

**ARMSTRONG GAS LABS, INC.**

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GAS ANALYSIS REPORT

Analysis No.: 000124.bpr

Customer: Well Testing

<u>Component</u>	<u>Mol. %</u>	<u>BTU</u>	<u>SG</u>	<u>GPM</u>
Nitrogen	0.2815	0.000	0.003	
Methane	90.8388	919.594	0.503	
CO2	0.4903	0.000	0.007	
Ethane	5.6026	99.373	0.058	1.498
H2S	0.0000	0.000	0.000	
Propane	1.5933	40.182	0.024	0.439
Iso-Butane	0.2362	7.699	0.005	0.077
Butane	0.3895	12.736	0.008	0.123
Iso-Pentane	0.1528	6.128	0.004	0.056
Pentane	0.1349	5.421	0.003	0.049
Hexanes C6+	0.2801	14.400	0.009	0.122
Hydrogen	N/A			
Helium	N/A			
Oxygen	N/A			
CO	N/A			
Ideal Totals	100.0000	1105.532	0.624	2.364

Producer: Arco
Well / Sta. Name: B&C Federal 25 #1
Sta. No.:
Formation: Morrow
Field:
County:

Spot / Accum.: Spot
Date / Time On:
Date / Time Off: 01/19/00 02:30 PM
Date to Lab: 01/21/00
Date Analyzed: 01/21/00
Effective Date:

Sample Press. (PSIG): 270
Line Press. (PSIG): 270
Sample Temp. (F): 60
Fl. Gas Temp. (F): 60
Amb. Temp. (F):

Del. To:
Sampled By: Well Testing
Cylinder No.:

Field H2S (PPM): 0.0
Field H2S (Grains): 0.0

Pressure Base: 14.73
Temp. Base: 60

Z Factor (Dry): 0.99742

Dry BTU (Real): 1108.40
Sat. BTU (Real): 1090.36
H2O (# / mmcf): N/L
As Del. BTU (Real):

Sp. Gravity (Real): 0.6259
Field Gravity:
Lab Gravitometer: 0.626

GPM (Ethane+): 2.364
GPM (Propane+): 0.866

GPA 2145 / 2172

Remarks:

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copy to Valerie
DB