



**PRECISION SERVICE INC.**  
Flow Measurement Engineers  
Analysis Results Summary  
Casper, WY 82601

Run No. 419-1  
Date Run 04/19/88  
Date Sampled 04/18/88

Analysis For: BENNETT & CATHEY WRLN.

Lease: W.B.R. FEDERAL #1 Producer POGO PROD.  
Location \_\_\_\_\_ County LEA State NEW MEXICO  
Purpose WELL TEST Sampled By B & C WRLN.  
Sampling Temp. 60 °F Atmos Temp. \_\_\_\_\_ °F  
Volume/day \_\_\_\_\_ Formation MORROW  
Pressure on Bomb 220 PSIG; Line Pressure 232.2 PSIA PSIG

Gas Component

Analysis

Press. Base: 14.73

Mol. % Liq. % GPM  
Per MCF

|                                   |                |  |               |
|-----------------------------------|----------------|--|---------------|
| Carbon Dioxide CO <sub>2</sub>    | <u>1.138</u>   |  |               |
| Oxygen O <sub>2</sub>             |                |  |               |
| Nitrogen N <sub>2</sub>           | <u>.272</u>    |  |               |
| Hydrogen Sulfide H <sub>2</sub> S |                |  |               |
|                                   |                |  |               |
| Methane C <sub>1</sub>            | <u>86.513</u>  |  | <u>14.664</u> |
| Ethane C <sub>2</sub>             | <u>6.709</u>   |  | <u>1.794</u>  |
| Propane C <sub>3</sub>            | <u>2.858</u>   |  | <u>.788</u>   |
| Iso-Butane IC <sub>4</sub>        | <u>.540</u>    |  | <u>.177</u>   |
| Nor-Butane NC <sub>4</sub>        | <u>.885</u>    |  | <u>.279</u>   |
|                                   |                |  |               |
| Iso-Pentane IC <sub>5</sub>       | <u>.326</u>    |  | <u>.119</u>   |
| Nor-Pentane NC <sub>5</sub>       | <u>.317</u>    |  | <u>.115</u>   |
| Hexanes plus                      | <u>.442</u>    |  | <u>.204</u>   |
| Hexanes C <sub>6</sub>            |                |  |               |
| Heptanes                          |                |  |               |
| Heptanes Plus C <sub>7</sub> +    |                |  |               |
|                                   |                |  |               |
| Total                             | <u>100.000</u> |  | <u>18.139</u> |
|                                   |                |  |               |
| Pentane + G.P.M.                  |                |  | <u>.438</u>   |
| Propane + GPM                     |                |  | <u>1.681</u>  |
| 26-lb Gasoline                    |                |  | <u>.666</u>   |

BTU Dry 1167  
BTU Wet 1147  
Calc. Specific Gravity .674

@ Std. Press. 14.696

BTU Dry 1164  
BTU Wet 1144

Calc. Vap. Press. #/Sq. In. \_\_\_\_\_  
Reid Vap. Press. #/Sq. In. \_\_\_\_\_

Z Factor .9971  
N Value 1.2890  
Ave Mol Wt 19.4690  
Ave Cu Ft/Gal \_\_\_\_\_

Run by JEFFREY A. PROPP

Calculated By JEFFREY A. PROPP

Ethane + GPM 3.476

Remarks:

Distribution: