



Laboratory Services, Inc.

 2609 West Marland
 Hobbs, New Mexico 88240

Telephone: (505) 397-3713

 FOR: Chesapeake Energy
 Attention: Steve Steadham
 5014 Carlsbad Hwy.
 Hobbs, New Mexico 88240

 SAMPLE: Sta. # 4021414469
 IDENTIFICATION CC 3 St. #1
 COMPANY: Chesapeake
 LEASE:
 PLANT:

 SAMPLE DATA: DATE SAMPLED 10/26/04 8:25am
 ANALYSIS DATE: 10/27/04
 PRESSURE -- PSIG 28
 SAMPLE TEMP. °F 64
 ATMOS. TEMP. °F 68

 GAS (XX) LIQUID ()
 SAMPLED BY: Steve Steadham
 ANALYSIS BY: Vickie Biggs

REMARKS: H2S< 4 PPM

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.657	
Carbon Dioxide (CO2)	0.169	
Methane (C1)	89.171	
Ethane (C2)	5.719	1.526
Propane (C3)	2.556	0.703
I-Butane (IC4)	0.299	0.098
N-Butane (NC4)	0.775	0.244
I-Pentane (IC5)	0.187	0.068
N-Pentane (NC5)	0.182	0.066
Hexane Plus (C6+)	0.285	0.124
	100.000	2.829

 BTU/CU.FT. - DRY 1129
 AT 14.650 DRY 1126
 AT 14.650 WET 1106
 AT 14.73 DRY 1132
 AT 14.73 WET 1113

MOLECULAR WT. 18.5624

 SPECIFIC GRAVITY -
 CALCULATED 0.640
 MEASURED

 BEFORE THE
 OIL CONSERVATION DIVISION
 Case # 13492&13493 Exhibit No. 41
 Submitted By:
 Chesapeake Inc.
 Hearing Date: August 22, 2005
 BEFORE THE