

|                               |     |            |                     |             |                       |    |
|-------------------------------|-----|------------|---------------------|-------------|-----------------------|----|
| <b>TYPE ANALYSIS</b>          | Pod | Mass Spec. | Chromatograph       | Other       | Analysis No.<br>46386 |    |
| Sample From<br>Earl Guitar #1 |     |            |                     |             |                       |    |
| Owner<br>Maddox Energy        |     |            |                     | State<br>NM | County<br>Eddy        |    |
| Location or Field<br>Wildcat  |     |            | Formation<br>Morrow | Depth       | From                  | To |

|                         |                      |              |              |
|-------------------------|----------------------|--------------|--------------|
| Date Secured<br>3-18-81 | Secured by<br>Jacobs | Department   |              |
| Date Run<br>3-19-81     | Run by<br>Posey      | Checked by   |              |
| Source Press.           | Bomb Press.          | Source Temp. | Atmos. Temp. |

|                                                       |              |                                     |                                     |        |            |
|-------------------------------------------------------|--------------|-------------------------------------|-------------------------------------|--------|------------|
| <b>BTU @ 14.696</b>                                   | Actual       | Calculated, Dry                     | <b>SP. GR. @ 14.696 &amp; 60° F</b> | Actual | Calculated |
|                                                       |              | 1005.66                             |                                     |        | .572       |
| Hydrogen Sulphide<br>as grs. H <sub>2</sub> S/100 SCF |              | Mercaptan<br>as grs. Sulfur/100 SCF |                                     | Total  | Sweet      |
| 0                                                     |              | 0                                   |                                     | 0      |            |
| <b>VAPOR PRESS. @ 100° F</b>                          | Actual, Reid | Calculated                          |                                     |        |            |

| COMPONENT         |                  | MOLE % | GPM  | LIQ. VOL. % |
|-------------------|------------------|--------|------|-------------|
| Helium            | HE <sub>2</sub>  |        |      |             |
| Hydrogen Sulphide | H <sub>2</sub> S |        |      |             |
| Carbon Dioxide    | CO <sub>2</sub>  | .80    |      |             |
| Nitrogen          | N <sub>2</sub>   | .94    |      |             |
| Methane           | C <sub>1</sub>   | 97.17  |      |             |
| Ethane            | C <sub>2</sub>   | .85    |      |             |
| Propane           | C <sub>3</sub>   | .10    | .028 |             |
| Iso Butane        | IC <sub>4</sub>  | .10    | .033 |             |
| Normal Butane     | C <sub>4</sub>   | .02    | .006 |             |
| Iso Pentane       | IC <sub>5</sub>  | .01    | .004 |             |
| Normal Pentane    | C <sub>5</sub>   | .01    | .004 |             |
| Hexane            | C <sub>6</sub>   |        |      |             |
| Heptane           | C <sub>7</sub>   |        |      |             |
|                   |                  | 100.00 | .075 |             |

DISTRIBUTION

|     |                         |
|-----|-------------------------|
| HHH | CLW                     |
| REJ | HOW                     |
| SS  | RTW                     |
| JWC | Res. Engr. Test Section |
| LB  | ES                      |
| AJD | File                    |

| ENGLER |           |
|--------|-----------|
| IBP    | % @ 96    |
| 5      | % @ 140   |
| 10     | % @ 275   |
| 20     | End Point |
| 30     | Recovery  |
| 40     | Residue   |
| 50     | Loss      |
| 60     |           |
| 70     |           |
| 80     |           |
| 90     |           |

REMARKS

Sec. 23, Tsp 24S, Rge 28E