



PRECISION SERVICE INC.

Flow Measurement Engineers

Analysis Results Summary

Casper, WY 82601

Run No. 215-3
Date Run 02/15/87
Date Sampled 02/11/87

Analysis For: ARCO OIL & GAS COMPANY

Lease: <u>FEDERAL 11 #1</u>	Producer <u>ARCO OIL & GAS</u>
Location <u>STA# 58-805-01</u>	County <u>EDDY</u> State <u>NEW MEXICO</u>
Purpose <u>FOUR POINT</u>	Sampled By <u>D. CONKLIN</u>
Sampling Temp. <u>70</u> °F	Atmos Temp. <u>75</u> °F
Volume/day <u>1600 MCF</u>	Formation <u>MORROW</u>
Pressure on Bomb <u>551</u>	PSIG; Line Pressure <u>564.2</u> PSIA PSIG

Gas Component

Analysis

Press. Base: 14.65

Mol. % Liq. % GPM
Per MCF

Carbon Dioxide CO ₂	<u>.543</u>		
Oxygen O ₂			
Nitrogen N ₂	<u>.545</u>		
Hydrogen Sulfide H ₂ S			
Methane C ₁	<u>87.089</u>		
Ethane C ₂	<u>7.668</u>		<u>2.040</u>
Propane C ₃	<u>2.648</u>		<u>.726</u>
Iso-Butane IC ₄	<u>.324</u>		<u>.105</u>
Nor-Butane NC ₄	<u>.585</u>		<u>.184</u>
Iso-Pentane IC ₅	<u>.173</u>		<u>.063</u>
Nor-Pentane NC ₅	<u>.146</u>		<u>.053</u>
Hexanes plus	<u>.278</u>		<u>.128</u>
Hexanes C ₆			
Heptanes			
Heptanes Plus C ₇ +			
Total	<u>100.000</u>		<u>3.298</u>
Pentane + G.P.M.			<u>.243</u>
Propane + GPM			<u>1.258</u>
26-lb Gasoline			<u>.375</u>

BTU Dry 1139
BTU Wet 1119
Calc. Specific Gravity .653

@ Std. Press. 14.696

BTU Dry 1143
BTU Wet 1123

Calc. Vap. Press. #/Sq.In.

Reid Vap. Press. #/Sq.In.

Z Factor .9973
N Value 1.2909
Ave Mol Wt 18.8746
Ave Cu Ft/Gal

Run by JEFFREY A. PROPP

Calculated By JEFFREY A. PROPP

Remarks: FIELD GRAVITY 0.654

Distribution: