

**Exhibit C**

**Long Beach Unit**

**THUMS Long Beach Company**  
(Agent for Field Contractor)



**ANNUAL PLAN**

July 1, 2011 through June 30, 2012



**ANNUAL PLAN**

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## Part I

### Introduction

This Annual Plan ("Plan") was developed to reflect anticipated activity levels during the fiscal period from July 1, 2011 through June 30, 2012 ("FY12"). It is being submitted as required by Section 5(a) of Chapter 138, Statutes of 1964, First Extraordinary Session, and as revised by passage of Assembly Bill 227 (Chapter 941, Statutes of 1991) and the Optimized Waterflood Program Agreement approved by the State of California, the City of Long Beach, and Atlantic Richfield Company, whose interest has been assigned to Occidental Petroleum Corporation.

This Plan provides for drilling, producing, water injection, and other associated activities from offshore and onshore locations. The budget for these activities is grouped into the following five major categories:

<b>Plan Category</b>	<b>Fiscal Year 2011 – 2012 (\$ Million)</b>
Development Drilling	\$ 86.8
Operating Expense	\$ 97.3
Facilities, Maintenance, and Plant	\$ 91.3
Unit Field Labor and Administrative	\$ 59.0
Taxes, Permits, and Administrative Overhead	\$ 43.1
<b>Total</b>	<b>\$377.6</b>

## **A. Plan Basis**

This Plan was developed based on the parameters outlined in the Program Plan for the period July 2011 through June 2016 and provides current estimates of volumes, drilling activity and expenditures for FY12.

### **Volumes**

Oil and gas production volumes are predicted to average 24.9 Mbopd and 11.2 MMcfd, respectively, in FY12. Water production for the period is expected to average 1,023 Mbwpd and water injection is expected to average 1,118 Mbwpd.

### **Revenue and Expenses**

A projected oil price of \$45.00/bbl Wilmington and gas price of \$4.50/mcf will result in revenues of \$429 million. Budgeted expenses for FY12 total \$378 million. Projected net profit in FY12 is \$52 million.

### **Drilling**

This Plan allows for drilling approximately 46 new and redrilled development and/or replacement wells. The plan is to use two drilling rigs as noted in the Program Plan. The rig utilization could potentially change due to variations in oil price. A workover rig(s) will perform drilling preparation and completion work. Locations of production and injection wells to be drilled or redrilled are given in Part II, Schedule 1B of this Plan.

### **Maintenance**

Most of the major facility projects anticipated during the Plan period are required to maintain current equipment capabilities or to enhance operations. Other projects will be necessary to take advantage of improvement opportunities and to address changes in the oil field operating environment.

Many projects will be undertaken to repair or replace equipment that has outlived its useful life. Items needing to be repaired or replaced include, but are not limited to, facilities piping, tanks, and vessels. These projects are consistent with past activities to keep the Unit facilities in safe operating condition.

### **Abandonment**

Wells and facilities with no further economic use will be abandoned to reduce current and future Unit liability. This Plan provides funds for plugging wells to surface, in-zone, and conditional abandonments.

### **Safety, Environmental, and Regulatory Compliance**

The Unit is committed to conducting all aspects of its business in a manner that provides for the safety and health of employees, contractors and the public, and safeguards the environment in which it operates. Projects relating to safety, environmental issues, or other situations necessary for meeting compliance with code, permit, or regulatory requirements will continue to be implemented under this Plan in accordance with all Unit agreements. In addition, THUMS will be placing additional emphasis on risk and system reviews and operational safeguards to assure reliable and compliant environmental performance.

### **Economic Review**

Project expenditures during the Plan period are subject to economic review through the Determination and Authority for Expenditure processes. All existing wells are frequently reviewed in light of changing crude prices to determine if they are economic to operate. Well servicing work is justified on economics and other conditions consistent with good engineering, business, and operating practices.

**B. Economic Projections**  
(Data in Millions of Dollars)

	BUDGET FIRST QUARTER FY12	BUDGET SECOND QUARTER FY12	BUDGET THIRD QUARTER FY12	BUDGET FOURTH QUARTER FY12	BUDGET TOTAL FY12
<b><u>ESTIMATED REVENUE</u></b>					
Oil Revenue	\$104.3	\$103.6	\$101.8	\$101.1	\$410.8
Gas Revenue	\$4.5	\$4.7	\$4.7	\$4.6	\$18.5
<b>TOTAL REVENUE</b>	\$108.9	\$108.3	\$106.4	\$105.7	\$429.3
<b><u>ESTIMATED EXPENDITURES</u></b>					
Development Drilling	\$21.7	\$21.7	\$21.7	\$21.7	\$86.8
Operating Expense	\$24.6	\$23.5	\$23.9	\$25.3	\$97.3
Facilities & Maintenance	\$22.8	\$22.8	\$22.9	\$22.9	\$91.3
Unit Field Labor & Administration	\$14.7	\$14.7	\$14.7	\$14.7	\$59.0
Taxes, Permits & Overhead	\$10.8	\$10.8	\$10.8	\$10.8	\$43.1
<b>TOTAL EXPENDITURES</b>	\$94.6	\$93.5	\$94.0	\$95.4	\$377.6
<b><u>NET PROFIT</u></b>	\$14.3	\$14.8	\$12.4	\$10.3	\$51.7

### C. MAJOR PLANNING ASSUMPTIONS

	<b>BUDGET FIRST QUARTER <u>FY12</u></b>	<b>BUDGET SECOND QUARTER <u>FY12</u></b>	<b>BUDGET THIRD QUARTER <u>FY12</u></b>	<b>BUDGET FOURTH QUARTER <u>FY12</u></b>	<b>BUDGET TOTAL <u>FY12</u></b>
<b><u>OIL PRODUCTION</u></b>					
PRODUCED (1000 BBL)	2,319	2,303	2,261	2,246	9,128
(AVERAGE B/D)	25,205	25,027	24,851	24,677	24,941
<b><u>GAS PRODUCTION</u></b>					
PRODUCED (1000 MCF)	1,007	1,038	1,033	1,027	4,106
(AVERAGE MCF/D)	10,947	11,282	11,356	11,290	11,218
<b><u>WATER PRODUCTION</u></b>					
PRODUCED (1000 BBL)	92,693	93,683	93,651	94,646	374,673
(AVERAGE B/D)	1,007,530	1,018,295	1,029,128	1,040,068	1,023,696
<b><u>WATER INJECTION</u></b>					
INJECTED (1000 BBL)	101,774	102,551	102,207	102,984	409,516
(AVERAGE B/D)	1,106,243	1,114,682	1,123,154	1,131,690	1,118,896
OIL PRICE (\$/BBL)	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00
GAS PRICE (\$/MCF)	\$4.50	\$4.50	\$4.50	\$4.50	\$4.50

## Part II

### Program Plan Schedules

#### Schedule 2 A

#### Range of Production and Injection FY 2012

#### Long Beach Unit Program Plan, July 2011-June 2016

FISCAL YEAR	RANGE OF PRODUCTION AND INJECTION RATES			
	OIL MBOPD	WATER MBWPD	GAS MMCFPD	INJECTION MBWPD
2011/12	23.7 - 26.2	973 - 1,075	10.7 - 11.8	1,056 - 1,167

FISCAL YEAR	RANGE OF INJECTION PRESSURES			
	TAR PSI	RANGER PSI	TERMINAL PSI	U. P./FORD PSI
2011/12	UP TO 1500	UP TO 2500	UP TO 2500	UP TO 3000



**Schedule 2 B**  
**Anticipated New and Redrilled Wells**  
**Fiscal Year 11/12**  
**Long Beach Unit Program Plan, July 2011-June 2016**

Reservoir	CRB	Producers					Injectors				
		Grissom Min - Max	White Min - Max	Chaffee Min - Max	Freeman Min - Max	Pier J Min - Max	Grissom Min - Max	White Min - Max	Chaffee Min - Max	Freeman Min - Max	Pier J Min - Max
Tar SG Ranger West		0 - 2	0 - 2				0 - 1	0 - 1			
		0 - 1	0 - 1								
	1	0 - 3					0 - 2				
	2	1 - 3	0 - 1				1 - 1	0 - 1			
	3	0 - 3	0 - 1				0 - 1	0 - 1			0 - 1
	4	1 - 3	0 - 1		0 - 1	0 - 1	1 - 2	0 - 1		0 - 1	0 - 1
	5	0 - 1			0 - 1	0 - 1	0 - 1			0 - 1	0 - 1
	7										
	8							0 - 1			
	9		0 - 1					0 - 1			
	10		0 - 1					0 - 2			
	11		0 - 1					0 - 1			
	12		0 - 1					0 - 1			
13		0 - 1					0 - 1		0 - 1		
36					0 - 1	0 - 1			0 - 1	0 - 1	
37					0 - 1				0 - 1		
Ranger East	14		0 - 1					0 - 1			
	15		0 - 1		0 - 1			0 - 1	0 - 1		
	16										
	17			1 - 2					0 - 1		
	18			1 - 1					0 - 1		
	20			0 - 1					0 - 3		
	21			1 - 2					1 - 2		
	22			0 - 1					0 - 1		
33			0 - 1					0 - 1			
Terminal	24		0 - 1					0 - 1			
	38	0 - 1				0 - 1	0 - 1			0 - 1	
	39	0 - 1	0 - 1				0 - 1		0 - 1		
	40		0 - 1								
	41	0 - 1				0 - 1	0 - 1			0 - 1	
	42			0 - 1				0 - 1			
43			0 - 1	0 - 1			0 - 1	0 - 1			
47											
UP Ford	26				0 - 1				0 - 1		
	27		0 - 2		0 - 1			0 - 1	0 - 1		
	30			0 - 2	0 - 1						
	31	0 - 1	0 - 1		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
	44			0 - 2					0 - 1		
	45			0 - 1				0 - 1	0 - 1		
46			0 - 1	0 - 1			0 - 1	0 - 1			
237	30	0 - 1		0 - 2	0 - 2						
		Total					Total				
		5 - 78					3 - 64				

## Part III

### Itemized Budget of Expenditures

#### A. Development Drilling \$86.8MM

The Development Drilling category of expenditures encompasses all new well and replacement well drilling activity, as well as maintenance and replacement of drilling equipment within the Unit. Funds for development drilling are based on the assumption that 46 wells will be developed and/or replaced during the Plan year, using approximately two drilling rigs and one and a half workover rigs.

Drilling and completing new wells, as well as redrilling and recompleting existing wells, account for 91 percent of the funding provided in this Category. Included in these activities is funding for rig move-in, drilling and casing, completion activities, drilling rig in-zone plugs and conditional abandonments, and unscheduled activity (fishing operations, cement squeezing, special logging, contract drilling services).

Exact specifications regarding the distribution of wells, bottom hole locations, and completion intervals will be determined by OXY Long Beach, Inc. (OLBI). These decisions will be influenced by contributions from reservoir engineering personnel, results from ongoing engineering studies, and new well performance. This information will be reviewed and approved in accordance with Unit Agreements during regularly scheduled Unit forums.

#### B. Operating Expense \$97.3MM

The Operating Expense category of expenditures encompasses the ongoing costs of day-to-day well production and injection operations necessary for producing, processing, and delivering crude oil and gas, and for all electric power charges. Expenses for this category are based on estimated oil production of 24.9 Mbopd, estimated gas production of 11.2 MMcfpd, water injection requirement of 1,118 Mbwpd, and water production of 1,023 Mbwpd. Anticipated operating expenses were based on operating two and a half workover rigs per month for servicing an average active well count of 731 producers and 461 injectors. Abandonment well count will be determined as a function of drilling activity and the number of idle wells with no future use identified.

The day-to-day costs for production and injection well subsurface operations represent approximately 40 percent of the funding provided in this category. Included are funds for acidizing, fracturing, routine well work, well conversions,

in-zone plugs, conditional abandonments, and other charges incurred for well maintenance.

Electricity makes up 56 percent of the funds in this Category. Cost for electric power is based on estimated kilowatt usage of 704,181,000 kwh at an average rate of \$0.077/kwh. This cost includes all sources of Unit electrical power, including all costs associated with the power plant and electric utility purchases.

**C. Facilities, Maintenance, and Plant                      \$91.3MM**

The Facilities, Maintenance, and Plant category of expenditures encompasses costs for maintenance, repairs, upgrades, additions of surface facilities and pipelines, and costs for general field services.

Approximately 46 percent of the funding in this category is for general field and operating costs. This includes, but is not limited to, charges for general labor, equipment rentals, and materials for general maintenance (painting, welding, electrical, etc.) of all Unit systems, such as oil gathering, treating, storage, and transfer; gas gathering and treating; scale and corrosion control; produced water handling; waste disposal; leasehold improvements; electrical system; fresh water system; fire protection and safety; marine operations; and automotive equipment. Funds are also provided for chemical purchases and laboratory-related charges for chemical treatment of produced and injected fluids; gas processing charges; make-up water; security; transportation; small tools; and other miscellaneous field activities.

Approximately 54 percent of the funding in this Category is for facilities repair and improvement projects. Improvement projects include spending for the construction of the polarity treaters, Pier J pipeline replacements, and other infrastructure related investments that position the Unit for longevity.

**D. Unit Field Labor and Administrative                      \$59.0MM**

The Unit Field Labor and Administrative category of expenditures encompasses costs for Unit personnel and other Unit support activities.

Funding for Unit personnel includes costs of salaries, wages, benefits, training, and expenses of all THUMS employees. These costs represent approximately 75 percent of the category total.

Funding for Unit support activities includes, but is not limited to, costs for professional and temporary services necessary for the completion of support activities; charges for data processing; computer hardware and software; communications; office rent; general office equipment and materials; Unit Operator billable costs; OLBI billable costs; drafting and reprographic services;

Department of Transportation drug and alcohol testing; special management projects; and other miscellaneous support charges.

**E. Taxes, Permits, and Administrative Overhead \$43.1MM**

The Taxes, Permits, and Administrative Overhead category of expenditures includes funds for specific taxes, permits, licenses, land leases, and all administrative overhead costs for the Unit.

Funding is provided for taxes levied on personal property, mining rights, and oil production; for the Petroleum and Gas Fund Assessment; annual well permits and renewals; Conservation Committee of California Oil and Gas Producers Assessment; California Oil Spill Response, Prevention, and Administration fee; land leases; and pipeline right-of-way costs. These costs represent approximately 68 percent of the Category total.

Funding is also provided in this Category for all Administrative Overhead as called for in Exhibit F of the Unit Operating Agreement.

## **PART IV**

### **Definitions**

This Annual Plan may be Modified or Supplemented after review by the State Lands Commission for consistency with the current Program Plan. All Modifications and Supplements to this plan will be presented by the Long Beach Gas and Oil Department, City of Long Beach, acting with the consent of OLBI, to the State Lands Commission in accordance with Article 2.06 of the Optimized Waterflood Program Agreement.

In addition, on or before October 1, 2012 the City of Long Beach shall present to the State Lands Commission a final report and closing statement of the FY12 Annual Plan, in accordance with the provision in Section 10 of Chapter 138.

#### **A. Modifications**

The City of Long Beach, acting with the consent of OLBI, has the authority to cause the expenditures of funds for Unit Operations in excess of the amount set forth in the budget included in the Annual Plan, provided, however, that no such expenditure shall be incurred that would result in any category of expenditures set forth in the budget to exceed 120 percent of the budgeted amount for that category. A budget modification would be required for any expenditures which would cause a budget category to exceed its budgeted amount by 120 percent.

Any transfer of funds between budget categories or an augmentation or decrease of the entire budget may be accomplished by a budget modification in accordance with section 5(g) of Chapter 138 and Article 2.06 of the Optimized Waterflood Program Agreement.

Investment, facilities, and management expense projects commenced in prior budget periods, which are to be continued during the current budget period, may be added to this budget by a modification in accordance with Article 2.06 of the Optimized Waterflood Program Agreement.

#### **B. Supplements**

This Annual Plan contains all the investment and expense projects reasonably anticipated at the time the Plan was drafted and for which adequate detailed studies existed. Any significant and uncommon expenses not originally contemplated may be added to this budget or transferred by a supplement in accordance with Article 2.06 of the Optimized Waterflood Program Agreement.

The amount of the supplement shall include sufficient funds to complete the projects.

### **C. Final Report and Closing Statement**

The final report and closing statement for FY12 shall contain a reconciliation by category as finally modified and the actual accomplishments, including:

1. New wells and redrills by zone.
2. Facilities and capital projects.
3. Production by zone.
4. Injection by zone.