

Bell PETROLEUM LABORATORIES

P. O. BOX 2988

Midland, Texas 79702

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OIL ANALYSIS REPORT

TO SANTA FE ENERGY
500 W. ILLINOIS 5TH FLOOR
MIDLAND, TEXAS 79702

DATE NOVEMBER 6, 1990
DATE REC'D. NOVEMBER 2, 1990
SAMPLE NO. 20053
COMPANY NO. _____

Sample Designation ASTM DISTILLATION, API GRAVITY, TOTAL SULFUR, BS&W
Source BILBREY 27 FEDERAL #1 @ TEST SEPARATOR SAMPLED BY SCHLUMBERGER TESTING

RESULTS OF ANALYSIS

ASTM - Distillation
Barometric Pressure, mm Hg: 689.5
Temperature, °F: 146
Initial Boiling Point: 146
Vol. % Recovered

5	190
10	221
20	249
30	271
40	308
50	354
60	406
70	465
80	531
90	623
95.5	689

% Residue 3.5
% Loss 1.0
% Total Recovery: 100.0

Fractions Vol. % 4.5

Gasoline	59.0
Naphtha	10.2
Kerosene	9.8
Fuel Oil	16.5
Total	100.0

°API Gravity @ 60° F: 48.9

Viscosity @ ____ ° F: ____ cp ____ cs ____ S.U.S.
Viscosity @ ____ ° F: ____ cp ____ cs ____ S.U.S.

Total Sulfur (Lamp) Weight %: 0.02
(Bomb) Weight %: _____

Reid Vapor Pressure, Lbs: _____

Flash Point _____ °F:

Fire Point _____ °F:

Pour Point _____ °F

Basic Sediments and Water, %: <0.1

Neutralization Number, mgKOH/gm: _____

Remarks:

Copies To: _____

George Cook

ANALYSIS BY: