



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:
IDENTIFICATION: Osudo 9 St. Com. #1
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 8/19/05 3:10pm
ANALYSIS DATE: 8/19/05
PRESSURE - PSIG 626
SAMPLE TEMP. °F 77
ATMOS. TEMP. °F 95

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

REMARKS: H2S < 4 PPM

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.544	
Carbon Dioxide (CO2)	0.193	
Methane (C1)	92.203	
Ethane (C2)	4.300	1.147
Propane (C3)	1.545	0.425
I-Butane (IC4)	0.201	0.066
N-Butane (NC4)	0.415	0.131
I-Pentane (IC5)	0.103	0.038
N-Pentane (NC5)	0.125	0.045
Hexane Plus (C6+)	0.371	0.161
	100.000	2.013

BTU/CU.FT. - DRY 1093
AT 14.650 DRY 1090
AT 14.650 WET 1071
AT 14.73 DRY 1096
AT 14.73 WET 1077

MOLECULAR WT. 17.8667

SPECIFIC GRAVITY -
CALCULATED 0.616
MEASURED

BEFORE THE
OIL CONSERVATION DIVISION
Case # 13492&13493 Exhibit No. 43
Submitted By:
Chesapeake Inc.
Hearing Date: August 22, 2005
RECEIVED THE