



COQG-Crude Oil Quality Group Meeting
San Antonio October 23, 2008

Thunder Horse and Southern Green Canyon

THUNDER HORSE



THUNDER HORSE

Platform design: semi-submersible

Dimension: (ft) 455' x 344'

Topsides: 20,000 tonnes

Hull: 60,000 tonnes

Block: Mississippi Canyon 778/822

Platform production rating: 250,000 barrels of oil per day;
200 million cubic feet of gas per day

Drilling rig

229 bed hotel

100 MW power plant

Platform location: Approx:150 miles SE of New Orleans

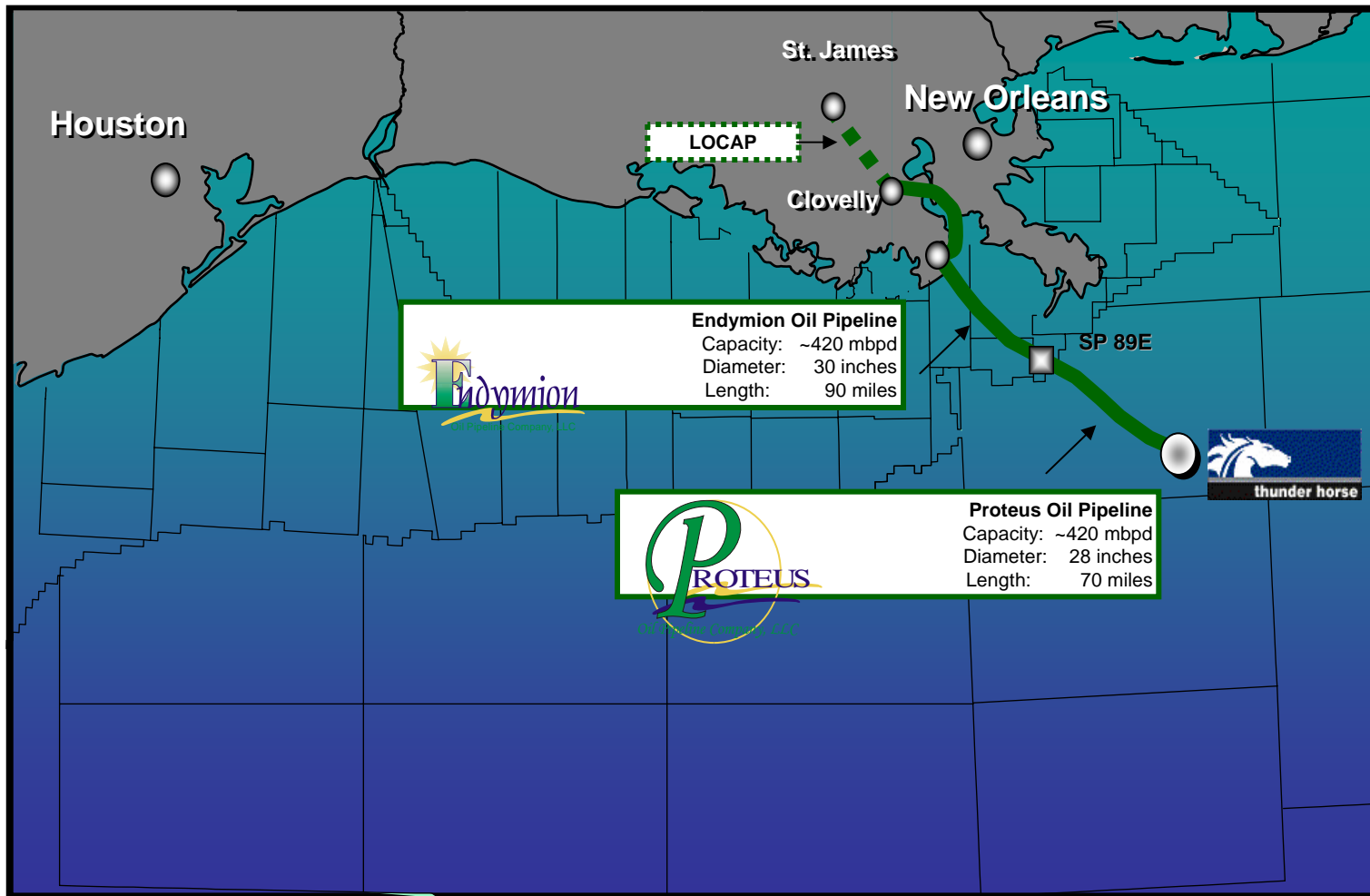
Operating water depth: 6050 feet



Other facts:

- Thunder Horse is the world's largest, semi submersible, production and drilling facility
- Facility capacity is 250 MBOPD and 200 MMSCFD
- Water Injection Capacity is 300,00 mbd at 6300 psi
- Thunder Horse's overall height is 425 feet from crown on the derrick to hull keel

Thunder Horse



Southern Green Canyon (SGC)



ATLANTIS

Start Date: 2007

Platform Design: Semi-submersible

Block: Green Canyon 699

Platform Production Rating: 200,000 barrels of oil per day
180 million cubic feet of gas per day



HOLSTEIN

Start Date: 2004

Platform Design: Truss Spar

Block: Green Canyon 645

Platform Production Rating: 110,000 barrels of oil per day
150 million cubic feet of gas per day



MAD DOG

Start Date: 2003

Platform Design: Spar

Block: Green Canyon 782

Platform Production Rating: 100,000 barrels of oil per day
60 million cubic feet of gas per day

Southern Green Canyon (SGC) - Atlantis



Other facts:

- Located in 4,500 to 6,800 feet of water in Southern Green Canyon Block 787 in the GOM
- Jointly owned by BP (56% interest and operator), and BHP-Billiton with 44%
- Nameplate facility throughput is 200 mboed, and up to 180 mmscfd of natural gas
- Mobile Drilling Unit (MODU) allows BP to re-enter wells as needed and provides flexibility in choosing well locations
- Atlantis is one of the deepest moored semi-submersible platform in the world
- Production capacity is estimated at 200,000 barrels of oil per day and 180 million cubic feet of gas



Southern Green Canyon (SGC) - Holstein



Other facts:

- The 6 well pre-drilling program in 2002 culminated in a new “Best in Class” benchmark of 12.6 days/10K
- First use of a Spar supported Riser Tensioner system
- Combined offshore topsides lifts (22,000 t) in the GOM
- Power Generation plant (60 MW installed) in the GOM
- At the time was one of the largest Offshore Hook-Up and Commissioning program in the GOM
- Platform at the time was one of the largest production, drilling and quarters (PDQ) truss spar in the world
- Mooring system extends three-quarters of a mile from the surface to the ocean floor
- Spar is 745 feet long and 150 feet in diameter
- Truss is 430 feet long and weighs around 6,600 tons



Southern Green Canyon (SGC) – Mad Dog

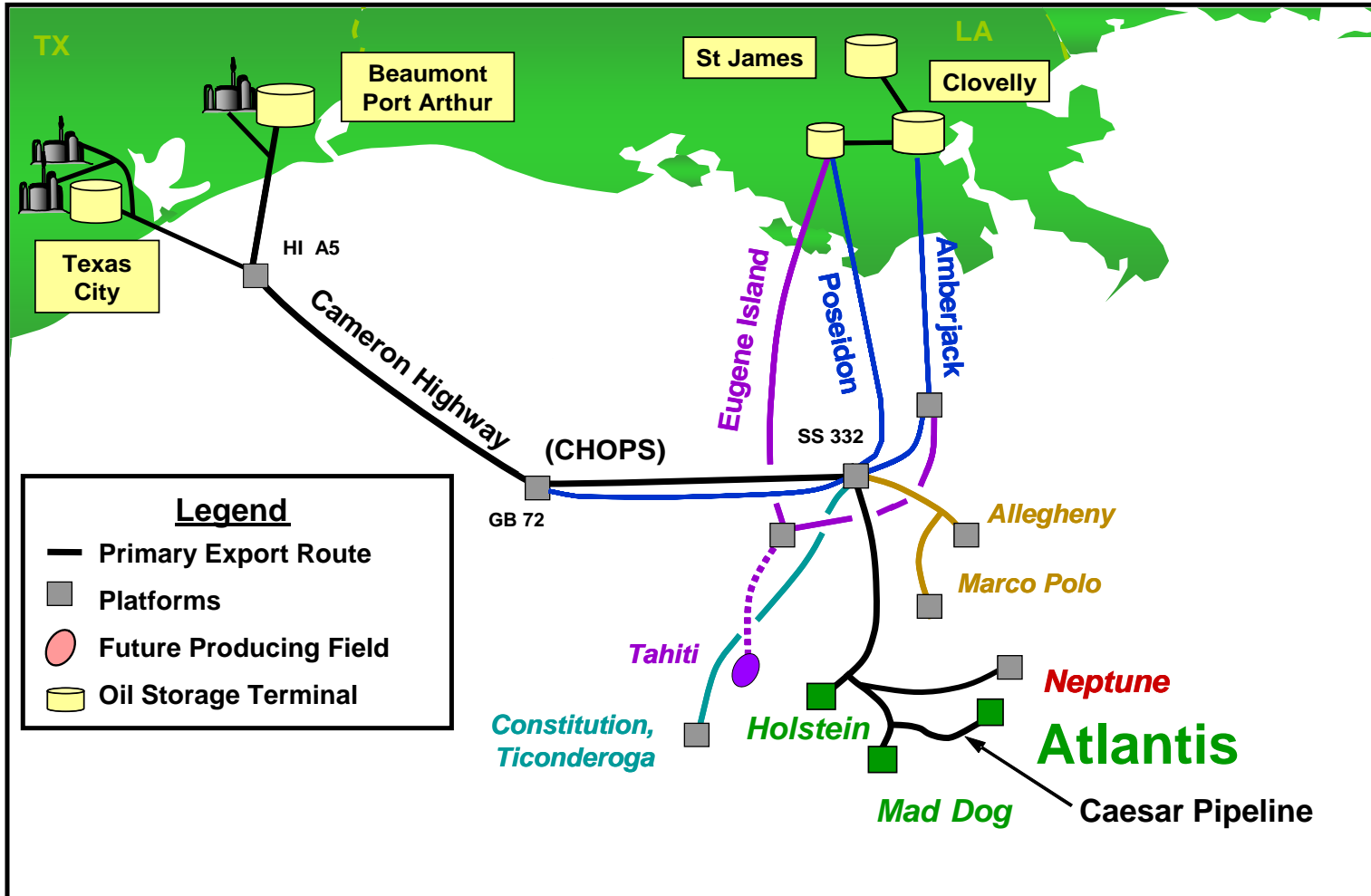


Other Facts:

- Located beneath 4,500 feet of water some 190 miles south of New Orleans
- Second of four gigantic fields discovered by BP in late 1990s
- One of the top 10 largest discoveries to-date in the GOM
- First polyester rope mooring system approved by the U.S. Coast Guard for use on a permanent installation
- Single-piece truss spar was fabricated for the platform
- At 8,000-tons, the topsides deck was the largest single-hook load lift in the GOM
- The capacity to produce up to 100,000 barrels of oil and 60 million cubic feet of natural gas per day
- 150 drilling and production personnel operate the truss spar – designed to produce and drill at least 12 wells simultaneously



Southern Green Canyon (SGC)



Assay



	Thunder Horse	HLS	LLS	Mars	Poseidon	Southern Green Canyon
WHOLE CRUDE INSPECTIONS						
GRAVITY, API	32.7	32.6	36.5	29.2	29.6	29.4
SULFUR, WT%	0.62	0.356	0.355	1.94	1.97	2.25
POUR POINT, DEG F	-13	-17	-11	-33	-22	-2
VISCOSITY @68F, CS	13.3	11.6	6.8	22.8	22.7	27.1
VISCOSITY @ 122F, CS	5.5	4.6	3.3	8.9	8.4	9.7
NEUT NO., MG. KOH/GM	0.08	0.77	0.39	0.53	0.52	0.25
CRUDE DIST. YIELDS, VOLUME %						
C4 & LIGHTER	1.3	1.3	1.7	2.6	2.3	2.1
LT. VIRGIN NAPHTHA	6.0	4.6	6.2	6.3	6.1	6.5
REFORMER FEED	12.9	12.4	14.3	12.2	12.2	12.6
JET FUEL	14.5	18.1	19.4	14.2	14.4	14.3
Diesel	19.5	21.0	21.1	14.3	14.7	14.0
FCU FEED	28.8	30.3	27.9	27.2	28.5	27.4
Vacuum Residue	17.0	12.3	9.4	23.1	21.7	23.1
REFORMER FEED						
AROM.+NAPH, VOL.%	41.0	48.6	44.8	38.4	39.8	34.3
JET "A" FUEL DIST.						
GRAVITY, API	45.3	42.7	43.9	43.7	44.5	45.8
FURNACE OIL DIST.						
CETANE INDEX (D4737-90)	57	50.9	54.9	49.3	51.4	54.2
FCU FEED						
GRAVITY, API	23.6	23.1	25.2	20.9	21.6	22.3
SULFUR, WT%	0.8	0.5	0.5	2.2	2.0	2.5
NITROGEN, PPM	1100	704	568	1010	875	812
REDUCED CRUDE						
SULFUR, WT%	1.6	1.1	1.4	4.0	4.5	4.7
RAMS CARBON, WT%	18.0	12.8	12.2	17.3	19.5	22.3
NICKEL, PPM	62	23	31	74	70	105
VANADIUM, PPM	46	18	29	173	223	399

No representation or warranty, express or implied, is made as to the accuracy or completeness of this assay. Neither BP or their agents accept any liability for any use made of the assay data.