



**Global Survey Solutions Ltd.**

Your Reference : SF 5426

Castor Petroleum

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For the attention of

Report no.	PA 02483
Date of report	September 5, 2007
Vessel	Nordic Jupiter
Location	Petroterminal, Chiriqui Grande
Product	Vasconia Crude Oil, Napo Crude Oil
B/Lading date	September 4, 2007

**LOADED FOR DESTINATION: Galveston**

We have pleasure in enclosing herewith, our report for the above referenced inspection.

Please note the following in this respect:

Report distribution has been effected as follows:

To yourselves and our Global Survey Solutions Ltd. Office via e-mail. Hard copy retained on file.  
Invoice to follow from our Global Survey Solutions Ltd. Office.

Should you have any query, or require any additional information, please contact  
Mr. Jose Velasques at our Global Survey Solutions Ltd. office (Telephone number ).

For Global Survey Solutions Ltd. ....



Report no. PA 02483  
 Date of report September 5, 2007  
 Vessel Nordic Jupiter  
 Location Petroterminal, Chiriqui Grande  
 Product Vasconia Crude Oil, Napo Crude Oil  
 B/Lading date September 4, 2007

## KEY MEETING

Date of Key Meeting :	September 2, 2007	from Hrs	16:40	to	17:30
Individuals Present at This Key Meeting:	<b>Name</b>	<b>Title</b>			
Vessel Representative	Chief Mate	Chief Officer			
Terminal Representative	Acuncion Rodriguez	Loading Master			
Global Survey Solutions Ltd.	Jose Velasques	Surveyor			

<input checked="" type="checkbox"/> At Loading	<input type="checkbox"/> At Transfer	<input type="checkbox"/> At Discharge	<input checked="" type="checkbox"/> Crude Oil	<input type="checkbox"/> Dark Products	<input type="checkbox"/> Clean Products	<input type="checkbox"/> Chemicals / Gases
--	--------------------------------------	---------------------------------------	---	--	---	--

Above Vessel will	<input checked="" type="checkbox"/> Load	<input type="checkbox"/> Ship-to-ship Transfer	<input type="checkbox"/> At This Terminal
	<input type="checkbox"/> Discharge	<input type="checkbox"/> Internal Transfer	<input checked="" type="checkbox"/> At (Specify) _____
	<input type="checkbox"/> Blend	<input type="checkbox"/> Other _____	

Following Quantity(ies) of:		Quantities	+/-	Units in:
Vasconia Crude Oil	Volume of	450,000.00		Barrels at Standard Temperature
Napo Crude Oil	Volume of	551,685.00		Barrels at Standard Temperature

The Above Quantity(ies):	Will Be Determined by:	<input checked="" type="checkbox"/> Shore Stop	<input type="checkbox"/> Ship Stop
	Will Be:	<input checked="" type="checkbox"/> Shore Tank(s)	<input type="checkbox"/> Vessel Tank(s)
	<input type="checkbox"/> Delivered fro Delivered from	Tank(s) No.	Port / Stbd 1, 4, 6 - Vasconia Crude Oil
	<input checked="" type="checkbox"/> Received int Received into		Port / Stbd 2, 3, 5 - Napo Crude Oil

Cargo requires: ☒ Segregation ☐ Separation ☐ Volumetric Blending

Are stop gauges:

	Yes	No	
▶ taken by the Inspector	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
▶ taken by Vessel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
▶ witnessed by Inspector	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			Yes No

Were discharge procedures and plans reviewed and understood by everyone concerned? ☒ ☐

### Includes:

<input checked="" type="checkbox"/> Arrangements for sampling vessel tanks	<input type="checkbox"/> Before	<input checked="" type="checkbox"/> After	<input type="checkbox"/> Discharge	<input checked="" type="checkbox"/> Load
<input checked="" type="checkbox"/> Capacity Nominated to receive product			<input type="checkbox"/> Shore tanks	<input checked="" type="checkbox"/> Vessel Tanks
<input checked="" type="checkbox"/> Arrangements for sampling from vessel manifold during			<input type="checkbox"/> Discharging	<input checked="" type="checkbox"/> Loading
<input checked="" type="checkbox"/> Line displacements to be performed				
<input type="checkbox"/>				
<input checked="" type="checkbox"/> Will be stopped as per instructions of	<input type="checkbox"/> Charter	<input checked="" type="checkbox"/> Vessel	<input type="checkbox"/> Terminal	

### Remarks:

Henry Gomez  
 Vessel Representative

Acuncion Rodriguez  
 Terminal Representative

Jose Velasques  
 Global Survey Solutions Ltd.



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## CHECK LIST

No.	BEFORE LOADING	MPMS	Yes / No / N/A
1	Was a key meeting held with the vessel representative and shore representative?	17.1.12.1	Yes
2	Were all shore lines checked and shore tanks gauged?	17.1.12.2.1. 17.1.12.2.2.	Yes
3	Were temperatures taken in all shore receipt tanks?	17.1.12.3	Yes
4	Was the temperature device checked prior to use?	17.1.12.3.1 17.1.12.3.2	Yes
5	Were all automatic tank gauging and temperatures devices checked?	17.1.12.3.4	N/A
6	Were all shore tanks sampled?	17.1.12.4.1	Yes
7	Was an automatic sampler used?	17.1.12.4.2	No
8	Were meters used in loading the vessel?	17.1.12.5	No
9	Was vessel experience factor data available from the vessel representative?	17.1.12.6.1	Yes
10	Were draft, trim, and list recorded?	17.1.12.6.2	Yes
11	Were vessel lines drained into the cargo compartments?	17.1.12.6.3	Yes
12	Were all arrival ullages, temperatures, and water measurements taken on the vessel?	17.1.12.6.4	Yes
		17.1.12.6.5	17.1.12.6.6
13	Were all ballast tanks checked?	17.1.12.6.7	Yes
14	Were vessel samples taken from each compartment?	17.1.12.6.8	Yes
15	Were load port samples collected from the vessel and a receipt issued?	17.1.12.6.9	Yes
16	Were sea valves found to be intact and seal numbers recorded?	17.1.12.6.10	Yes
17	Were bunker quantities verified?	17.1.12.6.11	Yes
18	Were volumes calculations completed before loading began?	17.1.12.6.12	Yes
19	Was an in-transit difference determined?	17.1.12.6.13	Yes
DURING LOADING			
20	Were any unusual problems encountered?	17.1.13.1	No
21	Was a Line sample taken?	17.1.13.2	N/A
22	Were meters proved?	17.1.13.3	No
23	Was a Vessel Loading Record prepared?	17.1.13.4	No
24	Was a Time Log prepared?	17.1.13.5	Yes
AFTER LOADING			
25	Were draft, trim, and list recorded?	17.1.14.1	Yes
26	Were all vessel deck lines checked for remaining cargo?	17.1.14.2	Yes
27	Were remaining on board gauges taken?	17.1.14.3	Yes
28	Was quantity remaining on board measured at a different point than the ullage?	17.1.14.4	No
29	Were wedge, trim or list corrections used?	17.1.14.4	No
30	Was a Remaining on board Report completed?	17.1.14.4	Yes
31	Was a sample taken of the material remaining on board?	17.1.14.5	Yes
32	Were temperatures available for quantities remaining on board?	17.1.14.6	No
33	Were sea valves found to be intact from load port?	17.1.14.7	Yes
34	Were bunker quantities verified?	17.1.14.8	Yes
35	Was crude oil washing carried out?	17.1.14.9	Yes
36	Were all shorelines inspected to determine quantity?	17.1.15.1	Yes
37	Was all shore tank gauges taken?	17.1.15.2	Yes
38	Were tank samples taken from shore tanks?	17.1.15.4	Yes
39	Were proper automatic sampling and sample mixing performed?	17.1.15.5	No
40	Were copies of meter tickets and proving reports obtained?	17.1.15.6	Yes
41	Was a loading port voyage analysis made?	17.1.16.2	Yes
42	Was a vessel experience factor used for volume reconciliation ?	17.1.16.2	No
43	Were all laboratory test performed and witnessed by qualified personnel?	17.1.16.3	Yes
44	Were any Letters of Protest or Notice of Apparent Discrepancy issued?	17.1.16.4	No

\*CUSTOMER PRODUCT DESCRIPTION

**Henry Gomez**  
 Vessel Representative

**Acuncion Rodriguez**  
 Terminal Representative

**Jose Velasques**  
 Global Survey Solutions Ltd.



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Letter Of Protest On Discrepancy (Napo Crude Oil)	One
Letter Of Protest	One
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## SUMMARY OF GROSS BILL OF LADING QUANTITIES

### Bill of Ladings for Vasconia Crude Oil

Summary of Gross Quantities			
Bill of Lading No.	US barrels @ 60°F	Long Tons	Metric Tons (in Air)
1	450,287.43	63,323.920	64,341.570
<b>Total</b>	450,287.43	63,323.920	64,341.570

API
25.60

### Bill of Ladings for Napo Crude Oil

Summary of Gross Quantities			
Bill of Lading No.	US barrels @ 60°F	Long Tons	Metric Tons (in Air)
2	552,424.13	80,885.940	82,184.140
<b>Total</b>	552,424.13	80,885.940	82,184.140

API
19.40



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## SUMMARY OF NET BILL OF LADING QUANTITIES

### Bill of Ladings for Vasconia Crude Oil

Summary of Net Quantities			
Bill of Lading No.	US barrels @ 60°F	Long Tons	Metric Tons (in Air)
1	450,017.26	63,285.930	64,302.970
<b>Total</b>	450,017.26	63,285.930	64,302.970

Sed., % vol.	Water, % vol.
0.01	0.05

### Bill of Ladings for Napo Crude Oil

Summary of Net Quantities			
Bill of Lading No.	US barrels @ 60°F	Long Tons	Metric Tons (in Air)
2	550,435.40	80,594.750	81,888.270
<b>Total</b>	550,435.40	80,594.750	81,888.270

Sed., % vol.	Water, % vol.
0.01	0.35

Global Survey Solutions Ltd. Inspector: Jose Velasques



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## SUMMARY OF GROSS QUANTITIES

B/Lading date September 4, 2007

Product	Vasconia Crude Oil	Napo Crude Oil			
<b>US BARRELS AT 60°F (GROSS STANDARD VOLUME)</b>					<b>Total</b>
Total of Bills of Lading	450,287.430	552,424.130			1,002,711.560
Vessel's loaded quantity	449,480.722	552,625.988			1,002,106.710
Difference	-806.708	201.858			-604.850
% Difference	-0.179	0.037			-0.060
Total of Bills of Lading	450,287.430	552,424.130			1,002,711.560
Vessel adjusted by VEF	449,705.575	552,902.439			1,002,608.014
Difference	-581.855	478.309			-103.546
% Difference	-0.129	0.087			-0.010
Loaded by ship excluding	449,480.722	552,625.988			1,002,106.710
Loaded quantity by shore	422,401.370	552,455.720			974,857.090
Difference	-27,079.352	-170.268			-27,249.620
% Difference	-6.025	-0.031			-2.719
<b>LONG TONS (GROSS WEIGHT)</b>					<b>Total</b>
Total of Bills of Lading	63,323.920	80,885.940			144,209.860
Vessel's loaded quantity	63,332.930	81,022.403			144,355.333
Difference	9.010	136.463			145.473
% Difference	0.014	0.169			0.101
Total of Bills of Lading	63,323.920	80,885.940			144,209.860
Vessel adjusted by VEF	63,364.612	81,062.934			144,427.547
Difference	40.692	176.994			217.687
% Difference	0.064	0.219			0.151
Loaded by ship excluding	63,332.930	81,022.403			144,355.333
Loaded quantity by shore	59,403.576	80,889.950			140,293.526
Difference	-3,929.354	-132.453			-4,061.807
% Difference	-6.204	-0.163			-2.814
<b>METRIC TONS IN AIR (GROSS WEIGHT)</b>					<b>Total</b>
Total of Bills of Lading	64,341.570	82,184.140			146,525.710
Vessel's loaded quantity	64,349.227	82,322.563			146,671.790
Difference	7.657	138.423			146.080
% Difference	0.012	0.168			0.100
Total of Bills of Lading	64,341.570	82,184.140			146,525.710
Vessel adjusted by VEF	64,381.418	82,363.745			146,745.163
Difference	39.848	179.605			219.453
% Difference	0.062	0.219			0.150
Loaded by ship excluding	64,349.227	82,322.563			146,671.790
Loaded quantity by shore	60,356.821	82,187.984			142,544.805
Difference	-3,992.406	-134.579			-4,126.985
% Difference	-6.204	-0.163			-2.814

**REMARKS:** Vessel Experience Factor (VEF) : 0.9995

For Global Survey Solutions Ltd. ....



## SUMMARY OF NET QUANTITIES

Report no. PA 02483  
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 Product Vasconia Crude Oil  
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Product	Vasconia Crude Oil	Napo Crude Oil			
<b>US BARRELS AT 60°F (NET STANDARD VOLUME)</b>					<b>Total</b>
Total of Bills of Lading	450,017.260	550,435.400			1,000,452.660
Vessel's loaded quantity	449,211.030	550,636.530			999,847.560
Difference	-806.230	201.130			-605.100
% Difference	-0.179	0.037			-0.060
Total of Bills of Lading	450,017.260	550,435.400			1,000,452.660
Vessel adjusted by VEF	449,435.748	550,911.986			1,000,347.734
Difference	-581.512	476.586			-104.926
% Difference	-0.129	0.087			-0.010
Loaded by ship excluding	449,211.030	550,636.530			999,847.560
Loaded quantity by shore	422,147.930	550,466.880			972,614.810
Difference	-27,063.100	-169.650			-27,232.750
% Difference	-6.025	-0.031			-2.724
<b>LONG TONS (NET WEIGHT)</b>					<b>Total</b>
Total of Bills of Lading	63,285.930	80,594.750			143,880.680
Vessel's loaded quantity	63,294.929	80,730.722			144,025.651
Difference	8.999	135.972			144.971
% Difference	0.014	0.169			0.101
Total of Bills of Lading	63,285.930	80,594.750			143,880.680
Vessel adjusted by VEF	63,326.592	80,771.108			144,097.700
Difference	40.662	176.358			217.020
% Difference	0.064	0.219			0.151
Loaded by ship excluding	63,294.929	80,730.722			144,025.651
Loaded quantity by shore	59,367.934	80,598.746			139,966.680
Difference	-3,926.995	-131.976			-4,058.971
% Difference	-6.204	-0.163			-2.818
<b>METRIC TONS IN AIR (NET WEIGHT)</b>					<b>Total</b>
Total of Bills of Lading	64,302.970	81,888.270			146,191.240
Vessel's loaded quantity	64,310.617	82,026.201			146,336.818
Difference	7.647	137.931			145.578
% Difference	0.012	0.168			0.100
Total of Bills of Lading	64,302.970	81,888.270			146,191.240
Vessel adjusted by VEF	64,342.788	82,067.235			146,410.023
Difference	39.818	178.965			218.783
% Difference	0.062	0.219			0.150
Loaded by ship excluding	64,310.617	82,026.201			146,336.818
Loaded quantity by shore	60,320.607	81,892.107			142,212.714
Difference	-3,990.010	-134.094			-4,124.104
% Difference	-6.204	-0.163			-2.818

**REMARKS:** Vessel Experience Factor (VEF) : 0.9995

For Global Survey Solutions Ltd. ....



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## STATEMENT OF QUANTITIES

Consignee,

The undersigned, Independent Inspector, herewith declares that the quantity of Vasconia Crude Oil loaded to the above mentioned vessel based on shore figures amounts to:

	<u>GROSS</u>	<u>NET</u>
Gallons at 60°F	17,740,858	17,730,213
Barrels at 60°F	422,401.37	422,147.93
Long Tons	59,403.576	59,367.934
Metric Tons (air)	60,356.821	60,320.607
Kilograms (air)	60,356,821	60,320,607

The above mentioned quantities were determined by measurements taken from shore tanks, calculations by Terminal Computer, checked by ourselves and API at 60°F as advised by Terminal, checked by ourselves

API AT 60°F **25.6**

For Global Survey Solutions Ltd. ....



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## STATEMENT OF QUANTITIES

Consignee,

The undersigned, Independent Inspector, herewith declares that the quantity of Napo Crude Oil

loaded to the above mentioned vessel based on shore figures amounts to:

	<u>GROSS</u>	<u>NET</u>
Gallons at 60°F	23,203,140	23,119,609
Barrels at 60°F	552,455.72	550,466.88
Long Tons	80,889.950	80,598.746
Metric Tons (air)	82,187.984	81,892.107
Kilograms (air)	82,187,984	81,892,107

The above mentioned quantities were determined by measurements taken from shore tanks, calculations by Terminal Computer, checked by ourselves and API at 60°F as advised by Terminal, checked by ourselves

API AT 60°F

**19.4**

For Global Survey Solutions Ltd. ....



## TIME LOG

Report no. PA 02483  
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<u>Date</u>	<u>Time</u>	
29-Aug-2007	08:30	Vessel arrived at "End of Sea Passage"
29-Aug-2007	08:42	Notice of Readiness tendered
29-Aug-2007	08:42	Pilot on board
29-Aug-2007	10:12	Anchor dropped
29-Aug-2007	12:00	Port Authorities on board
29-Aug-2007	12:30	Free pratique granted
29-Aug-2007	13:00	Awaiting for Tug boat
2-Sep-2007	14:00	Pilot on board
2-Sep-2007	14:06	Anchor aweigh
2-Sep-2007	15:24	First Line at North Buoy
2-Sep-2007	15:42	All fast at North Buoy
2-Sep-2007	16:30	Gangway Down and Secured
2-Sep-2007	16:30	Surveyor on board
2-Sep-2007	16:48	Notice of Readiness Accepted
2-Sep-2007	16:48	Loading Hoses (2 x 12") Connected
2-Sep-2007	17:00	Commenced Vessel's Tanks Inspection
2-Sep-2007	17:30	Before Loading Key Meeting Held
2-Sep-2007	17:30	Completed Vessels Tanks Inspection
2-Sep-2007	17:54	OBQ Figures Calculation completed
2-Sep-2007	18:18	Commenced Loading /Line displacement - vasconia Parcel
2-Sep-2007	19:36	Completed Line Displacement

Delays/Stoppages/Additional Times:

Shore Tank Gauging Times:

Average Loading Rate:

Vasconia Crude Oil

5,902.896 Metric Tons per hour (based on Total quantity of Bill(s) of Lading)  
 64,341.570 Metric Tons divided by 10 hours 54 minutes

Napo Crude Oil

3,573.223 Metric Tons per hour (based on Total quantity of Bill(s) of Lading)  
 82,184.140 Metric Tons divided by 23 hours



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## ADDITIONAL TIME LOG

<u>Date</u>	<u>Time</u>	
2-Sep-2007	20:36	Resumed Loading
3-Sep-2007	01:00	Commenced deballasting
4-Sep-2007	04:42	Suspended Loading due to Terminal's Request
4-Sep-2007	05:42	Commenced Line Push from Shore tank 303 to vessel with Napo Crude Oil
4-Sep-2007	07:12	Completed Line Push from Shore Tank 303 with Napo C.O. (Vasconia Completed
4-Sep-2007	07:54	Resumed Loading Napo Parcel
4-Sep-2007	22:00	Completed Deballasting
5-Sep-2007	04:42	Completed Loading Napo Parcel
5-Sep-2007	04:42	Commenced Final Vessel Tanks Inspection
5-Sep-2007	05:36	Completed Final Vessel Tanks Inspection
5-Sep-2007	06:06	Completed calculations of Cargo Quantities
5-Sep-2007	06:15	Surveyor agreed Shore Figures with Terminal
5-Sep-2007	07:18	Hoses disconnected
5-Sep-2007	08:18	Documents signed
5-Sep-2007	08:48	Last Line
5-Sep-2007	08:48	Surveyor disembarked
5-Sep-2007	10:00	Vessel sailed
10-Sep-2007	AM	Estimated Arrival Time at the Next Port (Galveston)

Global Survey Solutions Ltd. Inspector: Jose Velasques

For Global Survey Solutions Ltd. ....



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## REPORT OF SHORE BASED QUANTITY

Tank No.		Total Measured Feet - Inches	Free Water Ft - Inches	Total Observed Volume US barrels	Free Water Volume US barrels	Roof Allowance US barrels	Gross Observed Volume (GOV) US barrels	Shell Correction	GOV with shell correction US barrels	Temp °F	API at 60°F	CTL by Table 6A	Gross Standard Volume US bbls @ 60°F	S & W vol. %	Net Standard Volume US bbls @ 60°F
302	Before	34' 00 11/16"	1' 10 7/8"	437,093.78	26.67	32,845.73	404,221.38	1.00000	404,221.38	87.5	25.60	0.98837	399,520.29	0.0600	399,280.58
	After	33' 02 3/4"	1' 10 7/8"	426,654.82	26.67	32,845.73	393,782.42	1.00000	393,782.42	87.5	25.60	0.98837	389,202.73	0.0600	388,969.21
	Difference			10,438.96			10,438.96		10,438.96				10,317.56		10,311.37
302	Before	33' 02 3/4"	1' 10 7/8"	426,654.82	26.67	32,845.73	393,782.42	1.00000	393,782.42	87.5	25.60	0.98837	389,202.73	0.0600	388,969.21
	After	02' 00 1/2"	00' 00"	32.83			32.83	1.00000	32.83	85.5	25.60	0.98922	32.48	0.0600	32.46
	Difference			426,621.99		32,845.73	393,749.59		393,749.59				389,170.25		388,936.75
303	Before	61' 08 1/4"	02' 02"	785,143.95	55.24	32,790.94	752,297.77	1.00000	752,297.77	85.5	25.60	0.98922	744,188.00	0.0600	743,741.49
	After	59' 10 1/4"	02' 02"	761,980.69	55.24	32,790.94	729,134.51	1.00000	729,134.51	85.5	25.60	0.98922	721,274.44	0.0600	720,841.68
	Differen			23,163.26			23,163.26		23,163.26				22,913.56		22,899.81
	Before														
	After														
	Difference														
	Before														
	After														
	Difference														
Pipelines+RTW															
Totals:							427,351.81						422,401.37		422,147.93

Average Temperature	87.4
Average API at 60°F	25.6

Totals	Gross	Net
Gallons at 60°F	17,740,858	17,730,213
Barrels at 60°F	422,401.37	422,147.93
Long Tons	59,403.576	59,367.934
Metric Tons	60,356.821	60,320.607
Kilograms	60,356,821	60,320,607

Notes: # - None Found/Not measured/Not measurable/Not Applicable  
 Origin of API: as advised by Terminal, checked by ourselves  
 Pipelines: Reported (by Installation) to be Full

Global Survey Solutions Ltd. Inspector: Jose Velasques



Report no. PA 02483  
 Date of report September 5, 2007  
 Vessel Nordic Jupiter  
 Location Petroterminal, Chiriqui Grande  
 Product Napo Crude Oil  
 B/Lading date September 4, 2007

## REPORT OF SHORE BASED QUANTITY

Tank No.		Total Measured Feet - Inches	Free Water Ft - Inches	Total Observed Volume US barrels	Free Water Volume US barrels	Roof Allowance US barrels	Gross Observed Volume (GOV) US barrels	Shell Correc- tion	GOV with shell correction US barrels	Temp °F	API at 60°F	CTL by Table 6A	Gross Standard Volume US bbls @ 60°F	S & W vol. %	Net Standard Volume US bbls @ 60°F
303	Before	59' 10 1/4"	02' 02"	761,980.69	55.24	30,201.06	731,724.39	1.00000	731,724.39	85.5	19.40	0.99006	724,451.05	0.3600	721,843.03
	After	15' 07 1/8"	0' 00"	203,838.92		30,178.18	173,660.74	1.00000	173,660.74	84.6	19.40	0.99041	171,995.33	0.3600	171,376.15
	Difference			558,141.77		22.88	558,063.65		558,063.65				552,455.72		550,466.88
	Before														
	After														
	Difference														
	Before														
	After														
	Difference														
	Before														
	After														
	Difference														
	Before														
	After														
	Difference														
Pipelines+RTW															
Totals:							558,063.65						552,455.72		550,466.88

Average Temperature	85.8
Average API at 60°F	19.4

Totals	Gross	Net
Gallons at 60°F	23,203,140	23,119,609
Barrels at 60°F	552,455.72	550,466.88
Long Tons	80,889.950	80,598.746
Metric Tons	82,187.984	81,892.107
Kilograms	82,187,984	81,892,107

Notes: # - None Found/Not measured/Not measurable/Not Applicable  
 Origin of API: as advised by Terminal, checked by ourselves  
 Pipelines: Reported (by Installation) to be Full

Global Survey Solutions Ltd. Inspector: Jose Velasques



## ON BOARD QUANTITY (O.B.Q.) REPORT

## SUMMARY OF QUANTITY

Draft of Vessel:
Fwd: 6.00m
Aft: 9.00 m
Trim: 3.00 m
List: Nil

Sea Valve Seal Numbers:
Port:
Stbd:
Overboard:

Global Survey Solutions Ltd. Inspector: Jose Velasques



## ULLAGE REPORT, VESSEL AFTER LOADING

### Summary of Products:

Origin of API:	As witnessed by ourselves at Refinery laboratory
Origin of Measurements:	Vessel automatic gauging system - practicality reasons prevented check with Surveyor's equipment

Global Survey Solutions Ltd. Inspector: Jose Velasques

List: Nil





# REPORT OF SHIP TEST RESULTS

Report no.	PA 02483
Date of report	September 5, 2007
Vessel	Nordic Jupiter
Location	Petroterminal, Chiriqui Grande
Product	Vasconia Crude Oil
B/Lading date	September 4, 2007

Sample of: Vasconia Crude Oil

Sample drawn by: Surveyor on the: 04-Sep-07

Sample description: Multiple ship's tanks sample

Testing performed by: Lab Technician

on the: 4-Sep-2007

<u>Test</u>	<u>Method</u>	<u>Results</u>
API Gravity @ 60°F	ASTM D 287	25.3
Water by Distillation, % by volume	ASTM D 4006	0.05
Sediments by Extraction, % by volume	ASTM D 473	0.01

For Global Survey Solutions Ltd. ....

Carlos Ribeiro

When testing is witnessed by Global Survey Solutions Ltd., our responsibility is solely to ensure that the testing is conducted to standard test methods in accordance with industry accepted practices. Global Survey Solutions Ltd. are not responsible for apparatus, instrumentation or measuring devices, the calibration of same and their working order. Reagents and solutions are accepted as prepared.

The terms and conditions of business of Global Survey Solutions Ltd. will apply.

Any terms or conditions of the customer shall not apply except as accepted in writing by us.



# REPORT OF SHIP TEST RESULTS

Report no.	PA 02483
Date of report	September 5, 2007
Vessel	Nordic Jupiter
Location	Petroterminal, Chiriqui Grande
Product	Napo Crude Oil
B/Lading date	September 4, 2007

Sample of: Napo Crude Oil

Sample drawn by: Surveyor on the: 05-Sep-07

Sample description: Multiple ship's tanks sample

Testing performed by: Lab Technician

on the: 5-Sep-2007

<u>Test</u>	<u>Method</u>	<u>Results</u>
API Gravity @ 60°F	ASTM D 287	19.2
Water by Distillation, % by volume	ASTM D 4006	0.35
Sediments by Extraction, % by volume	ASTM D 473	0.01

For Global Survey Solutions Ltd. ....

Carlos Ribeiro

When testing is witnessed by Global Survey Solutions Ltd., our responsibility is solely to ensure that the testing is conducted to standard tests methods in accordance with industry accepted practices. Global Survey Solutions Ltd. are not responsible for apparatus, instrumentation or measuring devices, the calibration of same and their working order. Reagents and solutions are accepted as prepared.

The terms and conditions of business of Global Survey Solutions Ltd. will apply.

Any terms or conditions of the customer shall not apply except as accepted in writing by us.



# REPORT OF SHORE TEST RESULTS

Report no.	PA 02483
Date of report	September 5, 2007
Vessel	Nordic Jupiter
Location	Petroterminal, Chiriqui Grande
Product	Vasconia Crude Oil
B/Lading date	September 4, 2007

Sample of: Vasconia Crude Oil

Sample drawn by: Surveyor on the: 02-Sep-07

Sample description: Multiple shore tank sample from shore tank No. 302

Testing performed by:      Lab Technician

on the: 2-Sep-2007

<u>Test</u>	<u>Method</u>	<u>Results</u>
API Gravity @ 60°F	ASTM D 287	25.6
Water by Distillation, % by volume	ASTM D 4006	0.05
Sediments by Extraction, % by volume	ASTM D 473	0.01

For Global Survey Solutions Ltd. ....

Carlos Ribeiro

When testing is witnessed by Global Survey Solutions Ltd., our responsibility is solely to ensure that the testing is conducted to standard tests methods in accordance with industry accepted practices. Global Survey Solutions Ltd. are not responsible for apparatus, instrumentation or measuring devices, the calibration of same and their working order. Reagents and solutions are accepted as prepared.

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Any terms or conditions of the customer shall not apply except as accepted in writing by us.



# REPORT OF SHORE TEST RESULTS

Report no.	PA 02483
Date of report	September 5, 2007
Vessel	Nordic Jupiter
Location	Petroterminal, Chiriqui Grande
Product	Napo Crude Oil
B/Lading date	September 4, 2007

Sample of: Napo Crude Oil

Sample drawn by: Surveyor on the: 03-Sep-07

Sample description: Multiple shore tank sample from shore tank No. 303

Testing performed by: Lab Technician

on the: 3-Sep-2007

<u>Test</u>	<u>Method</u>	<u>Results</u>
API Gravity @ 60°F	ASTM D 287	19.4
Water by Distillation, % by volume	ASTM D 4006	0.35
Sediments by Extraction, % by volume	ASTM D 473	0.01

For Global Survey Solutions Ltd. ....

Carlos Ribeiro

When testing is witnessed by Global Survey Solutions Ltd., our responsibility is solely to ensure that the testing is conducted to standard test methods in accordance with industry accepted practices. Global Survey Solutions Ltd. are not responsible for apparatus, instrumentation or measuring devices, the calibration of same and their working order. Reagents and solutions are accepted as prepared.

The terms and conditions of business of Global Survey Solutions Ltd. will apply.

Any terms or conditions of the customer shall not apply except as accepted in writing by us.

Report no.	PA 02483
Date of report	September 5, 2007
Vessel	Nordic Jupiter
Location	Petroterminal, Chiriqui Grande
Product	Vasconia Crude Oil, Napo Crude Oil
B/Lading date	September 4, 2007

## RECEIPT FOR SAMPLES

To: Henry Gomez / Chief Mate

Please sign for receipt of the samples listed below :-

[illegible]

Instructions regarding Samples:

**For your care, for destination Galveston**

For Global Survey Solutions Ltd. ....

Jose Velasques

Signed for receipt by: Henry Gomez / Chief Mate

Signature: \_\_\_\_\_



Report no.	PA 02483
Date of report	September 5, 2007
Vessel	Nordic Jupiter
Location	Petroterminal, Chiriqui Grande
Product	Vasconia Crude Oil, Napo Crude Oil
B/Lading date	September 4, 2007

Total Number of Samples Drawn: **20**

Global Survey Solutions Ltd.Inspector: Jose Velasques

**VESSEL TANKS INSPECTION REPORT**

Report no. PA 02483  
Date of report September 5, 2007  
Vessel Nordic Jupiter  
Location Petroterminal, Chiriqui Grande  
Product Vasconia Crude Oil, Napo Crude Oil  
B/Lading date September 4, 2007

We hereby report that we, Global Survey Solutions Ltd., attended on board the Vessel for the purpose of visually inspecting the nominated cargo tanks.

We report that the nominated cargo was to be loaded into the following Vessel tanks:

Nominated Cargo	Vasconia Crude Oil	Napo Crude Oil			
Port Tanks:	1, 4, 6	2, 3, 5			
Center Tanks:	N/A	N/A			
Starboard Tanks:	1, 4, 6	2,3,5			

Each of the listed tanks were inspected visually as far as possible at accessible points. In our opinion the exposed internal surfaces of the listed cargo tanks have been found to be visually clean/well drained.

Visual inspection carried out from deck level/tank floor level and from fixed access ladder within the tank.

**PUMPS AND LINES:** The line connections to the aforementioned cargo tanks were closed and/or blanked off at the time inspection.  
The pump(s) and lines to the aforementioned cargo tanks were visually inspected at the openings, as far as possible, without dismantling. As far as visible the pump(s) and the lines were well drained at points of inspection.  
Cargo pump(s) could not be inspected due to restricted access

**HEATING COILS WITHIN THE CARGO TANKS:**  
Tested under normal/full working pressure and found to be tight.  
(Testing not witnessed by Surveyor.)  
Tightness not tested.

**TANK CONSTRUCTION MATERIAL:**  
Reported by the Vessel to be Mild Steel.

**TANK COATING: (as reported by the Vessel)**  
We have been informed that the interior of the cargo tanks are not coated.  
Suitability of the coating for the intended cargo must be guaranteed by the Vessel Owners or by the Supplier of the coating.  
The type of coating was reported by the Vessel to be Epoxy.

**PREVIOUS 3 CARGOES CARRIED BY THE VESSEL: (reported to be)**

Cargo Tank	1, 2, 3, 4,								
Last:	Napo Crud								
Second Last:	Napo Crud								
Third Last:	Napo Crud								

**TANK CLEANING:**  
We have been informed by the vessel that tank cleaning was carried out as follows:  
Crude Oil Washing

This report does not cover the state of cleanliness and dryness of Vessel tanks, pump(s) and line systems at inaccessible spots and/or possible release of previous cargoes during loading, discharge or transport of the cargo, for which the Vessel is full responsible.

This report represents our finding at the time and on the date of our inspection.



## VESSEL EXPERIENCE FACTOR REPORT

Report no. PA 02483  
 Date of report September 5, 2007  
 Vessel Nordic Jupiter  
 Location Petroterminal, Chiriqui Grande  
 Product Vasconia Crude Oil, Napo Crude Oil  
 B/Lading date September 4, 2007

The following "**Vessel Experience Factor**" (VEF), has been calculated according to IP Petroleum Measurement Manual Part 16 (Annex C, Method 1), in which the following is noted (see also "REMARKS", below):

- (a) There must be a minimum of five qualifying voyages, but more are preferred.
- (b) Voyages prior to any structural modification which may affect cargo capacities do not qualify.
- (c) Voyages where shore quantities are not available do not qualify.
- (d) No minimum percentage capacity is specified for qualification.
- (e) It is not advised whether quantities should be stated as weight or volume.

Voyage	Cargo	Load Port	Date	Vessel (A)	Shore (B)	Load Ratio (A) / (B)	Qualify Yes / No
Last	Napo Crude Oil	Chiriqui Grande	27-Jul-2007	604,866.000	604,400.000	1.00077	Yes
2nd last	Eocene Crude Oil	Mina Saud, Kuwait	2-Jun-2007	960,914.000	960,526.000	1.00040	Yes
3rd last	Azeri Crude Oil	Ceyhan, Turkey	2-May-2007	1,055,017.000	1,052,007.000	1.00286	No
4th last	Amenam Blend	Odudu, Nigeria	15-Mar-2007	1,002,689.000	1,002,094.000	1.00059	Yes
5th last	Brent Crude Oil	Sullom Voe, UK	2-Feb-2007	994,574.000	993,940.000	1.00064	Yes
6th last	Doba Crude Oil	Kome Kribi	21-Dec-2006	959,274.000	961,332.000	0.99786	Yes
7th last	Okono Crude Oil	Okono, Nigeria	17-Sep-2006	1,041,542.000	1,042,364.000	0.99921	Yes
8th last	Bonga Crude Oil	Bonga, Nigeria	14-Jul-2006	1,043,315.000	1,046,635.000	0.99683	Yes
9th last	Hungo Blend C.O.	Kizomba, Angola	16-May-2006	999,080.000	999,390.000	0.99969	Yes
10th last	Troll Blend C.O.	Mongstad, Norway	13-Apr-2006	1,046,884.000	1,045,662.000	1.00117	Yes
11th last	Yoho Crude Oil	Yoho, Nigeria	22-Mar-2006	996,301.000	1,000,456.000	0.99585	No
12th last	Qua Iboe Crude Oil	Quaiboe, Nigeria	6-Feb-2006	907,477.000	906,654.000	1.00091	Yes
13th last	Oso Condensate	Quaiboe, Nigeria	24-Dec-2005	949,423.000	950,101.000	0.99929	Yes
14th last	Rabi Light C.O.	Cape Lopez, Gabon	19-Nov-2005	970,212.000	970,128.000	1.00009	Yes
15th last	Amenam Blend	Odudu, Nigeria	14-Oct-2005	998,406.000	997,743.000	1.00066	Yes
16th last	Nigerian Crude Oil	Escravos, Nigeria	7-Sep-2005	993,493.000	996,027.000	0.99746	Yes
17th last	Rabi Light C.O.	Cape Lopez, Gabon	31-Jul-2005	961,535.000	961,174.000	1.00038	Yes
18th last	Qua Iboe Crude Oil	Quaiboe, Nigeria	20-Jun-2005	1,045,419.000	1,047,040.000	0.99845	Yes
19th last	Qua Iboe Crude Oil	Quaiboe, Nigeria	11-May-2005	953,159.000	953,144.000	1.00002	Yes
20th last	REBCO	Novorossiysk	15-Mar-2006	975,650.000	978,272.000	0.99732	Yes

Step (b) - Totals, excluding present cargo

19,459,230.000	19,469,089.000
----------------	----------------

Step (c) - Ave. Vessel Load Ratio (VLR), (A) ÷ (B)

0.99949

Permissible VLR range (plus / minus 0.3%)

1.00249	to	0.99649
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Step (g) - Totals of qualifying voyages only

17,407,912.000	17,416,626.000
----------------	----------------

Step (h) - Ave. VLR as step (c), qualifying voys. only

0.99950

VLR (VEF) range (plus / minus 0.3%)

1.00250	to	0.99650
---------	----	---------

**VESSEL EXPERIENCE FACTOR**

**= 0.9995**

REMARKS: Shore quantities derived from ship cargo measurements do not qualify, whether adjusted for VEF or not.

Global Survey Solutions Ltd. Inspector: Jose Velasques





## RECEIPT FOR DOCUMENTS

Report no. PA 02483  
Date of report September 5, 2007  
Vessel Nordic Jupiter  
Location Petroterminal, Chiriqui Grande  
Product Vasconia Crude Oil, Napo Crude Oil  
B/Lading date September 4, 2007

To: Master/Chief Officer of Vessel

Please sign for receipt of the documents listed below :

Before Loading Key Meeting
Check List
Time Log
Vessel Experience Factor
Quantity Certificate for Vasconia Crude Oil
Quantity Certificate for Napo Crude Oil
OBQ Report
Vessel Ullage Report
Receipt for Samples
Sample Distribution Report
Bunker Survey Report
Quality Certificates
<u>Instructions regarding Documents:</u>

Global Survey Solutions Ltd. Inspector: Jose Velasques

SIGNED FOR RECEIPT BY: Henry Gomez / Chief Mate

**BUNKER SURVEY REPORT (FUEL OIL)**

Report no. PA 02483  
 Date of report September 5, 2007  
 Vessel Nordic Jupiter  
 Location Petroterminal, Chiriqui Grande  
 Product Vasconia Crude Oil, Napo Crude Oil  
 B/Lading date September 4, 2007

Vessel information from Chief Engineer

Average bunker consumption per day, Mt:	At Anchorage: 9.00	At Sea: 68.00	In Port: 9.000
Remarks:	Last Port of Call:	Sailing Bunkers at last Port, Mt: 3,728.000	
	Sailing Date: 12-Aug-2007	Time: 12:00	
Properties:	Flash point, °F: N/A	API: 11.3	Sulfur, wt %: N/A

**Inspection upon arrival** Date: 2-Sep-2007 Time: 16:00

Vessel tanks	Ullages		GOV m <sup>3</sup>	API at 60°F	GOV US barrels	Temp. °F	CTL T- 6B	GSV, US barrels at 60°F
	L.E.L.	mts						
No. 1 Port	N/A	1.580	839.9	11.3	5,282.810	93.2	0.98737	5,216.090
No. 1 Stbd	N/A	1.690	865.5	11.3	5,443.830	96.8	0.98600	5,367.620
No. 2 Port	N/A	1.800	890.6	11.3	5,601.700	93.2	0.98737	5,530.950
No. 2 Stbd	N/A	4.550	702.0	11.3	4,415.450	100.4	0.98462	4,347.540
Overflow	N/A	0.440	8.1	11.3	50.950	129.2	0.97358	49.600
Settling	N/A	Visual	57.0	11.3	358.520	140.0	0.96943	347.560
Services	N/A	Visual	64.0	11.3	402.550	199.4	0.94643	380.990

Total GSV US barrels: **21,240.35**  
 Mt / US bbls factor: by API MPMS Chapter 11.5.  
 Metric tons: **3,339.362**

**Inspection prior to sailing** Date: 5-Sep-2007 Time: 06:00

Vessel tanks	Ullages		GOV m <sup>3</sup>	API at 60°F	GOV US barrels	Temp. °F	VCF T- 6B	GSV, US barrels at 60° F
	L.E.L.	mts						
No. 1 Port	N/A	1.610	839.9	11.3	5,282.810	93.2	0.98600	5,216.090
No. 1 Stbd	N/A	1.720	865.5	11.3	5,443.830	96.8	0.98737	5,367.620
No. 2 Port	N/A	1.730	890.6	11.3	5,601.700	93.2	0.98462	5,530.950
No. 2 Stbd	N/A	4.910	683.0	11.3	4,295.940	100.4	0.97358	4,229.870
Overflow	N/A	0.440	8.1	11.3	50.950	129.2	0.96943	49.600
Settling	N/A	Visual	52.0	11.3	327.070	140.0	0.94643	317.070
Services	N/A	Visual	67.1	11.3	422.050	199.4		399.440

Total GSV US bbls: **21,110.64**  
 Mt / US bbls factor: by API MPMS Chapter 11.5.  
 Metric tons: **3,318.969**

Consumption this port: 20.393  
 Elapsed hour: 62.0  
 Per day average: 7.894  
 Did vessel bunker at this port? No

**BUNKER SURVEY REPORT (DIESEL OIL)**

Report no. PA 02483  
 Date of report September 5, 2007  
 Vessel Nordic Jupiter  
 Location Petroterminal, Chiriqui Grande  
 Product Vasconia Crude Oil, Napo Crude Oil  
 B/Lading date September 4, 2007

Vessel information from Chief Engineer

Average bunker consumption per day, Mt:	At Anchorage:	At Sea:	0.10	In Port:
Remarks:	Last Port of Call:	Sailing Bunkers at last Port, Mt: 193.600		
	Sailing Date:	12-Aug-2007	Time:	12:00
Properties:	Flash point, °F:	N/A	API:	11.3
			Sulfur, wt %:	N/A

**Inspection upon arrival** Date: 2-Sep-2007 Time: 16:00

Vessel tanks	Ullages		GOV m <sup>3</sup>	API at 60°F	GOV US barrels	Temp. °F	CTL T- 6B	GSV, US barrels at 60°F
	L.E.L.	mts						
DO Storage Port	N/A	2.460	118.7	31.1	746.600	86.0	0.98831	737.870
DO Storage Stbd	N/A	1.920	89.6	32.9	563.570	86.0	0.98814	556.890
Settling	N/A	Visual	5.5	32.9	34.590	86.0	0.98814	34.180
Services	N/A	Visual	11.2	32.0	70.450	86.0	0.98822	69.620

Total GSV US barrels: **1,398.56**  
 Mt / US bbls factor: by API MPMS Chapter 11.5.  
 Metric tons: **192.124**

**Inspection prior to sailing** Date: Time:

Vessel tanks	Ullages		GOV m <sup>3</sup>	API at 60°F	GOV US barrels	Temp. °F	VCF T- 6B	GSV, US barrels at 60° F
	L.E.L.	mts						
DO Storage Port	N/A	2.460	118.7	31.1	746.600	86.0	0.98831	737.870
DO Storage Stbd	N/A	1.920	89.6	32.9	563.570	86.0	0.98814	556.890
Settling	N/A	Visual	5.5	32.9	34.590	86.0	0.98814	34.180
Services	N/A	Visual	11.2	32.0	70.450	86.0	0.98822	69.620

Total GSV US bbls: **1,398.56**  
 Mt / US bbls factor: by API MPMS Chapter 11.5.  
 Metric tons:

Consumption this port: 192.124  
 Elapsed hour: 62.0  
 Per day average: 74.371  
 Did vessel bunker at this port? No



# LINE DISPLACEMENT REPORT

## SHORE LINE FULLNESS VERIFICATION AS PER LINE DISPLACEMENT

Report no. PA 02483  
 Date of report September 5, 2007  
 Vessel Nordic Jupiter  
 Location Petroterminal, Chiriqui Grande  
 Product Vasconia Crude Oil  
 B/Lading date September 4, 2007

RECEIVED BY VESSEL:					
Tank	Observed Gauges	TOV Observed Volumes	Observed Water Gauges	Free Water Volumes	Gross Observed Volumes
	Metres	US barrels	Metres	US barrels	US barrels
Open					
Close	20.230	5272.12			5,272.12
		5272.12			5,272.12
1 Stbd					
Open					
Close	20.370	4953.85			4,953.85
		4953.85			4,953.85
Totals		10,225.97			<b>10,225.97</b>

DELIVERED BY SHORE:					
Tank	Observed Gauges	TOV Observed Volumes	Observed Water Gauges	Free Water Volumes	Gross Observed Volumes
	Feet - Inches	US barrels	Feet - Inches	US barrels	US barrels
302					
Open	34' 00 11/16"	437093.78	1' 10 7/8"	26.67	437,067.11
Close	33' 02 3/8"	426654.82	1' 10 7/8"	26.67	426,628.15
		10438.96			10,438.96
Open					
Close					
Totals		10,438.96			<b>10,438.96</b>

SHORE LINE DISPLACEMENT CONDITON / RESULT:		
Ship's Figures Received (G.O.V., US barrels)		10,225.97
Shore Figures Delivered (G.O.V., US barrels)		10,438.96
Line Capacity, <b>Vessel</b> (G.O.V. US barrels)		
Apparent <b>Slack</b> (G.O.V. US barrels)		<b>212.99</b>
EVENTS	TIME	DATE
Commenced Line Displacement	18:18	2-Sep-2007
Completed Line Displacement	19:36	2-Sep-2007
Resumed Loading	20:36	2-Sep-2007

Date: 5-Sep-2007  
 Signed by: Acuncion Rodriguez  
 For: Shore Representative

Date: 5-Sep-2007  
 Signed by: Jose Velasques  
 For: Global Survey Solutions Ltd.



## LINE DISPLACEMENT REPORT

### SHORE LINE FULLNESS VERIFICATION AS PER LINE DISPLACEMENT

Report no. PA 02483  
 Date of report September 5, 2007  
 Vessel Nordic Jupiter  
 Location Petroterminal, Chiriqui Grande  
 Product Napo Crude Oil  
 B/Lading date September 4, 2007

RECEIVED BY VESSEL:					
Tank	Observed Gauges	TOV Observed Volumes	Observed Water Gauges	Free Water Volumes	Gross Observed Volumes
	Metres	US barrels	Metres	US barrels	US barrels
Open					
Close					
Open					
Close					
Totals					

DELIVERED BY SHORE:					
Tank	Observed Gauges	TOV Observed Volumes	Observed Water Gauges	Free Water Volumes	Gross Observed Volumes
	Feet - Inches	US barrels	Feet - Inches	US barrels	US barrels
Open					
Close					
Open					
Close					
Totals					

SHORE LINE DISPLACEMENT CONDITON / RESULT:	
Ship's Figures Received (G.O.V., US barrels)	
Shore Figures Delivered (G.O.V., US barrels)	
Line Capacity, <b>Vessel</b> (G.O.V. US barrels)	
Apparent <b>Slack</b> (G.O.V. US barrels)	
EVENTS	TIME
Commenced Line Displacement	
Completed Line Displacement	
Resumed Loading	

Date: \_\_\_\_\_  
 Signed by: \_\_\_\_\_  
 For: Shore Representative

Date: \_\_\_\_\_  
 Signed by: \_\_\_\_\_  
 For: Global Survey Solutions Ltd.



Report no. PA 02483  
Date of report September 5, 2007  
Vessel Nordic Jupiter  
Location Petroterminal, Chiriqui Grande  
Product Vasconia Crude Oil, Napo Crude Oil  
B/Lading date September 4, 2007

**SEALING REPORT**

Page 1 of 2

Tank No./ Location	Valve No.	Valve Position	RI Seal No.	Description
Shore tank 3	N/A	Closed	19570	
Shore tank 3	N/A	Closed	19685	
Shore tank 3	N/A	Closed	20781	
Shore tank 3	3221	Closed	19394	
Shore tank 3	3222	Closed	12088	
Shore tank 3	3229	Open	N/A	
Shore tank 3	3230	Open	N/A	
Shore tank 3	3237	Closed	19959	
Shore tank 3	3238	Closed	12408	
Pipeline	3231	Closed	12206	
Pipeline	3223	Closed	12312	
Pipeline	3239	Closed	12602	
Pipeline	3240	Closed	25212	
Pipeline	3224	Closed	19144	
Pipeline	3232	Open	N/A	
Pipeline	3233	Closed	15667	
Pipeline	3225	Closed	12564	
Pipeline	3241	Closed	12311	
Shore side	3801	Closed	19697	
Shore side	3759	Open	N/A	
Shore side	3760	Open	N/A	
Shore side	3768	Open	N/A	
Shore side	3769	Open	N/A	
Shore side	3761	Open	N/A	
Shore side	3762	Open	N/A	
Shore side	3771	Closed	N/A	
Shore side	3300	Open	N/A	
Shore side	3700	Closed	N/A	
Shore tank 4	3250	Closed	19460	
Shore tank 4	3220	Closed	19854	
Shore tank 4	3251	Closed	N/A	
Shore tank 4	3227	Closed	19557	
Shore tank 4	3236	Relief	N/A	
Shore tank 4	3232	Open	N/A	

Date: 5-Sep-2007  
Signed by: Acuncion Rodriguez  
For: Shore Representative

Date: 5-Sep-2007  
Signed by: Jose Velasques  
For: Global Survey Solutions Ltd.



# VESSEL SEALING REPORT

Date: 5-Sep-2007  
Signed by: Henry Gomez  
For: Shore Representative

Date: 5-Sep-2007  
Signed by: Jose Velasques  
For: Global Survey Solutions Ltd.



Report no. PA 02483  
Date of report September 5, 2007  
Vessel Nordic Jupiter  
Location Petroterminal, Chiriqui Grande  
Product Vasconia Crude Oil, Napo Crude Oil  
B/Lading date September 4, 2007

## SLOP TANKS CERTIFICATE RECORD

Tank No.	Before loading		After loading	
	Port	Starboard	Port	Starboard
Ullage	13.19	22.28	13.19	22.28
Trim correction	3.00	3.00	3.00	3.00
Corrected ullage	13.19	22.28	13.19	22.28
TOV, US barrels	3,321.65	27.05	3,321.65	27.05
Free water sounding	14.93		14.93	
Corr. Free water sounding	14.93		14.93	
Free water, US barrels	2,490.75		2,490.75	
GOV US barrels	830.90	27.05	830.90	27.05
API at observed temperature	19.5	19.5	19.5	19.5
Observed temperature, °F	86.90	86.90	86.90	86.90
API at 60°F	18.0	18.0	18.0	18.0
vcf by Table 6A	0.98971		0.98971	
GSV, US barrels	822.35		822.35	
WCF by API Chapter 11.5.	0.150213692	0.150213692	0.150213692	0.150213692
Metric tons	123.530		123.530	
Previous cargo	Napo Crude Oil	Napo Crude Oil	Napo Crude Oil	Napo Crude Oil
Port loaded	Chiriqui Grande	Chiriqui Grande	Chiriqui Grande	Chiriqui Grande
Loaded API at 60°F	19.5	19.5	19.5	19.5

Remarks:

Date: 5-Sep-2007  
Signed by: Henry Gomez  
For: Ship's Representative

Date: \_\_\_\_\_  
Signed by: \_\_\_\_\_  
For: Global Survey Solutions Ltd.

For: Shore Representative

For:





**Global Survey Solutions Ltd.**

Report no. PA 02483  
Date of report September 5, 2007  
Vessel Nordic Jupiter  
Location Petroterminal, Chiriqui Grande  
Product Vasconia Crude Oil  
B/Lading date September 4, 2007

## LETTER OF PROTEST

**Global Survey Solutions Ltd.**

Telephone :  
Fax :  
E-mail : ops@surveycalc.com

Date:

To:

Dear Sirs,

We have been appointed as Inspectors on the above named vessel. Acting on behalf of our Principals the following is brought to your attention:

A difference between shore-based Bill of Lading quantity and vessel loaded figures in excess of 0.5%:

	<u>US barrels at 60°F</u>
Total of Bills of Lading	450,287.430
Vessel adjusted by VEF	<u>449,705.575</u>
Difference	-581.855
% Difference	-0.129

We hereby reserve the right of our Principals to make reference to the above at a later date.

Signed on behalf of Global Survey Solutions Ltd.  
& printed name:

---

Signed for receipt by & printed name:

---

On behalf of:



Report no. PA 02483  
Date of report September 5, 2007  
Vessel Nordic Jupiter  
Location Petroterminal, Chiriqui Grande  
Product Napo Crude Oil  
B/Lading date September 4, 2007

## LETTER OF PROTEST

**Global Survey Solutions Ltd.**

Telephone :  
Fax :  
E-mail : ops@surveycalc.com

Date:

To:

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A difference between shore-based Bill of Lading quantity and vessel loaded figures in excess of 0.5%:

	<u>US barrels at 60°F</u>
Total of Bills of Lading	552,424.130
Vessel adjusted by VEF	<u>552,902.439</u>
Difference	478.309
% Difference	0.087

We hereby reserve the right of our Principals to make reference to the above at a later date.

Signed on behalf of Global Survey Solutions Ltd.  
& printed name:

---

Signed for receipt by & printed name:

---

On behalf of:



**Global Survey Solutions Ltd.**

Report no. PA 02483  
Date of report September 5, 2007  
Vessel Nordic Jupiter  
Location Petroterminal, Chiriqui Grande  
Product Vasconia Crude Oil, Napo Crude Oil

B/Lading date September 4, 2007

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Signed for receipt by & printed name:

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On behalf of: