

MOBILE ANALYTICAL LABS, INC.

P.O. BOX 69210
ODESSA, TEXAS 79769

GAS EXTENDED ANALYSIS

10/12/12

LAB # 13310

PILOT ENERGY SOLUTIONS, LLC
PILOT GOLDSMITH
INLET GAS BEFORE GLYCOL

	MOL %	GPM
HYDROGEN SULFIDE	1.0017	0.000
NITROGEN	1.8383	0.000
METHANE	2.6251	0.000
CARBON DIOXIDE	91.6561	0.000
ETHANE	0.7829	0.209
PROPANE	0.6937	0.191
ISO-BUTANE	0.1278	0.042
N-BUTANE	0.3587	0.113
ISO-PENTANE	0.1576	0.058
N-PENTANE	0.1328	0.048
NEOHEXANE	0.0016	0.001
CYCLOPENTANE	0.0252	0.010
2-METHYLPENTANE	0.0577	0.024
3-METHYLPENTANE	0.0416	0.017
N-HEXANE	0.0556	0.023
METHYLCYCLOPENTANE	0.0540	0.019
BENZENE	0.0048	0.001
CYCLOHEXANE	0.0336	0.011
2-METHYLHEXANE	0.0145	0.007
3-METHYLHEXANE	0.0283	0.013
DIMETHYLCYCLOPENTANES	0.0459	0.018
N-HEPTANE	0.0338	0.016
METHYLCYCLOHEXANE	0.0409	0.016
TRIMETHYLCYCLOPENTANES	0.0071	0.003
TOLUENE	0.0105	0.004
2-METHYLHEPTANE	0.0267	0.014
3-METHYLHEPTANE	0.0081	0.004
DIMETHYLCYCLOHEXANES	0.0224	0.010
N-OCTANE	0.0173	0.009
ETHYL BENZENE	0.0034	0.001
M&P-XYLENES	0.0099	0.004
O-XYLENE	0.0027	0.001
C9 NAPHTHENES	0.0220	0.012
C9 PARAFFINS	0.0194	0.011
N-NONANE	0.0095	0.005
N-DECANE	0.0037	0.002
UNDECANE PLUS	0.0251	0.017
TOTALS	100.0000	0.934

SPECIFIC GRAVITY 1.502
GROSS DRY BTU/CU.FT. 125.4
GROSS WET BTU/CU.FT. 123.3
TOTAL MOL. WT. 43.273
MOL. WT. C6+ 99.814
SP. GRAVITY C6+ 4.055
MOL. WT. C7+ 111.648
SP. GRAVITY C7+ 4.874

BASIS: 14.65 PSIA @ 60 °F

NOTES
SAMPLED 10/03/12 BY: SR
475 PSIG @ 68 °F
H2S = 10,017 PPM
SPOT
CYLINDER NO. 758
ATMOS. TEMP. 79 °F
ATMOS. PRESS. 13.08 PSIA

DISTRIBUTION
MS. NAOMI BAKER

MOBILE ANALYTICAL LABORATORIES, INC.

P.O. BOX 69210
ODESSA, TEXAS 79769
PHONE (432) 337-4744

45187

GAS ANALYSIS REPORT

COMPANY . . GOLDEN HAMMER
LEASE/PLANT GAS FROM K.M.
OPERATOR . GOLDSMITH
CYLINDER . 358
H2S PPM . . 8000.0

STATION
PRESS. PSIG 530
TEMP. DEG. F 105
SAMPLED / RECEIVED .01/10/18
SAMPLED BY RR

FRACTIONAL ANALYSIS

COMPONENT	MOL %	GPM C2+	GPM C5+
NITROGEN	2.428	0.000	0.000
CARBON DIOXIDE . .	89.966	0.000	0.000
METHANE	3.302	0.000	0.000
ETHANE	1.159	0.310	0.000
PROPANE	0.985	0.271	0.000
ISO-BUTANE	0.144	0.047	0.000
N-BUTANE	0.365	0.115	0.000
ISO-PENTANE	0.142	0.052	0.052
N-PENTANE	0.111	0.040	0.040
HEXANES PLUS . . .	0.598	0.261	0.261
H2S	0.800	0.000	0.000
TOTALS	100.000	1.096	0.353

CALC. SP.GRAVITY 1.489

BTU/CU. FT. (14.650 PSIA, 60 DEG. F)

CALC. GROSS WET 139

CALC. GROSS DRY 142

DISTRIBUTION:

MR. SAUL RAMIREZ

NOTES:

REPORT DATE: 01/11/18

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45188

GAS ANALYSIS REPORT

COMPANY . . GOLDEN HAMMER
LEASE/PLANT GAS TO K.M.
OPERATOR . GOLDSMITH
CYLINDER . 343
H2S PPM . . 7600.0

STATION
PRESS. PSIG 520
TEMP. DEG. F 96
SAMPLED / RECEIVED .01/10/18
SAMPLED BY RR

FRACTIONAL ANALYSIS

COMPONENT	MOL %	GPM C2+	GPM C5+
NITROGEN	3.217	0.000	0.000
CARBON DIOXIDE . .	90.466	0.000	0.000
METHANE	3.396	0.000	0.000
ETHANE	1.163	0.311	0.000
PROPANE	0.903	0.249	0.000
ISO-BUTANE	0.038	0.012	0.000
N-BUTANE	0.039	0.012	0.000
ISO-PENTANE	0.003	0.001	0.001
N-PENTANE	0.004	0.001	0.001
HEXANES PLUS . . .	0.011	0.005	0.005
H2S	0.760	0.000	0.000
TOTALS	100.000	0.591	0.007

CALC. SP.GRAVITY 1.469

BTU/CU. FT. (14.650 PSIA, 60 DEG. F)

CALC. GROSS WET 85

CALC. GROSS DRY 86

DISTRIBUTION:
MR. SAUL RAMIREZ

NOTES:

REPORT DATE: 01/11/18