

# TRAVEL GUIDE

**GoM SITE VISIT** 





### HELICOPTER

- ▶ Follow pilot's direction
- ► Turn your phone off before boarding helicopter
- Approach helicopter from side to avoid rotors
- ▶ Don't: Approach helicopter from front or rear

### GENERAL

- ▶ If you see a hazard, point it out
- If you see anything unsafe, stop the job
- Know your muster station and life capsule
- Stay with your assigned group or "buddy"

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# **Itinerary**

#### AUGUST 3

7:00am Groups arrive at New Orleans Airport

(MSY) Signature Flight Support

**7:05**AM Passenger safety briefings; Jeff Goyer

and Bristow video

8:00am Depart MSY to Gulfstar 1

9:00am Arrive Gulfstar 1

**9:10**AM Induction and presentation

10:30AM Tour of facility

11:45AM Lunch on Gulfstar 1

12:50AM Depart Gulfstar 1 to Stena Forth

1:00pm Arrive Stena Forth

1:10pm Induction and presentation

2:30PM Tour of facility

**3:50pm** Depart for MSY

**5:15PM** Depart for New York/Houston



# Safety Do's & Don'ts

#### GENERAL

- If you see a hazard, point it out
- ▶ If you see anything unsafe, stop the job
- Report any incident / injury to your assigned "buddy"
- Stay with your assigned "buddy"
- ▶ Don't: Let an unsafe act go unnoticed

#### **HELICOPTER**

- ▶ Follow pilot's instructions
- ▶ Hearing protection must be worn at all times
- ▶ Wear closed toe shoes
- ▶ Turn your phone off before boarding helicopter
- ▶ Approach helicopter from side to avoid rotors
- ▶ Don't: Approach helicopter from front or rear
- ▶ Don't: Wear loose items that could fly off near the helicopter

#### FACILITY

- ▶ Know your muster station and life capsule
- ▶ Know your alarms and safe areas
- ► Turn your phone off before going outside of guarters
- ▶ Be aware of hazards, e.g., overhead lifts
- Listen for safety announcements
- Always use handrails on stairs





### **HESS RULES**



#### **Energy Isolation**

Stored energy sources shall be identified, isolated, tested and communicated to appropriate personnel before work shall proceed



#### Lifting and Hoisting

Use only locally qualified operators and appropriate equipment for all mechanical lifting, hoisting and rigging operations



#### Working at Heights

Personal fall protection equipment must be worn when working 6 feet (1.8 meters) or higher above ground



#### **Confined Space Entry**

Confined spaces shall not be entered unless authorized by written permit



#### Hot Work

A written work permit is required for all hot work outside of designated safe areas



#### **Excavation and Trenching**

All excavation and trenching work greater than 4 feet (1.2 meters) deep requires written approval



#### **Land Transportation**

Identify all driving threats associated with motor vehicle activity prior to putting motor vehicle in motion

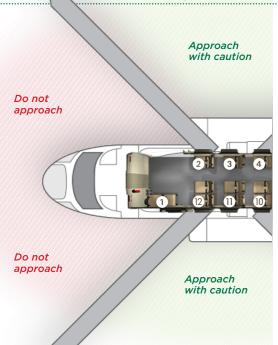
#### **STOP Work Authority**

You have the authority and indeed the obligation to STOP THE JOB if you see an unsafe act or condition.

Stopping an operation for safety or environmental reasons will receive the full backing and support of Hess management.



# Helicopter Safety and



### TEAM SEATING



**Blane Cole** Senior Manager GSC Offshore





Jeff Wirth
Director, GoM Asset
Seat position: 12



Greg Hill
President
Seat position: 2



David McManus Former Executive Vice President, Pioneer Natural Resources

Seat position:



Sam Brown
Director, OAWA D&C
Seat position: 3



John Mullin Chairman, Ridgeway Farm LLC; former Managing Director, Dillon, Read & Co. Inc.

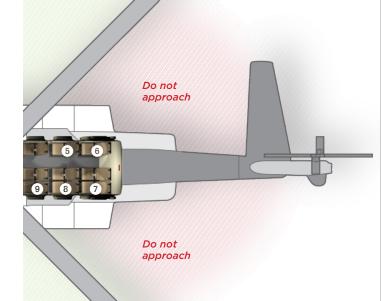
Seat position: 10

#### **AIRCRAFT:** SIKORSKY S92





### **Seating Positions**





Former Management Committee member at Federal

Reserve Bank of New York





**Kevin Meyers** Former Senior Vice President of E&P for the Americas, ConocoPhillips

Seat position: 9



Former Chief Operating Officer, TNK-BP Russia Seat position: 5



Richard Lynch Senior Vice President, Global Drilling, Completions and Development

Seat position: 8



Senior Vice President -Offshore

Seat position: 6





Alex Sagebien VP. EHS

Seat position: 7



#### KEY FACTS

The S92 is the most reliable heavy helicopter in industry: best-in-class safety record, latest generation technology; The fleet recently surpassed 1,000,000 flight hours

- ▶ Bristow has flown over 20,000 hours in the S92 since its introduction in the Gulf of Mexico
- ▶ Performance: the S92 is a highly reliable aircraft, delivering greater than 99% in On Time Departures
- ▶ The one-way S92 range is ~200 miles, carrying in excess of 4,800 lbs of payload, making it a tremendous asset for passenger movement
- Cruise speed of 147 knots (170 mph)

### Hess GoM



#### **GOM DRILLING FACTS**

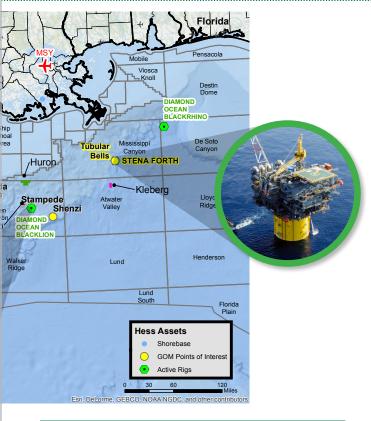
- ▶ Hess 4th most active in deepwater drilling.
- ▶ From the peak of 50 MODUs in December 2014, total count across the region had declined by almost 30% in February 2016 to 35 MODUs.
- ▶ Fifteen contracts have been executed on existing rigs in 2015 and 2016, with discounts ranging from 30% to more than 70% from the peak rate.

#### MONTHLY MODU COUNT, 2010-2016



Source: Woods Mackenzie





#### **GOM PRODUCTION FACTS**

- ► GoM deepwater production in 2015 averaged ~1,300,000 BOEPD.
- ▶ Hess has 11 fields in GoM
- Operated: Tubular Bells, Stampede, Baldpate, Penn State, Conger, Northwestern, Tulane.
- Non-Operated: Llano, Shenzi, Hack Wilson, Enchilada/Salsa/Elmer.
- ▶ 6th largest deepwater producer in 2015
- 4th largest by 2019.
- ▶ Hess is the 18th largest acreage holder in GoM.

#### TOP GOM DEEPWATER PRODUCERS

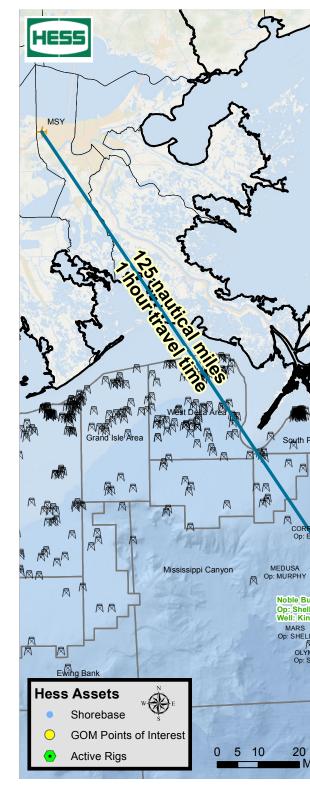
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201	5	
RANK	COMPANY	'000 B0E/D
1	BP	250
2	Shell	246
3	BHP Billiton	144
4	Chevron	98
5	Anadarko	85
6	Hess	77
7	Freeport-McMoRan	71
8	ExxonMobil	70
9	Eni	63
10	Petrobras	36

201	9	
RANK	COMPANY	'000 B0E/D
_1	BP	280
2	Shell	272
3	Chevron	209
4	Hess	99
5	ExxonMobil	94
6	Statoil	92
7	BHP Billiton	82
8	Anadarko	77
9	Freeport-McMoRan	63
10	Eni	37

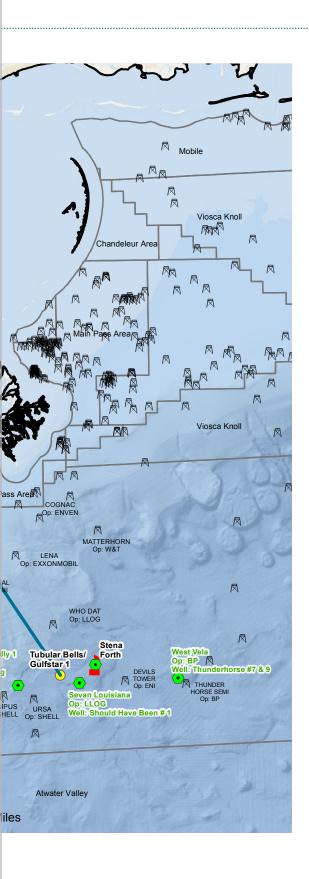
Source: Wood Mackenzie

# Flight Path

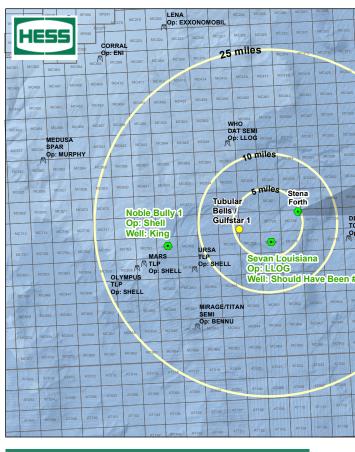
### **MSY TO GULFSTAR 1**





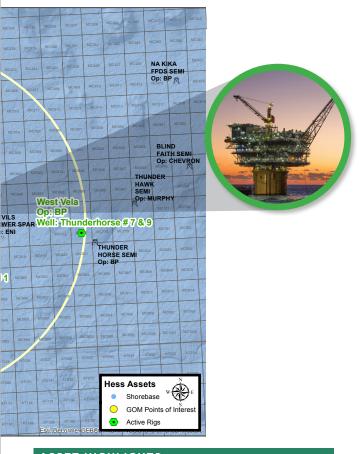


# Tubular Bells/ Gulfstar 1



ASSET DETAILS		
TUBULAR BELLS		
Working Interest	Hess Op: 57%; Chevron 43%	
Discovery	2003	
First Oil November 2014		
Water Depth	4,4001	
Reservoir Depth	24,000 <sup>1</sup> below surface and 10,000 <sup>1</sup> of salt	
Ult (est)	143 MMBOE gross EUR	
GULFSTAR 1 KEY	FACTS	
GS1 Dimensions	Facility: ~4365¹ from sea floor to helideck	
	Spar: 585 <sup>1</sup> long (structure that supports the deck/topsides and holds the processing equipment)	
	Span of mooring chains from hu ~4,8501	
	Distance to Hess wells: ~9 miles	
Process Design	Oil handling: 60,000 BOPD Gas handling: 135 MMcfd Water Injection: 60,000 BWID	
Accommodations	ons Permanent LQ: 50	

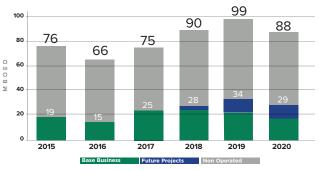




### ASSET HIGHLIGHTS

- ➤ One year after Hess took over as operator, project sanctioned in 2011 and fast-tracked to first oil in just three years.
- ► First classic spar built entirely in the U.S., creating an estimated 7,000 direct and indirect jobs in Texas and Louisiana.
- ► Gulfstar 1 is the first spar for Hess globally

#### **TUBULAR BELLS: PRODUCTION**



# **Tubular Bells**

#### **TEAM**

#### **VINCE THERIOT**

Offshore Installation Manager (OIM)

#### MATT LAVERGNE

**Production Supervisor** 

#### **GENE WOOD**

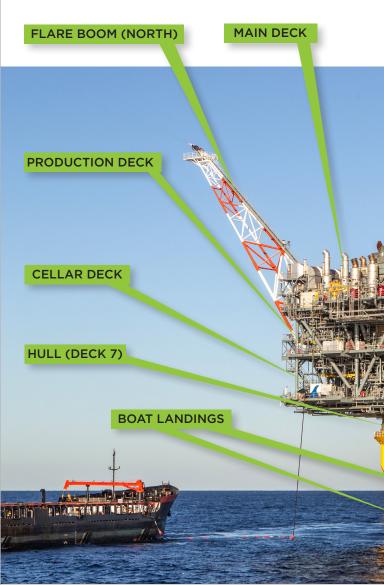
Maintenance Supervisor

#### **TODD VENAMON**

Facilities Engineer

#### **CHRIS COPELAND**

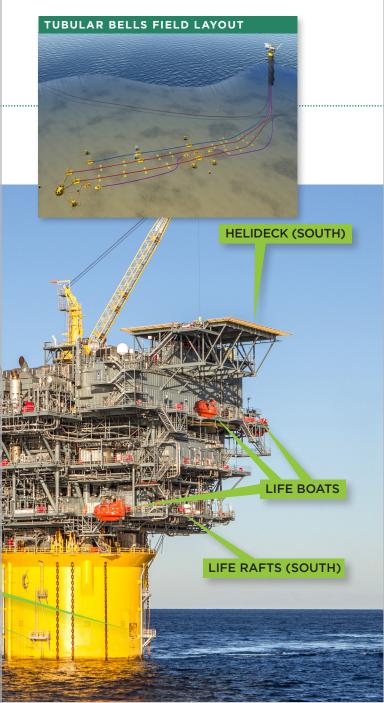
**EHS Specialist** 



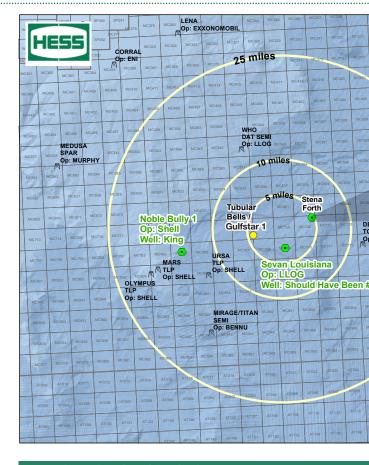


#### **TOUR OUTLINE**

- 1 Gunflint Deck Extension Area
- 2 Control Room
- 3 Conference Room

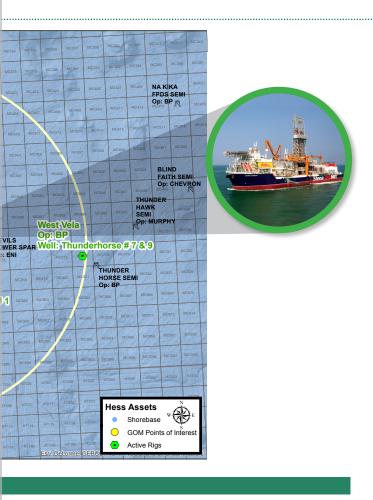


# Stena Forth



DRILLSHIP SPECIFICATIONS		
Year Entered Service	2009	
Dimensions	748 <sup>1</sup> long x 138 <sup>1</sup> breadth x 84 <sup>1</sup> deep	
	Hoisting system: 1571 max height	
Transit Speed	up to 12 knots	
Water Depth	10,0001	
Drilling Depth	30,0001	
Storage Capacities	Liquid Mud: 5,346 bbl (active), 15,096 bbl (storage)	
	Base Oil: 3,139 bbls	
	Brine: 3,132 bbls	
	Drill Water: 28,078 bbls	
	Potable Water: 11,837 bbls	
	Fuel Oil: 68,270 bbls	
	Bulk CMT: 3,699 sacks	
	Sack Material: 7,500 sacks	
Subsea Equipment	BOP Stacks (2): 2 x 18 3/4 x 15K Cameron TL (5 Ram)	





#### **POWER EQUIPMENT**

Main Power6 x Wartsila 16V32C x 7.68MW

**Emergency** Integrated in main power

Power

### STATION KEEPING/PROPULSION

**Thrusters** 6 x Rolls Royce UCC-455, 5.5MW

**DP System** DP 3 (Kongsberg)

#### OTHER INFORMATION

Accommodations 180 people

# Stena Forth

### **TEAM**

#### TRAVIS KNIPPERS

Lead Drilling Supervisor

#### **DUSTIN COBB, TAD JONES**

**Drilling Supervisor** 

#### MIKE McKIMMY

Field Drilling Engineer

#### **PAUL MORRIS**

Stena Offshore Installation Manager (OIM)

#### MIKE BOYD

Stena Senior Toolpusher





### **TOUR OUTLINE**

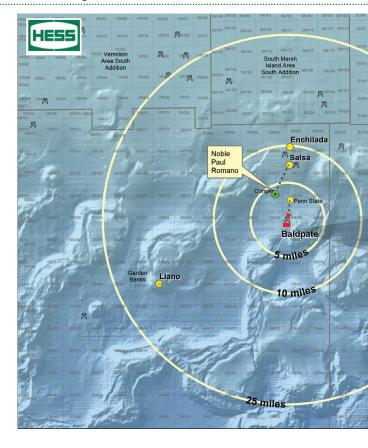
- 1 Helideck
- 2 Safety Briefing Room
- 3 Bridge
- 4 Drill Floor
- 5 Drill Control
- 6 BOP
- 7 ROV







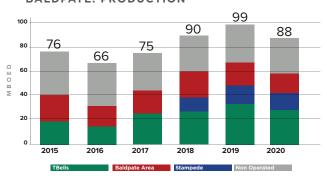
# **Baldpate Area**



ASSET DTLS	BALDPATE/PENN	CONGER
Working Int.	Hess Op: 50%	Hess Op: 37.5%
Partners	Anad*: 50%	Shell: 37.5% Anad: 25%
Discovery	1991	1997
First Oil	1998	2000
Water Dep.	~1,6501	~1,560 <sup>1</sup>
Ult. (est)	~200 MMBOE	~300 MMBOE

<sup>\*</sup>Anad. = Anadarko

#### **BALDPATE: PRODUCTION**



Baldpate area includes Baldpate, Conger, Penn State







#### **ASSET HIGHLIGHTS**

- ▶ First Offshore Compliant Tower
  - •1,900' from flare tip to seafloor. The tallest free-standing structure in the world at that time
- ► Baldpate Area production to date ~370 MMBOE (gross)
- ▶ Multiple near field tie-back opportunities
- Noble Paul Romano drilling Conger 10 development well
- Won two consecutive Peak Awards (Nov., Dec. 2015) recognizing Operational Excellence, including improved safety, reliability and cost
- Baldpate/Penn State was one of the first to utilize subsea CT scanning technology to measure pipeline wall thickness

# **Baldpate**

### **TEAM**

MIKE KING

Offshore Installation Manager (OIM)

**DOUG KEMP** 

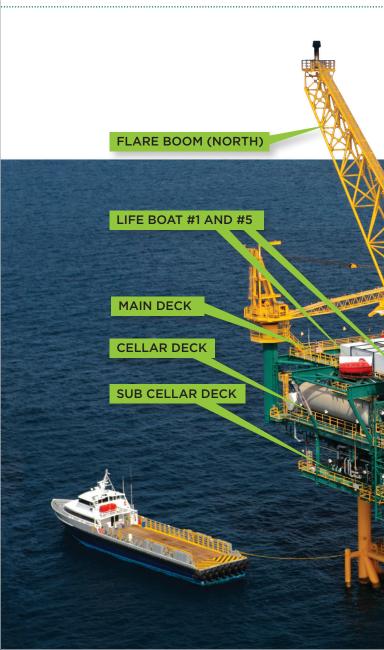
Facilities Engineering

**ROSS MELANCON** 

Senior Facilities Engineer

**SCOTT NUNEZ** 

**Production Supervisor** 



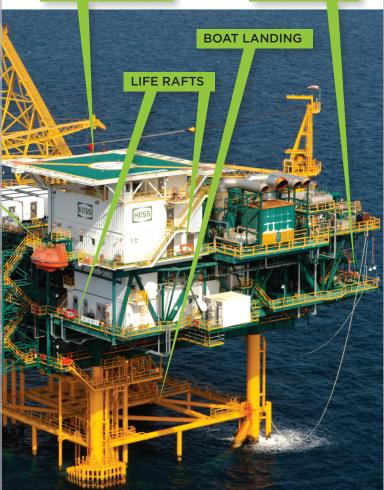


LIFE BOAT #2

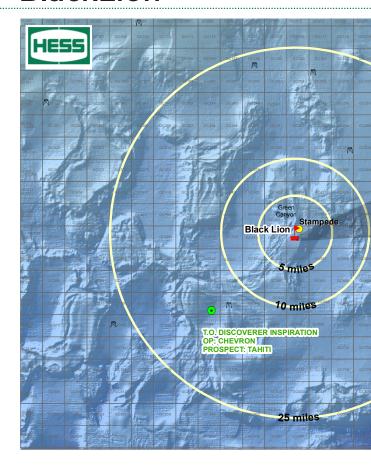
### **TOUR OUTLINE**

- 1 Helideck
- 2 Safety Briefing Room
- **3** Muster Point
- 4 Control Room
- 6 Workshop
- **6** Treater
- 7 Separator

HELIPAD (SOUTH)



# BlackLion



DRILLSHIP SPECIFICATIONS		
Year Entered Service	2015	
Dimensions	757 <sup>1</sup> long x 118 <sup>1</sup> wide x 60 <sup>1</sup> deep Derrick: 210 <sup>1</sup> high	
Transit Speed	up to 12 knots	
Water Depth	12,000¹ designed / 10,000¹ outfitted	
Drilling Depth	40,0001	
Storage	Liquid Mud: 15,204 bbls	
Capacities	Base Oil: 7,209 bbls	
	Brine: 13,175 bbls	
	Drill Water: 18,593 bbls	
	Potable Water: 8,834 bbls	
Subsea Equipment	BOP Stacks (2): Hydril 18 3/4" 15,000 psi seven-ram preventer	







#### **POWER EQUIPMENT**

Main Power 6 x Himsen diesel engines rated

4,500kW, each driving 5,375

kVA AC generators

2 x Himsen V-type diesel engines rated 9,000kW, each driving 5,375 kVA AC generators

Emergency Power V-type Cummins diesel engine rated 1,900Kw driving 1 x STX engine rated 1,550kW AC

generator

#### STATION KEEPING/PROPULSION

**Thrusters** 6 x Thrustmaster, 5,000kW azimuth thursters w fixed pitch

variable speed propeller

**DP System** Kongsberg K-POS

#### OTHER INFORMATION

Accommodations 210 people

# **BlackLion**

### **TEAM**

SAMMY NEEL

Senior Supervisor, Drilling

**KEVIN LAMBERT** 

Manager, Drilling & Completions

DAVID ZAUNBRECHER

**Drilling Superintendant** 

JOSEPH ELFERT

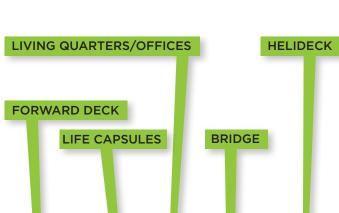
Diamond Offshore Installation Manager (OIM)





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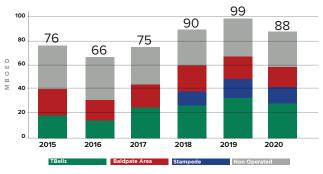




# Stampede

ASSET DETAILS	
Working Interest	Hess Operator: 25%
Partners	Chevron, Statoil, Nexen
Discovery	2005
First Oil	2018
Water Depth	3,5001
Ultimate Recovery (est)	300-350 MMBOE

#### STAMPEDE: FUTURE PRODUCTION



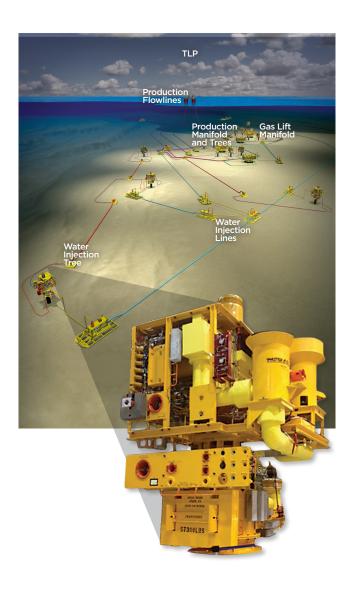
Baldpate area includes Baldpate, Conger, Penn State





#### **ASSET HIGHLIGHTS**

- ▶\$6 billion development (gross)
- ▶ Sanctioned 2014
- ▶ 6 producers, 4 injectors from 2 well centers that tie back to the TLP
- ▶ Topsides weight of 15,848 short tons
- ► A two-rig drilling program, second rig BlackRhino beginning in 2017
- ► Reservior depth 30,000<sup>1</sup>
- One of the deepest developments in the Gulf of Mexico



# **Itinerary**

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Hess.com