



424 Greenwood • Wichita, Kansas 67211 • (316) 269-4200

EXTENDED NATURAL GAS ANALYSIS

COMPANY NAME: CHARTER PRODUCTION COMPANY LAB# 9214111
 SAMPLE ID: KU ENDOWMENT A-1
 SETT #: DST #6--TD 5083-5112--MORROW FORMATION
 COUNTY: MORTON LEGAL LOCATION: 12-31S-43W
 DATE SAMPLED: OCTOBER 11 1992 SAMPLER: TRILOBITE
 SAMPLE PRESSURE: N/A TEMPERATURE (F): N/A
 DATE ANALYZED: OCTOBER 14 1992
 QUALITY CONTROL DATE: OCTOBER 14 1992

*****ANALYSIS*****CALCULATED AT 14.65 PSIA. AT 60 F**NORMALIZED*****

HYDROCARBONS	MOLAL%	LIQUID VOLUME%	BTU AMOUNT	GPM
METHANE	60.92	58.98	613.37	0
ETHANE	4.57	6.99	80.62	0
PROPANE	4.22	6.64	105.85	1.16
ISQ-BUTANE	.88	1.65	28.53	.29
NORMAL-BUTANE	1.79	3.23	58.21	.56
ISQ-PENTANE	.57	1.19	22.73	.21
NORMAL-PENTANE	.65	1.35	25.98	.23
3-METHYLPENTANE	*			
2,3-DIMETHYLBUTANE	*			
2-METHYLPENTANE	*			
CYCLOPENTANE	*			
NORMAL HEXANE	*			
HEXANES+	2.05	4.85	103.52	.88
NITROGEN	21.14	13.3	0	0
OXYGEN	.12	.06	0	0
CARBON DIOXIDE	.33	.32	0	0
HELIUM	2.48	1.44	0	0
HYDROGEN	.28		.91	
TOTALS*****	100	100	1039.72	3.33

BTU/FT³ DRY (IDEAL GROSS): 1039.72
 BTU/FT³ SATURATED (IDEAL GROSS): 1022.4
 IDEAL SPECIFIC GRAVITY: .8126
 COMPRESSIBILITY: .9971
 GPM: 3.33
 *=COMBINED WITH HEXANES+

RESPECTFULLY SUBMITTED

PRIORITY ANALYTICAL LAB