



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

EXTENDED NATURAL GAS ANALYSIS

COMPANY NAME: BRIDGES OIL INC LAB# 9315487
 SAMPLE ID: 1 12 BRADY'S JOHNSON DOL 2 MISSISSIPPI FORMATION
 SELL #: N/A
 COUNTY: KENDO LEGAL LOCATION: 13-25-9
 DATE SAMPLED: N/A 0 SAMPLER: TRILLOBITE
 SAMPLE PRESSURE: N/A TEMPERATURE (F): N/A
 DATE ANALYZED: MARCH 29 1993
 QUALITY CONTROL DATE: MARCH 29 1993

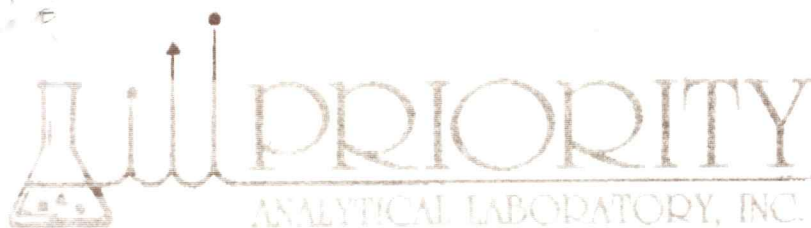
*****GALYSIS*****COLLECTED AT 14.25 PSIA, AT 20 F**NORMALIZED*****

HYDROCARBONS	MOLAL%	LIQUID VOLUME%	BTU AMOUNT	GPM
METHANE	76.56	73.42	770.84	0
ETHANE	6.38	9.66	112.55	0
PROPANE	3.09	4.82	77.5	.85
ISO-BUTANE	.39	.72	12.64	.13
NORMAL-BUTANE	.98	1.75	31.87	.31
ISO-PENTANE	.24	.5	9.57	.09
NORMAL-PENTANE	.3	.62	11.99	.11
3-METHYLPENTANE	*			
2,3-DIMETHYLBUTANE	*			
2-METHYLPENTANE	*			
CYCLOPENTANE	*			
NORMAL HEXANE	*			
HEXANES+	.57	1.33	28.78	.25
NITROGEN	10.35	6.45	0	0
OXYGEN	0	0	0	0
CARBON DIOXIDE	.2	.19	0	0
HELIUM	.94	.54	0	
HYDROGEN	(TRACE <.01)			
TOTALS*****	100	100	1055.74	1.74

BTU/FT³ DRY (IDEAL GROSS): 1055.74
 BTU/FT³ SATURATED (IDEAL GROSS): 1039.14
 IDEAL SPECIFIC GRAVITY: .7008
 COMPRESSIBILITY: .7973
 GPM: 1.74
 *COMBINED WITH HEXANES+

RESPECTFULLY SUBMITTED

PRIORITY ANALYTICAL LAB



424 S. W. 4th Ave. - Wichita, Kansas 67211 - (316) 269-4200

EXTENDED NATURAL GAS ANALYSIS

COMPANY NAME: NATURAL GAS, INC. LAB# 7015400
 SAMPLE ID: 13 DRUMS JOHNSON BUT 1 MISSISSIPPI FORMATION
 SHIT #: N/A
 COUNTY: KAN. LEGAL LOCATION: 13-25-9
 DATE SAMPLED: MARCH 24 1993 SAMPLER: TRILLUBITE
 SAMPLE PRESSURE: N/A TEMPERATURE (F): N/A
 DATE ANALYSIS: MARCH 29 1993
 QUALITY CONTROL DATE: MARCH 29 1993

*****NORMAL GAS***** CALCULATED AT 14.65 PSIA. AT 60 F*****NORMALIZED*****

HYDROCARBONS	MOLAL%	LIQUID VOLUME%	BTU AMOUNT	GPM
METHANE	76.23	72.76	767.51	0
ETHANE	6.50	9.87	115.55	0
PROPANE	3.2	4.96	80.26	.88
ISO-BUTANE	.4	.74	12.97	.13
NORMAL-BUTANE	1	1.78	32.52	.31
ISO-PENTANE	.22	.45	8.77	.08
NORMAL-PENTANE	.29	.59	11.59	.1
3-METHYLPENTANE	*			
2,3-DIMETHYLBUTANE	*			
2-METHYLPENTANE	*			
CYCLOPENTANE	*			
NORMAL HEXANE	*			
HEXANES+	.8	1.86	40.4	.35
NITROGEN	10.35	6.4	0	0
OXYGEN	0	0	0	0
CARBON DIOXIDE	.07	.07	0	0
HELIUM	.91	.52	0	
HYDROGEN	TRADE (1.01)			
TOTALS*****	100	100	1069.57	1.85

BTU/FT³ DRY (IDEAL GROSS): 1069.57BTU/FT³ SATURATED (IDEAL GROSS): 1051.73

IDEAL SPECIFIC GRAVITY: .7074

COMPRESSIBILITY: .9973

GPM: 1.85

*=COMBINED WITH HEXANES+

RESPECTFULLY SUBMITTED

PRIORITY ANALYTICAL LAB