



EXTENDED NATURAL GAS ANALYSIS (*DHA)

MAIN PAGE

PRIMARY DB KEY:	05-045-13367	NAME/DESCRIP :	N.PARACHUTE WF09D #M14 596
LEASE #:	110165130		BRAIDEN HEAD
FIELD/AREA:	GRAND VALLEY - #31290		
PROJECT NO. :	202405044	ANALYSIS NO. :	02
COMPANY NAME :	CAERUS OIL & GAS LLC	ANALYSIS DATE:	MAY 10, 2024 07:44
OFFICE / BRANCH:	PARACHUTE, CO	SAMPLE DATE :	MAY 2, 2024 15:00
CUSTOMER REF:		TO:	
PRODUCER :	CAERUS PICEANCE LLC	EFFECTIVE DATE:	

*****FIELD DATA*****

SAMPLE CYCLE:		SAMPLE TYPE:	SPOT
SAMPLE PRES. :	30 psig	PROBE :	NO
FLOW PRES. :	psig	CYLINDER NO. :	ECA-763
LAB PRES:	psig	SAMPLED BY :	MIKE KELLEY
SAMPLE TEMP. :	63 °f	SAMPLING COMPANY:	CAERUS OIL & GAS LLC
AMBIENT TEMP.:	°f	H2S BY STAIN TUBE:	- ppm mol
H2O BY STAIN TUBE:	- #/mmcf	CO2 BY STAIN TUBE:	- Mol %
FIELD COMMENTS:			
LAB COMMENTS:			

<u>COMPONENT</u>	<u>MOLE %</u>	<u>MASS %</u>	<u>GPM @ 14.65</u>	<u>GPM @ 14.73</u>
ALCOHOLS	0.0016	0.0029	0.0000	0.0000
HELIUM	0.00	0.00	---	---
HYDROGEN	0.03	0.00	---	---
OXYGEN/ARGON	0.00	0.00	---	---
NITROGEN	0.07	0.11	---	---
CARBON DIOXIDE	0.02	0.05	---	---
METHANE	94.5043	86.1581	---	---
ETHANE	2.4885	4.2523	0.6635	0.6671
PROPANE	1.3893	3.4814	0.3817	0.3838
I-BUTANE	0.2660	0.8786	0.0869	0.0874
N-BUTANE	0.5289	1.7470	0.1659	0.1668
I-PENTANE	0.1903	0.7790	0.0690	0.0693
N-PENTANE	0.1773	0.7270	0.0640	0.0643
HEXANES PLUS	0.3338	1.8137	0.1280	0.1282
TOTALS	100.00000	100.00000	1.5590	1.5669

<u>BTEX COMPONENTS</u>	<u>MOLE%</u>	<u>WT%</u>
BENZENE	0.0093	0.0413
TOLUENE	0.0080	0.0419
ETHYLBENZENE	0.0017	0.0102
XYLENES	0.0046	0.0278
TOTAL BTEX	0.0236	0.1212

	<u>CALCULATED VALUES**</u>	
	<u>14.65</u>	<u>14.73</u>
LHV NET DRY REAL :	983.1 /scf	988.4 /scf
NET WET REAL :	965.9 /scf	971.2 /scf
HHV GROSS DRY REAL :	1089.3 /scf	1095.2 /scf
GROSS WET REAL :	1070.3 /scf	1076.2 /scf
NET HEATING VALUE (60 °F ideal reaction):	21254.7 Btu/lbm	21254.7 Btu/lbm
GROSS HEATING VALUE (60°F ideal reaction):	23540.0 Btu/lbm	23540.0 Btu/lbm
RELATIVE DENSITY (AIR=1):	0.6063	0.6063
DENSITY	0.04637 lbm/scf	0.04637 lbm/scf
COMPRESSIBILITY FACTOR :	0.9976	0.9976
REGULAR WOBBE INDEX	1400.0	1400.0

*(DETAILED HYDROCARBON ANALYSIS/NJ 1993)

Mod ASTM D6730, GPA 2261 & GPA 2286.

** (CALC: GPA 2172, GPA 2145 & TP-17 @14.696 & 60 F)

The data presented herein has been acquired by means of current analytical techniques and represents the judicious conclusion EMPACT Analytical Systems, Inc. Results of the analysis can be affected by the sampling conditions, therefore, are only warranted through proper lab protocol. EMPACT assumes no responsibility for interpretation or any consequences from application of the reported information and is the sole liability of the user. The reproduction in any media of this reported information may not be made, in portion or as a whole, without the written permission of EMPACT Analytical Systems, Inc.



**EXTENDED NATURAL GAS ANALYSIS (*DHA)
GLYCALC INFORMATION**

PROJECT NO. :	202405044	ANALYSIS NO. :	02
COMPANY NAME :	CAERUS OIL & GAS LLC	ANALYSIS DATE:	MAY 10, 2024 07:44
ACCOUNT NO. :		SAMPLE DATE :	MAY 2, 2024 15:00
PRODUCER :	CAERUS PICEANCE LLC	CYLINDER NO. :	ECA-763
LEASE NO. :	110165130	SAMPLED BY :	MIKE KELLEY
NAME/DESCRIP :	N.PARACHUTE WF09D #M14 596 BRAIDEN HEAD		

FIELD DATA		SAMPLE TEMP. :	63
SAMPLE PRES. :	30	AMBIENT TEMP.:	
H2S BY STAIN TUBE:	—		
COMMENTS :	<i>SPOT</i>		<i>NO PROBE</i>

<u>Componet</u>	<u>Mole %</u>	<u>Wt %</u>
Helium	0.00	0.00
Hydrogen	0.03	0.00
Carbon Dioxide	0.02	0.05
Nitrogen	0.07	0.11
Methane	94.5043	86.1581
Ethane	2.4885	4.2523
Propane	1.3893	3.4814
Isobutane	0.2660	0.8786
n-Butane	0.5289	1.7470
Isopentane	0.1803	0.7392
n-Pentane	0.1773	0.7270
Cyclopentane	0.0100	0.0398
n-Hexane	0.0541	0.2649
Cyclohexane	0.0203	0.0971
Other Hexanes	0.1077	0.5247
Heptanes	0.0496	0.2810
Methylcyclohexane	0.0240	0.1339
2,2,4 Trimethylpentane	0.0000	0.0000
Benzene	0.0093	0.0413
Toluene	0.0080	0.0419
Ethylbenzene	0.0017	0.0102
Xylenes	0.0046	0.0278
C8+ Heavies	0.0545	0.3909
<u>Subtotal</u>	<u>99.99840</u>	<u>99.99710</u>
Oxygen/Argon	0.00	0.00
Alcohols	0.0016	0.0029
<u>Total</u>	<u>100.00000</u>	<u>100.00000</u>

	<u>Total</u>	<u>C6+</u>	<u>C8+</u>	<u>C10+</u>
Calculated Values BTU @ <u>14.65</u>	Sample	Fraction	Fraction	Fraction
LHV Net Dry Real:	983.1	4832.7	6200.5	7974.6 Btu/scf
Net Wet Real:	965.9	4748.2	6092.1	7835.2 Btu/scf
HHV Gross Dry Real:	1089.3	5199.8	6669.3	8620.1 Btu/scf
Gross Wet Real:	1070.3	5108.9	6552.7	8469.4 Btu/scf
Other Calculated Values				
Regualr Wobbe Index*	1400.0	2848.2	3223.4	3693.6 Btu/scf
Net Heating Value (60 °F ideal reaction):	21254.7	19276.1	19402.5	19096.2 Btu/lbm
Gross Heating Value (60°F ideal reaction):	23540.0	20737.6	20867.5	20638.1 Btu/lbm
Molar Mass (MW):	17.59757	95.647	124.339	158.654 g/mol
Relative Density (AIR=1):	0.6063	3.3025	4.2934	5.4783 SG
Density:	0.04637	0.25207	0.32765	0.41808 lbm/scf
Compressibility Factor:	0.9976	0.9923	0.9983	0.9998 Z
Liquid Volume real gas @: <u>14.65</u>	17.4991	0.1276	0.0199	0.002 gal/1000 scf

* The Wobbe pressure base in the number considered is based upon the given Pb of the HHV above.
 #DIV/0 or 0 (zero) will appear in the Calculated Value Section when there is no C6+, C8+ or C10+ in the sample to calculate these factors.
 BDL - Below Detection Limit. The H2S LOS has a detection limit of 0.25 ppm. A _ (an underscore) indicates there was no tube pulled for H2S.

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EXTENDED NATURAL GAS ANALYSIS (*DHA)

DHA COMPONENT LIST

PRIMARY DB KEY: 05-045-13367 NAME/DESCRIP : N.PARACHUTE WF09D #M14 596
 LEASE #: 110165130 BRAIDEN HEAD
 FIELD/AREA: GRAND VALLEY - #31290

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 OFFICE / BRANCH: PARACHUTE, CO SAMPLE DATE : MAY 2, 2024 15:00
 CUSTOMER REF: TO:
 PRODUCER : CAERUS PICEANCE LLC EFFECTIVE DATE:

*****FIELD DATA*****

SAMPLE CYCLE: SAMPLE TYPE: SPOT
 SAMPLE PRES. : 30 psig PROBE : NO
 FLOW PRES. : psig CYLINDER NO. : ECA-763
 LAB PRES: psig SAMPLED BY : MIKE KELLEY
 SAMPLE TEMP. : 63 °f SAMPLING COMPANY: CAERUS OIL & GAS LLC
 AMBIENT TEMP.: °f H2S BY STAIN TUBE: — ppm mol
 H2O BY STAIN TUBE: - #/mmcf CO2 BY STAIN TUBE: - Mol %
 FIELD COMMENTS:
 LAB COMMENTS:

COMPONENT	PIANO #	MOLE %	MASS %	GPM @ 14.65	GPM @ 14.73
Helium	---	0.00	0.00	---	---
Hydrogen	---	0.03	0.00	---	---
Oxygen/Argon	---	0.00	0.00	---	---
Nitrogen	---	0.07	0.11	---	---
Carbon Dioxide	---	0.02	0.05	---	---
Methane	P1	94.5043	86.1581	---	---
Ethane	P2	2.4885	4.2523	0.664	0.667
Propane	P3	1.3893	3.4814	0.382	0.384
i-Butane	I4	0.2660	0.8786	0.087	0.087
Methanol	X1	0.0016	0.0029	0.000	0.000
n-Butane	P4	0.5289	1.7470	0.166	0.167
2,2-Dimethylpropane	I5	0.0020	0.0082	0.001	0.001
i-Pentane	I5	0.1783	0.7310	0.065	0.065
n-Pentane	P5	0.1773	0.7270	0.064	0.064
2,2-Dimethylbutane	I6	0.0021	0.0103	0.001	0.001
Cyclopentane	N5	0.0100	0.0398	0.003	0.003
2,3-Dimethylbutane	I6	0.0077	0.0377	0.003	0.003
2-Methylpentane	I6	0.0486	0.2380	0.020	0.020
3-Methylpentane	I6	0.0255	0.1249	0.010	0.010
n-Hexane	P6	0.0541	0.2649	0.022	0.022
2,2-Dimethylpentane	I7	0.0006	0.0034	0.000	0.000
Methylcyclopentane	N6	0.0238	0.1138	0.008	0.008
2,4-Dimethylpentane	I7	0.0018	0.0102	0.001	0.001
2,2,3-Trimethylbutane	I7	0.0002	0.0011	0.000	0.000
Benzene	A6	0.0093	0.0413	0.003	0.003
3,3-Dimethylpentane	I7	0.0003	0.0017	0.000	0.000
Cyclohexane	N6	0.0203	0.0971	0.007	0.007
2-Methylhexane	I7	0.0088	0.0501	0.004	0.004
2,3-Dimethylpentane	I7	0.0028	0.0160	0.001	0.001
1,1-Dimethylcyclopentane	N7	0.0014	0.0078	0.001	0.001

3-Methylhexane	I7	0.0080	0.0456	0.004	0.004
1c,3-Dimethylcyclopentane	N7	0.0029	0.0162	0.001	0.001
1t,3-Dimethylcyclopentane	N7	0.0025	0.0139	0.001	0.001
3-Ethylpentane	I7	0.0003	0.0017	0.000	0.000
1t,2-Dimethylcyclopentane	N7	0.0044	0.0246	0.002	0.002
n-Heptane	P7	0.0141	0.0803	0.006	0.006
1c,2-Dimethylcyclopentane	N7	0.0004	0.0022	0.000	0.000
Methylcyclohexane	N7	0.0240	0.1339	0.010	0.010
2,2-Dimethylhexane	I8	0.0009	0.0059	0.000	0.000
1,1,3-Trimethylcyclopentane	N7	0.0001	0.0006	0.000	0.000
Ethylcyclopentane	N7	0.0010	0.0056	0.000	0.000
2,5-Dimethylhexane	I8	0.0006	0.0039	0.000	0.000
2,2,3-Trimethylpentane	I8	0.0006	0.0039	0.000	0.000
2,4-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
1c,2t,4-Trimethylcyclopentane	N8	0.0008	0.0051	0.000	0.000
3,3-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
Toluene	A7	0.0080	0.0419	0.003	0.003
2,3-Dimethylhexane	I8	0.0007	0.0046	0.000	0.000
2-Methyl-3-ethylpentane	I8	0.0002	0.0013	0.000	0.000
2-Methylheptane	I8	0.0035	0.0227	0.002	0.002
4-Methylheptane	I8	0.0008	0.0052	0.000	0.000
3-Methyl-3-ethylpentane	I8	0.0002	0.0013	0.000	0.000
3,4-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
1c,2c,4-Trimethylcyclopentane	N8	0.0001	0.0006	0.000	0.000
3-Methylheptane	I8	0.0020	0.0130	0.001	0.001
1c,2t,3-Trimethylcyclopentane	N8	0.0033	0.0210	0.002	0.002
3-Ethylhexane	I8	0.0003	0.0019	0.000	0.000
1t,4-Dimethylcyclohexane	N8	0.0014	0.0089	0.001	0.001
1,1-Dimethylcyclohexane	N8	0.0004	0.0026	0.000	0.000
2,2,5-Trimethylhexane	I9	0.0001	0.0007	0.000	0.000
3c-Ethylmethylcyclopentane	N8	0.0003	0.0019	0.000	0.000
3t-Ethylmethylcyclopentane	N8	0.0002	0.0013	0.000	0.000
2t-Ethylmethylcyclopentane	N8	0.0004	0.0026	0.000	0.000
1,1-Methylethylcyclopentane	N8	0.0001	0.0006	0.000	0.000
2,2,4-Trimethylhexane	I9	0.0001	0.0007	0.000	0.000
1t,2-Dimethylcyclohexane	N8	0.0015	0.0096	0.001	0.001
1t,3-Dimethylcyclohexane	N8	0.0001	0.0006	0.000	0.000
n-Octane	P8	0.0056	0.0364	0.003	0.003
1c,4-Dimethylcyclohexane	N8	0.0008	0.0051	0.000	0.000
i-Propylcyclopentane	I8	0.0001	0.0006	0.000	0.000
2,3,5-Trimethylhexane	I9	0.0001	0.0007	0.000	0.000
2,2,3,4-Tetramethylpentane	I9	0.0001	0.0007	0.000	0.000
2,3,4-Trimethylhexane	I9	0.0001	0.0007	0.000	0.000
1c,2-Dimethylcyclohexane	N8	0.0001	0.0006	0.000	0.000
2,2-Dimethylheptane	I9	0.0004	0.0029	0.000	0.000
1,1,4-Trimethylcyclohexane	N9	0.0020	0.0143	0.001	0.001
2,2,3-Trimethylhexane	I9	0.0005	0.0036	0.000	0.000
2,4-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000
Ethylcyclohexane	N8	0.0013	0.0083	0.001	0.001
n-Propylcyclopentane	N8	0.0005	0.0032	0.000	0.000
1c,3c,5-Trimethylcyclohexane	N9	0.0002	0.0014	0.000	0.000
2,5-Dimethylheptane	I9	0.0006	0.0044	0.000	0.000
3,3-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000
3,5-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000
2,6-Dimethylheptane	I9	0.0002	0.0015	0.000	0.000
1,1,3-Trimethylcyclohexane	N9	0.0001	0.0007	0.000	0.000
Ethylbenzene	I8	0.0017	0.0102	0.001	0.001
1,3-Dimethylbenzene (m-Xylene)	A8	0.0030	0.0181	0.001	0.001
1,4-Dimethylbenzene (p-Xylene)	A8	0.0007	0.0042	0.000	0.000
3,4-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000
3,4-Dimethylheptane (2)	I9	0.0003	0.0022	0.000	0.000
4-Ethylheptane	I9	0.0001	0.0007	0.000	0.000
4-Methyloctane	I9	0.0005	0.0036	0.000	0.000

2-Methyloctane	I9	0.0008	0.0059	0.000	0.000
1c,2t,3-Trimethylcyclohexane	N9	0.0001	0.0007	0.000	0.000
3-Ethylheptane	I9	0.0001	0.0007	0.000	0.000
3-Methyloctane	I9	0.0001	0.0007	0.000	0.000
1c,2t,4c-Trimethylcyclohexane	I9	0.0009	0.0065	0.001	0.001
1,1,2-Trimethylcyclohexane	N9	0.0001	0.0007	0.000	0.000
3,3-Diethylpentane	I9	0.0001	0.0007	0.000	0.000
1,2-Dimethylbenzene (o-Xylene)	A8	0.0009	0.0055	0.000	0.000
i-Butylcyclopentane	N9	0.0008	0.0057	0.000	0.000
n-Nonane	P9	0.0034	0.0248	0.002	0.002
1,1-Methylethylcyclohexane	N9	0.0004	0.0028	0.000	0.000
i-Propylbenzene	A9	0.0004	0.0027	0.000	0.000
i-Propylcyclohexane	N9	0.0003	0.0022	0.000	0.000
2,2-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
2,4-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
2,6-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
2,5-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
n-Butylcyclopentane	N9	0.0008	0.0057	0.000	0.000
3,3-Dimethyloctane	I10	0.0002	0.0016	0.000	0.000
n-Propylbenzene	A9	0.0006	0.0041	0.000	0.000
3,6-Dimethyloctane	I10	0.0003	0.0024	0.000	0.000
3-Methyl-5-ethylheptane	I10	0.0003	0.0024	0.000	0.000
1,3-Methylethylbenzene	A9	0.0002	0.0014	0.000	0.000
1,3,5-Trimethylbenzene	A9	0.0003	0.0021	0.000	0.000
2,3-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
5-Methylnonane	I10	0.0002	0.0016	0.000	0.000
2-Methylnonane	I10	0.0003	0.0024	0.000	0.000
3-Ethylheptane	I10	0.0001	0.0008	0.000	0.000
3-Methylnonane	I10	0.0003	0.0024	0.000	0.000
t-Butylbenzene	A10	0.0003	0.0023	0.000	0.000
i-Butylcyclohexane	N10	0.0002	0.0016	0.000	0.000
UnknownC9s	U9	0.0013	0.0095	0.001	0.001
n-Decane	P10	0.0010	0.0081	0.001	0.001
1,2,3-Trimethylbenzene	A9	0.0001	0.0007	0.000	0.000
1,4-Methyl-i-propylbenzene	A10	0.0002	0.0015	0.000	0.000
1,2-Methyl-i-propylbenzene	A10	0.0001	0.0007	0.000	0.000
1,2-Methyl-n-propylbenzene	A10	0.0001	0.0007	0.000	0.000
1,3-Dimethyl-4-ethylbenzene	A10	0.0001	0.0007	0.000	0.000
1,4-Methyl-t-butylbenzene	A11	0.0001	0.0009	0.000	0.000
UnknownC10s	U10	0.0013	0.0105	0.001	0.001
n-Undecane	P11	0.0004	0.0036	0.000	0.000
1,4-Ethyl-i-propylbenzene	A11	0.0001	0.0009	0.000	0.000
1,2-Ethyl-n-propylbenzene	A11	0.0001	0.0009	0.000	0.000
2-Methylindan	A11	0.0001	0.0007	0.000	0.000
1,3-Di-i-propylbenzene	A11	0.0001	0.0009	0.000	0.000
sec-Pentylbenzene	A11	0.0001	0.0009	0.000	0.000
n-Pentylbenzene	A11	0.0002	0.0017	0.000	0.000
Tetrahydronaphthalene	A10	0.0002	0.0015	0.000	0.000
UnknownC11s	U11	0.0004	0.0036	0.000	0.000
n-Dodecane	P12	0.0004	0.0039	0.000	0.000
1,3,5-Triethylbenzene	A12	0.0002	0.0018	0.000	0.000
1,4-Methyl-n-pentylbenzene	A12	0.0001	0.0009	0.000	0.000
n-Hexylbenzene	A12	0.0001	0.0009	0.000	0.000
1,2,3,4,5-Pentamethylbenzene	A13	0.0001	0.0009	0.000	0.000
2-Methylnaphthalene	A11	0.0001	0.0008	0.000	0.000
UnknownC12s	U12	0.0005	0.0044	0.000	0.000
n-Tridecane	P13	0.0002	0.0021	0.000	0.000
UnknownC13s	U13	0.0006	0.0063	0.000	0.000
n-Tetradecane	P14	0.0001	0.0011	0.000	0.000
UnknownC14s	U14	0.0001	0.0011	0.000	0.000
n-Pentadecane	P15	0.0001	0.0012	0.000	0.000
UnknownC15s	U15	0.0001	0.0012	0.000	0.000
n-Hexadecane	P16	0.0001	0.0013	0.000	0.000
UnknownC16s	U16	0.0001	0.0013	0.000	0.000

n-Heptadecane	P17	0.0001	0.0014	0.000	0.000
UnknownC17s	U17	0.0002	0.0027	0.000	0.000
UnknownC19s	U19	0.0003	0.0046	0.000	0.000
TOTAL		100.00000	100.00000	1.5590	1.5669

CALCULATED VALUES**

BTEX COMPONENTS	MOLE%	WT%	BTU @	14.65	14.73
BENZENE	0.0093	0.0413	LHV NET DRY REAL :	983.1 /scf	988.4 /scf
TOLUENE	0.0080	0.0419	NET WET REAL :	965.9 /scf	971.2 /scf
ETHYLBENZENE	0.0017	0.0102	HHV GROSS DRY REAL :	1089.3 /scf	1095.2 /scf
XYLENES	0.0046	0.0278	GROSS WET REAL :	1070.3 /scf	1076.2 /scf
TOTAL BTEX	0.0236	0.1212	NET HEATING VALUE (60 °F ideal reaction):		21254.7 Btu/lbm
			GROSS HEATING VALUE (60°F ideal reaction):		23540.0 Btu/lbm
			RELATIVE DENSITY (AIR=1):		0.6063
			DENSITY		0.04637 lb/scf
			COMPRESSIBILITY FACTOR :		0.9976
			REGULAR WOBBE INDEX		1400.0

*(DETAILED HYDROCARBON ANALYSIS/NJ 1993)

Mod ASTM D6730, GPA 2261 & GPA 2286.

** (CALC: GPA 2172, GPA 2145 & TP-17 @14.696 & 60 F)

C6+ Fraction of DHA Gas Analysis @60°F, 14.696 psia

Net Dry Ideal BTU	4810.5 /scf	Relative Density - SG (Air=1)	3.3025	C6+ factors
Gross Dry Ideal BTU	5175.9 /scf	Z Compressibility Factor	0.99229	0.99138
Net Dry Ideal BTU	19276.1 /lb	Density Factor	252.075 lbm/1000 ft3	
Gross Dry Ideal BTU	20737.6 /lb	Molar Mass or MW	95.647 g/mol	
		Volume Liquid Ideal gas	0.128 scf/gal	23

This hexanes plus fraction may be applied in place of published C6+ factors. The Z & GPM need additional calc for C6+ factors. #DIV/0 or 0 (zero) will appear in this section when there is no hexanes plus in the sample to calculate C6+ factors.

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