

CHESAPEAKE OPERATING, INC.

AUTHORIZATION FOR EXPENDITURE

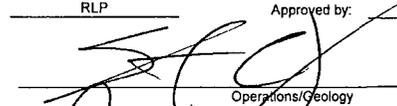
Project Area: CBP
 Well Name: Langley Greer 3H
 Operator: Chesapeake Operating, Inc.
 AFE #: 145493
 Spacing Unit: N/2 Section 21-22S-36E

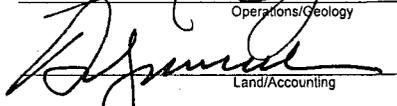
County, State: Lea, New Mexico
 Date: 10/23/2007
 Vertical Depth: 12,408'
 Vertical Section: 2,180'
 Total Depth: 14,384'
 Formation: Devonian
 Property #: 617712

CODE	INTANGIBLE COSTS	WORK DESCRIPTION	DRY HOLE	PRODUCER
233400	Location:	Roads, Location, Pits	\$75,000.00	\$75,000.00
233401		Damages	\$15,000.00	\$15,000.00
233402		Governmental Filings	\$3,000.00	\$3,000.00
233404		Seismic Costs	\$0.00	\$0.00
233405		Reclamation	\$50,000.00	\$50,000.00
233406		Top Drive	\$0.00	\$0.00
233408	Drilling:	Pipeline Construction	\$0.00	\$0.00
233409		Fuel	\$149,000.00	\$160,000.00
233410		Drilling Contractor: 54/56 days @ \$15000 per day	\$810,000.00	\$870,000.00
233411		Directional Services	\$303,000.00	\$303,000.00
233413		Rig Mobilization/Demobilization	\$125,000.00	\$125,000.00
233414		Contract Labor	\$70,000.00	\$151,000.00
233415		Bits	\$130,000.00	\$135,000.00
233416		Supplies and Utilities	\$1,000.00	\$2,000.00
233426		Cement Conductor	\$0.00	\$0.00
233417		Cement Surface Casing	\$15,000.00	\$16,000.00
233420		Cement Intermediate Casing	\$35,000.00	\$32,000.00
233424		Cement Production Casing	\$0.00	\$0.00
233425		Cement Drilling Liner	\$0.00	\$0.00
233452		Cement Production Liner	\$0.00	\$35,000.00
233418		Mud Logging	\$32,000.00	\$32,000.00
233419		Drilling Fluids, Mud, Chem.	\$140,000.00	\$145,000.00
233421		Drill String Inspection	\$5,000.00	\$5,000.00
233423		Open Hole Logging	\$45,000.00	\$45,000.00
233427		Fishing	\$0.00	\$0.00
233428		Downhole Rental Equipment	\$52,000.00	\$72,000.00
233430		Completion Unit	\$0.00	\$250,000.00
233431	Completion:	Cased Hole Services/Perforating	\$0.00	\$80,000.00
233433		Jetting	\$0.00	\$0.00
233434		Formation Stimulation	\$0.00	\$500,000.00
233437		Surface Equipment Rental	\$76,000.00	\$176,000.00
233438	General:	Transportation	\$15,000.00	\$30,000.00
233440		Flowback Hauloff	\$0.00	\$20,000.00
233442		Blowout/Emergencies	\$0.00	\$0.00
233443		Supervision	\$22,000.00	\$24,000.00
233439		Technical Labor	\$19,000.00	\$21,000.00
233435		Direct Labor	\$19,000.00	\$21,000.00
233444		Consultants	\$65,000.00	\$80,000.00
233446		Company Overhead	\$19,000.00	\$21,000.00
233447		Insurance	\$22,000.00	\$22,000.00
233450		Plug to Abandon	\$0.00	\$0.00
		10% Contingency	\$232,000.00	\$353,000.00
TOTAL INTANGIBLES		Total Intangible Costs	\$2,544,000.00	\$3,879,000.00

CODE	TANGIBLE COSTS	WORK DESCRIPTION				
230108	Tubulars:	Conductor: 20" 40'	\$0.00	\$0.00		
230100		Surface Casing: 13-3/8" 400'	\$12,000.00	\$12,000.00		
230101		Intermediate Casing: 9-5/8" 4,600'	\$128,000.00	\$128,000.00		
230102		Production Casing: 7" 12,200'	\$0.00	\$319,000.00		
230103		Drilling Liner:	\$0.00	\$0.00		
230109		Production Liner: 4-1/2" 2,500'	\$0.00	\$36,000.00		
230104		Float Equipment	\$8,000.00	\$25,000.00		
230105		Tubing: 2-7/8" 12,200'	\$0.00	\$82,000.00		
230106	Lease Equipment:	Wellhead Equipment	\$20,000.00	\$35,000.00		
230107		Downhole Equipment	\$0.00	\$50,000.00		
230111		Artificial Lift-Pumping Unit	\$0.00	\$125,000.00		
230113		Production Equipment	\$0.00	\$40,000.00		
230115		Compressor/Compression	\$0.00	\$0.00		
230116		Pipeline Equipment	\$0.00	\$0.00		
230120		Non-Controllable Equipment	\$0.00	\$0.00		
		10% Contingency	\$17,000.00	\$86,000.00		
TOTAL TANGIBLES		Total Tangible Costs	\$185,000.00	\$938,000.00		
		Total Costs	\$2,729,000.00	\$4,817,000.00		

Prepared by: RLP Approved by: CMB

OPERATOR'S APPROVAL:  DATE: 10/24/07
 Operations/Geology

OPERATOR'S APPROVAL:  DATE: 10/23/07
 Land/Accounting

NON-OPERATOR'S APPROVAL: _____ DATE: _____

The costs on this AFE are estimates only and may not be construed as ceilings on any specific item or the total cost of the project. In executing this AFE, the participant agrees to pay its proportionate share of actual costs incurred, including legal, curative, regulatory, brokerage, and well costs under the terms of the applicable joint operating agreement, regulatory order, or other agreement covering this well, as modified by any Accounting Procedure Exception attached to this AFE. The Operator may contract with an affiliated entity to drill the well at prevailing rates in the area. Participant shall be covered by and billed proportionately for Operator's well control and general liability insurance unless participant provides Operator a certificate evidencing its own insurance in amounts acceptable to the Operator by the date of spud.

BEFORE THE OIL CONSERVATION DIVISION
 Santa Fe, New Mexico
 Case No. 14027..... Exhibit No. 4
 Submitted by:
CHESAPEAKE OPERATING, INC.
 Hearing Date: January 10, 2008