

66172348

Imperial Oil Resources – ExxonMobil Canada Ltd.

STATIC EQUIPMENT INSPECTION REPORT

Item Inspected:	INLET SEPERATOR
Location:	PINE CREEK 6-22-57-20-W5M
ABSA #:	A-483171
CRN #:	P-8150.2
Serial #:	7751-03
SAP #:	
IORL#:	PID-011
Damage Code:	
AITEC Job #:	5301-6845

	PSV PIPING	PSV
PSV #:	84 PSV 1111	
Service Date:	08 / 2009	
Set Press:	1378 PSI	
Capacity:	8930 SCFM	
Serial #:	428828-4-A10	

MAWP: (Shell)	1480 PSI	@	100 °F
(Tube)		@	°

Inspection requested by: WILBUR SCHUTTE

Inspection date: AUG 13, 2009

Inspection performed by: ROGER LORENSON

Inspector's Certification: API 510 26153 / ABSA 000212

Chief Inspector & In-Service Cert. #:

Inspection Interval: 6 YRS

Remedial ActionAccess & CoverageOtherShell
☐ top
☐ bottom

- ☒ no action required
☐ coating/lining repairs
☐ coating / lining
☐ repair weld - S.R.
☐ repair weld - no S.R.
☐ ground out
☐ replaced
☐ monitor

- ☐ poor cleaning
☒ adequately cleaned
☒ internal inspection
☐ partial int. inspection
☒ external inspection
☐ NDE inspection
☐ internal visual + NDE
☐ Installation Inspection

- ☒ see comments
☐ baffle / weir damage
☐ support ring damage
☐ flange corrosion
☐ burner misaligned
☐ bolting damage
☐ downcomer corrosion
☐ valve caps missing

- ☒ good condition
☐ external corrosion
☐ internal corrosion
☐ pitted - light
☐ pitted - severe
☐ scaled - light
☐ scaled - heavy
☐ blistered

NozzlesExternal ProtectionWeldsSupports

- ☒ good condition
☐ internal corrosion
☐ cracked
☐ scaled
☐ plugged
☐ poor welding
☐ leaking

- ☐ good condition
☐ fireproofing cracked
☐ insulation damaged
☒ paint deteriorated MINOR
☐ corrosion under insulation (CUI)

- ☒ good condition
☐ corroded
☐ cracked
☐ broken
☐ poor quality

- ☒ good condition
☐ distorted
☐ cracked
☐ broken
☐ poor installation
☐ bolts missing/loose

Heads
☐ top
☒ right E
Heads
☐ bottom
☒ left W
Internal Protection
☐ coating
☐ lining
NONE

- ☒ good condition
☐ external corrosion
☐ internal corrosion
☐ pitted - light
☐ pitted - severe
☐ scaled - light
☐ scaled - heavy
☐ blistered

- ☒ good condition
☐ external corrosion
☐ internal corrosion
☐ pitted - light
☐ pitted - severe
☐ scaled - light
☐ scaled - heavy
☐ blistered

- ☐ good condition
☐ blistered - light
☐ blistered - severe
☐ disbanded
☐ chipped
☐ holidays
☐ mechanical damage
☐ missing

AnodesNONE

- ☐ good condition
☐ dirty
☐ consumed 20%
☐ consumed 50%
☐ consumed 80% +
☐ missing

TEAM®

Industrial Services
Inspection Services Canada

STATIC EQUIPMENT INSPECTION REPORT - Continued

Demister Screen

CHEVRON VANE PACK

- ☒ good condition
- ☐ dirty
- ☐ dislodged
- ☐ broken
- ☐ missing
- ☐ tie-downs missing

Heating Coil

N/A

- ☐ good condition
- ☐ corrosion
- ☐ cracked
- ☐ scaled
- ☐ worn
- ☐ loose
- ☐ poor installation

Manways

- ☒ good condition
- ☐ coating damage
- ☐ internal corrosion
- ☐ mechanical damage

Trays

N/A

- ☐ good condition
- ☐ collapsed
- ☐ distorted (bent)
- ☐ loose
- ☐ missing
- ☐ wear
- ☐ corrosion
- ☐ poor installation

Firetubes

N/A

- ☐ good condition
- ☐ cracked
- ☐ corrosion
- ☐ scaled
- ☐ heat impinged
- ☐ coated
- ☐ wear

Tube Bundle

N/A

- ☐ good condition
- ☐ pitted - light
- ☐ pitted - severe
- ☐ scaled
- ☐ plugged
- ☐ damaged
- ☐ wear
- ☐ erosion

Tubesheet

N/A

- ☐ good condition
- ☐ general corrosion
- ☐ pitted - light
- ☐ pitted - severe
- ☐ erosion
- ☐ damaged

Channel Head

N/A

- ☐ good condition
- ☐ general corrosion
- ☐ pitted - light
- ☐ pitted - severe
- ☐ erosion
- ☐ scaled
- ☐ coated

Refractory

N/A

- ☐ good condition
- ☐ cracked (minor)
- ☐ spalled
- ☐ missing
- ☐ damaged
- ☐ badly cracked

Tube

N/A

- ☐ good condition
- ☐ external corrosion
- ☐ internal corrosion
- ☐ thinning
- ☐ bulged
- ☐ heat impinged
- ☐ distorted
- ☐ erosion

Drum

- ☐ mud
- ☐ steam

N/A

- ☐ good condition
- ☐ damaged internals
- ☐ internal corrosion
- ☐ cracking
- ☐ scaling

Floor

N/A

- ☐ external corrosion
- ☐ internal corrosion
- ☐ pitted - light
- ☐ pitted - severe
- ☐ edge settlement
- ☐ weld cracking
- ☐ sludge
- ☐ previous repairs

COMMENTS:

EXTERNAL

- Located inside building on elevated steel saddles, bolted 8x tight to top of D-012 vessel
- Nameplate secure and legible, silk screening peeling
- No direct ground found to vessel, indirect to skid unit
- Paint in fair condition, vessel appears to operate with high humidity / frosting on surface, random oxidation and paint deterioration at random throughout
- Lower sight glass fouled, upper clear
- Temp gauge appears functional
- Piping appears adequately supported except top inlet appears to have had a spec blinded after initial construction which has in turn lifted the piping off the original support, see pics
- Manway eyelet bolt single nutted, davit arm secure

COMMENTS cont'd:

INTERNAL

- Manway seal faces and nozzle neck in good condition
- Shell has no apparent corrosion pitting noted, minor loose oily film / sludge layer at 6:00 west of weir
- Weir straight and true
- No deformations noted on shell or head
- Vortex breaker in good condition and secure
- Chevron vane pack remove for inspection, appears clean and in good condition, 3 sections, supports intact and secure
- Inlet deflector bowl assembly intact, support secure, no deformation noted

RECOMMENDATIONS:

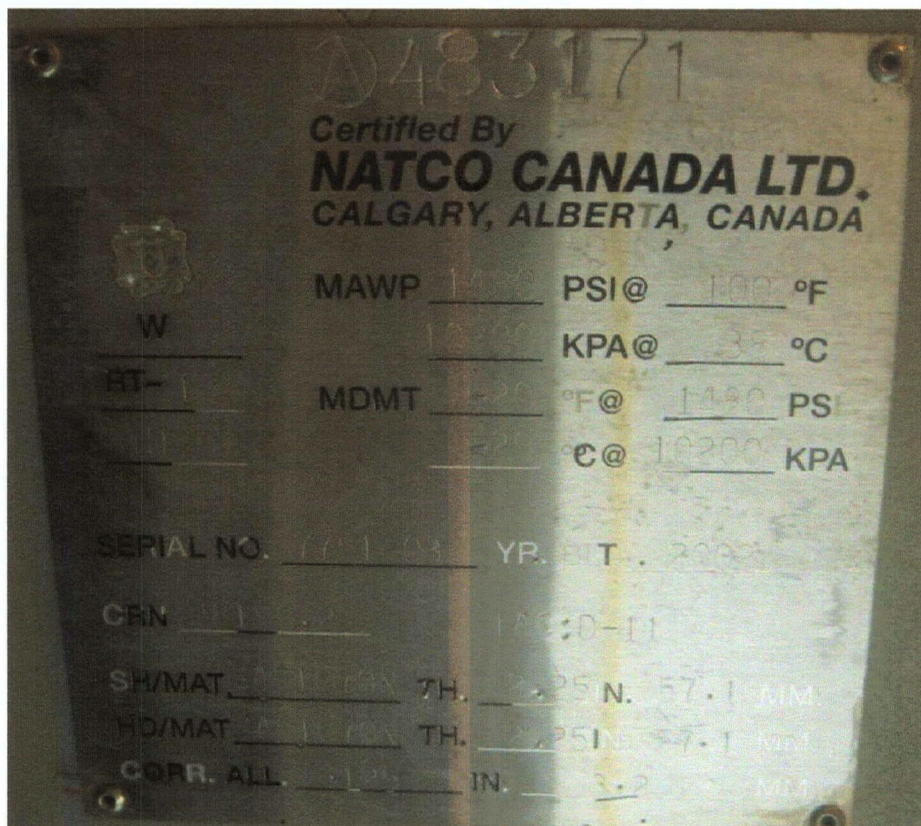
- Ensure top inlet piping is adequately supported on I-Beam frame
- Clean fouled lower sight glass
- Double nut manway eyelet bolt
- Acceptable for continued service

PICTURES:

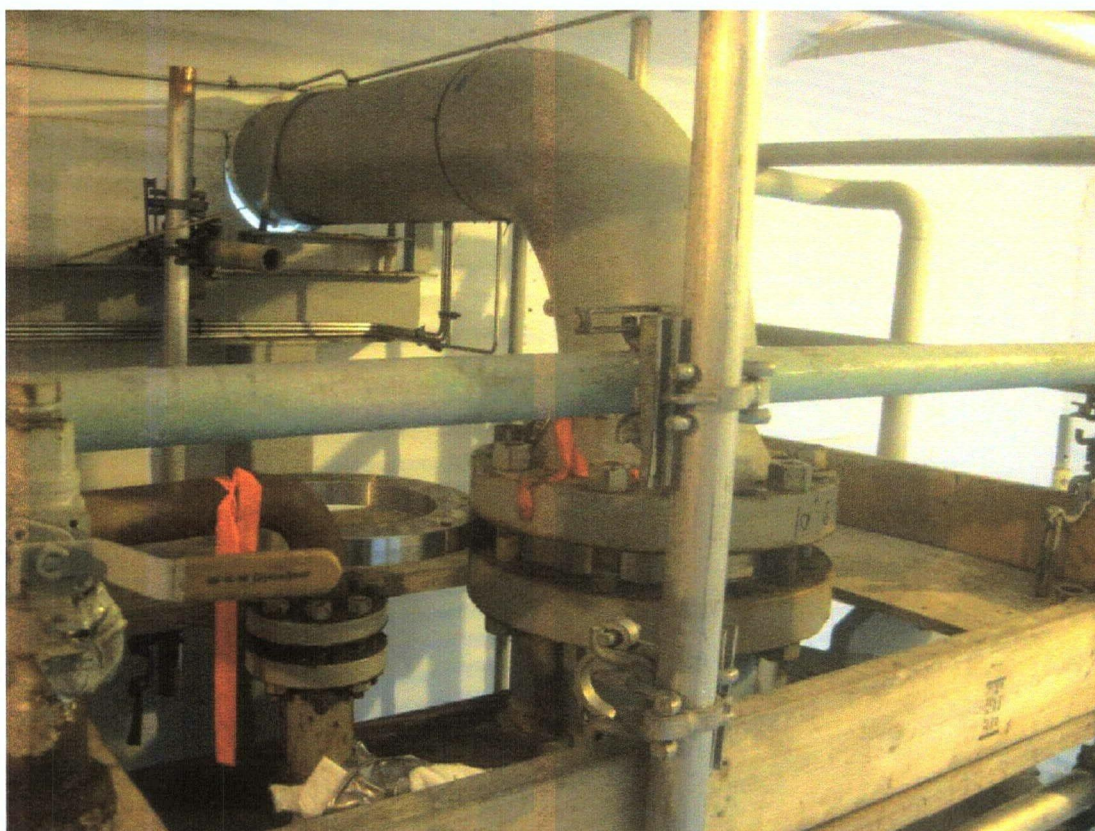


PID-011 INLET SEPERATOR

PICTURES:

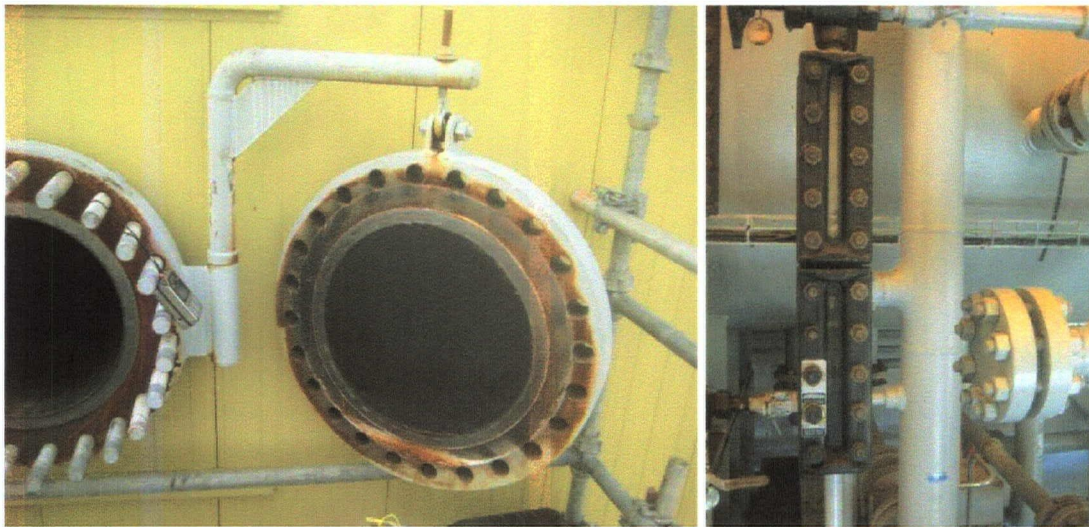


NAMEPLATE

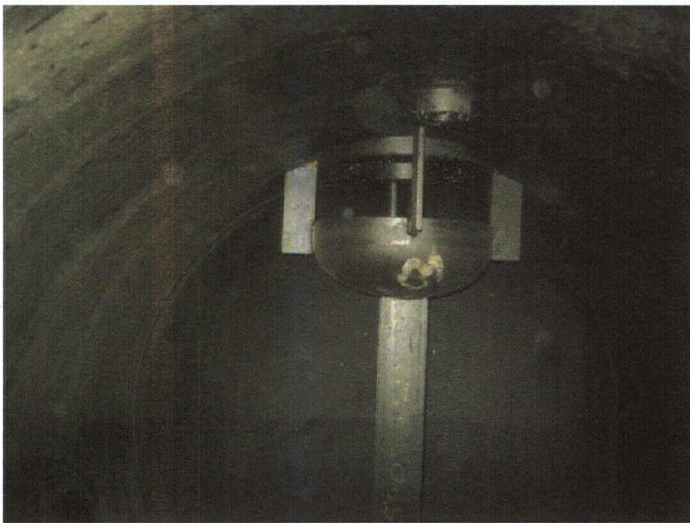


LOOSELY SUPPORTED INLET PIPING WITH SPEC BLIND A T LOWER LEFT

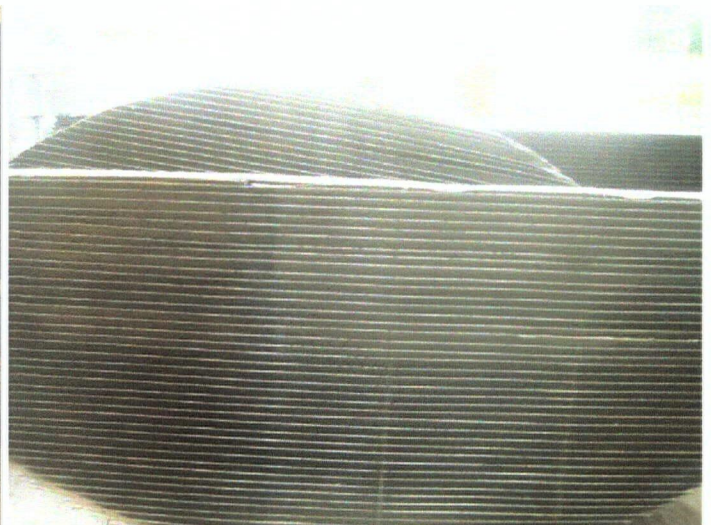
PICTURES:



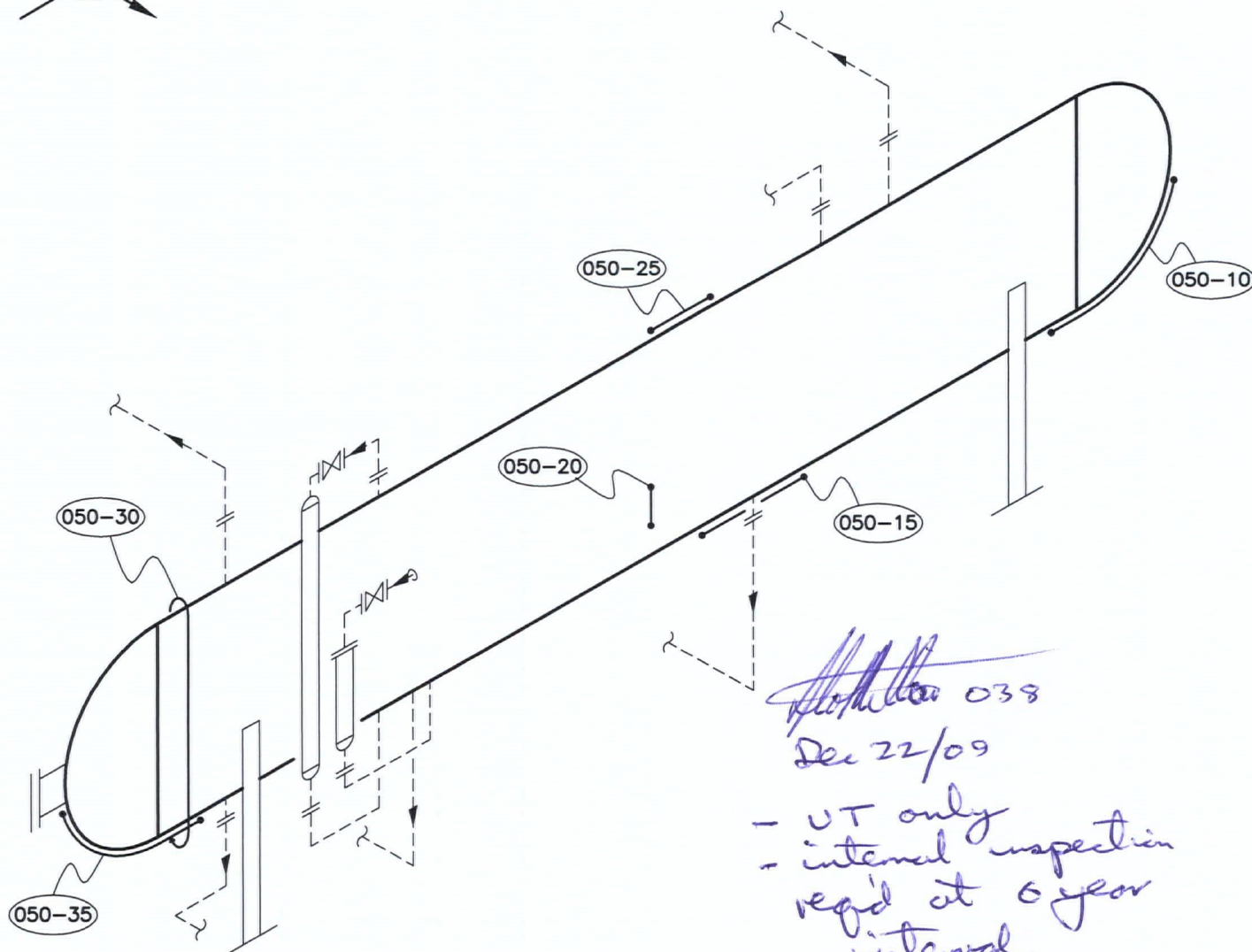
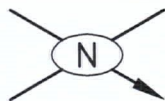
MANWAY EYELEY BOLT AND FOULED SIGHT GLASS



INLET DEFLECTOR AND VORTEX BREAKER



CHEVRON VANE PACK AS REMOVED

TEAM**Industrial Services**
Inspection Services CanadaP&ID. # _____
REF. # _____**VESSEL DATA**

P.E. No. N/S Serial No. 7751-03 Prov. Reg. No. A0483171 C.R.N. P8150.2
MFR. NATCO Code/Div. N/S Para N/S Code Stamp UW
Yr. Bld. 2002 Yr. Inst. N/S Size 72"DIA. X 168" Service SOUR PWHT YES
RT 1 Insulated NO

Nominal Thickness & Material

Head: 2.250" Mat'l: SA-516-70N C.A.: 0.125"
Head: _____
Shell: 2.250" SA-516-70N 0.125"
Shell: _____
Chan Hd: _____
Chan Sh: _____
Boot Hd: _____
Boot Sh: _____
MAWP Shell Side 1480PSI @ Temp. 100°F
MAWP Tube Side _____ @ Temp. _____

COMMENTS: _____

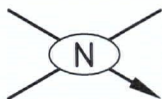
EXXON MOBIL
PINE CREEK COMPRESSOR STATION
LSO 06-22-057-20W5M**INLET SEPARATOR**

TECH.: A.C.	REV. DATE: 2009/08	DWG DATE: 2003/03
CAD: K.D.	REVISION: 1	DRAWING: 050

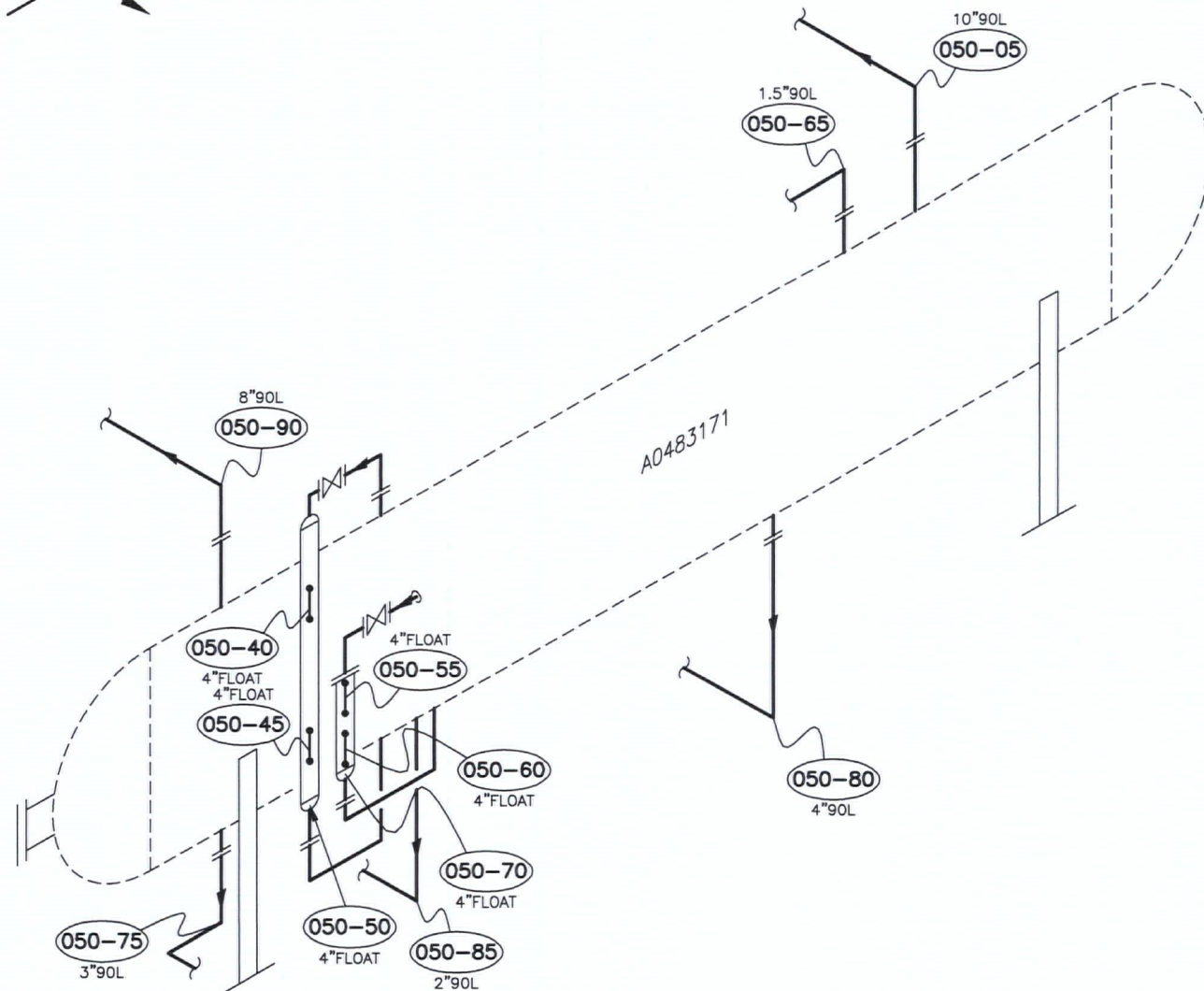
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P&ID # _____
REF. # _____



PIPING DATA

CORROSION MONITORING LOCATION:	SIZE	PROC.	LINE #	SPEC.	SCH.	NOM.THK.	ASTM		MIN.THK.	CAL.THK.	FLG. RATING
							* CORR. ALLW.	** CALCULATED CORR. ALLW.			
050-05	10"				80	0.594"	ASTM		0.520"		
050-40-60/70/80	4"				40	0.237"	ASTM		0.207"		
050-65	1.5"				80	0.200"	ASTM		0.175"		
050-75	3"				40	0.216"	ASTM		0.189"		
050-85	2"				80	0.218"	ASTM		0.191"		
050-90	8"				80	0.500"	ASTM		0.438"		

COMMENTS: 2009/08 - PLEASE CONFIRM LOCATION OF CML 075
AT NEXT SURVEY

EXXON MOBIL
PINE CREEK COMPRESSOR STATION
LSD 06-22-057-20W5M

INLET SEPARATOR PIPING

TECH.: A.C.	REV.DATE: 2009/08	DWG.DATE: 2003/03
CAD: K.D.	REVISION: 1	DRAWING: 050A

EXXON MOBIL
 PINE CREEK COMPRESSOR STATION - (007)
 AREA #1 - (01)

TEAM Industrial Services

Item Desc.: INLET SEPARATOR	Lsd: 06-22-057-20W5M
Prov. Reg.: A0483171	Equip. No.: -----
SKID No.	PSV No.: Last VE Date
Ser. No.: 7751-03	

Description: 10"90L T-B

CML: 050-05

Nominal:	0.594	C.A. as per	C.A. L.F.L.:	0.074	Con't Service:	YES
t Min.:	--	ASTM	L.F.L.:	0.520	Insp. Intv.	12
C.A. Calc.:	--		Mths.To L.F.L.:	48	Add'l Assm't:	NO

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	0.626	0.619	_____
Reading 02:	0.622	0.615	_____
Reading 03:	0.631	0.612	_____
Reading 04:	0.616	0.608	_____
Reading 05:	0.620	0.608	_____
Reading 06:	0.620	0.607	_____
Reading 07:	0.631	0.609	_____
Reading 08:	0.638	0.611	_____
Reading 09:	0.646	0.615	_____
Reading 10:	0.672	0.621	_____
Reading 11:	0.671	0.619	_____
Reading 12:	0.667	0.618	_____

Data Evaluation

Lowest Reading	:	0.616	0.607
Average - Low 3	:	0.619	0.608
Thk.Rem. Above LFL	:	0.096	0.087
Indv. Short Term Rate (in/yr)	:		0.008
Short Term Rate (in/yr)	:		0.002
LongTerm Rate (in/yr)	:		

Comments:

2009/08 - CML #050-30 ADDED.

EXXON MOBIL
PINE CREEK COMPRESSOR STATION - (007)
AREA #1 - (01)

TEAM Industrial Services

Item Desc.: INLET SEPARATOR

Lsd: 06-22-057-20W5M

Prov. Reg.: A0483171

Equip. No.: -----

Ser. No.: 7751-03

SKID No.

PSV No.:

Last VE Date

Description: WEST HEAD TO SHELL T-B

CML: 050-10

Nominal:	2.250	C.A. as per		C.A. L.F.L.:	0.125	Con't Service:	YES
t Min.:	2.125	Design		L.F.L.:	2.125	Insp. Intv.:	12
C.A. Calc.:	0.125			Mths. To L.F.L.:	48	Add'l Assm't:	YES

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	2.515	2.568	_____
Reading 02:	2.500	2.561	_____
Reading 03:	2.513	2.588	_____
Reading 04:	2.516	2.594	_____
Reading 05:	2.522	2.686	_____
Reading 06:	2.547	2.428	_____
Reading 07:		2.288	_____
Reading 08:		2.310	_____
Reading 09:		2.308	_____
Reading 10:		2.310	_____

Data Evaluation

Lowest Reading	:	2.500	2.288
Average - Low 3	:	2.509	2.302
Thk.Rem. Above LFL	:	0.375	0.163
Indv. Short Term Rate (in/yr)	:		0.019
Short Term Rate (in/yr)	:		0.032
LongTerm Rate (in/yr)	:		

Comments:

2009/08 - MOVED CML LOCATION. RDGS #1-5 TAKEN AT HEAD, RDGS #6-10 TAKEN AT SHELL. RDGS #5 & 7 TAKEN AT HAZ, RDG #6 TAKEN AT WELD.

EXXON MOBIL
PINE CREEK COMPRESSOR STATION - (007)
AREA #1 - (01)

TEAM Industrial Services

Item Desc.: INLET SEPARATOR	Lsd: 06-22-057-20W5M
Prov. Reg.: A0483171	Equip. No.: -----
SKID No.	PSV No.: -----
	Ser. No.: 7751-03
	Last VE Date

Description: BTM SHELL W-E

CML: 050-15

Nominal:	2.250	C.A. as per	C.A. L.F.L.:	0.125	Con't Service: YES
t Min.:	2.125	Design	L.F.L.:	2.125	Insp. Intv. 12
C.A. Calc.:	0.125		Mths.To L.F.L.:	48	Add'l Assm't: NO

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	2.301	2.300	_____
Reading 02:	2.320	2.300	_____
Reading 03:	2.293	2.300	_____
Reading 04:	2.257	2.300	_____
Reading 05:	2.306	2.300	_____
Reading 06:	2.310	2.300	_____

Data Evaluation

Lowest Reading	:	2.257	2.300
Average - Low 3	:	2.284	2.300
Thk.Rem. Above LFL	:	0.132	0.175
Indv. Short Term Rate (in/yr)	:		0.003
Short Term Rate (in/yr)	:		0.000
LongTerm Rate (in/yr)	:		

Description: MID SHELL T-B

CML: 050-20

Nominal:	2.250	C.A. as per	C.A. L.F.L.:	0.125	Con't Service: YES
t Min.:	2.125	Design	L.F.L.:	2.125	Insp. Intv. 12
C.A. Calc.:	0.125		Mths.To L.F.L.:	48	Add'l Assm't: NO

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	2.301	2.300	_____
Reading 02:	2.307	2.300	_____
Reading 03:	2.309	2.300	_____
Reading 04:	2.296	2.300	_____
Reading 05:	2.298	2.300	_____
Reading 06:	2.295	2.300	_____

Data Evaluation

Lowest Reading	:	2.295	2.300
Average - Low 3	:	2.296	2.300
Thk.Rem. Above LFL	:	0.170	0.175
Indv. Short Term Rate (in/yr)	:		0.001
Short Term Rate (in/yr)	:		0.000
LongTerm Rate (in/yr)	:		

EXXON MOBIL
PINE CREEK COMPRESSOR STATION - (007)
AREA #1 - (01)

TEAM Industrial Services

Item Desc.: INLET SEPARATOR	Lsd: 06-22-057-20W5M
Prov. Reg.: A0483171	Equip. No.: -----
SKID No.	Ser. No.: 7751-03
PSV No.:	Last VE Date

Description: TOP SHELL W-E

CML: 050-25

Nominal:	2.250	C.A. as per	C.A. L.F.L.:	0.125	Con't Service: YES
t Min.:	2.125	Design	L.F.L.:	2.125	Insp. Intv. 12
C.A. Calc.:	0.125		Mths.To L.F.L.:	48	Add'l Assm't: NO

Survey Dates:

	2003-03	2009-08
Reading 01:	2.301	2.300
Reading 02:	2.302	2.300
Reading 03:	2.307	2.300
Reading 04:	2.298	2.300
Reading 05:	2.302	2.300
Reading 06:	2.306	2.300

Data Evaluation

Lowest Reading	:	2.298	2.300
Average - Low 3	:	2.300	2.300
Thk.Rem. Above LFL	:	0.173	0.175
Indv. Short Term Rate (in/yr)	:		0.001
Short Term Rate (in/yr)	:		0.000
LongTerm Rate (in/yr)	:		

Description: EAST CIRC

CML: 050-30

Nominal:	2.250	C.A. as per	C.A. L.F.L.:	0.125	Con't Service: YES
t Min.:	2.125	Design	L.F.L.:	2.125	Insp. Intv. 12
C.A. Calc.:	0.125		Mths.To L.F.L.:		Add'l Assm't: YES

Survey Dates:

	2009-08
2 O'CLOCK	2.300
3 O'CLOCK	2.300
4 O'CLOCK	2.300
5 O'CLOCK	2.300

Data Evaluation

Lowest Reading	:	2.300
Average - Low 3	:	2.300
Thk.Rem. Above LFL	:	0.175
Indv. Short Term Rate (in/yr)	:	
Short Term Rate (in/yr)	:	
LongTerm Rate (in/yr)	:	

Comments:

2009/08 - MOVED LOCATION AND FORMAT. NO SAFE ACCESS TO OTHER POINTS OF CIRC.

EXXON MOBIL
 PINE CREEK COMPRESSOR STATION - (007)
 AREA #1 - (01)

TEAM Industrial Services

Item Desc.: INLET SEPARATOR	Lsd: 06-22-057-20W5M
Prov. Reg.: A0483171	Equip. No.: -----
SKID No.	PSV No.: -----
	Ser. No.: 7751-03
	Last VE Date

Description: EAST HEAD INTO BTM SHELL T-B

CML: 050-35

Nominal:	2.250	C.A. as per	C.A. L.F.L.:	0.125	Con't Service:	YES
t Min.:	2.125	Design	L.F.L.:	2.125	Insp. Intv.:	12
C.A. Calc.:	0.125		Mths. To L.F.L.:	48	Add'l Assm't:	YES

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	2.536	2.450	_____
Reading 02:	2.545	2.480	_____
Reading 03:	2.551	2.490	_____
Reading 04:	2.516	2.500	_____
Reading 05:	2.515	2.550	_____
Reading 06:	2.507	2.600	_____
Reading 07:		2.610	_____
Reading 08:		2.400	_____
Reading 09:		2.300	_____

Data Evaluation

Lowest Reading	:	2.507	2.300
Average - Low 3	:	2.513	2.383
Thk.Rem. Above LFL	:	0.382	0.175
Indv. Short Term Rate (in/yr)	:		0.013
Short Term Rate (in/yr)	:		0.020
LongTerm Rate (in/yr)	:		

Comments:

2009/08 - RDGS #1-7 TAKEN AT HEAD, #8 AT WELD, #9 AT SHELL. LIMITED ACCESS; CML IS OFFSET (NOT @ BOTTOM)

EXXON MOBIL
PINE CREEK COMPRESSOR STATION - (007)
AREA #1 - (01)

TEAM Industrial Services

Item Desc.: INLET SEPARATOR

Lsd: 06-22-057-20W5M

Prov. Reg.: A0483171

Equip. No.: -----

Ser. No.: 7751-03

SKID No.

PSV No.:

Last VE Date

Description: 4"FLOAT TOP SHELL T-B

CML: 050-40

Nominal:	0.237	C.A. as per	C.A. L.F.L.:	0.030	Con't Service:	YES
t Min.:	--	ASTM	L.F.L.:	0.207	Insp. Intv.	8
C.A. Calc.:	--		Mths.To L.F.L.:	31	Add'l Assm't:	NO

Survey Dates:

2003-03

2009-08

Reading 01:	0.343	0.350	_____
Reading 02:	0.344	0.330	_____
Reading 03:	0.336	0.280	_____
Reading 04:	0.338	0.330	_____
Reading 05:	0.241	0.350	_____
Reading 06:	0.244	0.230	_____
Reading 07:		0.230	_____

Data Evaluation

Lowest Reading	:	0.241	0.230
Average - Low 3	:	0.274	0.247
Thk.Rem. Above LFL	:	0.034	0.023
Indv. Short Term Rate (in/yr)	:		0.009
Short Term Rate (in/yr)	:		0.004
LongTerm Rate (in/yr)	:		

Comments:

2003/03 - RDGS #5 & 6 TAKEN ON PIPE

2009/08 - RDG #3 AT 2"PART OF TEE (NATURAL GEOMETRY). RDG #5 TAKEN @ HAZ.

EXXON MOBIL
 PINE CREEK COMPRESSOR STATION - (007)
 AREA #1 - (01)

TEAM Industrial Services

Item Desc.: INLET SEPARATOR	Lsd: 06-22-057-20W5M
Prov. Reg.: A0483171	Equip. No.: -----
SKID No.	PSV No.: -----
	Ser. No.: 7751-03
	Last VE Date

Description: 4"FLOAT MID SHELL T-B

CML: 050-45

Nominal:	0.237	C.A. as per	C.A. L.F.L.:	0.030	Con't Service: YES
t Min.:	--	ASTM	L.F.L.:	0.207	Insp. Intv. 4
C.A. Calc.:	--		Mths.To L.F.L.:	16	Add'l Assm't: NO

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	0.234	0.230	---
Reading 02:	0.237	0.230	---
Reading 03:	0.357	0.330	---
Reading 04:	0.360	0.320	---
Reading 05:	0.343	0.320	---
Reading 06:	0.348	0.240	---
Reading 07:		0.330	---

Data Evaluation

Lowest Reading	:	0.234	0.230
Average - Low 3	:	0.271	0.233
Thk.Rem. Above LFL	:	0.027	0.023
Indv. Short Term Rate (in/yr)	:		0.017
Short Term Rate (in/yr)	:		0.006
LongTerm Rate (in/yr)	:		

Comments:

ALL RDGS CONFIRMED.

2003/03 - RDGS #1 & 2 TAKEN ON PIPE

2009/08 - RDG #6 AT 2"PART OF TEE (NATURAL GEOMETRY). RDG #3 TAKEN @ WELD.

Description: 4"FLOAT BTM HEAD T-B

CML: 050-50**

Nominal:	0.237	C.A. as per	C.A. L.F.L.:	0.030	Con't Service: YES
t Min.:	--	ASTM	L.F.L.:	0.207	Insp. Intv. 4
C.A. Calc.:	--		Mths.To L.F.L.:	18	Add'l Assm't: NO

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	0.213	0.230	---
Reading 02:	0.215	0.220	---
Reading 03:	0.220	0.210	---
Reading 04:	0.222	0.210	---

Data Evaluation

Lowest Reading	:	0.213	0.210
Average - Low 3	:	0.216	0.213
Thk.Rem. Above LFL	:	**0.006	**0.003
Indv. Short Term Rate (in/yr)	:		0.002
Short Term Rate (in/yr)	:		0.000
LongTerm Rate (in/yr)	:		

Comments:

2009/08 - RDGS CONFIRMED.

EXXON MOBIL
PINE CREEK COMPRESSOR STATION - (007)
AREA #1 - (01)

TEAM Industrial Services

Item Desc.: INLET SEPARATOR

Lsd: 06-22-057-20W5M

Prov. Reg.: A0483171

Equip. No.: -----

Ser. No.: 7751-03

SKID No.

PSV No.:

Last VE Date

Description: 4"FLOAT TOP SHELL

CML: 050-55**

Nominal:	0.237	C.A. as per	C.A. L.F.L.:	0.030	Con't Service:	YES
t Min.:	--	ASTM	L.F.L.:	0.207	Insp. Intv.	2
C.A. Calc.:	--		Mths.To L.F.L.:	9	Add'l Assm't:	NO

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	0.341	0.320	_____
Reading 02:	0.356	0.340	_____
Reading 03:	0.357	0.240	_____
Reading 04:	0.336	0.320	_____
Reading 05:	0.236	0.340	_____
Reading 06:	0.235	0.220	_____
Reading 07:		0.220	_____

Data Evaluation

Lowest Reading	:	0.235	0.220
Average - Low 3	:	0.269	0.227
Thk.Rem. Above LFL	:	0.028	**0.013
Indv. Short Term Rate (in/yr)	:		0.018
Short Term Rate (in/yr)	:		0.007
LongTerm Rate (in/yr)	:		

Comments:

2003/03 - RDGS. #5 & 6 TAKEN ON PIPE

2009/08 - RDG #3 AT 2"PART OF TEE (NATURAL GEOMETRY). RDGS #5 TAKEN AT WELD. RDGS #3, 6 & 7
CONFIRMED.

EXXON MOBIL
PINE CREEK COMPRESSOR STATION - (007)
AREA #1 - (01)

TEAM Industrial Services

Item Desc.: INLET SEPARATOR	Lsd: 06-22-057-20W5M
Prov. Reg.: A0483171	Equip. No.: -----
SKID No.	PSV No.: -----
	Ser. No.: 7751-03
	Last VE Date

Description: 4"FLOAT MID SHELL T-B

CML: 050-60**

Nominal: 0.237	C.A. as per	C.A. L.F.L.: 0.030	Con't Service: YES
t Min.: --	ASTM	L.F.L.: 0.207	Insp. Intv. 0
C.A. Calc.: --		Mths.To L.F.L.: 2	Add'l Assm't: NO

Survey Dates: 2003-03 2009-08

Reading 01:	0.238	0.230	---
Reading 02:	0.237	0.230	---
Reading 03:	0.346	0.330	---
Reading 04:	0.349	0.330	---
Reading 05:	0.346	0.330	---
Reading 06:	0.343	0.210	---
Reading 07:		0.340	---
Reading 08:		0.310	---

Data Evaluation

Lowest Reading	:	0.237	0.210
Average - Low 3	:	0.273	0.223
Thk.Rem. Above LFL	:	0.030	**0.003
Indv. Short Term Rate (in/yr)	:		0.021
Short Term Rate (in/yr)	:		0.008
LongTerm Rate (in/yr)	:		

Comments:

2003/03 - RDGS. #1 & 2 TAKEN ON PIPE

2009/08 - RDG #6 AT 2"ENDT OF TEE (NATURAL GEOMETRY). RDG #3 TAKEN AT WELD.

Description: 1.5"90L B-T

CML: 050-65

Nominal: 0.200	C.A. as per	C.A. L.F.L.: 0.025	Con't Service: YES
t Min.: --	ASTM	L.F.L.: 0.175	Insp. Intv. 12
C.A. Calc.: --		Mths.To L.F.L.: 48	Add'l Assm't: NO

Survey Dates: 2003-03 2009-08

Reading 01:	0.241	0.206	---
Reading 02:	0.240	0.208	---
Reading 03:	0.241	0.209	---
Reading 04:	0.243	0.212	---
Reading 05:	0.247	0.215	---
Reading 06:	0.231		---

Data Evaluation

Lowest Reading	:	0.231	0.206
Average - Low 3	:	0.237	0.208
Thk.Rem. Above LFL	:	0.056	0.031
Indv. Short Term Rate (in/yr)	:		0.005
Short Term Rate (in/yr)	:		0.005
LongTerm Rate (in/yr)	:		

EXXON MOBIL
PINE CREEK COMPRESSOR STATION - (007)
AREA #1 - (01)

TEAM Industrial Services

Item Desc.: INLET SEPARATOR	Lsd: 06-22-057-20W5M
Prov. Reg.: A0483171	Equip. No.: -----
SKID No.	Ser. No.: 7751-03
PSV No.:	Last VE Date

Description: 4"FLOAT BTM HEAD T-B

CML: 050-70**

Nominal:	0.237	C.A. as per	C.A. L.F.L.:	0.030	Con't Service: YES
t Min.:	--	ASTM	L.F.L.:	0.207	Insp. Intv. 0
C.A. Calc.:	--		Mths.To L.F.L.:	0	Add'l Assm't: NO

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	0.217	0.230	---
Reading 02:	0.216	0.210	---
Reading 03:	0.222	0.210	---
Reading 04:	0.235	0.200	---

Data Evaluation

Lowest Reading	:	0.216	0.200
Average - Low 3	:	0.218	0.207
Thk.Rem. Above LFL	:	**0.009	**0.007
Indv. Short Term Rate (in/yr)	:		0.005
Short Term Rate (in/yr)	:		0.002
LongTerm Rate (in/yr)	:		

Comments:

2009/08 - RDGS CONFIRMED.

Description: 3"90L T-B

CML: 050-75**

Nominal:	0.216	C.A. as per	C.A. L.F.L.:	0.027	Con't Service: YES
t Min.:	--	ASTM	L.F.L.:	0.189	Insp. Intv. 6
C.A. Calc.:	--		Mths.To L.F.L.:	26	Add'l Assm't: NO

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	0.229	0.210	---
Reading 02:	0.234	0.210	---
Reading 03:	0.224	0.210	---
Reading 04:	0.231	0.200	---
Reading 05:	0.213	0.200	---

Data Evaluation

Lowest Reading	:	0.213	0.200
Average - Low 3	:	0.222	0.203
Thk.Rem. Above LFL	:	0.024	**0.011
Indv. Short Term Rate (in/yr)	:		0.005
Short Term Rate (in/yr)	:		0.003
LongTerm Rate (in/yr)	:		

Comments:

2009/08 - RDGS CONFIRMED.

EXXON MOBIL
PINE CREEK COMPRESSOR STATION - (007)
AREA #1 - (01)

TEAM Industrial Services

Item Desc.:	INLET SEPARATOR		Lsd: 06-22-057-20W5M
Prov. Reg.:	A0483171	Equip. No.: -----	Ser. No.: 7751-03
SKID No.		PSV No.:	Last VE Date

Description: 4"90L T-B

CML: 050-80**

Nominal:	0.237	C.A. as per	C.A. L.F.L.:	0.030	Con't Service: YES
t Min.:	--	ASTM	L.F.L.:	0.207	Insp. Intv. 2
C.A. Calc.:	--		Mths.To L.F.L.:	6	Add'l Assm't: NO

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	0.254	0.220	---
Reading 02:	0.250	0.230	---
Reading 03:	0.246	0.210	---
Reading 04:	0.250	0.240	---
Reading 05:	0.250	0.250	---
Reading 06:	0.259	0.250	---

Data Evaluation

Lowest Reading	:	0.246	0.210
Average - Low 3	:	0.249	0.220
Thk.Rem. Above LFL	:	0.039	**0.003
Indv. Short Term Rate (in/yr)	:		0.006
Short Term Rate (in/yr)	:		0.005
LongTerm Rate (in/yr)	:		

Description: 2"90L T-B

CML: 050-85*

Nominal:	0.218	C.A. as per	C.A. L.F.L.:	0.027	Con't Service: YES
t Min.:	--	ASTM	L.F.L.:	0.191	Insp. Intv. 12
C.A. Calc.:	--		Mths.To L.F.L.:	48	Add'l Assm't: NO

<u>Survey Dates:</u>	<u>2003-03</u>	<u>2009-08</u>	
Reading 01:	0.204	0.220	---
Reading 02:	0.198	0.210	---
Reading 03:	0.199	0.210	---
Reading 04:	0.201	0.210	---
Reading 05:	0.204	0.210	---

Data Evaluation

Lowest Reading	:	0.198	0.210
Average - Low 3	:	0.199	0.210
Thk.Rem. Above LFL	:	**0.007	*0.019
Indv. Short Term Rate (in/yr)	:		0.000
Short Term Rate (in/yr)	:		0.000
LongTerm Rate (in/yr)	:		

EXXON MOBIL
PINE CREEK COMPRESSOR STATION - (007)
AREA #1 - (01)

TEAM Industrial Services

Item Desc.: INLET SEPARATOR

Lsd: 06-22-057-20W5M

Prov. Reg.: A0483171

Equip. No.: -----

Ser. No.: 7751-03

SKID No.

PSV No.:

Last VE Date

Description: 8"90L T-B

CML: 050-90*

Nominal:	0.500	C.A. as per	C.A. L.F.L.:	0.063	Con't Service:	YES
t Min.:	--	ASTM	L.F.L.:	0.437	Insp. Intv.	12
C.A. Calc.:	--		Mths. To L.F.L.:	48	Add'l Assm't:	NO

Survey Dates:

2003-03 2009-08

Reading 01:	0.531	0.501	_____
Reading 02:	0.513	0.485	_____
Reading 03:	0.500	0.482	_____
Reading 04:	0.537	0.482	_____
Reading 05:	0.523	0.483	_____
Reading 06:	0.506	0.484	_____
Reading 07:	0.514	0.485	_____
Reading 08:	0.521	0.491	_____
Reading 09:	0.544	0.497	_____
Reading 10:	0.546	0.515	_____

Data Evaluation

Lowest Reading	:	0.500	0.482
Average - Low 3	:	0.506	0.482
Thk.Rem. Above LFL	:	0.063	*0.045
Indv. Short Term Rate (in/yr)	:		0.009
Short Term Rate (in/yr)	:		0.004
LongTerm Rate (in/yr)	:		