

**Laboratory Services, Inc.**

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Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Santa Fe Energy
P. O. Box 2327
Carlsbad, New Mexico 88220

SAMPLE:
IDENTIFICATION: Gaucho 21 Fed. #1
COMPANY: Santa Fe Energy
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 12/22/98 11:30 AM
ANALYSIS DATE: 12/23/98
PRESSURE - PSIG 822
SAMPLE TEMP. °F 65
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Ray Ables-Pro Well
ANALYSIS BY: Vickie Walker

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.455	
Carbon Dioxide (CO2)	0.349	
Methane (C1)	95.704	
Ethane (C2)	2.224	0.593
Propane (C3)	0.548	0.151
i-Butane (iC4)	0.089	0.029
n-Butane (nC4)	0.137	0.043
i-Pentane (iC5)	0.045	0.016
n-Pentane (nC5)	0.020	0.011
Hexane Plus (C6+)	0.419	0.172

100.000

1.015

BTU/CU.FT. - DRY 1050
AT 14.650 DRY 1047
AT 14.650 WET 1029
AT 14.73 DRY 1052
AT 14.73 WET 1034

MOLECULAR WT. 17.0891

SPECIFIC GRAVITY -
CALCULATED 0.590
MEASURED