

APACHE CORPORATION  
 CHINCHAGA GAS PLANT #2 - (113)  
 01-24-096-05W6M - (01)

**TEAM Industrial Services**

Item Desc.:	DE-ETHANIZER TOWER		Lsd:	01-24-096-05W6M	
Prov. Reg.:	A0179819	Equip. No.:	E-15	Ser. No.:	82-1164
SKID No.:		PSV No.:		Last VE Date:	

Description: 6"90L T-B

**TML: 014-05**

Nominal:	7.100	<u>C.A. as per</u>	C.A. L.F.L.:	0.888	Con't Service:	YES
t Min.:	--	ASTM	L.F.L.:	6.212	Insp. Intv.:	60
C.A. Calc.:	--		Mths.To L.F.L.:	120	Add'l Assm't:	NO

Survey Dates: 1999-11-01 2005-04-01

Reading 01:	7.300	7.100
Reading 02:	7.100	7.000
Reading 03:	7.200	7.000
Reading 04:	7.200	7.100
Reading 05:	7.100	7.000
Reading 06:	7.200	7.000
Reading 07:	7.200	7.000
Reading 08:	7.200	7.100

Data Evaluation:

Lowest Reading	7.100	7.000
Average - Low 3	7.133	7.000
Thk.Rem. Above LFL	0.888	0.788
Indv. Short Term Rate (mm/yr)		0.037
Short Term Rate (mm/yr)		0.025
LongTerm Rate (mm/yr)		

Comments:

2011/02 - OUT OF SERVICE, NO RDGS TAKEN

Description: WEST HEAD T-B

**TML: 014-10**

Nominal:	8.300	<u>C.A. as per</u>	C.A. L.F.L.:	1.600	Con't Service:	YES
t Min.:	6.700	Design	L.F.L.:	6.700	Insp. Intv.:	60
C.A. Calc.:	1.600		Mths.To L.F.L.:	120	Add'l Assm't:	NO

Survey Dates: 1999-11-01 2005-04-01

Reading 01:	9.500	9.300
Reading 02:	9.700	9.500
Reading 03:	10.000	9.800
Reading 04:	9.800	9.700
Reading 05:	9.700	9.700
Reading 06:	9.800	9.700

Data Evaluation:

Lowest Reading	9.500	9.300
Average - Low 3	9.633	9.500
Thk.Rem. Above LFL	2.800	2.600
Indv. Short Term Rate (mm/yr)		0.037
Short Term Rate (mm/yr)		0.025
LongTerm Rate (mm/yr)		

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SKID No.:		PSV No.:		Last VE Date:	

Description: WEST CHAN. T-B

**TML: 014-15**

		<u>C.A. as per</u>				
Nominal:	8.300		Design	C.A. L.F.L.:	1.600	Con't Service: YES
t Min.:	6.700			L.F.L.:	6.700	Insp. Intv. 12
C.A. Calc.:	1.600			Mths.To L.F.L.:	48	Add'l Assm't: NO

Survey Dates:                    1999-11-01   2005-04-01

Reading 01:	9.500	9.300
Reading 02:	9.500	9.300
Reading 03:	9.700	9.500
Reading 04:	9.700	9.500
Reading 05:	9.700	9.500
Reading 06:	9.700	9.500

Data Evaluation:

Lowest Reading	9.500	9.300
Average - Low 3	9.567	9.367
Thk.Rem. Above LFL	2.800	2.600
Indv. Short Term Rate (mm/yr)		0.037
Short Term Rate (mm/yr)		0.037
LongTerm Rate (mm/yr)		

Description: CONE T-B

**TML: 014-20**

		<u>C.A. as per</u>				
Nominal:	14.300		Design	C.A. L.F.L.:	1.600	Con't Service: YES
t Min.:	12.700			L.F.L.:	12.700	Insp. Intv. 12
C.A. Calc.:	1.600			Mths.To L.F.L.:	48	Add'l Assm't: NO

Survey Dates:                    1999-11-01   2005-04-01

Reading 01:	16.700	16.500
Reading 02:	16.500	16.500
Reading 03:	16.500	16.400
Reading 04:	16.500	16.400
Reading 05:	16.400	16.400
Reading 06:	16.400	16.300

Data Evaluation:

Lowest Reading	16.400	16.300
Average - Low 3	16.433	16.367
Thk.Rem. Above LFL	3.700	3.600
Indv. Short Term Rate (mm/yr)		0.037
Short Term Rate (mm/yr)		0.012
LongTerm Rate (mm/yr)		

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Prov. Reg.:	A0179819	Equip. No.:	E-15	Ser. No.:	82-1164
SKID No.:		PSV No.:		Last VE Date:	

Description: WEST UPPER SHELL T-B

**TML: 014-25**

		<u>C.A. as per</u>			
Nominal:	14.300		C.A. L.F.L.:	1.600	Con't Service: YES
t Min.:	12.700	Design	L.F.L.:	12.700	Insp. Intv. 12
C.A. Calc.:	1.600		Mths.To L.F.L.:	48	Add'l Assm't: NO

Survey Dates:                      1999-11-01   2005-04-01

Reading 01:	16.600	16.500
Reading 02:	16.500	16.400
Reading 03:	16.600	16.500
Reading 04:	16.400	16.300
Reading 05:	16.800	16.600
Reading 06:	16.700	16.600

Data Evaluation:

Lowest Reading	16.400	16.300
Average - Low 3	16.500	16.400
Thk.Rem. Above LFL	3.700	3.600
Indv. Short Term Rate (mm/yr)		0.037
Short Term Rate (mm/yr)		0.018
LongTerm Rate (mm/yr)		

Description: BTM.SHELL W-E

**TML: 014-30**

		<u>C.A. as per</u>			
Nominal:	14.300		C.A. L.F.L.:	1.600	Con't Service: YES
t Min.:	12.700	Design	L.F.L.:	12.700	Insp. Intv. 12
C.A. Calc.:	1.600		Mths.To L.F.L.:	48	Add'l Assm't: NO

Survey Dates:                      1999-11-01   2005-04-01

Reading 01:	16.600	16.500
Reading 02:	16.400	16.400
Reading 03:	16.600	16.400
Reading 04:	16.500	16.400
Reading 05:	16.500	16.400
Reading 06:	16.400	16.400

Data Evaluation:

Lowest Reading	16.400	16.400
Average - Low 3	16.433	16.400
Thk.Rem. Above LFL	3.700	3.700
Indv. Short Term Rate (mm/yr)		0.037
Short Term Rate (mm/yr)		0.006
LongTerm Rate (mm/yr)		

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**TEAM Industrial Services**

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Prov. Reg.:	A0179819	Equip. No.:	E-15	Ser. No.:	82-1164
SKID No.:		PSV No.:		Last VE Date:	

Description: EAST LOWER SHELL T-B

**TML: 014-35**

		<u>C.A. as per</u>		
Nominal:	14.300		C.A. L.F.L.:	1.600
t Min.:	12.700	Design	L.F.L.:	12.700
C.A. Calc.:	1.600		Mths.To L.F.L.:	120
			Con't Service:	YES
			Insp. Intv.:	60
			Add'l Assm't:	NO

<u>Survey Dates:</u>	<u>1999-11-01</u>	<u>2005-04-01</u>
Reading 01:	17.900	17.800
Reading 02:	18.000	18.000
Reading 03:	18.100	18.100
Reading 04:	18.200	18.200
Reading 05:	18.400	18.300
Reading 06:	18.400	18.300

Data Evaluation:

Lowest Reading	17.900	17.800
Average - Low 3	18.000	17.967
Thk.Rem. Above LFL	5.200	5.100
Indv. Short Term Rate (mm/yr)		0.018
Short Term Rate (mm/yr)		0.006
LongTerm Rate (mm/yr)		

Comments:

RDGS.CONFIRMED

Description: EAST HEAD T-B

**TML: 014-40**

		<u>C.A. as per</u>		
Nominal:	14.300		C.A. L.F.L.:	1.600
t Min.:	12.700	Design	L.F.L.:	12.700
C.A. Calc.:	1.600		Mths.To L.F.L.:	120
			Con't Service:	YES
			Insp. Intv.:	60
			Add'l Assm't:	NO

<u>Survey Dates:</u>	<u>1999-11-01</u>	<u>2005-04-01</u>
Reading 01:	16.600	16.500
Reading 02:	16.700	16.600
Reading 03:	16.600	16.500
Reading 04:	16.600	16.500
Reading 05:	16.400	16.400
Reading 06:	16.500	16.400

Data Evaluation:

Lowest Reading	16.400	16.400
Average - Low 3	16.500	16.433
Thk.Rem. Above LFL	3.700	3.700
Indv. Short Term Rate (mm/yr)		0.018
Short Term Rate (mm/yr)		0.012
LongTerm Rate (mm/yr)		

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Prov. Reg.: A0179819	Equip. No.: E-15
SKID No.	PSV No.:
	Ser. No.: 82-1164
	Last VE Date:

Description: 6"90L T-B

**TML: 014-45\***

Nominal:	7.100	<u>C.A. as per</u>	C.A. L.F.L.:	0.888	Con't Service: YES
t Min.:	--	ASTM	L.F.L.:	6.212	Insp. Intv. 60
C.A. Calc.:	--		Mths.To L.F.L.:	120	Add'l Assm't: NO

Survey Dates: 1999-11-01 2005-04-01

Reading 01:	6.900	6.800
Reading 02:	7.100	7.000
Reading 03:	7.300	7.100
Reading 04:	7.300	7.100
Reading 05:	7.200	7.100
Reading 06:	7.300	7.100

Data Evaluation:

Lowest Reading	6.900	6.800
Average - Low 3	7.067	6.967
Thk.Rem. Above LFL	0.688	*0.588
Indv. Short Term Rate (mm/yr)		0.037
Short Term Rate (mm/yr)		0.018
LongTerm Rate (mm/yr)		

Comments:

6 RDGS. ONLY WITH HOT PROBE  
 INSPECTED HOT

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