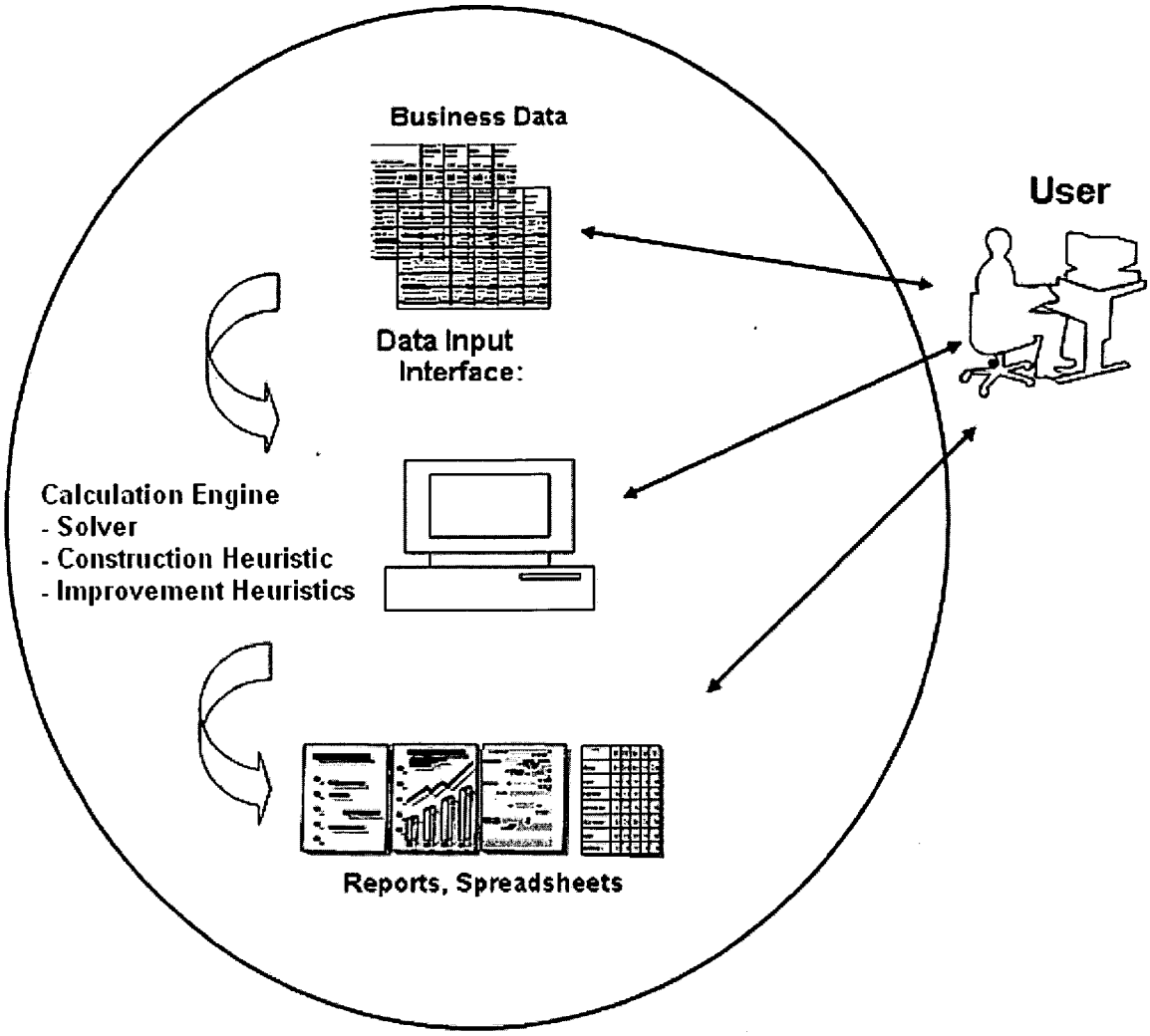

Business Data
User
Data Input
Interface:
Calculation Engine
- Solver
- Construction Heuristic
- Improvement Heuristics
Reports, Spreadsheets

FIG. 1

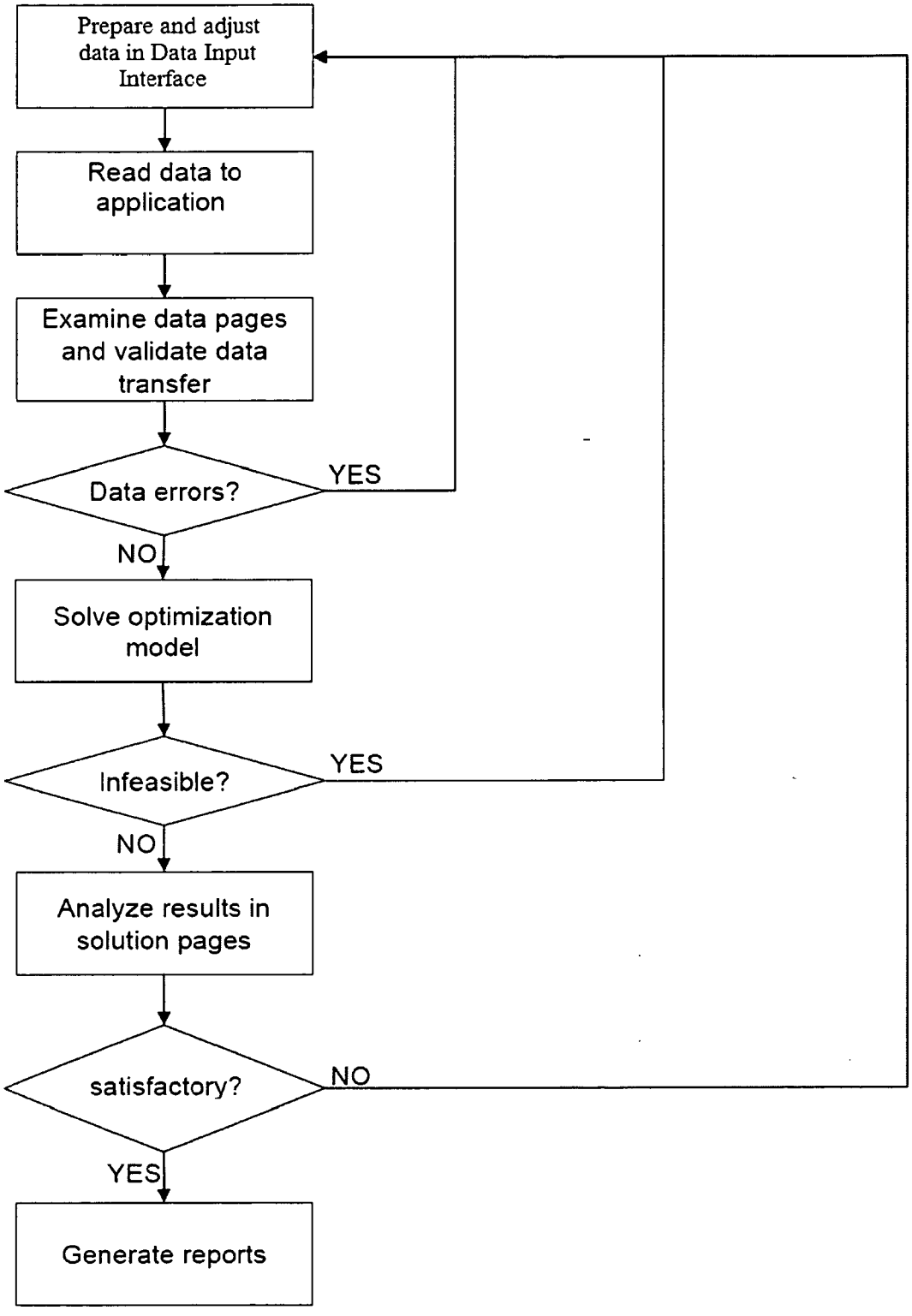
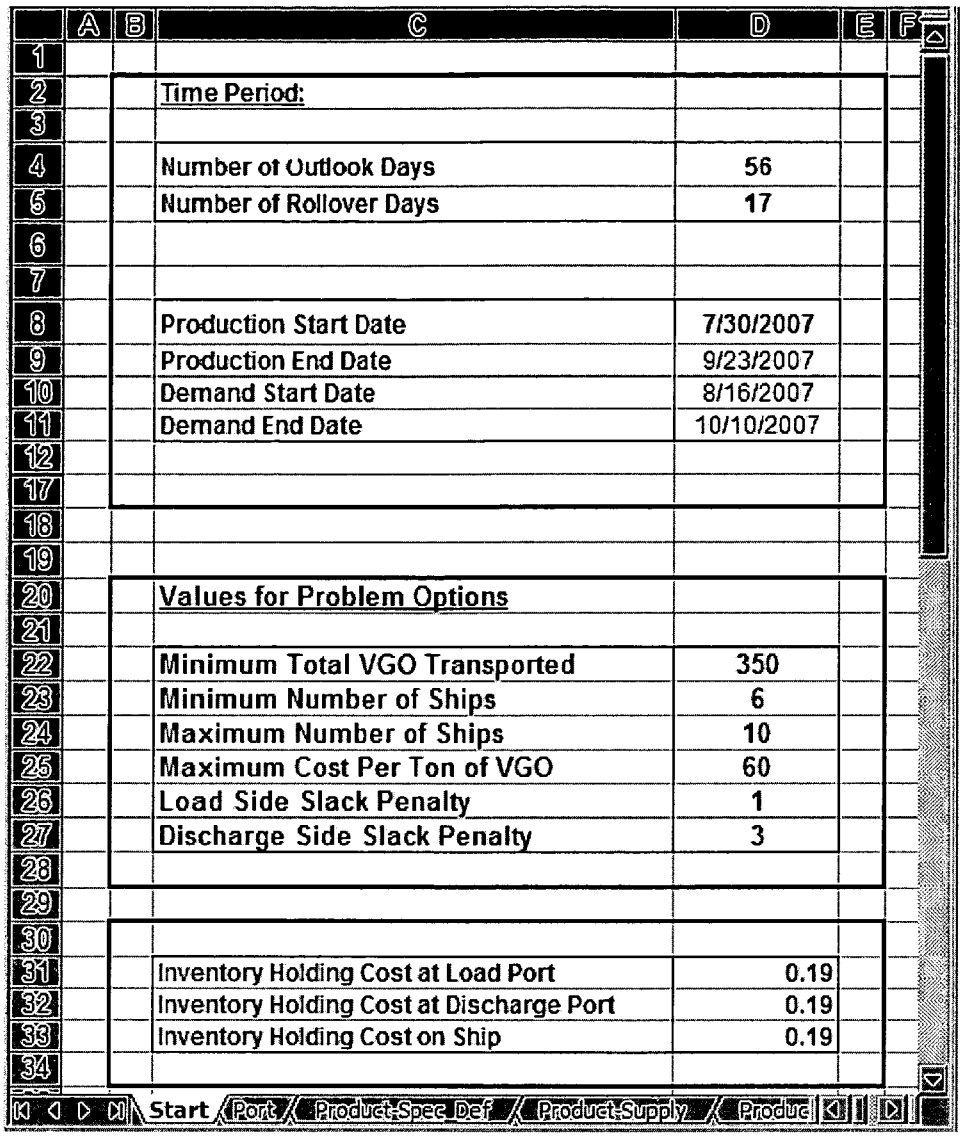
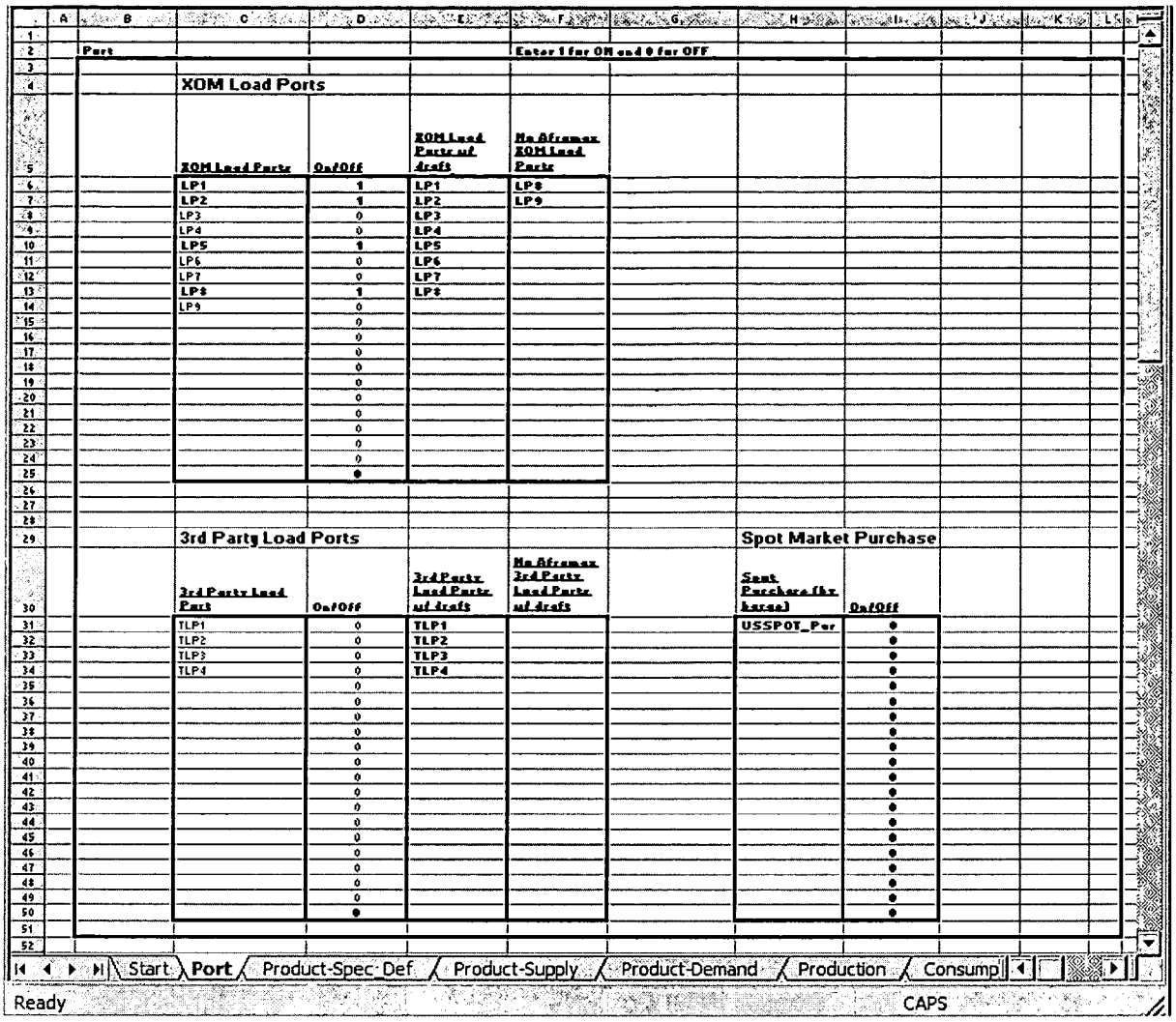

Prepare and adjust data in Data Input Interface
Read data to application
Examine data pages and validate data transfer
Data errors?
YES
NO
Solve optimization model
Infeasible?
YES
NO
Analyze results in solution pages
satisfactory?
NO
YES
Generate reports

FIG. 2



	C	D
2	Time Period:	
4	Number of Outlook Days	56
5	Number of Rollover Days	17
8	Production Start Date	7/30/2007
9	Production End Date	9/23/2007
10	Demand Start Date	8/16/2007
11	Demand End Date	10/10/2007
20	Values for Problem Options	
22	Minimum Total VGO Transported	350
23	Minimum Number of Ships	6
24	Maximum Number of Ships	10
25	Maximum Cost Per Ton of VGO	60
26	Load Side Slack Penalty	1
27	Discharge Side Slack Penalty	3
31	Inventory Holding Cost at Load Port	0.19
32	Inventory Holding Cost at Discharge Port	0.19
33	Inventory Holding Cost on Ship	0.19

FIG. 3



Port

Enter 1 for ON and 0 for OFF

XOM Load Ports

XOM Load Ports	On/Off	XOM Load Ports w/ drafts	No Aframax XOM Load Ports
LP1	1	LP1	LP8
LP2	1	LP2	LP9
LP3	0	LP3	
LP4	0	LP4	
LP5	1	LP5	
LP6	0	LP6	
LP7	0	LP7	
LP8	1	LP8	
LP9	0		

3rd Party Load Ports

3rd Party Load Port	On/Off	3rd Party Load Ports w/ drafts	No Aframax 3rd Party Load Ports w/ drafts
TLP1	0	TLP1	
TLP2	0	TLP2	
TLP3	0	TLP3	
TLP4	0	TLP4	

Spot Market Purchase

Spot Purchase (kt barrel)	On/Off
USSPOT_Pur	0

Start | Port | Product-Spec-Def | Product-Supply | Product-Demand | Production | Consump

Ready CAPS

FIG. 4A

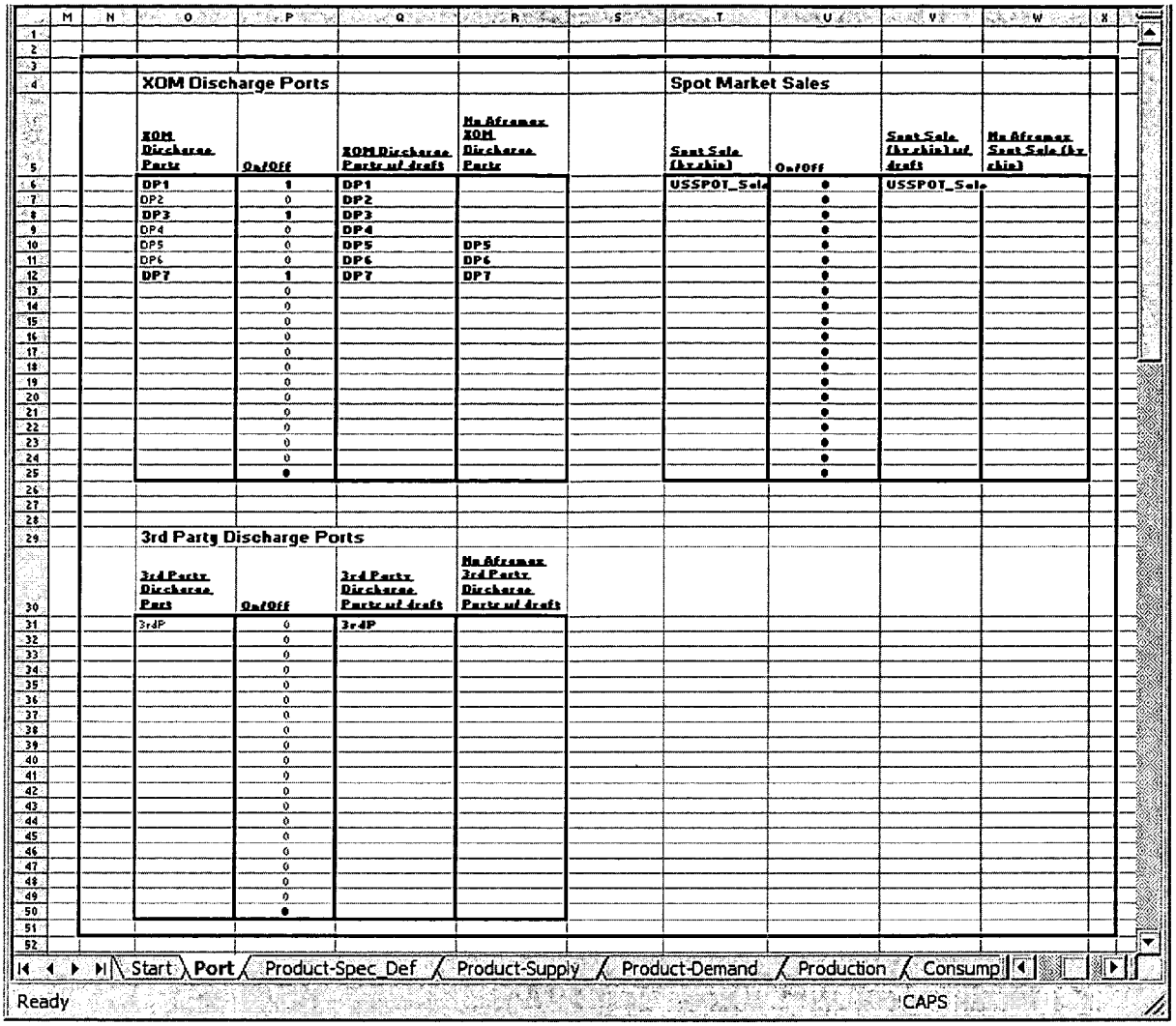
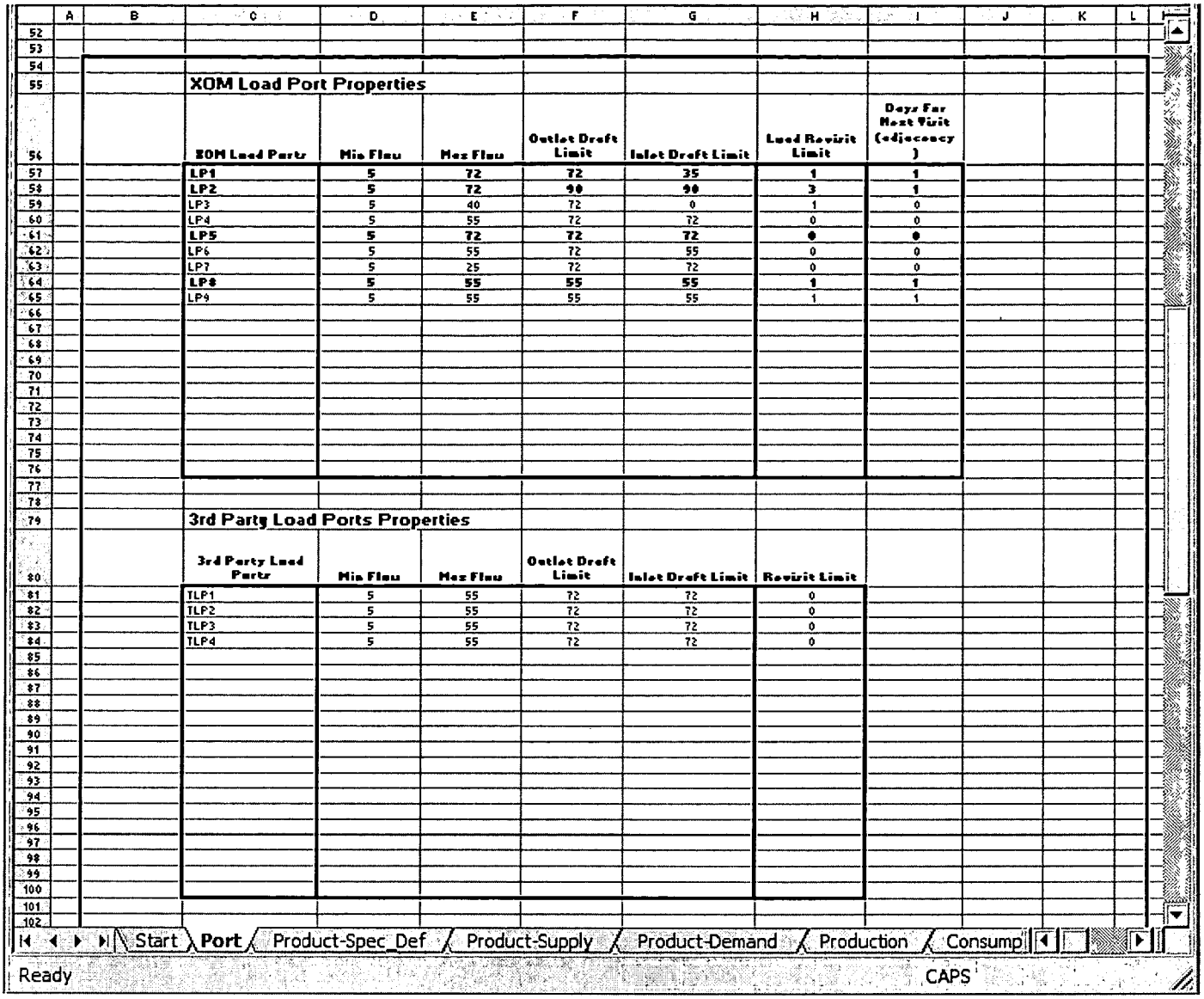

XOM Discharge Ports
XOM Discharge Ports
On/Off
XOM Discharge Ports w/ drafts
Mx Aframax XOM Discharge Ports
DP1 1 DP1
DP2 0 DP2
DP3 1 DP3
DP4 0 DP4
DP5 0 DP5 DP5
DP6 0 DP6 DP6
DP7 1 DP7 DP7
Spot Market Sales
Spot Sale (by ship)
On/Off
Spot Sale (by ship) w/ drafts
Mx Aframax Spot Sale (by ship)
USSPOT_Sale USSPOT_Sale
3rd Party Discharge Ports
3rd Party Discharge Ports
On/Off
3rd Party Discharge Ports w/ drafts
Mx Aframax 3rd Party Discharge Ports w/ drafts
3rdP 0 3rdP
Start Port Product-Spec_Def Product-Supply Product-Demand Production Consump
Ready
CAPS

FIG. 4B



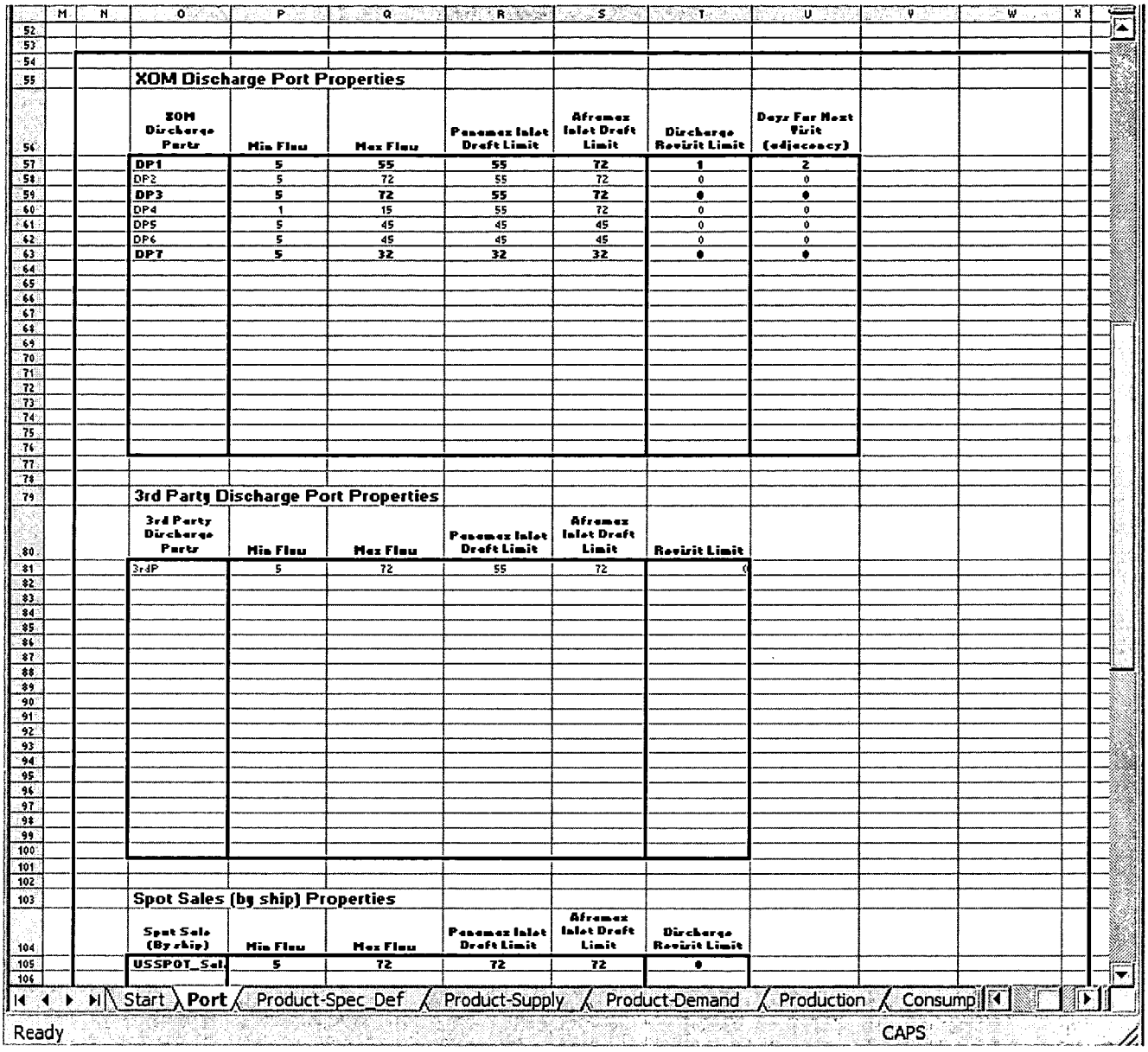
XOM Load Port Properties

XOM Load Ports	Min Flow	Max Flow	Outlet Draft Limit	Inlet Draft Limit	Load Revisit Limit	Days For Next Visit (adjacency)
LP1	5	72	72	35	1	1
LP2	5	72	90	90	3	1
LP3	5	40	72	0	1	0
LP4	5	55	72	72	0	0
LP5	5	72	72	72	0	0
LP6	5	55	72	55	0	0
LP7	5	25	72	72	0	0
LP8	5	55	55	55	1	1
LP9	5	55	55	55	1	1

3rd Party Load Ports Properties

3rd Party Load Ports	Min Flow	Max Flow	Outlet Draft Limit	Inlet Draft Limit	Revisit Limit
TLP1	5	55	72	72	0
TLP2	5	55	72	72	0
TLP3	5	55	72	72	0
TLP4	5	55	72	72	0

FIG. 4C



XOM Discharge Port Properties

XOM Discharge Ports	Min Flow	Max Flow	Panamax Inlet Draft Limit	Aframax Inlet Draft Limit	Discharge Revisit Limit	Days For Next Visit (adjacency)
DP1	5	55	55	72	1	2
DP2	5	72	55	72	0	0
DP3	5	72	55	72	0	0
DP4	1	15	55	72	0	0
DP5	5	45	45	45	0	0
DP6	5	45	45	45	0	0
DP7	5	32	32	32	0	0

3rd Party Discharge Port Properties

3rd Party Discharge Ports	Min Flow	Max Flow	Panamax Inlet Draft Limit	Aframax Inlet Draft Limit	Revisit Limit
3rdP	5	72	55	72	0

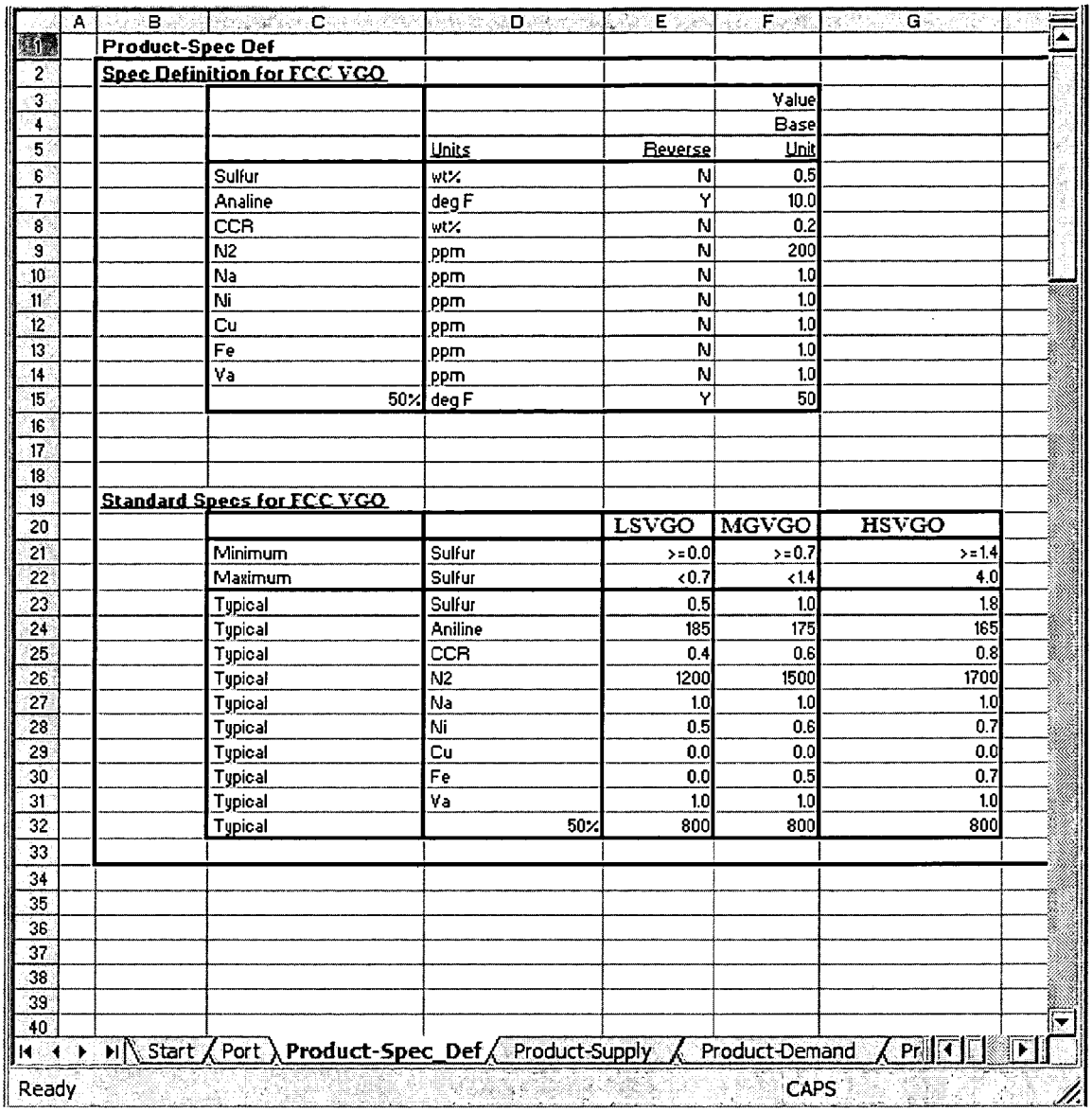
Spot Sales (by ship) Properties

Spot Sale (By ship)	Min Flow	Max Flow	Panamax Inlet Draft Limit	Aframax Inlet Draft Limit	Discharge Revisit Limit
USSPOT_Sal	5	72	72	72	0

Start | Port | Product-Spec_Def | Product-Supply | Product-Demand | Production | Consump

Ready CAPS

FIG. 4D



	A	B	C	D	E	F	G
1		**Product-Spec Def**					
2		**Spec Definition for FCC VGO**					
3						Value	
4						Base	
5				Units	Reverse	Unit	
6			Sulfur	wt%	N	0.5	
7			Analine	deg F	Y	10.0	
8			CCR	wt%	N	0.2	
9			N2	ppm	N	200	
10			Na	ppm	N	1.0	
11			Ni	ppm	N	1.0	
12			Cu	ppm	N	1.0	
13			Fe	ppm	N	1.0	
14			Va	ppm	N	1.0	
15			50%	deg F	Y	50	
16							
17							
18							
19		**Standard Specs for FCC VGO**					
20					LSVGO	MGVGO	HSVGO
21			Minimum	Sulfur	>=0.0	>=0.7	>=1.4
22			Maximum	Sulfur	<0.7	<1.4	4.0
23			Typical	Sulfur	0.5	1.0	1.8
24			Typical	Aniline	185	175	165
25			Typical	CCR	0.4	0.6	0.8
26			Typical	N2	1200	1500	1700
27			Typical	Na	1.0	1.0	1.0
28			Typical	Ni	0.5	0.6	0.7
29			Typical	Cu	0.0	0.0	0.0
30			Typical	Fe	0.0	0.5	0.7
31			Typical	Va	1.0	1.0	1.0
32			Typical	50%	800	800	800
33							
34							
35							
36							
37							
38							
39							
40							

FIG. 5

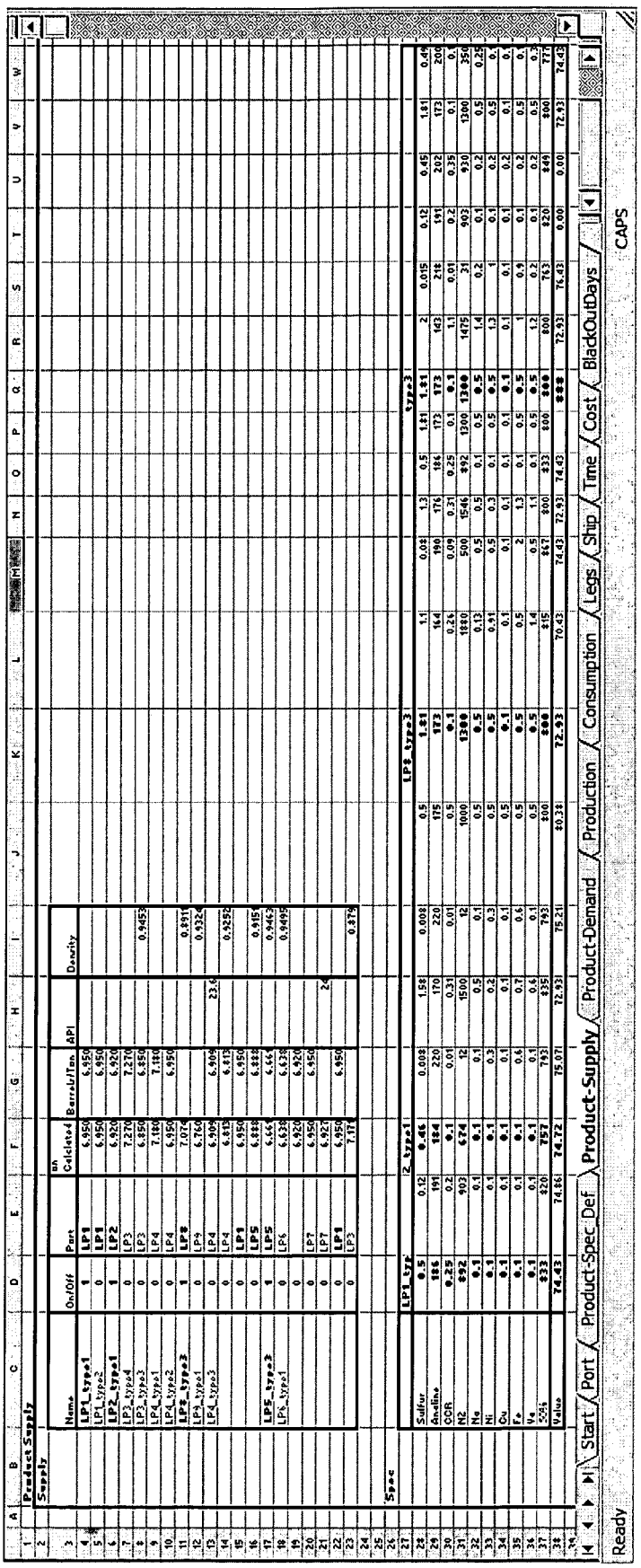
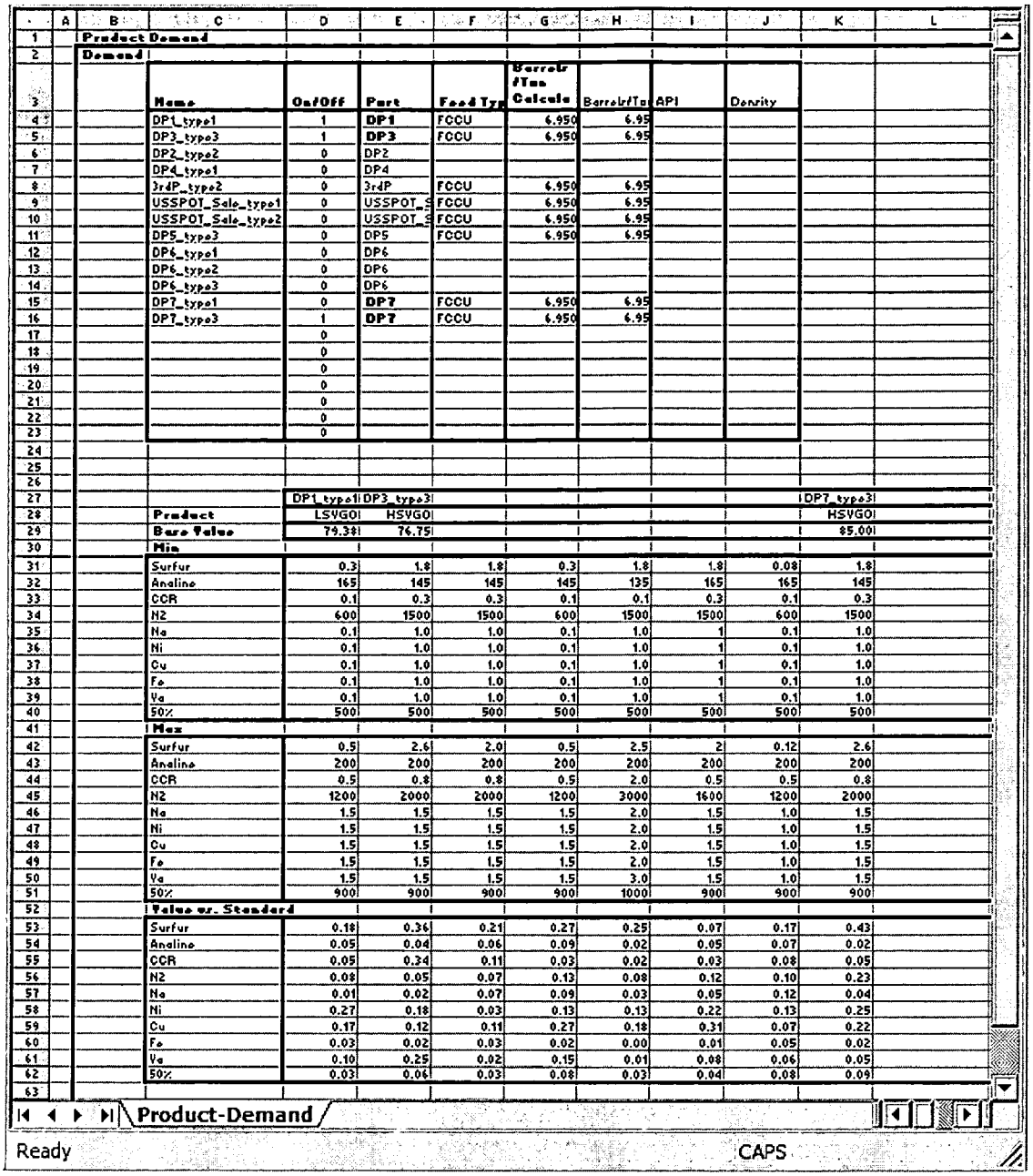

Product Supply
Supply
Name
On/Off
Part
Calculated
Barrels/Ton
API
Density
LP1_type1
LP1_type2
LP2_type1
LP3_type4
LP3_type3
LP4_type1
LP4_type2
LP5_type2
LP5_type3
LP6_type1
Spec
LP1_type
LP2_type1
LP3_type3
Sulfur
Acidity
CCR
N2
Na
Ni
Cu
Fe
Va
Values
Start
Port
Product-Spec Def
Product-Supply
Product-Demand
Production
Consumption
Legs
Ship
Time
Cost
BlackOutDays
Ready
CAPS

FIG. 6



	Name	On/Off	Part	Feed Typ	Barrels /Ton Calcula	BarrelsPerTo	API	Density
4	DP1_type1	1	DP1	FCCU	6.950	6.95		
5	DP3_type3	1	DP3	FCCU	6.950	6.95		
6	DP2_type2	0	DP2					
7	DP4_type1	0	DP4					
8	3rdP_type2	0	3rdP	FCCU	6.950	6.95		
9	USSPOT_Sale_type1	0	USSPOT_S	FCCU	6.950	6.95		
10	USSPOT_Sale_type2	0	USSPOT_S	FCCU	6.950	6.95		
11	DP5_type3	0	DP5	FCCU	6.950	6.95		
12	DP6_type1	0	DP6					
13	DP6_type2	0	DP6					
14	DP6_type3	0	DP6					
15	DP7_type1	0	DP7	FCCU	6.950	6.95		
16	DP7_type3	1	DP7	FCCU	6.950	6.95		
17		0						
18		0						
19		0						
20		0						
21		0						
22		0						
23		0						

		DP1_type1	DP3_type3						DP7_type3
28	Product	LSVGO	HSVGO						HSVGO
29	Base Value	79.38	76.75						85.00
30	Min								
31	Surfur	0.3	1.8	1.8	0.3	1.8	1.8	0.08	1.8
32	Analine	165	145	145	145	135	165	165	145
33	CCR	0.1	0.3	0.3	0.1	0.1	0.3	0.1	0.3
34	N2	600	1500	1500	600	1500	1500	600	1500
35	Na	0.1	1.0	1.0	0.1	1.0	1	0.1	1.0
36	Ni	0.1	1.0	1.0	0.1	1.0	1	0.1	1.0
37	Cu	0.1	1.0	1.0	0.1	1.0	1	0.1	1.0
38	Fe	0.1	1.0	1.0	0.1	1.0	1	0.1	1.0
39	Va	0.1	1.0	1.0	0.1	1.0	1	0.1	1.0
40	50%	500	500	500	500	500	500	500	500
41	Max								
42	Surfur	0.5	2.6	2.0	0.5	2.5	2	0.12	2.6
43	Analine	200	200	200	200	200	200	200	200
44	CCR	0.5	0.8	0.8	0.5	2.0	0.5	0.5	0.8
45	N2	1200	2000	2000	1200	3000	1600	1200	2000
46	Na	1.5	1.5	1.5	1.5	2.0	1.5	1.0	1.5
47	Ni	1.5	1.5	1.5	1.5	2.0	1.5	1.0	1.5
48	Cu	1.5	1.5	1.5	1.5	2.0	1.5	1.0	1.5
49	Fe	1.5	1.5	1.5	1.5	2.0	1.5	1.0	1.5
50	Va	1.5	1.5	1.5	1.5	3.0	1.5	1.0	1.5
51	50%	900	900	900	900	1000	900	900	900
52	Value or Standard								
53	Surfur	0.18	0.36	0.21	0.27	0.25	0.07	0.17	0.43
54	Analine	0.05	0.04	0.06	0.09	0.02	0.05	0.07	0.02
55	CCR	0.05	0.34	0.11	0.03	0.02	0.03	0.08	0.05
56	N2	0.08	0.05	0.07	0.13	0.08	0.12	0.10	0.23
57	Na	0.01	0.02	0.07	0.09	0.03	0.05	0.12	0.04
58	Ni	0.27	0.18	0.03	0.13	0.13	0.22	0.13	0.25
59	Cu	0.17	0.12	0.11	0.27	0.18	0.31	0.07	0.22
60	Fe	0.03	0.02	0.03	0.02	0.00	0.01	0.05	0.02
61	Va	0.10	0.25	0.02	0.15	0.01	0.08	0.06	0.05
62	50%	0.03	0.06	0.03	0.08	0.03	0.04	0.08	0.09

FIG. 7

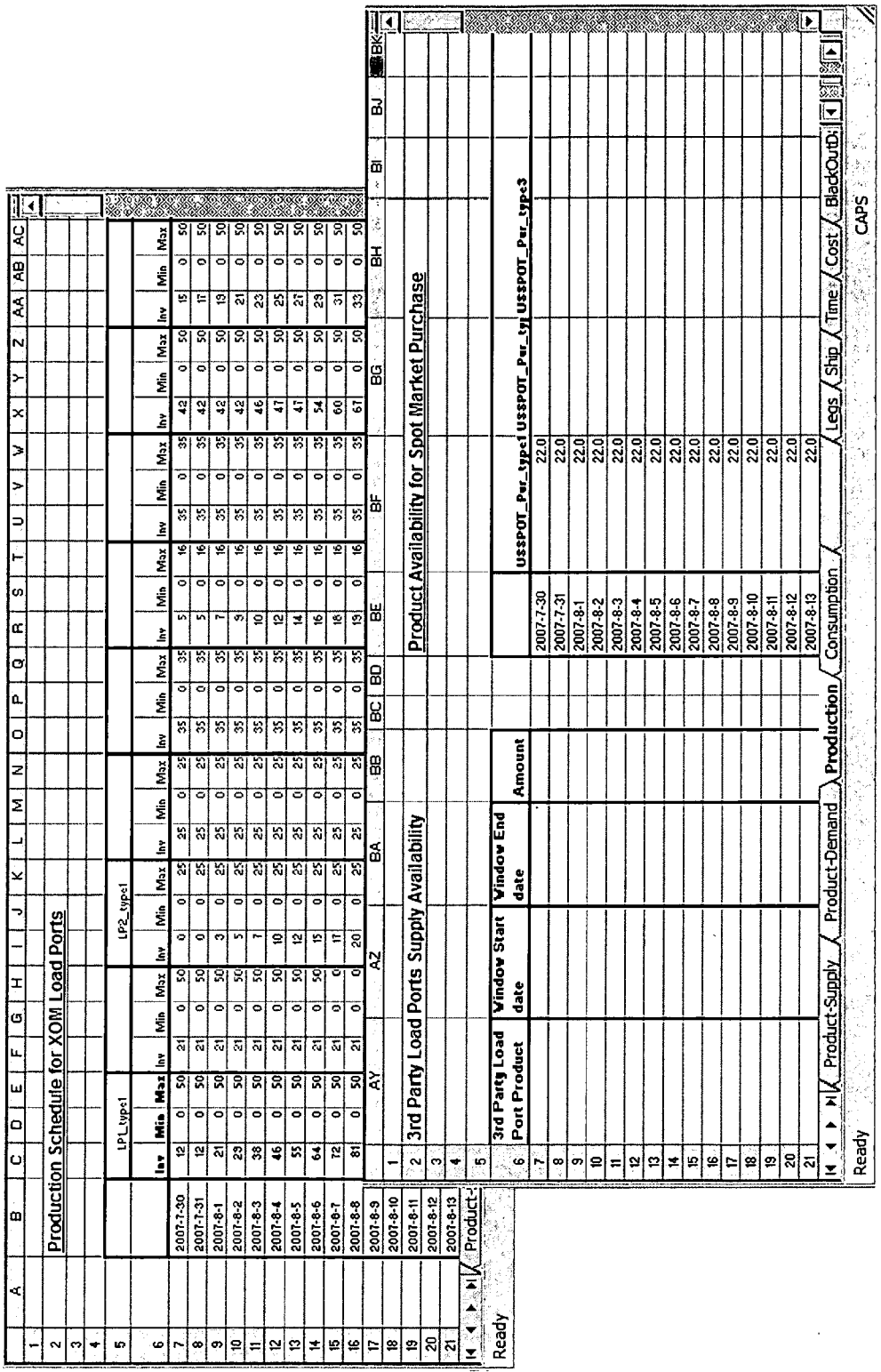

Production Schedule for XOM Load Ports
LP1_type1
LP2_type1
3rd Party Load Ports Supply Availability
Product Availability for Spot Market Purchase
3rd Party Load Port Product
Window Start date
Window End date
Amount
US$POT_Pur_type1
US$POT_Pur_type2
US$POT_Pur_type3
2007-7-30
2007-7-31
2007-8-1
2007-8-2
2007-8-3
2007-8-4
2007-8-5
2007-8-6
2007-8-7
2007-8-8
2007-8-9
2007-8-10
2007-8-11
2007-8-12
2007-8-13
22.0
Product-Supply
Product-Demand
Production
Consumption
Legs
Ship
Time
Cost
BlackOutDa
Ready
CAPS

FIG. 8

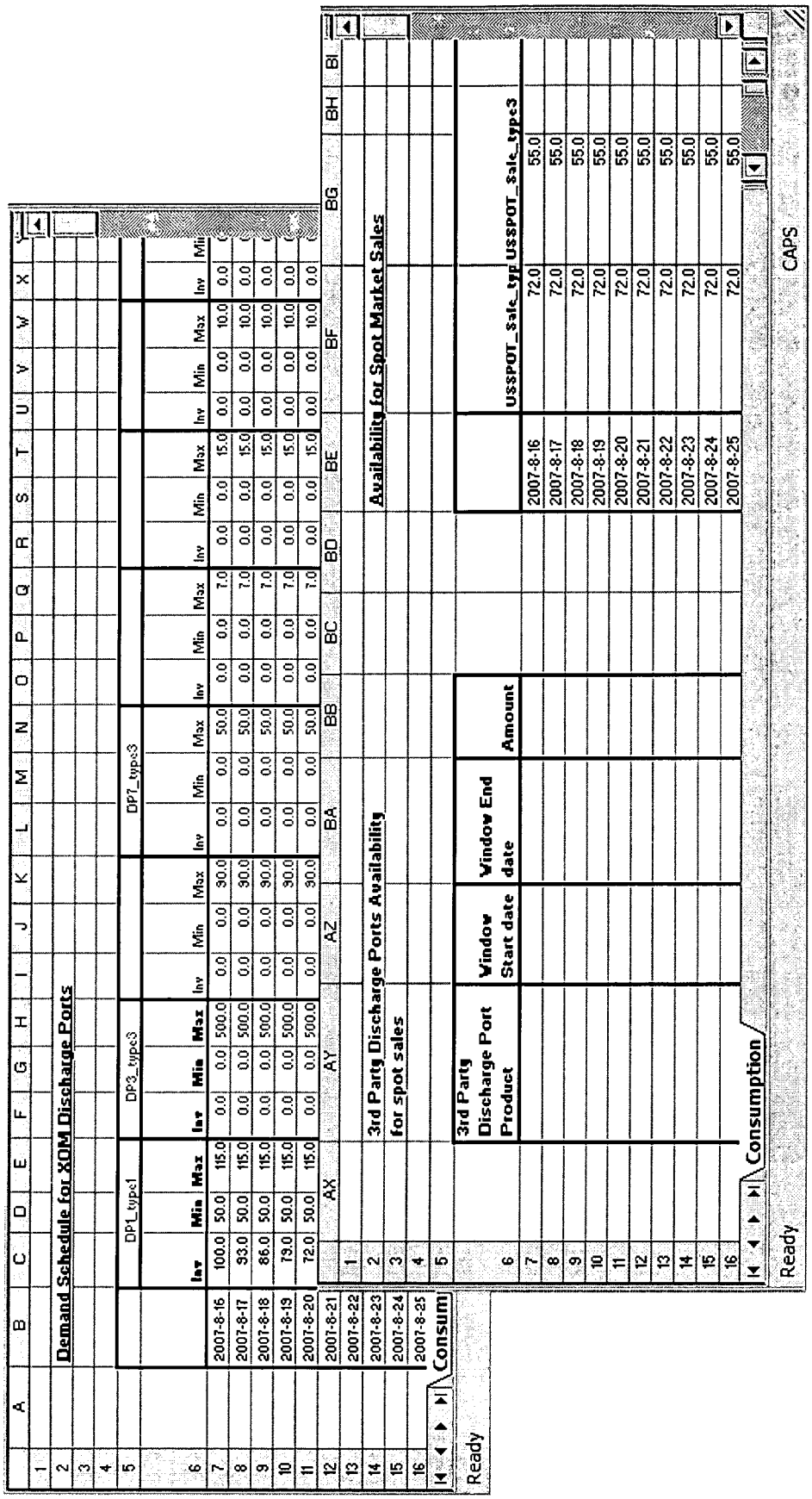

Demand Schedule for XOM Discharge Ports
DP1_type1
DP3_type3
DP7_type3
Availability for Spot Market Sales
3rd Party Discharge Ports Availability for spot sales
3rd Party Discharge Port Product
Window Start date
Window End date
Amount
US$POT_$ale_typ
US$POT_$ale_type3
Consumption
Ready
CAPS

FIG. 9

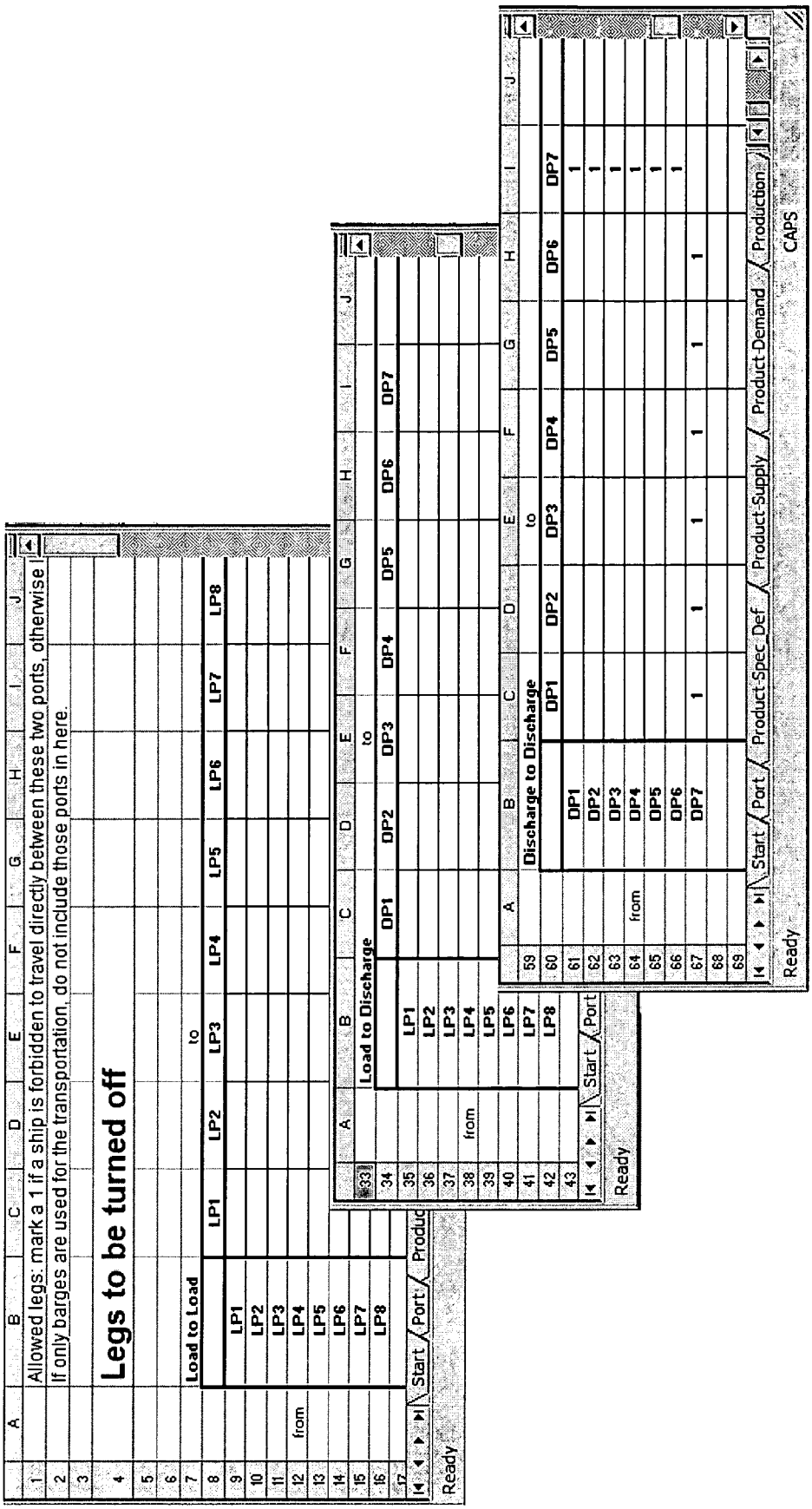
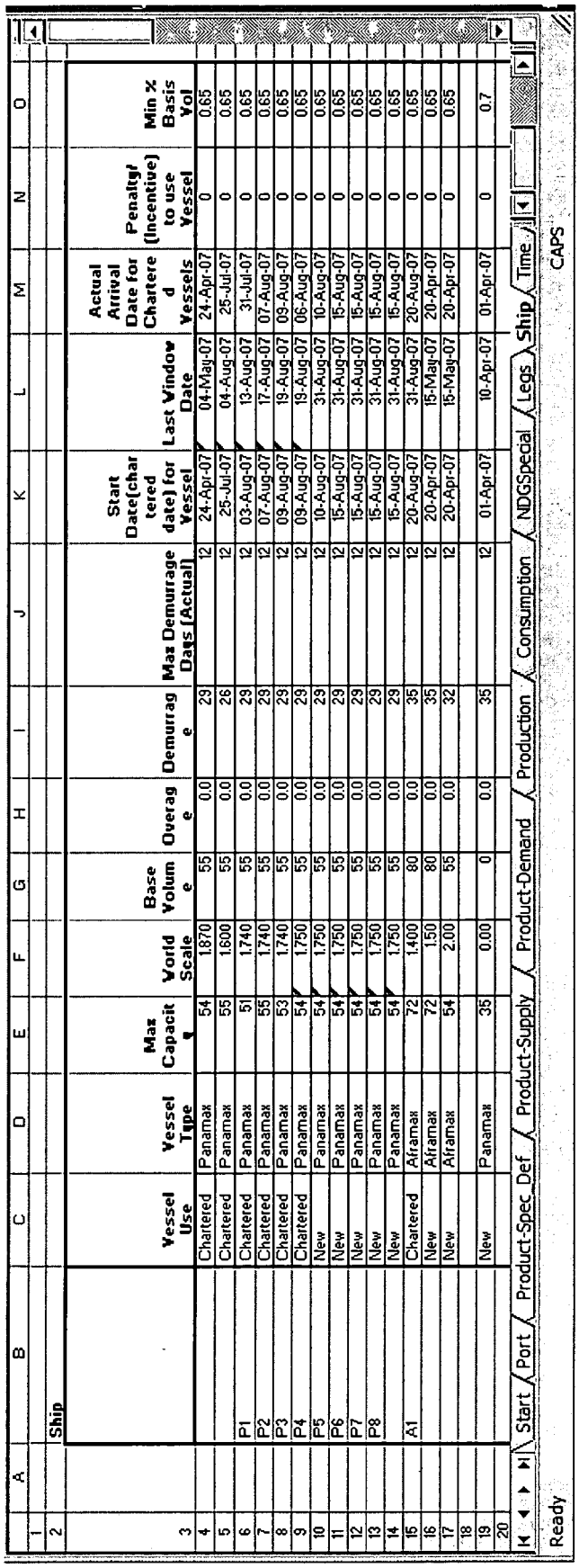

Legs to be turned off
Allowed legs: mark a 1 if a ship is forbidden to travel directly between these two ports, otherwise
If only barges are used for the transportation, do not include those ports in here.
Load to Load
to
from
LP1
LP2
LP3
LP4
LP5
LP6
LP7
LP8
Load to Discharge
DP1
DP2
DP3
DP4
DP5
DP6
DP7
Discharge to Discharge
Start
Port
Product-Spec_Def
Product-Supply
Product-Demand
Production
Ready
CAPS

FIG. 10



	Ship	Vessel Use	Vessel Type	Max Capacity	World Scale	Base Volume	Overage	Demurrage	Max Demurrage Days (Actual)	Start Date(chartered date) for Vessel	Last Window Date	Actual Arrival Date for Chartered Vessels	Penalty/ (Incentive) to use Vessel	Min % Basis Vol
4		Chartered	Panamax	54	1.870	55	0.0	29	12	24-Apr-07	04-May-07	24-Apr-07	0	0.65
5		Chartered	Panamax	55	1.600	55	0.0	26	12	25-Jul-07	04-Aug-07	25-Jul-07	0	0.65
6	P1	Chartered	Panamax	51	1.740	55	0.0	29	12	03-Aug-07	13-Aug-07	31-Jul-07	0	0.65
7	P2	Chartered	Panamax	55	1.740	55	0.0	29	12	07-Aug-07	17-Aug-07	07-Aug-07	0	0.65
8	P3	Chartered	Panamax	53	1.740	55	0.0	29	12	09-Aug-07	19-Aug-07	09-Aug-07	0	0.65
9	P4	Chartered	Panamax	54	1.750	55	0.0	29	12	09-Aug-07	19-Aug-07	06-Aug-07	0	0.65
10	P5	New	Panamax	54	1.750	55	0.0	29	12	10-Aug-07	31-Aug-07	10-Aug-07	0	0.65
11	P6	New	Panamax	54	1.750	55	0.0	29	12	15-Aug-07	31-Aug-07	15-Aug-07	0	0.65
12	P7	New	Panamax	54	1.750	55	0.0	29	12	15-Aug-07	31-Aug-07	15-Aug-07	0	0.65
13	P8	New	Panamax	54	1.750	55	0.0	29	12	15-Aug-07	31-Aug-07	15-Aug-07	0	0.65
14		New	Panamax	54	1.750	55	0.0	29	12	15-Aug-07	31-Aug-07	15-Aug-07	0	0.65
15	A1	Chartered	Aframax	72	1.400	80	0.0	35	12	20-Aug-07	31-Aug-07	20-Aug-07	0	0.65
16		New	Aframax	72	1.50	80	0.0	35	12	20-Apr-07	15-May-07	20-Apr-07	0	0.65
17		New	Aframax	54	2.00	55	0.0	32	12	20-Apr-07	15-May-07	20-Apr-07	0	0.65
18														
19		New	Panamax	36	0.00	0	0.0	35	12	01-Apr-07	10-Apr-07	01-Apr-07	0	0.7
20														

Start / Port / Product-Spec_Def / Product-Supply / Product-Demand / Production / Consumption / NDGSpecial / Legs / Ship / Time /

Ready CAPS

FIG. 11A

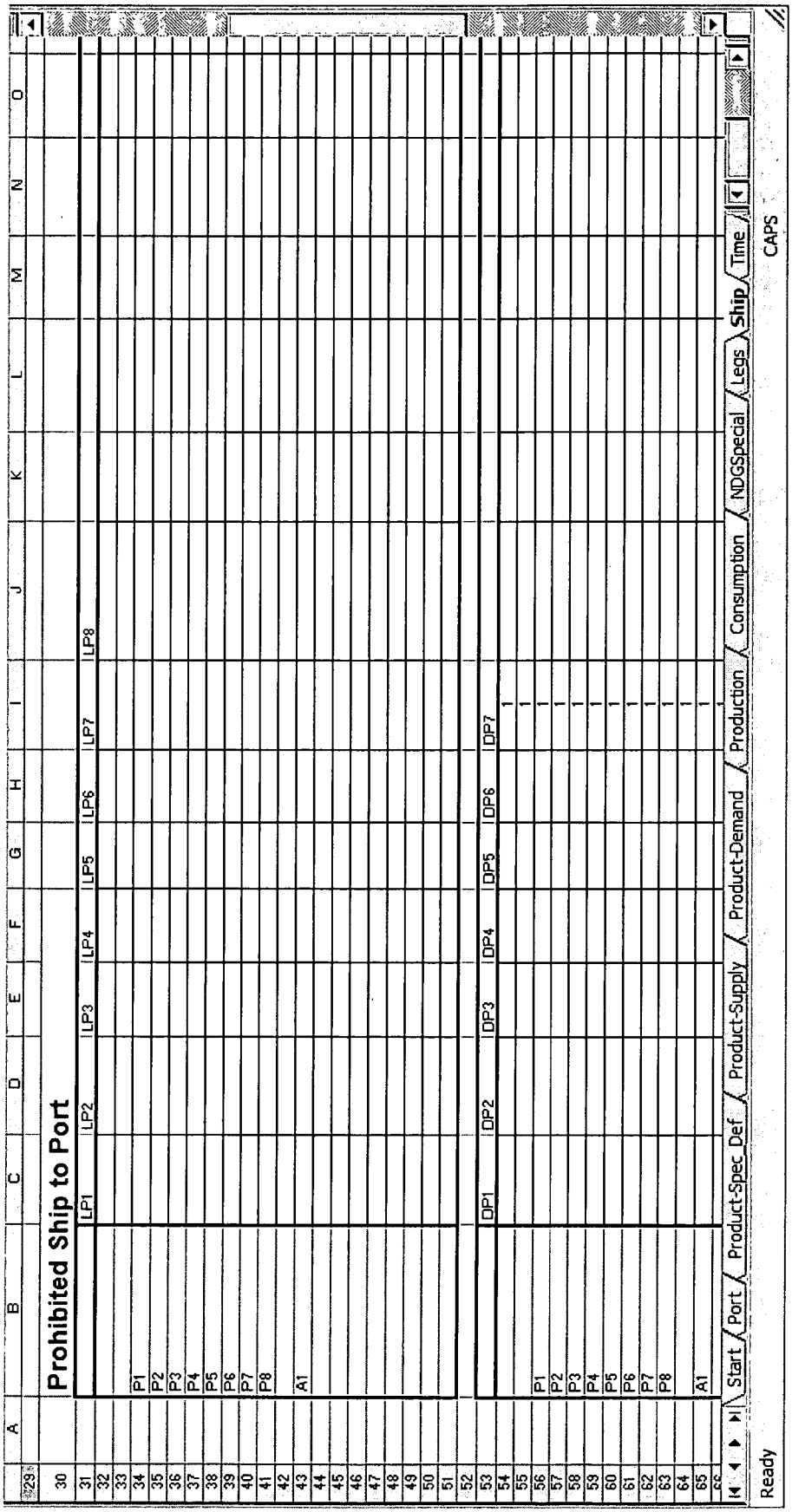

Prohibited Ship to Port
LP1
LP2
LP3
LP4
LP5
LP6
LP7
LP8
P1
P2
P3
P4
P5
P6
P7
P8
A1
DP1
DP2
DP3
DP4
DP5
DP6
DP7
Start
Port
Product-Spec_Def
Product-Supply
Product-Demand
Production
Consumption
NDGSpecial
Legs
Ship
Time
Ready
CAPS

FIG. 11B

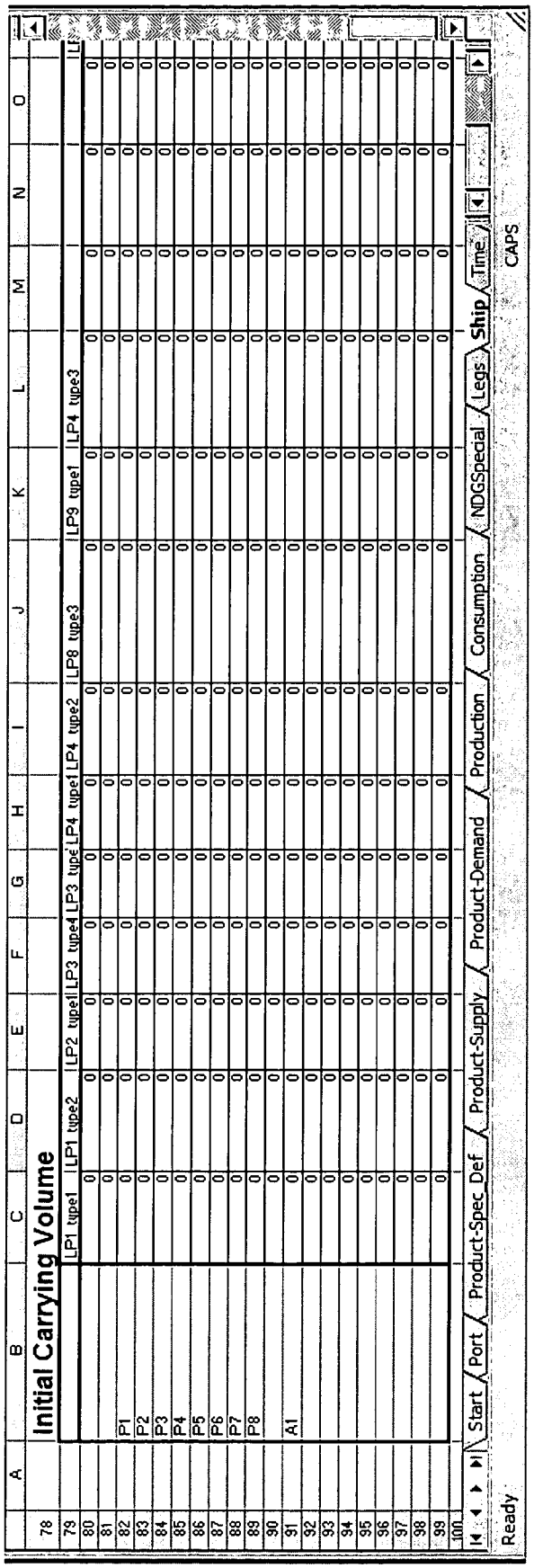

Initial Carrying Volume
LP1 type1
LP1 type2
LP2 type1
LP3 type1
LP3 type2
LP3 type3
LP3 type4
LP4 type1
LP4 type2
LP4 type3
LP8 type3
LP9 type1
LP4 type3
P1
P2
P3
P4
P5
P6
P7
P8
A1
Start
Port
Product-Spec_Def
Product-Supply
Product-Demand
Production
Consumption
NDGSpecial
Legs
Ship
Time
Ready
CAPS

FIG. 11C

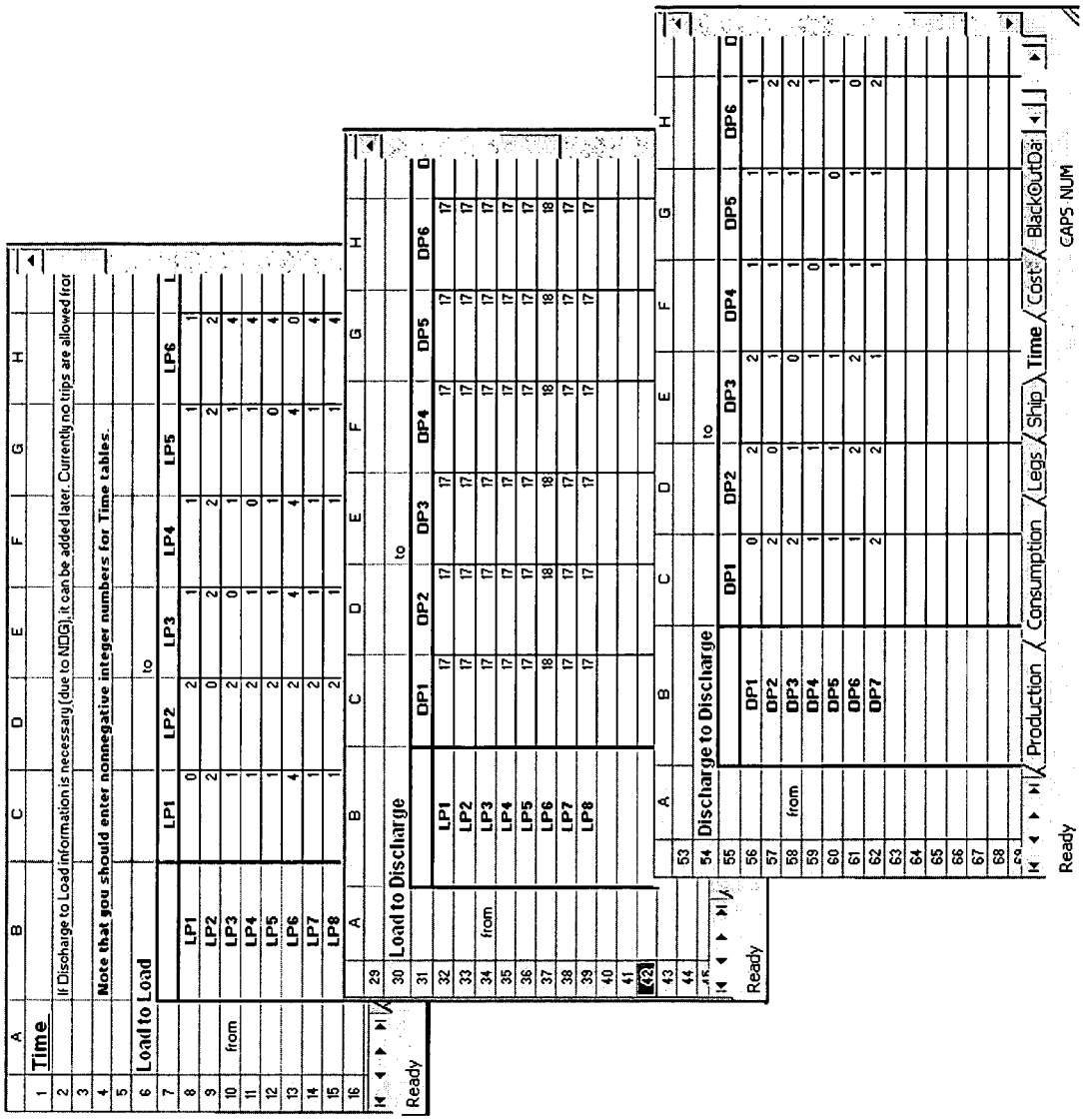

Time
If Discharge to Load information is necessary (due to NDG), it can be added later. Currently no trips are allowed fror
Note that you should enter nonnegative integer numbers for Time tables.
Load to Load
from
to
LP1 LP2 LP3 LP4 LP5 LP6
Load to Discharge
DP1 DP2 DP3 DP4 DP5 DP6
Discharge to Discharge
Production
Consumption
Legs
Ship
Time
Cost
BlackOutDat
Ready
CAPS NUM

FIG. 12

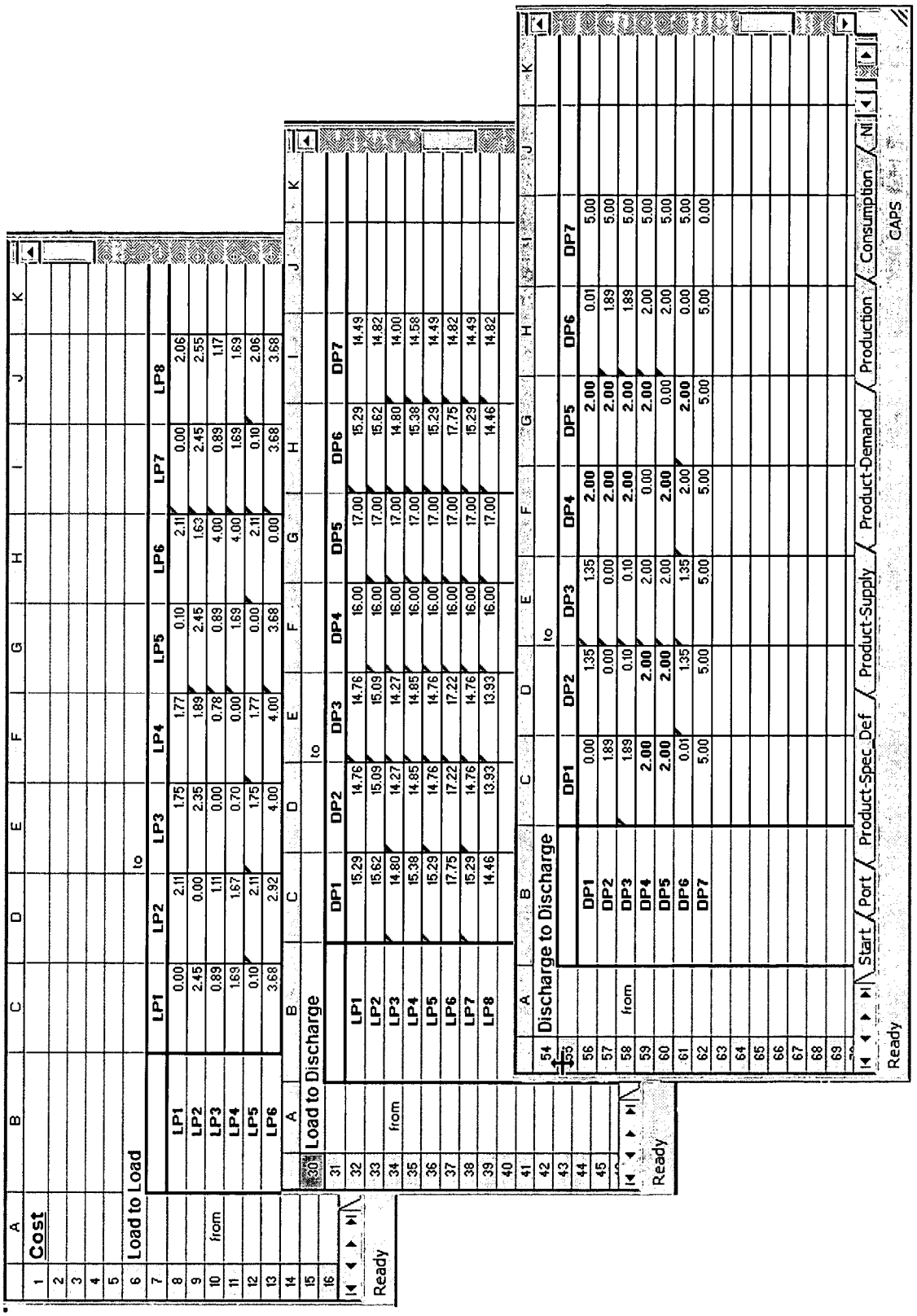
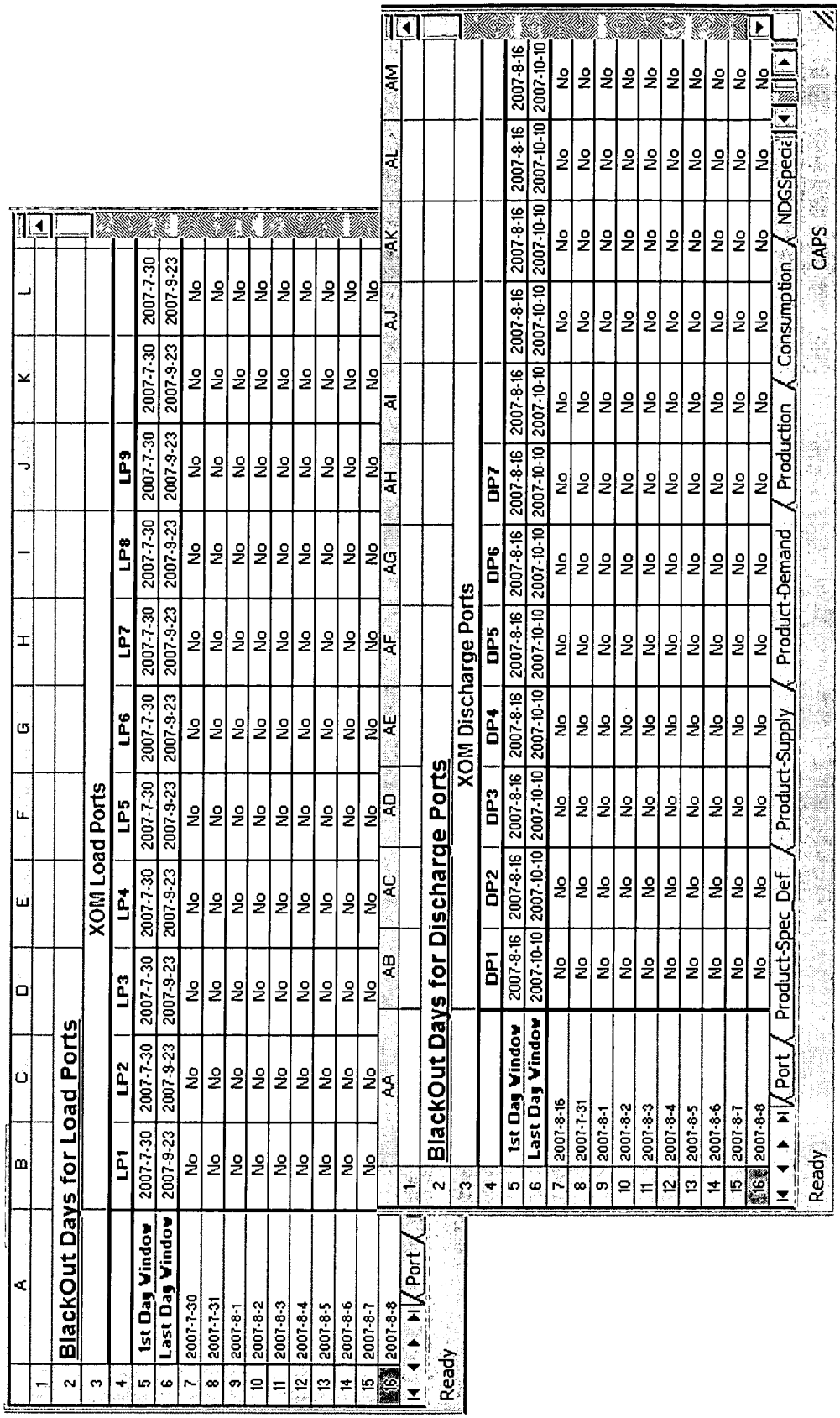

Cost
Load to Load
to
from
LP1 LP2 LP3 LP4 LP5 LP6 LP7 LP8
LP1 0.00 2.11 1.75 1.77 0.10 2.11 0.00 2.06
LP2 2.45 0.00 2.35 1.89 2.45 1.63 2.45 2.55
LP3 0.89 1.11 0.00 0.78 0.89 4.00 0.89 1.17
LP4 1.69 1.67 0.70 0.00 1.69 4.00 1.69 1.69
LP5 0.10 2.11 1.75 1.77 0.00 2.11 0.10 2.06
LP6 3.68 2.92 4.00 4.00 3.68 0.00 3.68 3.58
Load to Discharge
to
from
DP1 DP2 DP3 DP4 DP5 DP6 DP7
LP1 15.29 14.76 14.76 16.00 17.00 15.29 14.49
LP2 15.62 15.09 15.09 16.00 17.00 15.62 14.82
LP3 14.80 14.27 14.27 16.00 17.00 14.80 14.00
LP4 15.38 14.85 14.85 16.00 17.00 15.38 14.58
LP5 15.29 14.76 14.76 16.00 17.00 15.29 14.49
LP6 17.75 17.22 17.22 16.00 17.00 17.75 14.82
LP7 15.29 14.76 14.76 16.00 17.00 15.29 14.49
LP8 14.46 13.93 13.93 16.00 17.00 14.46 14.82
Discharge to Discharge
to
from
DP1 DP2 DP3 DP4 DP5 DP6 DP7
DP1 0.00 1.35 1.35 2.00 2.00 0.01 5.00
DP2 1.89 0.00 0.00 2.00 2.00 1.89 5.00
DP3 1.89 0.10 0.10 2.00 2.00 1.89 5.00
DP4 2.00 2.00 2.00 0.00 2.00 2.00 5.00
DP5 2.00 2.00 2.00 2.00 0.00 2.00 5.00
DP6 0.01 1.35 1.35 2.00 2.00 0.00 5.00
DP7 5.00 5.00 5.00 5.00 5.00 5.00 0.00
Ready
Start
Port
Product-Spec_Def
Product-Supply
Product-Demand
Production
Consumption
CAPS

FIG. 13



		LP1	LP2	LP3	LP4	LP5	LP6	LP7	LP8	LP9		
	1st Day Window	2007-7-30	2007-7-30	2007-7-30	2007-7-30	2007-7-30	2007-7-30	2007-7-30	2007-7-30	2007-7-30	2007-7-30	2007-7-30
	Last Day Window	2007-9-23	2007-9-23	2007-9-23	2007-9-23	2007-9-23	2007-9-23	2007-9-23	2007-9-23	2007-9-23	2007-9-23	2007-9-23
	2007-7-30	No	No	No	No	No	No	No	No	No	No	No
	2007-7-31	No	No	No	No	No	No	No	No	No	No	No
	2007-8-1	No	No	No	No	No	No	No	No	No	No	No
	2007-8-2	No	No	No	No	No	No	No	No	No	No	No
	2007-8-3	No	No	No	No	No	No	No	No	No	No	No
	2007-8-4	No	No	No	No	No	No	No	No	No	No	No
	2007-8-5	No	No	No	No	No	No	No	No	No	No	No
	2007-8-6	No	No	No	No	No	No	No	No	No	No	No
	2007-8-7	No	No	No	No	No	No	No	No	No	No	No
	2007-8-8	No	No	No	No	No	No	No	No	No	No	No

		DP1	DP2	DP3	DP4	DP5	DP6	DP7				
	1st Day Window	2007-8-16	2007-8-16	2007-8-16	2007-8-16	2007-8-16	2007-8-16	2007-8-16	2007-8-16	2007-8-16	2007-8-16	2007-8-16
	Last Day Window	2007-10-10	2007-10-10	2007-10-10	2007-10-10	2007-10-10	2007-10-10	2007-10-10	2007-10-10	2007-10-10	2007-10-10	2007-10-10
	2007-8-16	No	No	No	No	No	No	No	No	No	No	No
	2007-7-31	No	No	No	No	No	No	No	No	No	No	No
	2007-8-1	No	No	No	No	No	No	No	No	No	No	No
	2007-8-2	No	No	No	No	No	No	No	No	No	No	No
	2007-8-3	No	No	No	No	No	No	No	No	No	No	No
	2007-8-4	No	No	No	No	No	No	No	No	No	No	No
	2007-8-5	No	No	No	No	No	No	No	No	No	No	No
	2007-8-6	No	No	No	No	No	No	No	No	No	No	No
	2007-8-7	No	No	No	No	No	No	No	No	No	No	No
	2007-8-8	No	No	No	No	No	No	No	No	No	No	No

FIG. 14

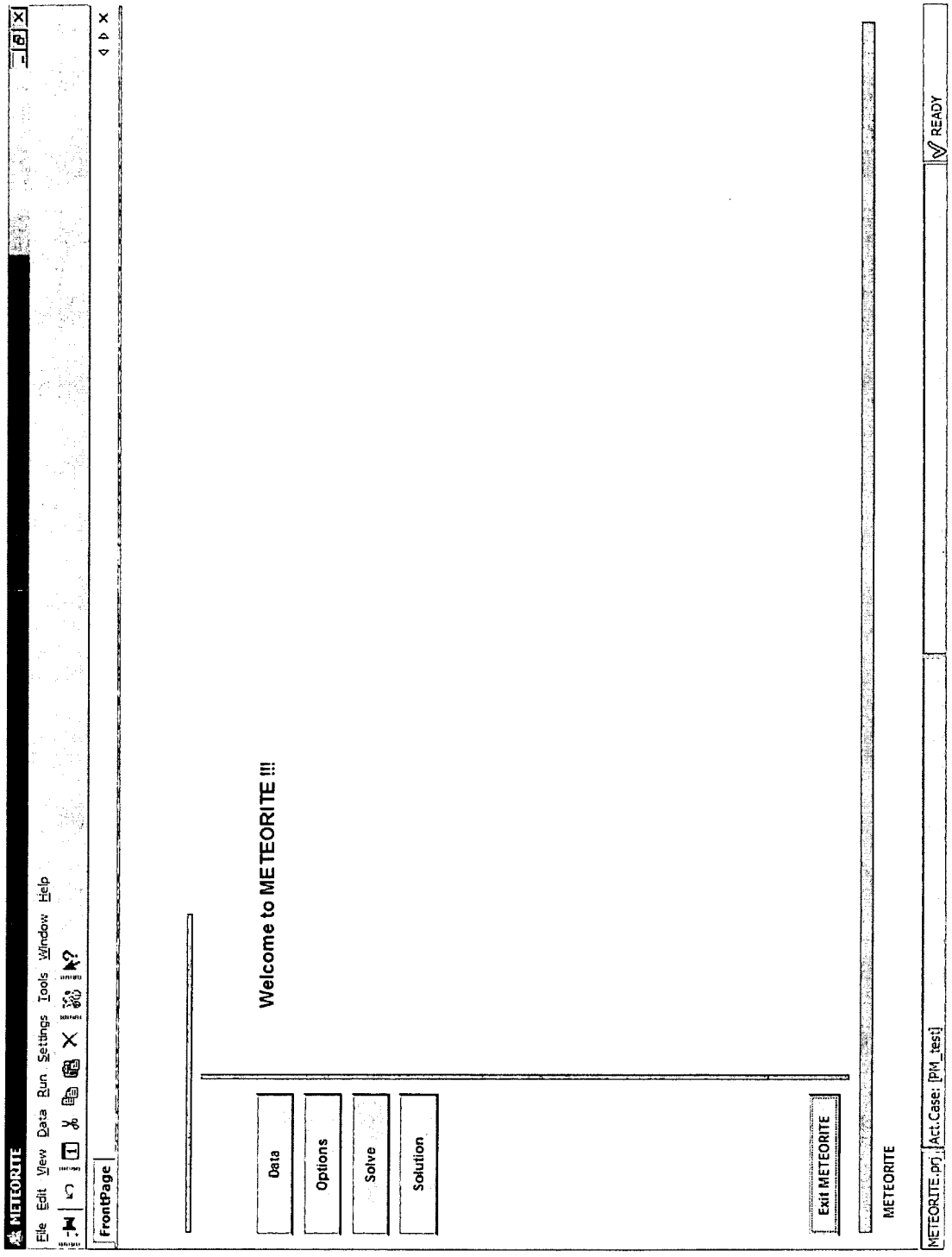

METEORITE
File Edit View Data Run Settings Tools Window Help
FrontPage
Welcome to METEORITE !!!
Data
Options
Solve
Solution
Exit METEORITE
METEORITE
METEORITE.prj
Act.Case: [PM_test]
READY

FIG. 15

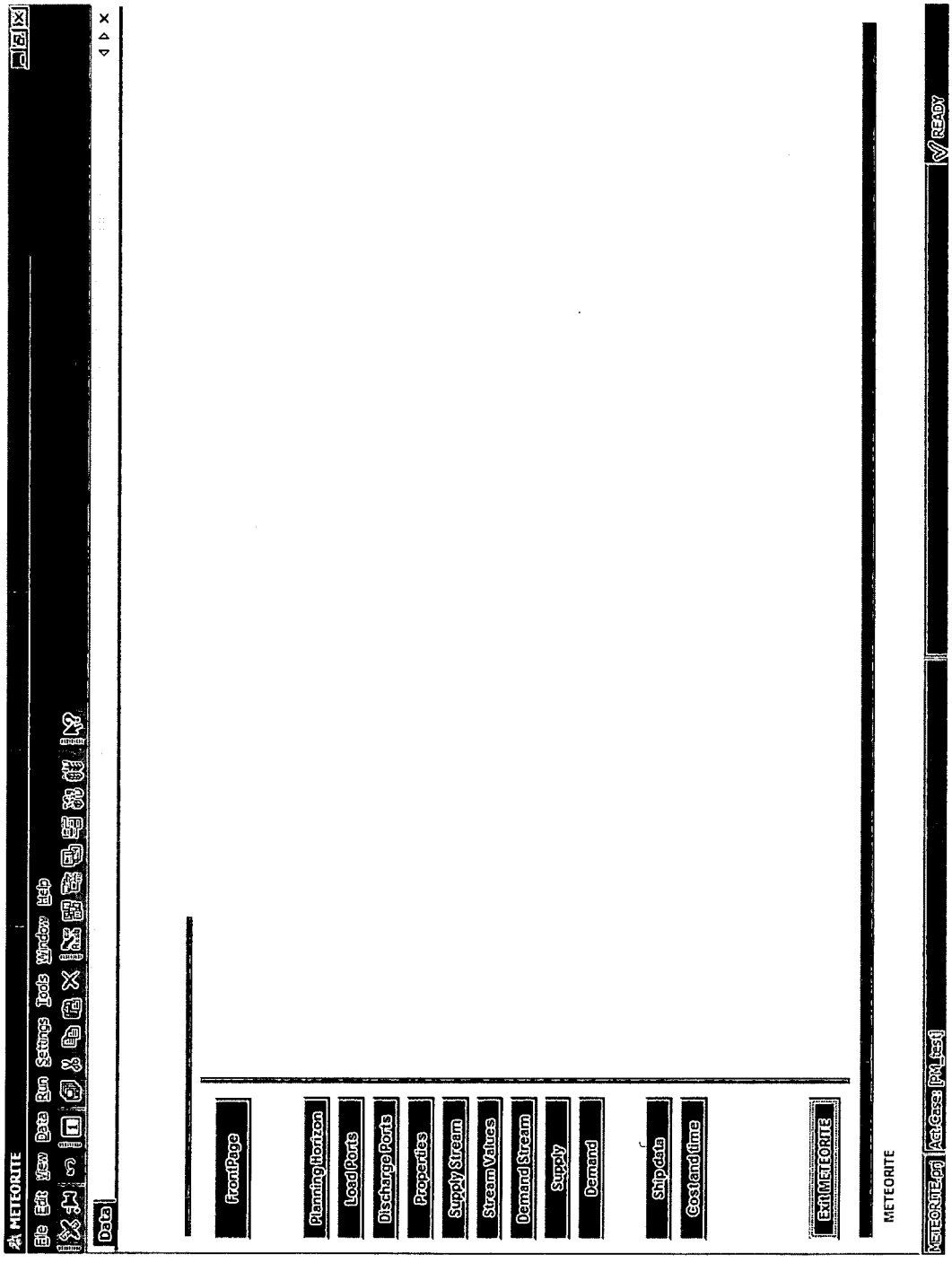

METEORITE
File Edit View Data Run Settings Tools Window Help
Data
FrontPage
Planning Horizon
Load Ports
Discharge Ports
Properties
Supply Stream
Stream Values
Demand Stream
Supply
Demand
Ship data
Cost and time
Exit METEORITE
METEORITE
METEORITE.fpl
ActiCase: PM_test
READY

FIG. 16

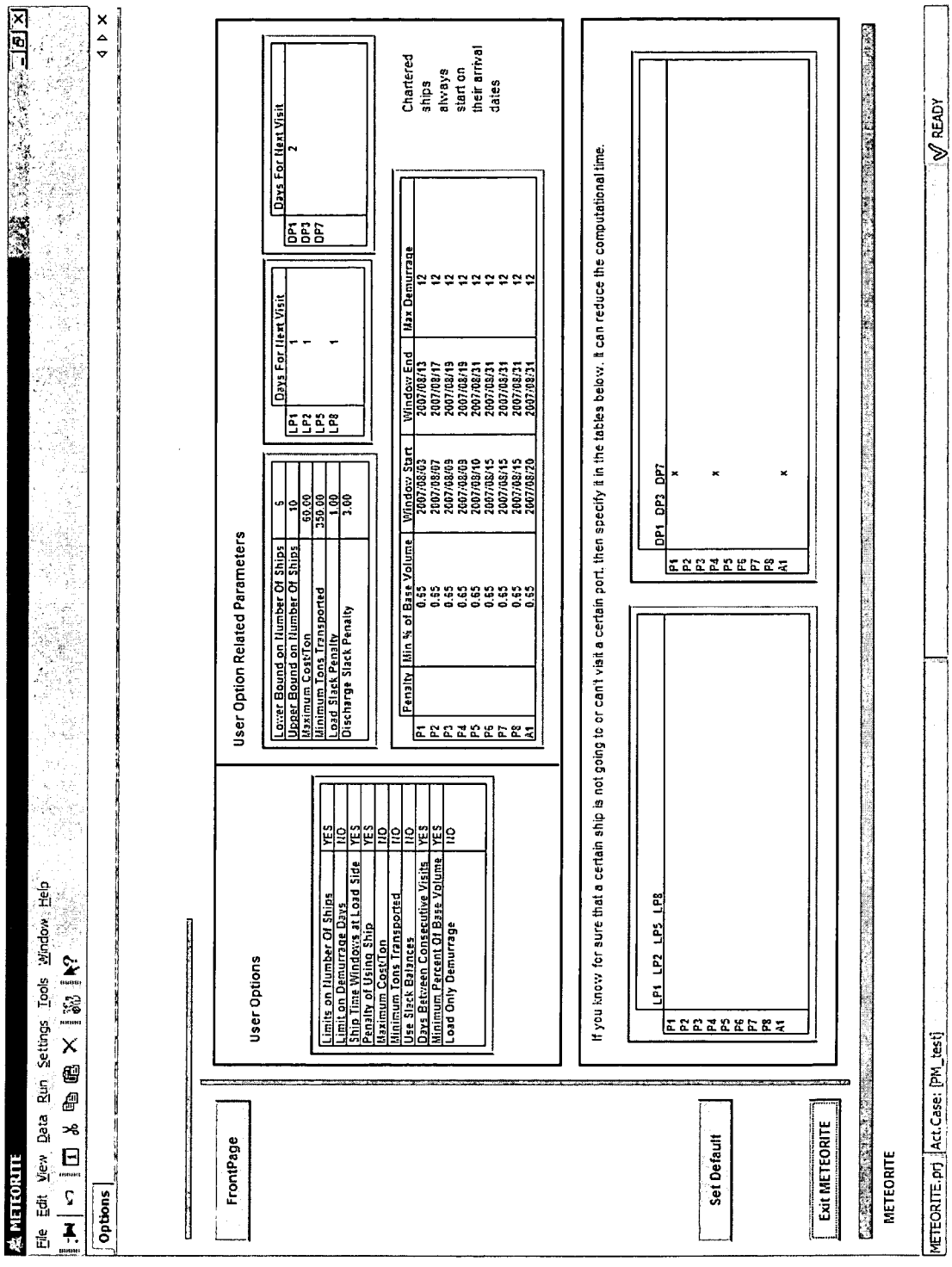

METEORITE
File Edit View Data Run Settings Tools Window Help
Options
FrontPage
Set Default
Exit METEORITE
User Options
Limits on Number Of Ships YES
Limit on Demurrage Days NO
Ship Time Windows at Load Side YES
Penalty of Using Ship YES
Maximum Cost/Ton NO
Minimum Tons Transported NO
Use Slack Balances NO
Days Between Consecutive Visits YES
Minimum Percent Of Base Volume YES
Load Only Demurrage NO
User Option Related Parameters
Lower Bound on Number Of Ships 5
Upper Bound on Number Of Ships 10
Maximum Cost/Ton 60.00
Minimum Tons Transported 350.00
Load Slack Penalty 1.00
Discharge Slack Penalty 3.00
Days For Next Visit
LP1 1
LP2 1
LP5 1
LP8 1
Days For Next Visit
DP1 2
DP3
DP7
Penalty Min % of Base Volume Window Start Window End Max Demurrage
P1 0.65 2007/08/03 2007/08/13 12
P2 0.65 2007/08/07 2007/08/17 12
P3 0.65 2007/08/09 2007/08/19 12
P4 0.65 2007/08/09 2007/08/19 12
P5 0.65 2007/08/10 2007/08/31 12
P6 0.65 2007/08/15 2007/08/31 12
P7 0.65 2007/08/15 2007/08/31 12
P8 0.65 2007/08/15 2007/08/31 12
A1 0.65 2007/08/20 2007/08/31 12
Chartered ships always start on their arrival dates
If you know for sure that a certain ship is not going to or can't visit a certain port, then specify it in the tables below. It can reduce the computational time.
LP1 LP2 LP5 LP8
P1
P2
P3
P4
P5
P6
P7
P8
A1
DP1 DP2 DP7
P1
P2
P3 x
P4
P5 x
P6
P7
P8
A1 x
METEORITE
METEORITE.prj Act.Case: [PM_test]
READY

FIG. 17

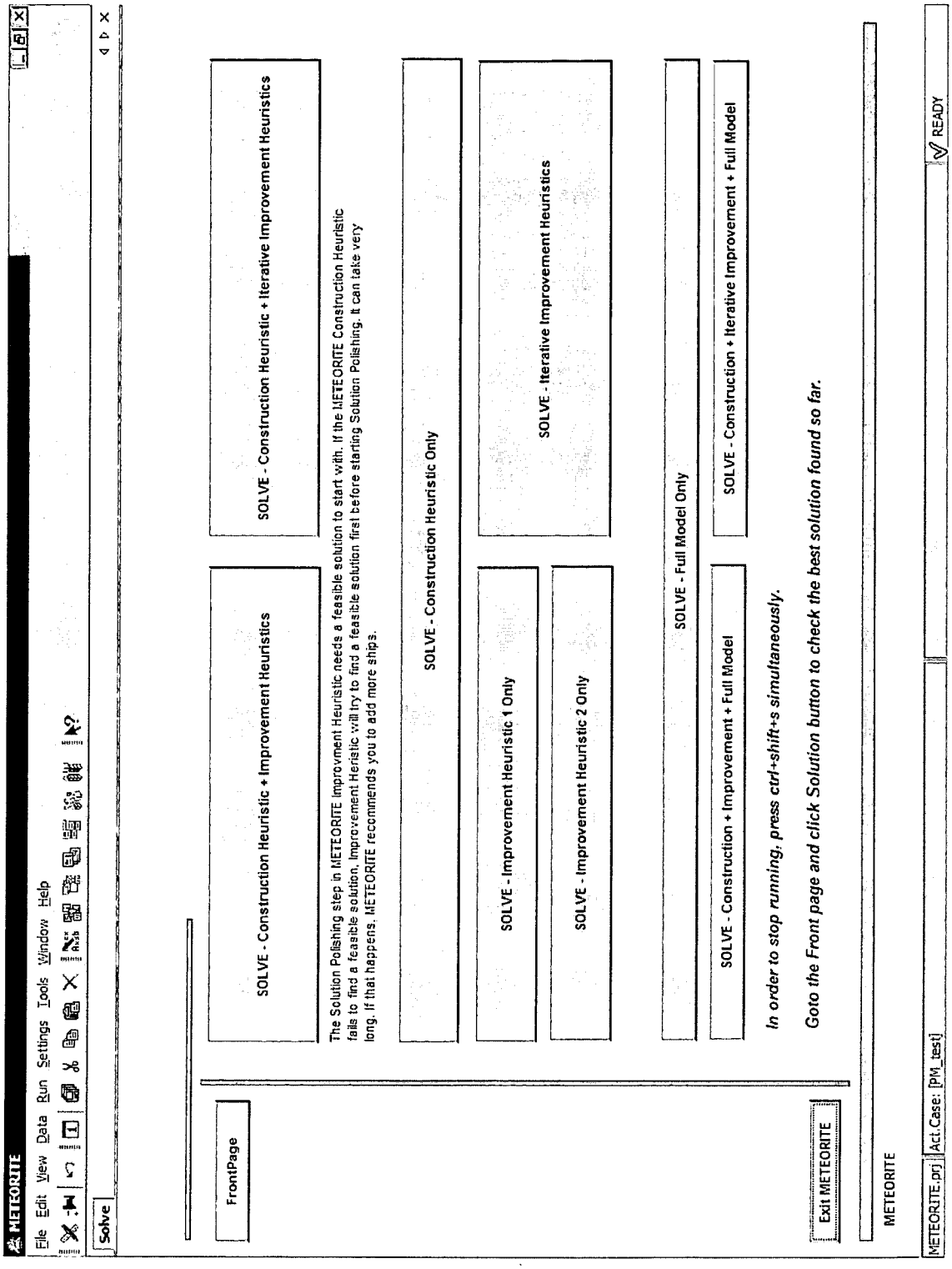

METEORITE
File Edit View Data Run Settings Tools Window Help
Solve
FrontPage
SOLVE - Construction Heuristic + Improvement Heuristics
SOLVE - Construction Heuristic + Iterative Improvement Heuristics
The Solution Polishing step in METEORITE Improvement Heuristic needs a feasible solution to start with. If the METEORITE Construction Heuristic fails to find a feasible solution, Improvement Heristic will try to find a feasible solution first before starting Solution Polishing. It can take very long. If that happens, METEORITE recommends you to add more ships.
SOLVE - Construction Heuristic Only
SOLVE - Improvement Heuristic 1 Only
SOLVE - Improvement Heuristic 2 Only
SOLVE - Iterative Improvement Heuristics
SOLVE - Full Model Only
SOLVE - Construction + Improvement + Full Model
SOLVE - Construction + Iterative Improvement + Full Model
In order to stop running, press ctrl+shift+s simultaneously.
Goto the Front page and click Solution button to check the best solution found so far.
Exit METEORITE
METEORITE
METEORITE.prj
Act.Case: [PM_test]
READY

FIG. 18

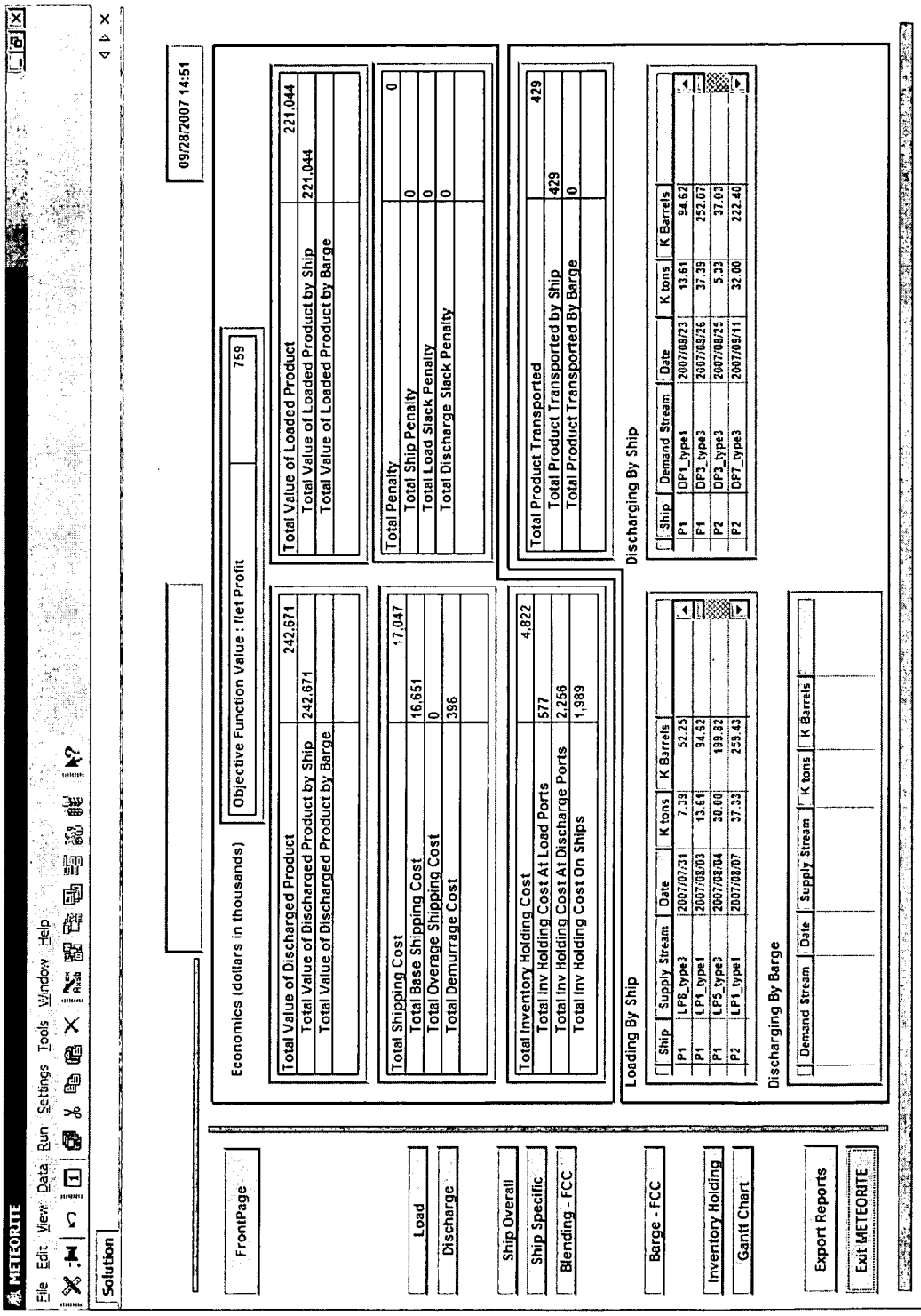

METEORITE
File Edit View Data Run Settings Tools Window Help
Solution
09/28/2007 14:51
FrontPage
Economics (dollars in thousands)
Objective Function Value : Net Profit
759
Total Value of Discharged Product 242.671
Total Value of Discharged Product by Ship 242.671
Total Value of Discharged Product by Barge
Total Value of Loaded Product 221.044
Total Value of Loaded Product by Ship 221.044
Total Value of Loaded Product by Barge
Total Shipping Cost 17,047
Total Base Shipping Cost 16,651
Total Overage Shipping Cost 0
Total Demurrage Cost 396
Total Penalty 0
Total Ship Penalty 0
Total Load Slack Penalty 0
Total Discharge Slack Penalty 0
Total Inventory Holding Cost 4,822
Total Inv Holding Cost At Load Ports 577
Total Inv Holding Cost At Discharge Ports 2,256
Total Inv Holding Cost On Ships 1,989
Total Product Transported 429
Total Product Transported by Ship 429
Total Product Transported By Barge 0
Load
Discharge
Ship Overall
Ship Specific
Blending - FCC
Barge - FCC
Inventory Holding
Gantt Chart
Export Reports
Exit METEORITE
Loading By Ship
Ship Supply Stream Date K tons K Barrels
P1 LP8_type3 2007/07/31 7.39 52.25
P1 LP1_type1 2007/08/03 13.61 94.62
P1 LP5_type3 2007/08/04 30.00 199.82
P2 LP1_type1 2007/08/07 37.33 259.43
Discharging By Ship
Ship Demand Stream Date K tons K Barrels
P1 DP1_type1 2007/08/23 13.61 94.62
P1 DP3_type3 2007/08/26 37.39 252.07
P2 DP3_type3 2007/08/25 5.33 37.03
P2 DP7_type3 2007/08/11 32.00 223.40
Discharging By Barge
Demand Stream Date Supply Stream K tons K Barrels
METEORITE
METEORITE.prj Act.Case: [PM_test]
READY

FIG. 19

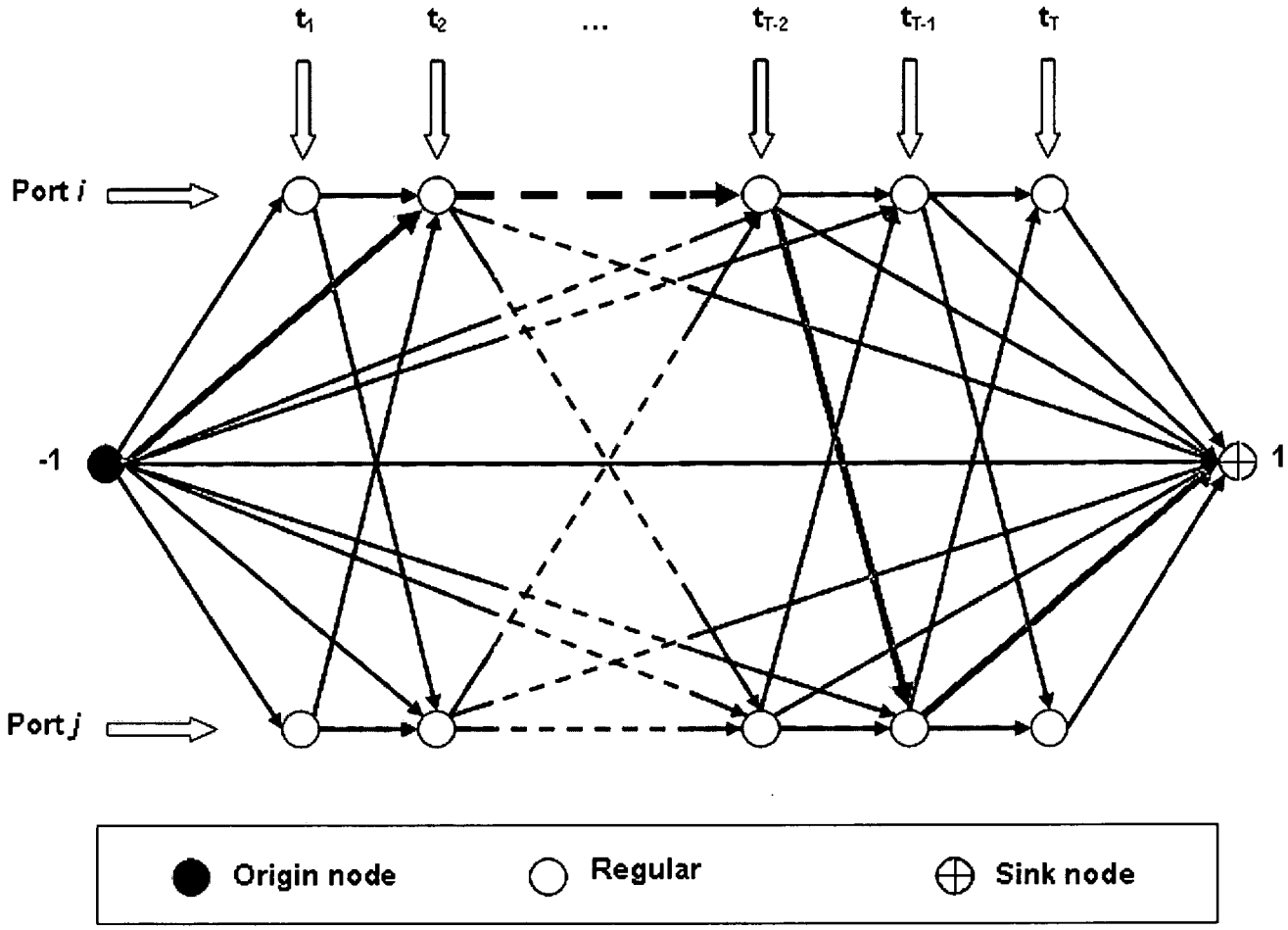


FIG.20