GAS QUALITY TEST REPORT

COMPANY SELLER Pogo Oil Co. | STA. NO. —
FIELD OR LOCATION 27-20S-27E | CONTRACT NO. —
SOURCE OR RESERVOIR Morrow | TEST DATE 5-28-74
WELL OR STATION NAME Allied Com #1 | LAB 4

COMPOUND COMPONENTS	COMPONENT SPECIFIC GRAVITY	COMPONENT MOLE FRACTION
NITROGEN	.9672	.0094
CARBON DIOXIDE	1.5195	.0188
HELIUM	.1382	.0001
OXYGEN	1.1048	—
HYDROGEN SULFIDE	1.1766	—
WATER VAPOR	.6220	—
HYDROCARBON DILUENTS		(.0283)
METHANE	.5539	.8952
ETHANE	1.0382	.0491
PROPANE	1.5225	.0171
ISO-BUTANE	2.0068	.0026
N-BUTANE	2.0068	.0038
ISO-PENTANE	2.4910	.0015
N-PENTANE	2.4910	.0009
HEXANES	2.9753	.0010
HEPTANES +	3.7018	.0005
COMPOSITION		1.0000

LIQUEFIABLE HYDROCARBONS	COMPONENT G.P.M.	MOLE FRACTION	G.P.M. CONTENT
PROPANE	27.514	.	
ISO-BUTANE	32.698	.	
N-BUTANE	31.510	.	
LPG			
ISO-PENTANE	36.582	.	
N-PENTANE	36.213	.	
HEXANES	41.111	.	
HEPTANES +	46.126	.	
NATURAL GASOLINE			
TOTAL LIQUEFIABLE GPM			

WATER VAPOR CONTENT:

Gas Mixture Static Pressure PSI _____
Hydrocarbon Dew Point °F _____
Water Vapor Dew Point °F _____
Lbs Water Vapor per MMCF _____
Conversion Constant X 0.000021
Water Vapor Mole Fraction _____

Moisture recorder reading _____
Make or type _____

MIXTURE SPECIFIC GRAVITY:

Calculated From Analysis .634
Determined by Test Instrument .637
Instrument Make or Type Ronnrex

MIXTURE HEATING VALUE:
(Btu/cf at 14.73 Psia, 60° F, Sat.)

Calculated From Analysis .1058
Determined by Calorimeter _____
Calorimeter Verified (_____)

SULFUR CONTENT:

H_2S – Hydrogen Sulfide, Gr./100 cf .01
RSH – Mercaptans " .05
RSR – Sulfides " .04
RSSR – Residuals " .08
Total Sulfur, Gr./100 cf .18
H_2S Grains to fraction conversion X 0.0000159
H_2S Mole Fraction _____

Critical Pressure 678 Critical Temperature 367

REMARKS 4 Point Well Test Analysis

MEASUREMENT AREA Roswell
GAS ANALYIST Alston

TW-232-A (Rev. 2-74)