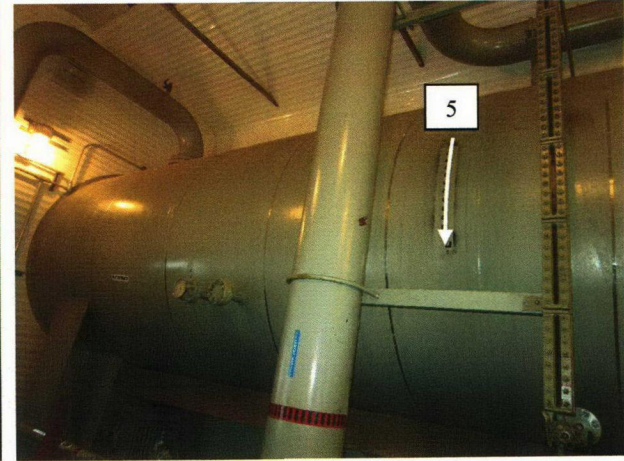
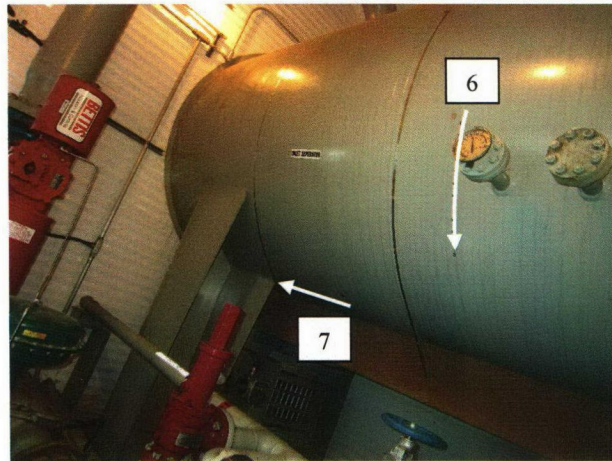
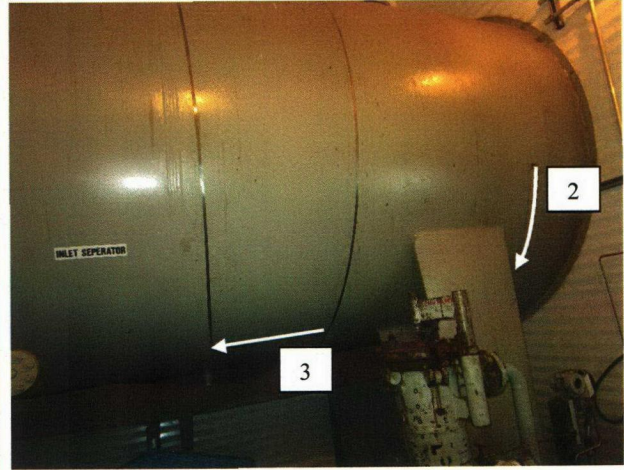
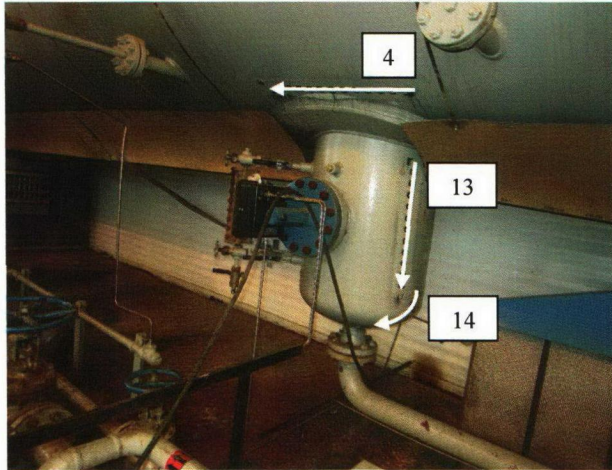
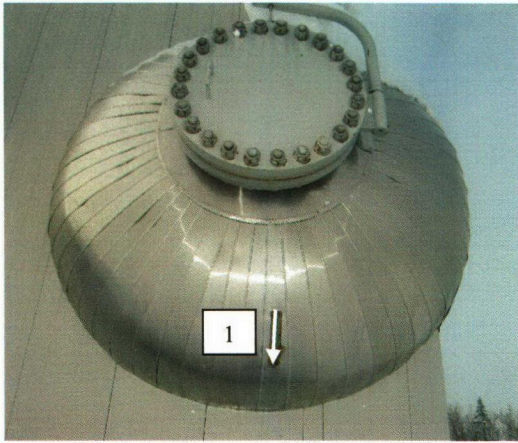


4-7 JUN 10 2009

PennWest Exploration



Name: Line Heater
A#: 450608
SN: 7416-03
CRN: L 8701.2
LSD: 16-32-110-04 W6M
Location: Sousa
Corrosion Allowance: 1.60mm
Size: 2438.40mm OD
Notes:

MAWP: 5102kPa
Temperature: 38°C
Head Material: SA-516-70
Head Thickness: 45.24mm
Shell Material: SA-516-70
Shell Thickness: 53.98mm
Year Built: 2000
Manufacturer: Natco

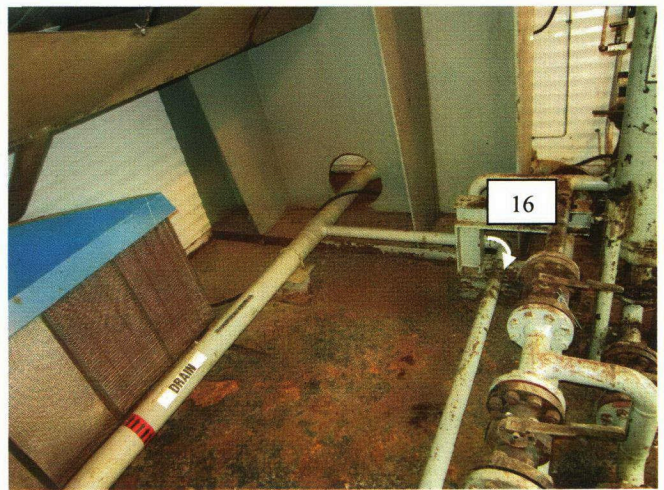
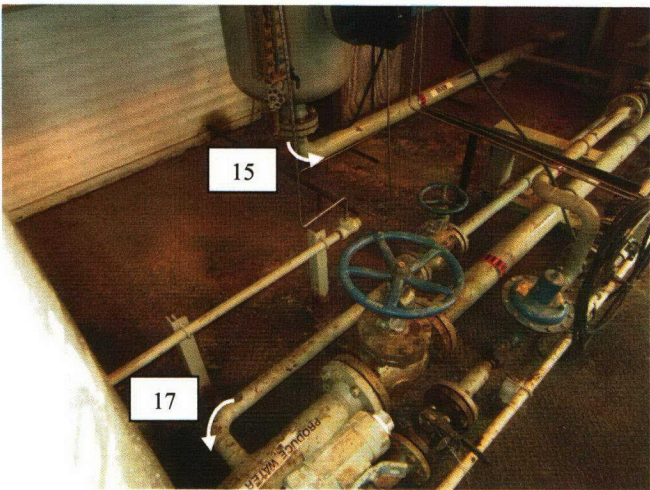
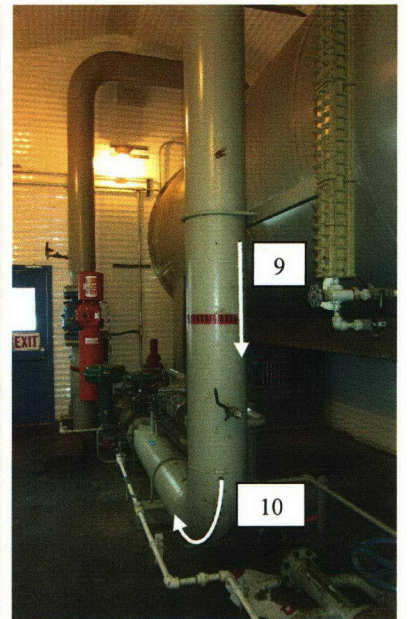
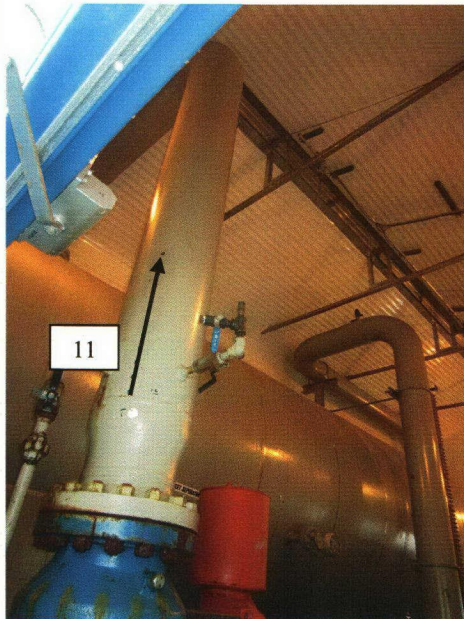
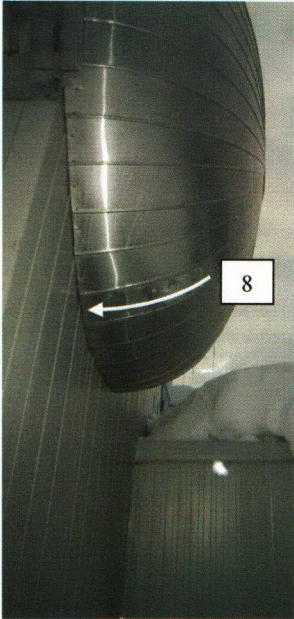
Interval: _____
Reviewed by: _____

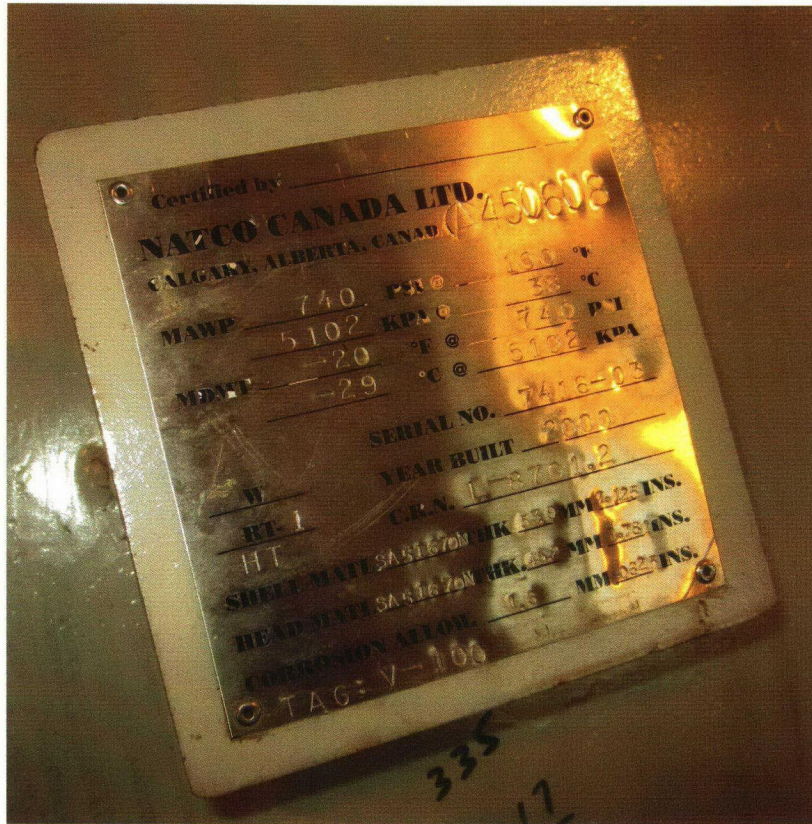
Jerrad Morosoff
Jerrad Morosoff, PESL 404



DEC 19 2013

PennWest Exploration





Report for: Penn West Petroleum Ltd.
 Presented by: Echo NDE Inc.
 Address: 53A Burnt Park Drive Red Deer, AB T4P 0J7
 Telephone: (403)347-7042 Fax: (403)347-7052

Corrosion Monitoring Eq/Circ ID Analysis Report

(Report in Millimeters, Corrosion Rates in mm/Yr)
 Analysis: Straight Line

Report Date: 03/11/2013 14:18:11

Unit: PENNVEST
 Eq/Circ ID: 0450608
 Eq Type: 13-016
 Class:
 RBI:

Description:
 LINE HEATER
 TAG# N/A

Flange Rating: 0 KPa
 Operating Pressure: 5102 KPa
 Operating Temp: 38 °C

Summary: Group Name:
 Insp. Due Date = 11/16/2001
 Pred. Ret. Date = 11/16/2001

Group description:
 RCR = 0.051 mm/Yr
 Rem. Life (from last survey 02/06/2013) = -11.2 yrs

0 C.A. Status: No
 Total Caution TMLs = 10

TML Number	Location Description	Ctn TML	First Survey Thick Nt	First Survey Date	Previous Survey Thick Nt	Previous Survey Date	Last Survey Thick Nt	Last Survey Date	Short Term Rate	Long Term Rate	Best Fit Rate	Max Hist CR	Retirement Thickness	Rep TML CR	TML Retirement Date	TML Inspection Due Date
1.01	EAST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	57.94	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/04/2585	02/06/2018
1.02	EAST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	57.99	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/05/2587	02/06/2018
1.03	EAST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	58.04	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/04/2589	02/06/2018
1.04	EAST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	58.14	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/04/2593	02/06/2018
1.05	EAST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	58.27	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/05/2598	02/06/2018
1.06	EAST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	58.37	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/06/2602	02/06/2018
1.07	EAST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	58.37	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/06/2602	02/06/2018
2.01	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.60	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2267	02/06/2018
2.02	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.57	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2266	02/06/2018
2.03	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.52	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2264	02/06/2018
2.04	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.52	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2264	02/06/2018
2.05	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.52	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2264	02/06/2018
2.06	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.57	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2266	02/06/2018
2.07	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.52	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2264	02/06/2018
2.08	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.60	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2267	02/06/2018
2.09	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.65	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2269	02/06/2018
2.10	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.65	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2269	02/06/2018
2.11	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.70	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2271	02/06/2018
2.12	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.80	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2275	02/06/2018
3.01	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.65	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2269	02/06/2018
3.02	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.70	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2271	02/06/2018
3.03	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.65	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2269	02/06/2018
3.04	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.60	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2267	02/06/2018
3.05	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.70	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2271	02/06/2018
3.06	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.67	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2270	02/06/2018
3.07	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.65	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2269	02/06/2018
3.08	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.67	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2270	02/06/2018
3.09	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.67	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2270	02/06/2018
3.10	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.65	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2269	02/06/2018
3.11	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.67	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2270	02/06/2018
3.12	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.65	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2269	02/06/2018
4.01	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.63	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2229	02/06/2018
4.02	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.68	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2231	02/06/2018
4.03	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.68	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2231	02/06/2018
4.04	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.63	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2229	02/06/2018
4.05	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.63	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2229	02/06/2018
4.06	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.68	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2231	02/06/2018
4.07	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.66	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2230	02/06/2018
4.08	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.68	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2231	02/06/2018
4.09	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.63	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2229	02/06/2018
4.10	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.61	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2228	02/06/2018

Report for: Penn West Petroleum Ltd.
Presented by: Echo NDE Inc.
Address: 53A Burnt Park Drive Red Deer, AB T4P 0J7
Telephone: (403)347-7042 Fax: (403)347-7052

TML Number	Location Description	Ctn TML	First Survey Thick Nt	First Survey Date	Previous Survey Thick Nt	Previous Survey Date	Last Survey Thick Nt	Last Survey Date	Short Term Rate	Long Term Rate	Best Fit Rate	Max Hist CR	Retirement Thickness	Rep TML CR	TML Retirement Date	TML Inspection Due Date
4.11	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.63	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2229	02/06/2018
4.12	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.61	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2228	02/06/2018
5.01	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.29	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2255	02/06/2018
5.02	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.29	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2255	02/06/2018
5.03	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.32	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2256	02/06/2018
5.04	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.34	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2257	02/06/2018
5.05	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.34	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2257	02/06/2018
5.06	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.39	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2259	02/06/2018
5.07	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.34	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2257	02/06/2018
5.08	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.34	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2257	02/06/2018
5.09	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.32	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2256	02/06/2018
5.10	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.34	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2257	02/06/2018
5.11	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.29	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2255	02/06/2018
5.12	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.37	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2258	02/06/2018
6.01	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.37	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2258	02/06/2018
6.02	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.29	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2255	02/06/2018
6.03	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.37	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2258	02/06/2018
6.04	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.39	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2259	02/06/2018
6.05	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.37	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2258	02/06/2018
6.06	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.37	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2258	02/06/2018
6.07	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.34	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2257	02/06/2018
6.08	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.29	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2255	02/06/2018
6.09	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.29	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2255	02/06/2018
6.10	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.27	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2254	02/06/2018
6.11	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.22	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2252	02/06/2018
6.12	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	58.29	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2255	02/06/2018
7.01	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.78	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2235	02/06/2018
7.02	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.81	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2236	02/06/2018
7.03	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.86	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2238	02/06/2018
7.04	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.89	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2239	02/06/2018
7.05	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.86	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2238	02/06/2018
7.06	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.84	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2237	02/06/2018
7.07	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.84	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2237	02/06/2018
7.08	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.86	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2238	02/06/2018
7.09	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.86	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2238	02/06/2018
7.10	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.89	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2239	02/06/2018
7.11	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.86	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2238	02/06/2018
7.12	SHELL	N	53.98 NM	01/01/2000	N/A	N/A	57.99	02/06/2013	N/A	0.000	N/A	0.000	52.13 U	0.025	09/29/2243	02/06/2018
8.01	WEST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	58.06	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/05/2590	02/06/2018
8.02	WEST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	58.27	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/05/2598	02/06/2018
8.03	WEST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	58.47	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/06/2606	02/06/2018
8.04	WEST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	58.55	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/05/2609	02/06/2018
8.05	WEST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	58.70	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/06/2615	02/06/2018
8.06	WEST HEAD	N	45.24 NM	01/01/2000	N/A	N/A	58.93	02/06/2013	N/A	0.000	N/A	0.000	43.39 U	0.025	11/05/2624	02/06/2018
9.01	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.68	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2065	02/06/2018
9.02	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.60	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2062	02/06/2018
9.03	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.55	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/02/2060	02/06/2018
9.04	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.60	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2062	02/06/2018
9.05	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.70	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2066	02/06/2018
9.06	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.70	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2066	02/06/2018
9.07	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.60	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2062	02/06/2018
9.08	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.70	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2066	02/06/2018
9.09	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.70	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2066	02/06/2018
9.10	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.60	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2062	02/06/2018

Report for: Penn West Petroleum Ltd.
Presented by: Echo NDE Inc.
Address: 53A Burnt Park Drive Red Deer, AB T4P 0J7
Telephone: (403)347-7042 Fax: (403)347-7052

TML Number	Location Description	Ctn TML	First Survey Thick Nt	First Survey Date	Previous Survey Thick Nt	Previous Survey Date	Last Survey Thick Nt	Last Survey Date	Short Term Rate	Long Term Rate	Best Fit Rate	Max Hist CR	Retirement Thickness	Rep TML CR	TML Retirement Date	TML Inspection Due Date
9.11	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.52	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2059	02/06/2018
9.12	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.45	02/06/2013	N/A	0.005	N/A	0.005	8.34 U	0.025	10/02/2056	02/06/2018
10.01	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.47	02/06/2013	N/A	0.005	N/A	0.005	8.34 U	0.025	10/03/2057	02/06/2018
10.02	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.50	02/06/2013	N/A	0.003	N/A	0.003	8.34 U	0.025	10/03/2058	02/06/2018
10.03	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.42	02/06/2013	N/A	0.008	N/A	0.008	8.34 U	0.025	10/03/2055	02/06/2018
10.04	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.47	02/06/2013	N/A	0.005	N/A	0.005	8.34 U	0.025	10/03/2057	02/06/2018
10.05	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.47	02/06/2013	N/A	0.005	N/A	0.005	8.34 U	0.025	10/03/2057	02/06/2018
10.06	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.47	02/06/2013	N/A	0.005	N/A	0.005	8.34 U	0.025	10/03/2057	02/06/2018
10.07	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.55	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/02/2060	02/06/2018
10.08	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.68	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2065	02/06/2018
10.09	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.63	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2063	02/06/2018
10.10	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.65	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/02/2064	02/06/2018
11.01	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.55	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/02/2060	02/06/2018
11.02	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.75	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/02/2068	02/06/2018
11.03	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.83	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2071	02/06/2018
11.04	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.73	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2067	02/06/2018
11.05	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.73	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2067	02/06/2018
11.06	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.73	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2067	02/06/2018
11.07	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.70	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2066	02/06/2018
11.08	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.78	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2069	02/06/2018
11.09	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.83	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2071	02/06/2018
11.10	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.80	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2070	02/06/2018
11.11	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.60	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2062	02/06/2018
11.12	12" STRAIGHT	N	9.53 NM	01/01/2000	N/A	N/A	9.68	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2065	02/06/2018
12.01	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.42	02/06/2013	N/A	0.008	N/A	0.008	8.34 U	0.025	10/03/2055	02/06/2018
12.02	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.37	02/06/2013	N/A	0.013	N/A	0.013	8.34 U	0.025	10/03/2053	02/06/2018
12.03	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.35	02/06/2013	N/A	0.013	N/A	0.013	8.34 U	0.025	10/02/2052	02/06/2018
12.04	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.35	02/06/2013	N/A	0.013	N/A	0.013	8.34 U	0.025	10/02/2052	02/06/2018
12.05	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.45	02/06/2013	N/A	0.005	N/A	0.005	8.34 U	0.025	10/02/2056	02/06/2018
12.06	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.58	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2061	02/06/2018
12.07	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.60	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/03/2062	02/06/2018
12.08	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.65	02/06/2013	N/A	0.000	N/A	0.000	8.34 U	0.025	10/02/2064	02/06/2018
12.09	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.04	02/06/2013	N/A	0.038	N/A	0.038	8.34 U	0.038	07/16/2031	02/06/2018
12.10	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.14	02/06/2013	N/A	0.030	N/A	0.030	8.34 U	0.030	06/25/2039	02/06/2018
12.11	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.07	02/06/2013	N/A	0.036	N/A	0.036	8.34 U	0.036	07/27/2033	02/06/2018
12.12	12" ELBOW	N	9.53 NM	01/01/2000	N/A	N/A	9.12	02/06/2013	N/A	0.030	N/A	0.030	8.34 U	0.030	08/24/2038	02/06/2018
13.01	BOOT SHELL	N	31.75 NM	01/01/2000	N/A	N/A	33.07	02/06/2013	N/A	0.000	N/A	0.000	29.90 U	0.025	12/09/2137	02/06/2018
13.02	BOOT SHELL	N	31.75 NM	01/01/2000	N/A	N/A	33.17	02/06/2013	N/A	0.000	N/A	0.000	29.90 U	0.025	12/09/2141	02/06/2018
13.03	BOOT SHELL	N	31.75 NM	01/01/2000	N/A	N/A	33.07	02/06/2013	N/A	0.000	N/A	0.000	29.90 U	0.025	12/09/2137	02/06/2018
13.04	BOOT SHELL	N	31.75 NM	01/01/2000	N/A	N/A	33.15	02/06/2013	N/A	0.000	N/A	0.000	29.90 U	0.025	12/09/2140	02/06/2018
13.05	BOOT SHELL	N	31.75 NM	01/01/2000	N/A	N/A	33.05	02/06/2013	N/A	0.000	N/A	0.000	29.90 U	0.025	12/09/2136	02/06/2018
13.06	BOOT SHELL	N	31.75 NM	01/01/2000	N/A	N/A	33.10	02/06/2013	N/A	0.000	N/A	0.000	29.90 U	0.025	12/09/2138	02/06/2018
13.07	BOOT SHELL	N	31.75 NM	01/01/2000	N/A	N/A	33.05	02/06/2013	N/A	0.000	N/A	0.000	29.90 U	0.025	12/09/2136	02/06/2018
13.08	BOOT SHELL	N	31.75 NM	01/01/2000	N/A	N/A	33.07	02/06/2013	N/A	0.000	N/A	0.000	29.90 U	0.025	12/09/2137	02/06/2018
13.09	BOOT SHELL	N	31.75 NM	01/01/2000	N/A	N/A	33.05	02/06/2013	N/A	0.000	N/A	0.000	29.90 U	0.025	12/09/2136	02/06/2018
13.10	BOOT SHELL	N	31.75 NM	01/01/2000	N/A	N/A	32.99	02/06/2013	N/A	0.000	N/A	0.000	29.90 U	0.025	12/09/2134	02/06/2018
13.11	BOOT SHELL	N	31.75 NM	01/01/2000	N/A	N/A	32.92	02/06/2013	N/A	0.000	N/A	0.000	29.90 U	0.025	12/09/2131	02/06/2018
14.01	BOOT HEAD	Y	31.75 NM	01/01/2000	N/A	N/A	19.35	02/06/2013	N/A	0.947	N/A	0.947	29.90 U	0.947	12/21/2001	12/21/2001
14.02	BOOT HEAD	Y	31.75 NM	01/01/2000	N/A	N/A	19.10	02/06/2013	N/A	0.965	N/A	0.965	29.90 U	0.965	11/29/2001	11/29/2001
14.03	BOOT HEAD	Y	31.75 NM	01/01/2000	N/A	N/A	19.05	02/06/2013	N/A	0.970	N/A	0.970	29.90 U	0.970	12/02/2001	12/02/2001
14.04	BOOT HEAD	Y	31.75 NM	01/01/2000	N/A	N/A	19.00	02/06/2013	N/A	0.973	N/A	0.973	29.90 U	0.973	11/23/2001	11/23/2001
14.05	BOOT HEAD	Y	31.75 NM	01/01/2000	N/A	N/A	18.90	02/06/2013	N/A	0.980	N/A	0.980	29.90 U	0.980	11/17/2001	11/17/2001
14.06	BOOT HEAD	Y *	31.75 NM	01/01/2000	N/A	N/A	18.92	02/06/2013	N/A	0.978	N/A	0.978	29.90 U	0.978	11/16/2001	11/16/2001
15.01	4" ELBOW	N	6.02 NM	01/01/2000	N/A	N/A	5.74	02/06/2013	N/A	0.020	N/A	0.020	5.27 U	0.025	08/15/2031	02/06/2018

Report for: Penn West Petroleum Ltd.
Presented by: Echo NDE Inc.
Address: 53A Burnt Park Drive Red Deer, AB T4P 0J7
Telephone: (403)347-7042 Fax: (403)347-7052

TML Number	Location Description	Ctn TML	First Survey Thick Nt	First Survey Date	Previous Survey Thick Nt	Previous Survey Date	Last Survey Thick Nt	Last Survey Date	Short Term Rate	Long Term Rate	Best Fit Rate	Max Hist CR	Retirement Thickness	Rep TML CR	TML Retirement Date	TML Inspection Due Date
15.02	4" ELBOW	N	6.02 NM	01/01/2000	N/A	N/A	5.71	02/06/2013	N/A	0.023	N/A	0.023	5.27 U	0.025	08/15/2030	02/06/2018
15.03	4" ELBOW	N	6.02 NM	01/01/2000	N/A	N/A	5.71	02/06/2013	N/A	0.023	N/A	0.023	5.27 U	0.025	08/15/2030	02/06/2018
15.04	4" ELBOW	N	6.02 NM	01/01/2000	N/A	N/A	5.82	02/06/2013	N/A	0.015	N/A	0.015	5.27 U	0.025	08/15/2034	02/06/2018
15.05	4" ELBOW	N	6.02 NM	01/01/2000	N/A	N/A	5.89	02/06/2013	N/A	0.010	N/A	0.010	5.27 U	0.025	08/15/2037	02/06/2018
15.06	4" ELBOW	N	6.02 NM	01/01/2000	N/A	N/A	5.77	02/06/2013	N/A	0.020	N/A	0.020	5.27 U	0.025	08/15/2032	02/06/2018
16.01	2" ELBOW	N	3.91 NM	01/01/2000	N/A	N/A	3.91	02/06/2013	N/A	0.000	N/A	0.000	3.42 U	0.025	06/15/2032	02/06/2018
16.02	2" ELBOW	N	3.91 NM	01/01/2000	N/A	N/A	3.71	02/06/2013	N/A	0.015	N/A	0.015	3.42 U	0.025	06/15/2024	02/06/2018
16.03	2" ELBOW	N	3.91 NM	01/01/2000	N/A	N/A	3.63	02/06/2013	N/A	0.020	N/A	0.020	3.42 U	0.025	06/15/2021	04/11/2017
16.04	2" ELBOW	N	3.91 NM	01/01/2000	N/A	N/A	3.73	02/06/2013	N/A	0.013	N/A	0.013	3.42 U	0.025	06/15/2025	02/06/2018
16.05	2" ELBOW	N	3.91 NM	01/01/2000	N/A	N/A	3.63	02/06/2013	N/A	0.020	N/A	0.020	3.42 U	0.025	06/15/2021	04/11/2017
17.01	2" ELBOW	Y	3.91 NM	01/01/2000	N/A	N/A	3.38	02/06/2013	N/A	0.041	N/A	0.041	3.42 U	0.041	01/27/2012	01/27/2012
17.02	2" ELBOW	Y	3.91 NM	01/01/2000	N/A	N/A	3.35	02/06/2013	N/A	0.043	N/A	0.043	3.42 U	0.043	07/19/2011	07/19/2011
17.03	2" ELBOW	N	3.91 NM	01/01/2000	N/A	N/A	3.51	02/06/2013	N/A	0.030	N/A	0.030	3.42 U	0.030	11/24/2015	07/01/2014
17.04	2" ELBOW	Y	3.91 NM	01/01/2000	N/A	N/A	3.33	02/06/2013	N/A	0.046	N/A	0.046	3.42 U	0.046	01/28/2011	01/28/2011
17.05	2" ELBOW	Y	3.91 NM	01/01/2000	N/A	N/A	3.28	02/06/2013	N/A	0.048	N/A	0.048	3.42 U	0.048	02/17/2010	02/17/2010

Report for: Penn West Petroleum Ltd.
Presented by: Echo NDE Inc.
Address: 53A Burnt Park Drive Red Deer, AB T4P 0J7
Telephone: (403)347-7042 Fax: (403)347-7052

(Report in Millimeters, Corrosion Rates in mm/Yr)
Analysis: Straight Line

Report Date: 03/11/2013 14:18:14

Unit: PENNWEST
Eq/Circ ID: 0450608
Eq Type: 13-016
Class:
RBI:

Description:
LINE HEATER
TAG# N/A

Flange Rating: 0 KPa
Operating Pressure: 5102 KPa
Operating Temp: 38 °C

TML Corrosion Rates are each the maximum of:

(A) -- Calculated Corrosion Rates x 1.00 : Varies
(B) -- Default Corrosion Rate : 0.025 mm/Yr

Representative Corrosion Rate is the Maximum of:

(A) -- Average Corrosion Rate x 1.10 : Not Used.
(B) -- Average Max 25.0% of TMLs, Min of 2 : Not Used.
(C) -- Formula Corrosion Rate (Sigma = 1.28) : Not Used.
(D) -- Default Corrosion Rate : 0.051 mm/Yr

Representative Corrosion Rate = 0.051 mm/Yr

TML thickness readings have not been compensated for high Temperatures.

TML thickness readings have not been compensated for growths.

TML Life calculations are based on the Representative TML Corrosion Rate using Short Term and Long Term Corrosion Rates.

Nominal thickness is used for TML corrosion rate calculations with less than 3 surveys.

Minimum time between inspections required for corrosion rate calculation is 6 months.

TML Inspection Interval is:

(A) -- Minimum(TML Life / 2.00, 5.00 years)

Eq/Circ ID Last Survey Date is based on the LAST of the last 0% of TML survey dates (Min 1).

Eq/Circ ID Estimated life = -11.2 years from the most recent survey date.
(Estimated Life is based on the average of the earliest 0% (Min 1) TML retirement dates.)

Predicted Eq/Circ ID Retirement date is 11/16/2001

Recommended Eq/Circ UT/RT Inspection Date is 11/16/2001
UT/RT Inspection Interval is the minimum(Remaining life / 2.0, 5.00 years).

Caution TML Logic: TML Corrosion Rate > 0.381 mm/Yr .OR. TML Remaining Life < 1.00 Years.

There are 10 Caution TMLs in this Eq/Circ ID.

ALBERTA LABOUR
 Alberta Boilers Safety Association
 200. 4208 - 97 Street
 Edmonton AB T6E 5Z9
 Partial/ Partiel ~

(A) 450608
MANUFACTURER'S DATA REPORT
FOR PRESSURE VESSEL
DÉCLARATION DE CONFORMITÉ DU CONSTRUCTEUR
D'APPAREILS SOUS PRESSION

Upon shipment of a pressure vessel, this form fully and correctly filled in must be mailed to the office of the Chief Inspector in the province of installation in accordance with the regulations under the Act, governing the construction and installation of pressure vessels.

Au moment de l'expédition d'un appareil sous pression, ce formulaire complété correctement, doit être envoyé au bureau de l'inspecteur en chef de la province d'installation tel que prévu dans les règlements de la loi sur les appareils sous pression.

Manufactured by <i>Construit par</i>	Name and address of Manufacturer/ <i>Nom et adresse du constructeur:</i> Natco Canada Ltd., 9423 Shepard Rd. SE, Calgary, AB T2C 4P6
Manufactured for <i>Construit pour</i>	Name and address of Purchaser or Consignee/ <i>Nom et adresse du client ou de son représentant</i> Penn-West Petroleum Ltd., 300, 1601 Westmount Rd. NW, Calgary
Ultimate owner <i>Utilisateur</i>	Name and address/ <i>Nom et adresse</i> Alberta, T2N 3M2
Location of installation <i>Lieu d'installation</i>	Address/ <i>Adresse</i> Sousa South Compressor Station, 16-32-110-4-W6

Pressure vessel/ Appareil			
Type/ Genre Separator	Serial No/ N° de série 7416-03	Year built/ Année de fabrication 2000	Overall Length/ Longueur totale 32'-0" S/S
Provincial Registration No. - C.R.N./ N° d'enregistrement provincial - N.E.C. L-8701-2	National Board No./ N° National Board ---	Drawing No./ N° de dessin D-7416-03 Rev.2	Diameter/ Diamètre 96" O.D.

The chemical and physical properties of all parts meet the requirements of material specifications of the A.S.M.E. Code.
Les propriétés chimiques et physiques de toutes les composantes respectent les exigences des spécifications de matériaux de code ASME.

The design, construction and workmanship conform to CSA B51.
La conception, la construction et la façon sont conformes à ACNOR B51.

ASME Sec VIII	Division I	Addenda/ Supplément 1998	Code case No. N° de cas 2290
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Manufacturers' partial data reports properly identified and signed by authorized inspectors have been furnished for the following items of the report, and attached to this report:
Les rapports partiels du constructeur adéquatement identifiés et signés par les inspecteurs autorisés ont été produits pour les items suivants du rapport, et attachés à ce rapport:

Names of parts/ <i>Nom de la composante</i>	Item No/ <i>N° d'item</i>	Manufacturer's Name/ <i>Nom du constructeur</i>	Identifying Stamp/ <i>Estampe d'identification</i>

Shell/ Virole

Description	Material <i>Matériau</i>	Thickness <i>Épaisseur</i>	Corr. Allow. <i>Surépais. de corr.</i>	Diameter <i>Diamètre</i>	Overall Length <i>Long. totale</i>	Number of courses <i>Nombre de sections</i>	Girth Joints <i>Joints de circonférence</i>		Longitudinal Joints <i>Joints longitudinaux</i>			P.W.H.T. <i>Traitement thermique</i>	
							Type	R.T. <i>Radiog.</i>	Type	R.T. <i>Radiog.</i>	Efficiency <i>Efficacité</i>	Temp <i>Temp.</i>	Time <i>Durée</i>
Shell	SA-516-70N	1.7813	0.0625	96" O.D.	32'	4	1	1	1	1	100	1150°F	135 min

Heads/ Têtes

Description	Material <i>Matériau</i>	Min. Thickn. <i>Épais. minim.</i>	Corr. Allow <i>Suré. Corr.</i>	Crown Radius <i>Rayon couron.</i>	Knuckle Radius <i>Petit rayon</i>	Ellipse Ratio <i>Rapp. ellipse</i>	Conical Apex Angle <i>Angle conique</i>	Hemisp. Radius <i>Ray. Hémisph.</i>	Flat Diameter <i>Diam. plat.</i>	Side to pressure <i>Côté sous pression</i>
Start	SA-516-70N	1.7813	0.0625			2:1				concave
Close	SA-516-70N	1.7813	0.0625			2:1				concave
Removable bolts used (describe other fastenings) <i>Boulons amovible utilisés (décrire tout autre attache)</i>						Mat'l Spec/ <i>Spéc. du mat.</i>		Grade		Size/ <i>Diamètre</i>

Pressure - Temperature/ Pression - température

Pressure Vessel Part <i>Partie de l'appareil</i>	Constructed for max allowable working pressure <i>Construit pour une pression maximale de marche permise</i>	At max temp <i>A une temp. max</i>	Min. Temp (when less than 29°C) <i>Temp. min. (inférieure à 29°C)</i>	Test pressure hydro-pneumatic or combination <i>Pression d'épreuve hydro-pneumatique ou combinaison</i>
Separator	740 PSI 5102 kPa	100°F 38°C	-20°F -29°C	962 PSI 6623 kPa

Tube Section/ Faisceau tubulaire

Tube sheet/ Plaque tubulaire	Material/ Matériau	Diameter/ Diamètre	Nominal Thickness/ Épaisseur nominale	Corr Allow/ Sureté corrosion	Attachments/ Mode d'attachement
Tube material/ Matériau des tubes	Diameter/ Diamètre	Nominal Thickness (gauge)/ Épaisseur nominale (calibre)	Number/ Nbre	Type (Straight or U)/ Type (Droit ou U)	Heating Surface/ Surface de chauffe

Jacket/ Chemise

④ 450608

Type of jacket/ Genre de chemise	Jacket closure/ Fermeture de chemise	Proof Test/ Pression d'épreuve	Heating Surface/ Surface de chauffe	Sketch/ Schéma
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Safety Valve Outlets/ Soupapes de sûreté

Number/ Nombre	Dimension	Location/ Endroit
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Nozzles and Openings/ Tubulures et ouvertures

Purpose/ But	Number/ Nombre	Dimension	Type	Material/ Matériau	Nominal Thickness/ Épaisseur nominale	Reinforcement Material/ Matériau de renfort	How attached/ Genre d'attaches	Location/ Endroit
See attached								

Supports/ Supports

Skirt/ Jupe	Lugs/ Oreilles	Legs/ Pieds	Other/ Autres (Description)	Attached/ Attaches
Yes/ Oui No/ Non I X	No./ Nbre	No./ Nbre	Saddles	(Where and How/ Méthode et endroit) Btm Shell-Welded-

Remarks/ Observations (Cubical capacity/ Volume)

Fab. Drwg. D-7416-03 Rev.2
 CVN's per UG-84(i) @ -20°F
 PSV per UG-125 (a)
 Volume 1753 cu. ft.

Certificate of Compliance/ Certificat de conformité

We certify that the statements made in this data report are correct and that the said vessel has been constructed in accordance with the Provincial Registered design below and the requirements of standard CSA B51.

Nous certifions que les données de la déclaration de conformité sont correctes et que l'appareil a été construit en accord avec l'enregistrement provincial ci-dessous et les exigences de la norme ACNOR B51.

Provincial Registered Design/ Enregistrement provincial: L-8701.2

Manufacturer/ Constructeur: Natco Canada Ltd.

Signature: [Signature] Date: FEB 8/2000

Certificate of Shop Inspection/ Certificat d'inspection en usine
 I, the undersigned, a duly authorized Boiler and Pressure Vessel Inspector
Je, soussigné, inspecteur autorisé de chaudières et appareil sous pression
 employed by ABSA
 employé par _____

at/ de Calgary
 have inspected the above vessel and state that to the best of my knowledge and belief, the manufacturer has constructed the vessel in accordance with the Provincial registration, CRN L-8701.2
 and the requirements of standard CSA B51.

ai inspecté l'appareil précité et autant que je sache, crois que le constructeur a construit l'appareil en accord avec l'enregistrement provincial NEC et les exigences de la norme ACNOR B51.

Inspector's Name/ Nom de l'inspecteur: GEORGE GORDON
 Signature: [Signature] Date: 02/08/05

Certificate of Compliance - Field Work/ Certificat de conformité - Installation au chantier

We certify that the field installation of all parts of the vessel conforms with the requirements of Provincial Regulations.

Nous certifions que l'installation au chantier de toutes les composantes de l'appareil est conforme aux règlements provinciaux.

Installer's Name/ Nom de l'installateur: _____

Signature: _____

Date: _____

Certificate of Field Inspection/ Certificat d'inspection - Installation au chantier

I, the undersigned, a duly authorized Boiler and Pressure Vessel Inspector
Je, soussigné, inspecteur autorisé de chaudières et appareil sous pression
 employed by _____
 employé par _____

have inspected the items not covered by the Shop Inspection Certificate and the installation of the items and state that to the best of my knowledge and belief the construction and assembly of the items are in accordance with the Provincial Regulations.

ai inspecté les composantes non couvertes par le certificat d'inspection en usine et l'installation de l'appareil et, autant que je sache, la construction et l'assemblage de l'appareil sont en accord avec les règlements provinciaux.

Inspector's Name/ Nom de l'inspecteur: _____
 Signature: _____ Date: _____

MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Code Rules, Section VIII, Division I

A450608

1. Manufactured and Certified by Natco Canada Ltd. 9423 Shepard Rd. S.E. Calgary. AB. T2C 1E2
2. Manufactured for PENN-WEST PETROLEUM LTD. 300, 1601 WESTMOUNT ROAD NW CALGARY AB T2N 3M3
3. Location of Installation SOUSA SOUTH COMPRESSOR STATION 16-32-110-4 W6M
4. Type HORIZONTAL SEPARATOR 7416-03

(Horizontal, Vertical, or Sphere)
1.8701.2
(CRN)

(Tank, Separator, Heat Exch., etc)
D-7416-03 R/V. 2
(Dwg #)

Mfg's serial No.:
2006
(Year Built)

Data Report Item Number	Purpose	No.	Size	Remarks		Attached		Ref. Mat	How	Where	
				Nozzles Type	Rate	Mat'l Neck	Flg				Thicknc ss
	GAS INLET	N1	12"	RFWN/PIPE	300#	SA 333-6	SA 105N	0.500"	SA 516-70N	UW-16.1(e)	SHELL
	GAS INLET	N2	12"	RFWN/PIPE	300#	SA 333-6	SA 105N	0.500"	SA 516-70N	UW-16.1(e)	SHELL
	DRAIN/WATER OUT.	N3	4"	RFWN/PIPE	300#	SA 106B	SA 105N	0.337"	SA 516-70N	UW-16.1(e)	BOOT
	SPARE	N4	4"	RFWN/PIPE	300#	SA 105N	SA 105N	0.337"	SA 516-70N	UW-16.1(e)	SHELL
	I.C (FUTURE)	N5	6"	RFWN/PIPE	300#	SA 106B	SA 105N	0.432"	INTERGAL	UW-16.1(e)	BOOT
	COND. OUT	N6	2"	RFWN/PIPE	300#	SA 106B	SA 105N	0.344"	INTERGAL	UW-16.1(e)	SHELL
	LT	N7	4"	RFWN/PIPE	300#	SA 106B	SA 105N	0.531"	SA 516-70N	UW-16.1(e)	SHELL
	LG	C2A	3/4"	CPLG	6000#	SA 105N	-	6000#	INTERGAL	UW-16.1(e)	BOOT
	LG	C2B	3/4"	CPLG	6000#	SA 105N	-	6000#	INTERGAL	UW-16.1(e)	BOOT
	LG	C3A	2"	RFWN/PIPE	300#	SA 106B	SA 105N	0.344"	INTERGAL	UW-16.1(e)	SHELL
	LG	C3B	2"	RFWN/PIPE	300#	SA 106B	SA 105N	0.344"	INTERGAL	UW-16.1(e)	SHELL
	TI (FUTURE)	C4	3/4"	CPLG	6000#	SA 105N	-	6000#	INTERGAL	UW-16.1(e)	SHELL
	TI	C5	2"	RFWN/PIPE	300#	SA 106B	SA 105N	0.344"	INTERGAL	UW-16.1(e)	SHELL
	PI	C6	2"	RFWN/PIPE	300#	SA 106B	SA 105N	0.344"	INTERGAL	UW-16.1(e)	SHELL
	dPT	C7A	2"	RFWN/PIPE	300#	SA 106B	SA 105N	0.344"	INTERGAL	UW-16.1(e)	SHELL
	dPT	C7B	2"	RFWN/PIPE	300#	SA 106B	SA 105N	0.344"	INTERGAL	UW-16.1(e)	SHELL
	BOOT	B1	24"	PLATE	-	SA 516-70N	-	1.25"	SA 516-70N	UW-16.1(e)	SHELL
	MANWAY	M1	24"	RFWN/PL	300#	SA 516-70N	SA 105N	1.25"	SA 516-70N	UW-16.1(e)	HEAD

Certificate of Authorization: Type "U" No. 11,313 Expires SEPT. 9, 2001.

Date FEB 8 / 2007 Name Natco Canada Ltd. Signed _____

Date 00/02/08 Name [Signature] Commission ALBERTA 55

Shop Order #: 7416-03