



LABORATORY SERVICES

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: 505-397-3713

FOR: Arco Oil & Gas Company
Attention: Doug Conklin
P. O. Box 129
Artesia, New Mexico 88210

SAMPLE IDENTIFICATION: Patton "B" Fed. #
COMPANY: Arco Oil & Gas Co.
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 1/09/89
ANALYSIS DATE: 1/09/89
PRESSURE — PSIG: 600
TEMPERATURE — °F: 96
Atmos. Temp. 65

GAS (X) LIQUID ()
SAMPLED BY: Doug Conklin
ANALYSIS BY: Rolland Perry

REMARKS: 1.7 MCFD

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM	LIQ. VOL. PERCENT
Hydrogen Sulfide	(H2S)	-0-		
Nitrogen	(N2)	0.39		
Carbon Dioxide	(CO2)	0.50		
Methane	(C1)	86.01		
Ethane	(C2)	7.98	2.036	
Propane	(C3)	3.14	0.865	
I-Butane	(IC4)	0.37	0.121	
N-Butane	(NC4)	0.86	0.271	
I-Pentane	(IC5)	0.23	0.084	
N-Pentane	(NC5)	0.29	0.105	
Hexane	(C6)	0.08	0.037	
Heptanes Plus	(C7+)	0.15	0.084	
		100.00	3.603	

BTU/CU. FT. — DRY 1165
AT 14.650 WET 1145

SPECIFIC GRAVITY — CALCULATED 0.663 0.6636
MEASURED 0.666

VAPOR PRESSURE (ABSOLUTE) — CALCULATED

26# GASOLINE — 0.405

CU. FT./GAL. —

$$T_c = 379.29^{\circ}R$$

$$P_c = 667.67 \text{ psi}$$

$$CWA = 0.99^{\circ}F$$

$$T_c^* = 378.30^{\circ}R$$

$$P_c^* = 665.92 \text{ psi}$$

$$\begin{aligned} NHV &= 1051.17 \text{ BTU/SCF} \\ GHVD &= 1161.62 \text{ BTU/SCF} \\ GHVW &= 1141.40 \text{ BTU/SCF} \end{aligned}$$