0.08		SAI	OD			
12	23	7	2C	-0.27		thin		29		

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
12	23	25	3H	-0.22	0.00	SAI	ID	24		
12	23	54	1H	0.00	0.16	SAI	ID	20		
12	23	82	1H	0.06	0.18	SAI	ID	30		
12	24	31	1H	0.05		SAI	OD			
12	24	32	1H	0.07		SAI	OD			
12	24	48	4H	-0.19		SAI	OD			
12	24	65	2H	0.00		SAI	OD			
12	24	72	2H	-0.01		SAI	OD		Plugged	Deplugged
12	24	72	1H	0.07		SAI	OD		Plugged	Deplugged
12	24	72	1H	-0.22	0.04	SAI	ID	22	Plugged	Deplugged
12	24	74	1H	0.00		SAI	OD			
12	24	77	1H	-0.19	-0.07	SAI	ID	25		
12	25	17	2H	-0.34	-0.13	SAI	ID	20		
12	25	32	1H	-0.02		SAI	OD			
12	25	37	1H	0.06		SAI	OD			
12	25	55	2H	0.13	0.24	SAI	ID	20		
12	25	74	1H	-0.34	-0.25	SAI	ID	30		
12	25	78	1H	-0.01		SAI	OD			
12	25	81	2H	-0.07		SAI	OD			
12	25	85	2H	0.06		SAI	OD			
12	26	10	2C	-0.10		thin		25		
12	26	17	3H	-0.18		SAI	OD			
12	26	39	2H	-0.03	0.09	SAI	ID	27		
12	26	43	2H	0.27		SAI	OD		Plugged	Deplugged
12	26	43	2H	-0.22	0.04	SAI	ID	30	Plugged	Deplugged
12	26	52	2H	0.05		SAI	OD			
12	26	68	7H	28.00		wear		20		
12	26	68	7H	46.28		wear		22		
12	26	68	7H	67.88		wear		21		
12	26	68	7H	86.53		wear		29		
12	26	79	1H	-0.11	0.10	SAI	ID	39		
12	27	10	2C	-0.25		thin		19		
12	27	50	1H	-0.23	-0.14	SAI	ID	32		
12	27	56	1H	-0.22	-0.11	SAI	ID	20		
12	27	64	3H	-0.13	-0.06	SAI	ID	20		Deplugged
12	27	71	1H	0.08		SAI	OD		Plugged	
12	27	71	1H	-0.23	0.00	SAI	ID	39	Plugged	
12	28	11	2C	-0.12		thin		5		
12	28	35	2H	-0.10		SAI	OD			
12	28	36	2H	0.10		SAI	OD			
12	28	50	1H	0.06		SAI	OD			
12	28	55	2H	0.06		SAI	OD			
12	28	66	2H	-0.02	0.04	SAI	ID	25		
12	28	75	1H	-0.04		SAI	OD		Plugged	
12	29	12	2C	-0.17		thin		17		
12	29	40	5H	0.00		SAI	OD			
12	29	51	2H	-0.16	-0.04	SAI	ID	30		
12	29	69	1H	0.05		SAI	OD			
12	30	16	1H	-0.04	0.05	SAI	ID	32		
12	30	62	1H	-0.15	-0.08	SAI	ID	20		Deplugged
12	31	26	3H	-0.16		SAI	OD			
12	31	37	3H	-0.16	-0.08	SAI	ID	30		Deplugged
12	31	37	3H	-0.03	0.06	SAI	ID	36		Deplugged
12	31	64	1H	0.04		SAI	OD			

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
12	31	78	5H	0.50	0.70	SAI	ID	27		
12	32	25	2H	0.05		SAI	OD			
12	32	37	3H	-0.01	0.08	SAI	ID	30		Deplugged
12	32	50	7H	57.49		wear		20		
12	32	50	7H	83.24		wear		29		
12	32	50	7H	34.00		wear		24		
12	32	54	1H	-0.08		SAI	OD			
12	32	55	7H	57.17		wear		20		
12	32	55	7H	83.62		wear		36		
12	32	57	2H	0.10		SAI	OD			
12	32	62	1H	-0.13	0.03	SAI	ID	30		
12	33	37	1H	0.23		SAI	OD		Plugged	
12	33	37	1H	-0.18	-0.07	SAI	ID	20	Plugged	
12	33	47	7H	86.66		wear		14		
12	33	54	7H	59.28		wear		15		
12	33	68	2H	0.02	0.08	SAI	ID	33		
12	34	36	3H	-0.17	0.06	SAI	ID	20		Deplugged
12	34	45	1H	-0.05		SAI	OD			
12	34	51	7H	115.09		wear		22		
12	34	51	7H	88.25		wear		39		
12	34	51	6H	-0.03	0.14	SAI	ID	32		
12	34	65	2H	-0.05	0.04	SAI	ID	22		Deplugged
12	34	66	7H	89.00		wear		16		
12	34	69	1H	0.11		SAI	OD		Plugged	
12	34	75	1H	-0.13		SAI	OD		Plugged	
12	35	19	2C	-0.11		thin		16		
12	35	19	1C	-0.22		thin		13		
12	35	52	3H	-0.13	0.10	SAI	ID	24		
12	35	56	2H	0.00	0.19	SAI	ID	27		Deplugged
12	35	65	2H	-0.03	0.26	SAI	ID	54	Plugged	
12	35	69	2H	-0.07		SAI	OD			
12	36	18	2C	-0.22		thin		38	Plugged	
12	36	18	1C	-0.02		thin		49	Plugged	
12	36	23	7H	63.11		wear		9		
12	36	58	7H	63.51		wear		14		
12	36	60	4H	-0.23	-0.06	SAI	ID	27		
12	36	63	7H	63.50		wear		11		
12	36	63	7H	94.44		wear		35		
12	36	64	7H	34.64		wear		21		
12	36	64	7H	63.41		wear		32		
12	36	64	7H	94.37		wear		23		
12	36	68	7H	35.44		wear		20		
12	36	68	7H	62.81		wear		16		
12	37	19	1C	0.20		thin		37		
12	37	58	7H	34.49		wear		30	Plugged	
12	37	58	7H	96.80		wear		20	Plugged	
12	37	58	7H	64.88		wear		36	Plugged	
12	37	58	2H	-0.27	-0.02	SAI	ID	31	Plugged	
12	37	58	2H	-0.19	-0.06	SAI	ID	20	Plugged	
12	37	59	2H	0.00		SAI	OD		Plugged	
12	37	73	3H	-0.14	0.09	SAI	ID	27		Deplugged
12	38	21	1C	-0.02		thin		46	Plugged	
12	38	22	2C	-0.13		thin		12		
12	38	23	2C	-0.13		thin		31		

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
12	38	25	2C	-0.08		thin		6		
12	38	25	1C	-0.27		thin		22		
12	38	34	7H	34.58		wear		16		
12	38	34	7H	65.29		wear		13		
12	38	36	1H	0.08		SAI	OD		Plugged	
12	38	40	7H	35.00		wear		40	Plugged	
12	38	40	7H	66.01		wear		34	Plugged	
12	38	40	7H	98.39		wear		42	Plugged	
12	38	40	7H	128.93		wear		26	Plugged	
12	38	49	7H	129.59		wear		32		
12	38	51	7H	98.67		wear		14		
12	38	51	7H	128.53		wear		14		
12	38	52	7H	67.01		wear		22		
12	38	53	7H	129.29		wear		30		
12	38	60	7H	66.98		wear		28		
12	38	60	7H	35.87		wear		18		
12	38	61	1H	0.25		SAI	OD		Plugged	Deplugged
12	38	61	2H	-0.19		SAI	OD		Plugged	Deplugged
12	38	61	1H	-0.13	0.00	SAI	ID	20	Plugged	Deplugged
12	38	63	1H	0.06		SAI	OD		Plugged	
12	38	63	1H	-0.29	-0.15	SAI	ID	22	Plugged	
12	38	64	7H	99.05		wear		23		
12	38	64	7H	129.29		wear		27		
12	38	66	7H	128.86		wear		23		
12	38	66	7H	98.81		wear		15		
12	38	66	1H	-0.01	0.18	SAI	ID	33		
12	38	67	7H	98.19		wear		19		
12	38	72	7H	66.09		wear		16		
12	38	72	7H	98.14		wear		10		
12	39	36							Plugged	Preventive plugging/TSP 1H data quality
12	39	51	7H	35.99		wear		16		
12	39	51	7H	67.86		wear		35		
12	39	51	7H	101.31		wear		23		
12	39	57	7H	101.57		wear		19		
12	39	64	1H	0.20		SAI	OD		Plugged	
12	39	64	3H	-0.08	0.05	SAI	ID	28	Plugged	
12	39	69	7H	132.35		wear		25		
12	39	70	1H	-0.10		SAI	OD			
12	39	71	7H	67.68		wear		17		
12	39	71	7H	100.67		wear		23		
12	40	42	7H	35.87		wear		9		
12	40	54	7H	69.89		wear		36		
12	40	54	7H	104.53		wear		21		
12	40	54	7H	136.78		wear		18		
12	40	56	2H	0.07		SAI	OD			
12	40	61	3H	-0.13		SAI	OD		Plugged	
12	40	65	3H	0.10		SAI	OD		Plugged	
12	40	68	2H	-0.16		SAI	OD			
12	41	33	1C	-0.02		thin		13		
12	41	46	7H	106.61		wear		19		
12	41	50	7H	70.93		wear		14		
12	41	52	7H	106.56		wear		14		
12	41	62	1H	0.21		SAI	OD		Plugged	
12	41	62	1H	-0.14	0.07	SAI	ID	27	Plugged	

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
12	42	28	2H	-0.06	0.06	SAI	ID	32		
12	42	55	1H	-0.02		SAI	OD			
12	43	32	1C	-0.19		thin		23		
12	43	33	1C	-0.19		thin		31		
12	43	64	2C	-0.19		thin		7		
12	45	58	1C	-0.02		thin		10		
13	1	70							Plugged	Preventive plugging/UB data quality
13	1	85							Plugged	Preventive plugging/UB data quality
13	2	60							Plugged	Preventive plugging/UB data quality
13	2	61							Plugged	Preventive plugging/UB data quality
13	4	9	3H	-0.21		SAI	OD			
13	4	77	1H	0.02		SAI	OD			
13	9	54	TSH	0.00		SCI	OD		Plugged	
13	9	55	TSH	0.00		SCI	OD		Plugged	
13	9	63	4H	0.09		SAI	OD			
13	10	75	TSH	-0.05		SCI	OD		Plugged	
13	12	34	7H	30.30		wear		24		
13	12	69	TSH	0.06		SCI	OD		Plugged	
13	13	72	TSH	0.02		SCI	OD		Plugged	
13	15	4	1C	-0.21		thin		15		
13	15	64	7H	41.09		wear		11		
13	19	88	1C	0.06		thin		12		
13	21	25	7H	39.61		wear		11		
13	23	33	7H	42.83		wear		10		
13	23	57	7H	60.61		wear		13		
13	23	82	7H	44.07		wear		9		
13	24	46	TSH	0.05		SCI	OD		Plugged	
13	25	87	1H	0.04		SAI	OD			
13	27	48	7H	29.27		wear		10		
13	28	45	7H	50.97		wear		13		
13	28	45	7H	73.54		wear		10		
13	28	52	7H	51.10		wear		10		
13	28	52	7H	73.46		wear		11		
13	28	56	7H	50.22		wear		11		
13	28	56	7H	73.11		wear		10		
13	29	45	TSH	0.03		SCI	OD		Plugged	
13	29	45	7H	76.40		wear		17	Plugged	
13	29	48	7H	30.21		wear		11		
13	29	76	7H	-0.06		wear		0		
13	30	38	TSH	0.01		SCI	OD		Plugged	
13	30	45	TSH	-1.90	-1.78	SAI	ID			
13	30	58	7H	30.29		wear		20		
13	30	58	7H	53.40		wear		34		
13	30	58	7H	78.84		wear		30		
13	30	58	7H	101.83		wear		18		
13	31	36	TSH	-2.92	-2.78	SAI	ID			
13	31	49	7H	54.52		wear		13		
13	31	57	7H	80.77		wear		11		
13	32	24	2H	0.01		SAI	OD			
13	32	38	7H	56.49		wear		26		
13	32	38	7H	31.58		wear		11		
13	32	61	7H	33.33		wear		17		
13	32	61	7H	56.74		wear		22		
13	32	61	7H	83.59		wear		36		

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
13	32	65	4H	-0.05		SAI	OD			
13	33	27	7H	86.45		wear		12		
13	33	37	TSH	-5.90	-5.64	SAI	ID			
13	33	56	7H	33.83		wear		24		
13	33	56	7H	58.10		wear		24		
13	33	56	7H	86.07		wear		34		
13	33	56	7H	111.66		wear		20		
13	33	57	7H	57.68		wear		21		
13	33	64	7H	57.77		wear		23		
13	33	64	7H	32.27		wear		16		
13	33	64	7H	86.34		wear		14		
13	34	39	7H	32.99		wear		20		
13	34	58	7H	59.40		wear		18		
13	34	58	7H	88.48		wear		36		
13	34	68	7H	59.75		wear		17		
13	34	78	2C	-0.25		thin		0		
13	35	29	7H	60.90		wear		10		
13	35	41	7H	61.41		wear		11		
13	35	48	7H	61.83		wear		13		
13	35	48	7H	91.64		wear		12		
13	35	57	7H	61.01		wear		16		
13	35	68	7H	116.83		wear		12		
13	36	36	7H	62.51		wear		12		
13	36	56	7H	62.26		wear		28		
13	36	56	7H	93.26		wear		24		
13	36	56	7H	121.67		wear		18		
13	36	57	7H	93.41		wear		17		
13	36	59	7H	93.49		wear		13		
13	36	61	7H	61.94		wear		31		
13	36	61	7H	93.74		wear		34		
13	36	61	7H	121.05		wear		22		
13	37	34	7H	97.04		wear		19		
13	37	45	7H	96.71		wear		33		
13	37	45	7H	124.41		wear		21		
13	37	45	7H	64.74		wear		20		
13	37	50	7H	64.45		wear		34		
13	37	58	7H	64.09		wear		26	Plugged	
13	37	58	7H	96.05		wear		40	Plugged	
13	37	58	7H	124.99		wear		18	Plugged	
13	37	68	7H	64.35		wear		24		
13	37	68	7H	95.64		wear		15		
13	37	69	7H	64.12		wear		11		
13	37	69	7H	95.39		wear		29		
13	37	70	7H	64.50		wear		14		
13	37	70	7H	95.43		wear		21		
13	37	75	2C	-0.29		thin		21		
13	38	31	TSH	0.86		SVI	OD		Plugged	
13	38	45	7H	66.07		wear		12		
13	38	45	7H	127.69		wear		14		
13	38	45	7H	99.23		wear		20		
13	39	45	7H	68.07		wear		13		
13	39	45	7H	102.48		wear		11		
13	39	46	TSH	-2.42	-2.22	SAI	ID			
13	39	52	7H	67.86		wear		12		

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
13	39	58	7H	101.41		wear		13		
13	39	66	7H	130.95		wear		26		
13	39	69	7H	67.91		wear		11		
13	40	34	7H	68.64		wear		17		
13	40	34	7H	104.19		wear		23		
13	40	34	7H	134.48		wear		11		
13	40	41	7H	104.30		wear		24		
13	40	41	7H	134.14		wear		28		
13	40	63	7H	134.69		wear		15		
13	41	28	2C	-0.27		thin		32		
13	41	32	1H	0.10		SAI	OD			
13	41	50	7H	137.95		wear		24		
13	41	50	7H	70.27		wear		16		
13	41	50	7H	106.37		wear		16		
13	41	52	7H	70.36		wear		11		
13	41	52	7H	106.52		wear		10		
13	41	61	7H	69.65		wear		11		
13	41	63	2H	0.01		SAI	OD			
13	42	28	2C	-0.19		thin		15		
13	42	32	2C	-0.19		thin		9		
13	42	41	7H	109.37		wear		11		
13	42	45	7H	72.12		wear		12		
13	42	45	7H	109.31		wear		12		
13	43	36	2C	-0.22		thin		15		
13	43	37	2C	-0.17		thin		14		
13	43	57	7H	37.50		wear		11		
13	43	59	7H	110.80		wear		10		
13	43	64	1C	-0.20		thin		37		
13	45	43	2C	-0.11		thin		0		
14	1	6							Plugged	Preventive plugging/UB data quality
14	1	16							Plugged	Preventive plugging/UB data quality
14	1	20							Plugged	Preventive plugging/UB data quality
14	1	56							Plugged	Preventive plugging/UB data quality
14	1	60							Plugged	Preventive plugging/UB data quality
14	1	68	7H	10.05		SCI	ID		Plugged	
14	1	78							Plugged	Preventive plugging/UB data quality
14	1	83							Plugged	Preventive plugging/UB data quality
14	2	17							Plugged	Preventive plugging/UB data quality
14	2	29							Plugged	Preventive plugging/UB data quality
14	2	68	1H	-0.21		SCI	OD		Plugged	
14	2	92	1C	-0.23		thin		14		
14	3	47	1H	0.00		SAI	OD			
14	4	3	1C	-0.20		thin		0		
14	4	3	2C	-0.09		thin		9		
14	4	6	3H	-0.02		SAI	OD			
14	5	78	3H	-0.10		SAI	OD			
14	6	3	2C	-0.24		thin		8		
14	7	40	1H	-0.06		SAI	OD		Plugged	
14	8	29	1H	-0.05		SAI	OD			
14	9	2	2C	-0.20		thin		30		
14	9	5	2C	0.10		thin		13		
14	9	9	3H	-0.09		SAI	OD			
14	9	20	1H	-0.01		SAI	OD		Plugged	
14	9	55	1H	-0.14		SAI	OD			

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
14	11	3	2C	-0.10		thin		15		
14	11	19	3H	-0.09		SAI	OD			
14	11	25	1H	0.05		SAI	OD			
14	11	53	1H	-0.18		SAI	OD			
14	12	14	3H	0.01		SAI	OD			
14	12	72	1H	0.02		SAI	OD			
14	13	6	2H	0.01		SAI	OD			
14	14	34	1H	-0.03		SAI	OD			
14	14	36	1H	0.09		SAI	OD			
14	15	85	1H	-0.11		SAI	OD			
14	16	66	1H	-0.09		SAI	OD			
14	17	4	2C	-0.23		thin		10		
14	17	6	2C	-0.12		thin		3		
14	17	24	1H	0.29	0.36	SAI	ID	20		
14	17	32	1H	-0.12		SAI	OD			
14	18	6	2C	-0.07		thin		20		
14	19	32	1H	-0.02		SAI	OD			
14	20	25	1H	-0.69	-0.52	SAI	ID	20		
14	21	70	3H	-0.41	-0.31	SAI	ID	48	Plugged	
14	21	76	1H	-0.15	-0.01	SAI	ID	34		
14	21	84	1H	-0.11	0.07	SAI	ID	31		
14	23	7	TSH	-7.44	-7.30	SAI	ID			
14	24	13	2C	-0.21		thin		0		
14	24	62	1H	0.03		SAI	OD			
14	24	75	1H	0.16		SAI	OD			
14	25	26	2H	-0.04		SAI	OD			
14	26	56	7H	87.64		wear		25		
14	26	61	7H	31.76		wear		10		
14	27	11	2C	-0.11		thin		27		
14	27	12	2C	-0.05		thin		19		
14	27	34	1H	-0.13		SAI	OD			
14	27	36	4H	-0.13		SAI	OD			
14	27	76	7H	48.42		wear		12		
14	27	76	7H	70.88		wear		10		
14	28	12	2C	-0.07		thin		27		
14	28	51	7H	71.43		wear		40	Plugged	
14	28	51	7H	52.71		wear		17	Plugged	
14	28	51	7H	50.58		wear		17	Plugged	
14	28	51	7H	33.17		wear		18	Plugged	
14	28	57	TSH	-2.44	-2.30	SAI	ID			
14	28	57	TSH	-5.80	-5.64	SAI	ID			
14	29	34	7H	32.20		wear		18		
14	29	34	7H	75.58		wear		18		
14	29	34	7H	96.01		wear		27		
14	29	57	2H	-0.09		SAI	OD			
14	30	52	1H	0.03		SAI	OD		Plugged	
14	30	59	1H	-0.18		SAI	OD			
14	31	34	7H	54.07		wear		22		
14	31	34	7H	80.48		wear		27		
14	31	34	7H	102.88		wear		20		
14	31	42	7H	35.87		wear		15		
14	31	42	7H	56.35		wear		10		
14	31	47	7H	101.52		wear		11		
14	31	55	7H	54.41		wear		22		

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
14	31	55	7H	79.09		wear		27		
14	31	64	7H	53.78		wear		10		
14	31	67	7H	80.71		wear		24		
14	31	67	7H	107.66		wear		16		
14	31	72	7H	107.56		wear		14		
14	32	36	7H	35.41		wear		12		
14	32	36	7H	56.41		wear		27		
14	32	43	7H	103.04		wear		23		
14	33	16	2C	-0.18		thin		1		
14	33	33	7H	109.94		wear		13		
14	33	53	7H	35.31		wear		13		
14	33	55	1H	-0.01		SAI	OD			
14	33	58	1H	-0.04		SAI	OD			
14	34	16	2C	-0.23		thin		33		
14	34	53	1H	-0.01		SAI	OD			
14	34	67	1H	-0.04		SAI	OD			
14	35	18	2C	-0.23		thin		18	Plugged	
14	35	18	1C	0.16		thin		41	Plugged	
14	35	20	2C	-0.16		thin		25		
14	35	21	2C	-0.16		thin		23		
14	35	22	2C	-0.11		thin		16		
14	35	36	2H	0.14	0.28	SAI	ID	20		
14	35	44	7H	36.97		wear		31		
14	35	53	7H	60.32		wear		29		
14	35	53	7H	121.26		wear		15		
14	35	56	3H	-0.16	-0.06	SAI	ID	25		
14	35	56	3H	0.01	0.08	SAI	ID	20		
14	35	58	7H	33.50		wear		18		
14	35	58	7H	59.64		wear		37		
14	35	58	7H	89.96		wear		13		
14	35	61	2H	-0.11	0.01	SAI	ID	22		
14	35	65	7H	35.92		wear		22		
14	35	65	7H	59.71		wear		32		
14	35	65	7H	89.90		wear		24		
14	35	66	7H	36.55		wear		13		
14	35	66	7H	60.14		wear		26		
14	35	66	7H	90.13		wear		19		
14	35	68	3H	-0.17	0.01	SAI	ID	35		
14	36	19	2C	-0.18		thin		18		
14	36	46	7H	119.24		wear		25		
14	36	47	1H	0.17		SAI	OD			
14	36	52	7H	124.66		wear		21		
14	36	52	7H	92.27		wear		32		
14	36	52	7H	63.37		wear		24		
14	36	57	7H	34.09		wear		21		
14	36	57	7H	61.47		wear		18		
14	36	59	7H	93.44		wear		11		
14	36	61	7H	124.12		wear		20		
14	36	61	7H	123.10		wear		20		
14	36	61	7H	93.64		wear		22		
14	36	61	7H	62.55		wear		30		
14	37	53	7H	37.51		wear		22		
14	37	53	7H	64.10		wear		14		
14	37	53	7H	94.61		wear		33		

Table 2
Location and Percent Through-Wall of Indications Identified During 1R10

SG	Row	Col	Location	Inch	Inch2	Ind	ID/OD	%TW	Repair Status	Notes
14	37	53	7H	127.77		wear		13		
14	37	54	7H	94.95		wear		10		
14	37	66	7H	37.90		wear		11		
14	37	66	7H	63.27		wear		14		
14	37	66	7H	95.24		wear		8		
14	38	21	2C	-0.19		thin		16		
14	38	23	2C	-0.25		thin		40	Plugged	
14	38	62	7H	130.31		wear		12		
14	38	69	2H	-0.02	0.09	SAI	ID	28		
14	39	23	2C	-0.16		thin		12		
14	39	48	3H	0.04	0.24	SAI	ID	20		
14	39	58	7H	36.71		wear		11		
14	39	58	7H	100.18		wear		26		
14	39	58	7H	133.56		wear		14		
14	39	58	TSH	-5.95	-5.82	SAI	ID			
14	39	58	1H	-0.01	0.32	SAI	ID	20		
14	39	66	1H	0.00		SAI	OD			
14	39	66	2H	-0.01		SAI	OD			
14	40	63	7H	67.73		wear		20		
14	40	63	7H	102.83		wear		12		
14	40	64	1H	0.07		SAI	OD			
14	40	64	7H	68.82		wear		23		
14	40	64	7H	104.16		wear		33		
14	40	66	7H	102.61		wear		16		
14	41	63	7H	105.69		wear		17		
14	42	30	1H	-0.13		SAI	OD		Plugged	
14	42	59	7H	143.11		wear		11		
14	42	61	7H	70.79		wear		30		
14	43	37	7H	72.48		wear		12		
14	43	46	7H	143.79		wear		10		
14	43	56	7H	146.36		wear		32		
14	43	56	7H	110.70		wear		27		
14	43	56	7H	146.76		wear		21		
14	43	57	7H	110.31		wear		31		
14	43	57	7H	145.62		wear		29		
14	43	59	7H	110.13		wear		11		
14	43	65	7H	109.57		wear		29		
14	44	34	2C	-0.18		thin		9		
14	44	57	2C	-0.09		thin		0		
14	44	58	7H	74.25		wear		11		
14	45	58	2C	-0.16		thin		29		
14	45	58	7H	115.71		wear		18		
14	46	42	1H	-0.31	0.03	SAI	ID	31		
14	46	44	1H	0.01		SAI	OD			