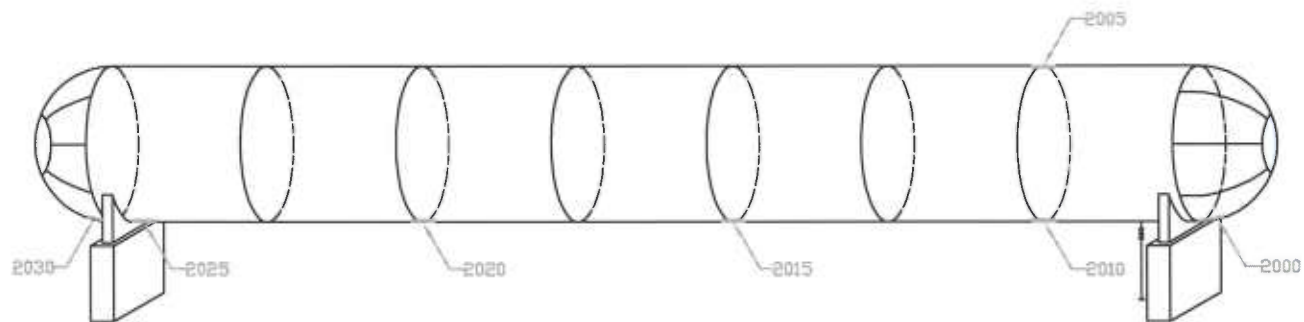




66005063

S2A
Butane Storage Bullet
Reg. No. :A 84682
Built :1968
Design :92 PSI @ 150 F
Size :120" ID x 70'
J.E. :85 %
C.A. :0
Shell :.375 SA 515.70
Head :.250 SA 515.70

Husky Energy Inc.
Sylvan Lake Gas Plant
1-21-38-2W5

Locations: 2000 - 2030

ULTRATEST NDT Services Inc.

By: ML Date: 9/01 Dwg: 20

Index : 20 S2A Butane Storage Bullet

Reg. # : A 84682

Item : 2000 V-BAND ON BOTTOM SOUTH HEAD

Dwg. # : 20

Service : 6 Butane

MWP : 92 PSI @ 150 F'

Nominal thickness : .250

Critical : .186

Material : SA 515.70

INSPECTION DATES	Jul 1990	Jun 1993	Oct 1996	Sep 2001
Temperatures F'	60	50	50	50
Probe selection	1	1	1	1

Total Loss (Mils)	Total Loss %	Avg. Loss MPY	Period Loss MPY
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Top	1	.343*	.352	.349*	.350*
	2	.343*	.350*	.349*	.350*
	3	.343*	.350*	.349*	.350*
	4	.343*	.350*	.349*	.350*
	5	.343*	.350*	.349*	.350*
	6	.343*	.350*	.349*	.350*
	7	.346	.352	.352	.350*
	8	.348	.352	.354	.352
	9	.351	.352	.354	.352
	10	.356	.357	.357	.357
	11	.353	.359	.354	.359
Before weld	12	.356	.357	.357	.357

7+	.6+	.2+
7+	.6+	.2+
7+	.6+	.2+
7+	.6+	.2+
7+	.6+	.2+
7+	.6+	.2+
4+	.4+	.4*
4+	.4+	.4*
1+	.1+	.4*
1+	.1+	
6+	.5+	1.0+
1+	.1+	

Average Reading	.347	.353	.352	.352
Period Average Loss MPY		1.8+	.2	.1+
Period Maximum Loss MPY			1.5	.4
Life Expectancy (Years)				

Index : 20 S2A Butane Storage Bullet Reg. # : A 84682
 Item : 2005 H-BAND ON TOP SHELL (circ. weld 2) Dwg. # : 20
 Service : 6 Butane MWP : 92 PSI @ 150 F'

Nominal thickness : .375
 Critical : .372
 Material : SA 515.70

INSPECTION DATES	Jul 1990	Oct 1996	Sep 2001
Temperatures F'	60	50	50
Probe selection	1	1	1

Total Loss (Mils)	Total Loss %	Avg. Loss MPY	Period Loss MPY

North	1	.396*	.397*	.397
	2	.406	.397*	.397
After support	3	.409	.399	.393*
	4	.404	.397*	.395
	5	.398	.399	.399
After weld	6	.406	.402	.400
	7	.416	.414	.414
	8	.409	.412	.412
	9	.411	.412	.410
	10	.414	.409	.408
South	11	.421	.420	.410
	12	.416	.415	.415

1+	.1+	
9	.8	
16*	1.4*	1.2
9	.8	.4
1+	.1+	
6	.5	.4
2	.2	
3+	.3+	
1	.1	.4
6	.5	.2
11	1.0	2.0*
1	.1	

Average Reading	.409	.406	.404
Period Average Loss MPY		.4	.4
Period Maximum Loss MPY		1.6	2.0
Life Expectancy (Years)		16.9	19.0

Index : 20 S2A Butane Storage Bullet

Reg. # : A 84682

Item : 2010 H-BAND ON BOTTOM SHELL (circ. weld 2)

Dwg. # : 20

Service : 6 Butane

MWP : 92 PSI @ 150 F'

Nominal thickness : .375

Critical : .372

Material : SA 515.70

INSPECTION DATES	Jul 1990	Jun 1993	Oct 1996	Sep 2001
Temperatures F'	60	50	50	50
Probe selection	1	1	1	1

Total Loss (Mils)	Total Loss %	Avg. Loss MPY	Period Loss MPY

North	1	.396	.394	.394	.394
	2	.401	.392	.392	.392
After support	3	.388	.389*	.392	.390
	4	.393	.394	.392	.392
	5	.388	.392	.392	.390
	6	.383*	.389*	.390*	.387*
After weld	7	.401	.402	.397	.397
	8	.401	.400	.399	.399
	9	.398	.402	.402	.397
	10	.401	.402	.402	.400
	11	.404	.402	.405	.400
	12	.406	.402	.405	.402
South					

2	.2	
9*	.8*	
2+	.2+	.4
1	.1	
2+	.2+	.4
4+	.4+	.6
4	.4	
2	.2	
1	.1	1.0*
1	.1	.4
4	.4	1.0*
4	.4	.6

Average Reading	.397	.397	.397	.395
Period Average Loss MPY			.1+	.4
Period Maximum Loss MPY		3.1	1.5	1.0
Life Expectancy (Years)		6.5	16.7	28.0

Index : 20 S2A Butane Storage Bullet Reg. # : A 84682

Item : 2015 H-BAND ON BOTTOM SHELL (circ. weld 4) Dwg. # : 20

Service : 6 Butane MWP : 92 PSI @ 150 F'

Nominal thickness : .375

Critical : .372

Material : SA 515.70

INSPECTION DATES	Jul 1990	Jun 1993	Oct 1996	Sep 2001
Temperatures F'	60	50	50	50
Probe selection	1	1	1	1

Total Loss (Mils)	Total Loss %	Avg. Loss MPY	Period Loss MPY
3		.3	.8*
1+		.1+	
8*		.7*	.8*
1		.1	.4
1		.1	.4
1		.1	
11+		1.0+	
4+		.4+	.6
2+		.2+	
			.8*
2+		.2+	
4+		.4+	

North	1	.396	.394	.397	.393
	2	.396	.400	.397	.397
	3	.401	.394	.397	.393
	4	.396	.397	.397	.395
	5	.396	.397	.397	.395
	6	.398	.397	.397	.397
After weld	7	.383*	.387*	.394	.394
	8	.383*	.387*	.390*	.387*
	9	.388	.389	.390*	.390
	10	.393	.392	.397	.393
After support	11	.388	.389	.390*	.390
	12	.386	.389	.390*	.390

Average Reading	.392	.393	.394	.393
Period Average Loss MPY		.2+	.5+	.3
Period Maximum Loss MPY		2.4	.9	.8
Life Expectancy (Years)		9.2	27.8	26.3

Index : 20 S2A Butane Storage Bullet

Reg. # : A 84682

Item : 2020 H-BAND ON BOTTOM SHELL (circ. weld 6)

Dwg. # : 20

Service : 6 Butane

MWP : 92 PSI @ 150 F'

Nominal thickness : .375

Critical : .372

Material : SA 515.70

INSPECTION DATES	Jul 1990	Jun 1993	Oct 1996	Sep 2001
Temperatures F'	60	50	50	50
Probe selection	1	1	1	1

Total Loss (Mils)	Total Loss %	Avg. Loss MPY	Period Loss MPY
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North	1	.386	.392	.390	.387
	2	.386	.387	.387	.387
	3	.388	.394	.394	.387
	4	.388	.392	.390	.390
	5	.383	.387	.390	.387
	6	.391	.389	.390	.387
After weld	7	.381	.384	.377*	.377
	8	.381	.384	.379	.375*
	9	.383	.384	.379	.379
	10	.378*	.382*	.379	.379
	11	.381	.384	.382	.380
South	12	.378*	.382*	.382	.382

1+	.1+	.6
1+	.1+	
1	.1	1.4*
2+	.2+	
4+	.4+	.6
4	.4	.6
4	.4	
6*	.5*	.8
4	.4	
1+	.1+	
1	.1	.4
4+	.4+	

Average Reading	.384	.387	.385	.383
Period Average Loss MPY		1.1+	.6	.4
Period Maximum Loss MPY		.7	2.1	1.4
Life Expectancy (Years)		24.3	2.4	10.7

Index : 20 S2A Butane Storage Bullet Reg. # : A 84682

Item : 2025 H-BAND ON BOTTOM NORTH SHELL Dwg. # : 20

Service : 6 Butane MWP : 92 PSI @ 150 F'

Nominal thickness : .375

Critical : .372

Material : SA 515.70

INSPECTION DATES	Jul 1990	Jun 1993	Oct 1996	Sep 2001
Temperatures F'	60	50	50	50
Probe selection	1	1	1	1

Total Loss (Mils)	Total Loss %	Avg. Loss MPY	Period Loss MPY
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After weld	1	.391	.397	.390*	.390*
	2	.398	.392	.392	.392
	3	.391	.394	.390*	.390*
	4	.388*	.389*	.390*	.390*
	5	.391	.392	.390*	.390*
	6	.391	.392	.390*	.390*
	7	.388*	.392	.390*	.390*
	8	.391	.392	.390*	.390*
	9	.393	.392	.390*	.390*
	10	.391	.392	.390*	.390*
	11	.391	.394	.390*	.390*
South	12	.388*	.389*	.390*	.390*

1	.1
6*	.5*
1	.1
2+	.2+
1	.1
1	.1
2+	.2+
1	.1
3	.3
1	.1
1	.1
2+	.2+

Average Reading	.391	.392	.390	.390
Period Average Loss MPY		.4+	.6	
Period Maximum Loss MPY		2.1	2.1	
Life Expectancy (Years)		9.5	8.6	

Index : 20 S2A Butane Storage Bullet

Reg. # : A 84682

Item : 2030 V-BAND ON BOTTOM NORTH HEAD

Dwg. # : 20

Service : 6 Butane

MWP : 92 PSI @ 150 F'

Nominal thickness : .250

Critical : .186

Material : SA 515.70

INSPECTION DATES	Jul 1990	Jun 1993	Oct 1996	Sep 2001
Temperatures F'	60	50	50	50
Probe selection	1	1	1	1

Total Loss (Mils)	Total Loss %	Avg. Loss MPY	Period Loss MPY
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Top	1	.338	.345	.342	.342
	2	.336	.342	.342	.342
	3	.336	.345	.342	.342
	4	.336	.340	.342	.342
	5	.336	.342	.339	.339
	6	.336	.342	.339	.337
	7	.336	.342	.337	.337
	8	.336	.340	.337	.337
	9	.331	.335*	.334*	.334
	10	.328*	.335*	.334*	.334
Before weld	11	.328*	.335*	.334*	.334
	12	.333	.335*	.334*	.333*

4+	.4+	
6+	.5+	
6+	.5+	
6+	.5+	
3+	.3+	
1+	.1+	.4*
1+	.1+	
1+	.1+	
3+	.3+	
6+	.5+	
6+	.5+	
		.2

Average Reading	.334	.340	.338	.338
Period Average Loss MPY		2.0+	.6	.1
Period Maximum Loss MPY			1.5	.4
Life Expectancy (Years)				