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NEW-TEX  
LAB

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HOBBS, NEW MEXICO 88240

# ANALYSIS CERTIFICATE

CLIENT: JOHN WEST ENGINEERING  
ADDRESS: 412 N DAL PASO  
CITY, STATE: HOBBS NM 88240

ANALYSIS NUMBER: 8174  
DATE OF RUN: 8 31 82  
DATE SECURED: 8 31 82

SAMPLE IDENT: CITIES SERVICE OIL CO. - GOVERNMENT "AO" NO. 1  
SAMPLING PRESS: SAMPLING TEMP:

## \*\*\*\*\* GAS ANALYSIS \*\*\*\*\*

|                | MOLE<br>PERCENT | GAL/<br>MCF |
|----------------|-----------------|-------------|
| NITROGEN       | 0.464           |             |
| CARBON DIOXIDE | 1.455           |             |
| METHANE        | 90.980          |             |
| ETHANE         | 4.800           | 1.280       |
| PROPANE        | 1.481           | 0.427       |
| ISO-BUTANE     | 0.207           | 0.068       |
| NORMAL BUTANE  | 0.306           | 0.094       |
| ISO-PENTANE    | 0.101           | 0.037       |
| NORMAL PENTANE | 0.071           | 0.026       |
| HEXANES        | 0.046           | 0.019       |
| HEPTANES PLUS  | 0.089           | 0.041       |
| TOTAL          | 100.000         | 1.974       |

PROPANE GPM: 0.41 BUTANES GPM: 0.16  
ETHANE GPM: 1.28 PENTANES PLUS GPM: 0.12

SPECIFIC GRAV (CALC): 0.6217  
MOLE WEIGHT: 18.01

| HHV-BTU/CU FT | PRESSURE (PSIA) | WET  | DRY  |
|---------------|-----------------|------|------|
| 14.696        |                 | 1053 | 1072 |
| 14.650        |                 | 1050 | 1069 |
| 14.730        |                 | 1056 | 1074 |
| 14.735        |                 | 1056 | 1075 |

DEANE SIMPSON

ANALYZED BY:

APPROVED BY

