

## AUTHORIZATION FOR EXPENDITURE

Project Area: Northwest Shelf  
 Well Name: Deer Canyon 24 Federal 1  
 Operator: Chesapeake Operating, Inc.  
 AFE #: 144563  
 Spacing Unit: N/2 Section 24-20S-21E

County, State: Eddy, New Mexico  
 Date: 5/31/2007  
 Vertical Depth: 5,200'  
 Vertical Section: 4,420'  
 Total Depth: 8,900'  
 Formation: Wolfcamp  
 Property #: 615823

CODE	INTANGIBLE COSTS	WORK DESCRIPTION	DRY HOLE	PRODUCER
233400	Location:	Roads, Location, Pits	\$70,000.00	\$70,000.00
233401		Damages	\$8,000.00	\$8,000.00
233402		Governmental Filings	\$2,000.00	\$2,000.00
233404		Seismic Costs	\$0.00	\$0.00
233405		Reclamation	\$25,000.00	\$25,000.00
233406		Top Drive	\$0.00	\$0.00
233408	Drilling:	Pipeline Construction	\$0.00	\$0.00
233409		Fuel	\$52,000.00	\$56,000.00
233410		Drilling Contractor: 26/28 days @ \$16000 per day	\$416,000.00	\$448,000.00
233411		Directional Services	\$200,000.00	\$200,000.00
233413		Rig Mobilization/Demobilization	\$150,000.00	\$150,000.00
233414		Contract Labor	\$46,000.00	\$103,000.00
233415		Bits	\$60,000.00	\$65,000.00
233416		Supplies and Utilities	\$1,000.00	\$2,000.00
233426		Cement Conductor	\$0.00	\$0.00
233417		Cement Surface Casing	\$15,000.00	\$15,000.00
233420		Cement Intermediate Casing	\$20,000.00	\$20,000.00
233424		Cement Production Casing	\$0.00	\$35,000.00
233425		Cement Drilling Liner	\$0.00	\$0.00
233452		Cement Production Liner	\$0.00	\$0.00
233418		Mud Logging	\$15,000.00	\$15,000.00
233419		Drilling Fluids, Mud, Chem.	\$70,000.00	\$75,000.00
233421		Drill String Inspection	\$5,000.00	\$5,000.00
233423		Open Hole Logging	\$35,000.00	\$35,000.00
233427		Fishing	\$0.00	\$0.00
233428		Downhole Rental Equipment	\$33,000.00	\$48,000.00
233430		Completion Unit	\$0.00	\$80,000.00
233431	Completion:	Cased Hole Services/Perforating	\$0.00	\$20,000.00
233433		Jetting	\$0.00	\$0.00
233434		Formation Stimulation	\$0.00	\$400,000.00
233437		Surface Equipment Rental	\$49,000.00	\$79,000.00
233438	General:	Transportation	\$15,000.00	\$30,000.00
233440		Flowback Hauloff	\$0.00	\$4,000.00
233442		Blowout/Emergencies	\$0.00	\$0.00
233443		Supervision	\$11,000.00	\$12,000.00
233439		Technical Labor	\$10,000.00	\$10,000.00
233435		Direct Labor	\$10,000.00	\$10,000.00
233444		Consultants	\$32,000.00	\$44,000.00
233446		Company Overhead	\$10,000.00	\$10,000.00
233447		Insurance	\$10,000.00	\$10,000.00
233450		Plug to Abandon	\$0.00	\$0.00
		10% Contingency	\$137,000.00	\$209,000.00
TOTAL INTANGIBLES		Total Intangible Costs	\$1,507,000.00	\$2,295,000.00

CODE	TANGIBLE COSTS	WORK DESCRIPTION				
230108	Tubulars:	Conductor:	20"	40'	\$0.00	\$0.00
230100		Surface Casing:	13 3/8"	300'	\$9,000.00	\$9,000.00
230101		Intermediate Casing:	9-5/8"	1,500'	\$36,000.00	\$36,000.00
230102		Production Casing:	5 1/2"	8,900'	\$0.00	\$125,000.00
230103		Drilling Liner:			\$0.00	\$0.00
230109		Production Liner:			\$0.00	\$0.00
230104		Float Equipment			\$3,000.00	\$12,000.00
230105		Tubing:	2 7/8"	5,000'	\$0.00	\$20,000.00
230106	Lease Equipment:	Wellhead Equipment			\$12,000.00	\$24,000.00
230107		Downhole Equipment			\$0.00	\$12,000.00
230111		Artificial Lift-Pumping Unit			\$0.00	\$45,000.00
230113		Production Equipment			\$0.00	\$35,000.00
230115		Compressor/Compression			\$0.00	\$0.00
230116		Pipeline Equipment			\$0.00	\$0.00
230120		Non-Controllable Equipment			\$0.00	\$0.00
		10% Contingency			\$6,000.00	\$32,000.00
TOTAL TANGIBLES		Total Tangible Costs			\$66,000.00	\$350,000.00
		Total Costs			\$1,573,000.00	\$2,645,000.00

Prepared by: RLP

Approved by: CMB

OPERATOR'S APPROVAL:

Operations/Geology

DATE:

6/1/07

OPERATOR'S APPROVAL:

Land/Accounting

DATE:

6/1/07

NON-OPERATOR'S APPROVAL:

Before the Oil Conservation Division

Exhibit No. 5

Chesapeake Permian Corp  
OCD CASE 14069

Hearing: January 24, 2008

The costs on this AFE are estimates only and may not be construed as ceilings on any specific item on this AFE, the participant agrees to pay its proportionate share of actual costs incurred, including legal costs under the terms of the applicable joint operating agreement, regulatory order, or other agreement. Accounting Procedure Exception attached to this AFE. The Operator may contract with an affiliated company. The area Participant shall be covered by and billed proportionately for Operator's well control and general liability insurance unless participant