

CITIES SERVICE OIL COMPANY
NATURAL GAS LIQUIDS GROUP

*****GAS SAMPLE---6228*****

CLINTON OIL COMPANY (EFFECTIVE 11-27-73)
TJADEN "A" (STATION #66116) (DIFF. = 4.5")
DATE TAKEN OCTOBER 16, 1973
DATE ANALYZED OCTOBER 26, 1973
SAMPLE TEMPERATURE WHEN TAKEN, DEG. F 63
SAMPLE PRESSURE WHEN TAKEN, PSIG 14
SAMPLE TEMPERATURE WHEN ANALYZED, DEG. F 100
SAMPLE PRESSURE WHEN ANALYZED, PSIG 15.5

COMPONENT	MOL PCT	GPM (60 F, 14.650 PSIA)
NITROGEN	3.69	0.403
CARB-DIOXIDE	0.	0.
METHANE	72.17	12.162
ETHANE	11.87	3.155
PROPANE	7.14	1.953
ISO-BUTANE	0.95	0.308
N-BUTANE	2.43	0.762
ISO-PENTANE	0.51	0.186
N-PENTANE	0.65	0.234
HEXANES +	0.59	0.253
TOTALS	100.00	3.696 (C3+ ONLY) 6.851 (C2+ ONLY)

TOTAL BTU/CU.FT.	1300.6422 (GROSS, DRY, 60 F, 14.650 PSIA)
TOTAL BTU/CU.FT.	1277.8810 (GROSS, WET, 60 F, 14.650 PSIA)
AVERAGE MOLECULAR WEIGHT	22.6716
SPECIFIC GRAVITY	0.7828
N VALUE	1.2737
26/70 GASOLINE GPM	1.0125

CITIES SERVICE OIL AND GAS CORP.

NATURAL GAS LIQUIDS DIVISION

***** GAS SAMPLE---6696 *****

CENTRAL LAB

TULSA, OKLA

STATION# A15661160 TYPE A RUN 2
 EFFECTIVE DATE, 5/27/85
 ENERGY RESERVES GROUP (ACT) (CORRECTED COPY)
 TJADEN "A" (VOLUME - 140 MCFD)
 DATE TAKEN APRIL 17, 1985
 DATE ANALYZED MAY 02, 1985
 SAMPLE TEMPERATURE WHEN TAKEN, DEG. F 80
 SAMPLE PRESSURE WHEN TAKEN, PSIG 14.5
 SAMPLE TEMPERATURE WHEN ANALYZED, DEG. F 120
 SAMPLE PRESSURE WHEN ANALYZED, PSIG 11
 FIELD DETERMINED GRAVITY NONE

 ENTREX 206 ADVICES
 MM CODE (1) PB CODE (3) TYPE (I) (4)
 STATION # (5 - 7)
 TYPE (A) (4) EFFECTIVE / /8 (10)
 EXPIRES / /8 (11) PERIOD OF DAYS (12)
 ANAL RETENT. (13) VAP LIQ CODE (14)
 SPEC GRAV (35) ADV DATE / /8 (38)

COMPONENT MOL PCT GPM (60 F,14.650 PSIA)

9) NITROGEN	2.31	.251
10) CARB-DIOXID	.22	.038
11) H-SULFIDE	.00	.000
12) METHANE	64.61	10.891
13) ETHANE	16.10	4.283
14) PROPANE	9.92	2.720
15) ISO-BUTANE	1.27	.413
16) N-BUTANE	3.14	.984
17) ISO-PENTANE	.58	.210
18) N-PENTANE	.74	.267
19) HEXANES+	1.11	.477

Z FACTOR(60 F, 14.696 PSIA) * .994969
 * CALCULATED USING GPA 2172
 AVERAGE MOLECULAR WEIGHT 24.8658
 35) SPECIFIC GRAVITY, REAL * .8625
 N VALUE 1.2583
 26/70 GASOLINE GPM 1.4794

TOTALS 100.00 5.071 (C3+ ONLY) .954 (IC5+ ONLY)
 9.354 (C2+ ONLY)
 TOTAL BTU/CU.FT. * 1442.8340 (GROSS, REAL DRY,60 F,14.650 PSIA)
 TOTAL BTU/CU.FT. * 1435.5760 (GROSS, IDEAL DRY,60 F,14.650 PSIA)
 TOTAL BTU/CU.FT. * 1417.5850 (GROSS, REAL WET,60 F,14.650 PSIA)
 OTAL BTU/CU.FT. * 1410.4530 (GROSS, IDEAL WET,60 F,14.650 PSIA)

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