MARTIN YATES, III 1912-1985

FRANK W. YATES 1936-1986

> S.P YATES 1914-2008



# 105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

www.yatespetroleum.com

October 22, 2015

Mr. Mike Bratcher/Mrs. Heather Patterson NMOCD District II 811 S. First St. Artesia, NM 88210

Re:

Lost Tank AIS State #3 Battery

30-015-26586

Section 36, T21S-R31E Eddy County, New Mexico

Mr. Bratcher/Mrs. Patterson,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated July 31, 2015.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after November 1, 2015.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

YATES PETROLEUM CORPORATION

Chase Settle **Environmental Regulatory Agent** 

Enclosure(s)

JOHN A. YATES

JOHN A. YATES JR.

CHAIRMAN OF THE BOARD

DOUGLAS E. BROOKS

PRESIDENT CHIEF EXECUTIVE OFFICER JOHN D. PERINI

EXECUTIVE VICE PRESIDENT CHIEF FINANCIAL OFFICER

JAMES S. BROWN CHIEF OPERATING OFFICER

# **Yates Petroleum Corporation**

Lost Tank AIS State #3 Battery Work Plan

Section 36, T21S-R31E

**Eddy County, New Mexico** 

October 22, 2015

2RP-3189

#### I. Location

Take County Road 29 (Campbell Road) south from HWY 62/180 for 10 miles then turn right, location is 2 miles up on the north side of the road.

# II. Background

On July 31, 2015, Yates Petroleum Corporation submitted to the NMOCD District II office a Form C-141 for the release of 5 B/O & 25 B/PW with 5 B/O & 25 B/PW recovered. The total affected area is approximately 50 feet by 50 feet within the berm of the battery. The release was caused when a dump valve failed on a separator. Initial delineation samples were taken in the release area (7/31/2015) and sent to a NMOCD approved laboratory (8/11/2015, results enclosed). Further sampling was conducting in the release area (8/14/2015) and sent to a NMOCD approved laboratory (7/31/2015, results enclosed). Additional sampling occurred of the C release area (8/14/2015) and sent to a NMOCD approved laboratory (8/25/2015, results enclosed).

#### III. Surface and Ground Water

Area surface geology is Cenozoic Quaternary. The ChevronTexaco Trend Map displays at this location (Section 36, T21S-R31E) that depth to groundwater is approximately 110' feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

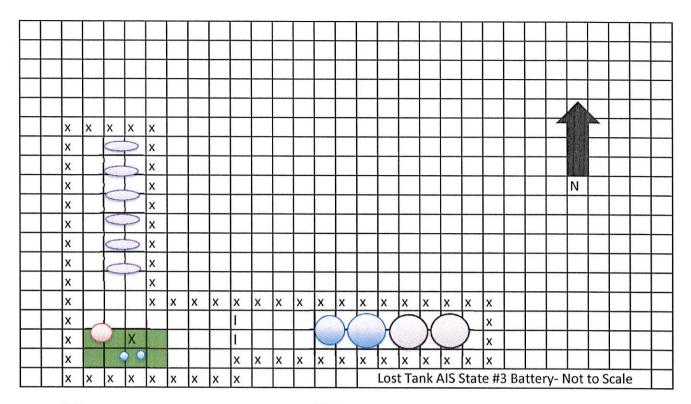
Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

# IV. Soils

The area consists of soils that are sandy top soil with clay seams and caliche found beneath, providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

# V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (110'), and a decrease in chlorides, Yates Petroleum Corporation will excavate four (4) feet in the release area, hauling the excavated soils to a NMOCD approved facility. Yates Petroleum Corporation will then backfill the excavated areas with four (4) feet of caliche. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0), no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141, Final Report, will be submitted to the NMOCD requesting closure of the site.



Release area X Sample Point

Area	Analysis #	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	H502031	Release Area	7/31/2015	Hand Auger	1'	<0.3	<10.0	<10.0	4880
S1-2'	H502031	Release Area	7/31/2015	Hand Auger	2'	<0.3	<10.0	<10.0	240
S1-3'	H502031	Release Area	7/31/2015	Hand Auger	3'	<0.3	<10.0	<10.0	5860
S1-4'	H502031	Release Area	7/31/2015	Hand Auger	4'	<0.3	<10.0	<10.0	11600
S1-5 <sup>'</sup>	H502167	Release Area	8/14/2015	Backhoe	5'	<0.3	<10.0	<10.0	208
S1-6'	H502167	Release Area	8/14/2015	Backhoe	6'	<0.3	<10.0	<10.0	48
S1-7'	H502167	Release Area	8/14/2015	Backhoe	7'	<0.3	<10.0	<10.0	<16.0
S1-8'	H502167	Release Area	8/14/2015	Backhoe	8'	<0.3	<10.0	<10.0	32
S1-9'	H502167	Release Area	8/14/2015	Backhoe	9'	<0.3	<10.0	<10.0	<16.0
S1-10 <sup>'</sup>	H502167	Release Area	8/14/2015	Backhoe	10'	<0.3	<10.0	<10.0	16
S1-11 <sup>'</sup>	H502167	Release Area	8/14/2015	Backhoe	11'	0.549	<10.0	<10.0	144

Site Ranking is Zero (0). >100' (110', Section 36, T21S-R31E, Trend Map All results are ppm. Chlorides for documentation

Released: 5 B/O & 25 B/PW; Recovered: 5 B/O & 25 B/PW Release Date: 07/21/2015



August 11, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: LOST TANK AIS STATE #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/05/15 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/05/2015

Sampling Date:

07/31/2015

Reported:

08/11/2015

Sampling Type:

Soil

Project Name:

LOST TANK AIS STATE #3 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Judy Garcia

Project Location:

LOST TANK AIS STATE #3 BATTERY

Sample ID: S1-1' (H502031-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2015	ND	1.78	88.9	2.00	0.903	
Toluene*	<0.050	0.050	08/07/2015	ND	1.75	87.4	2.00	0.767	
Ethylbenzene*	<0.050	0.050	08/07/2015	ND	1.83	91.5	2.00	2.33	
Total Xylenes*	<0.150	0.150	08/07/2015	ND	5.17	86.1	6.00	0.329	
Total BTEX	<0.300	0.300	08/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	119 %	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	08/10/2015	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2015	ND	193	96.5	200	1.48	
DRO >C10-C28	<10.0	10.0	08/06/2015	ND	175	87.5	200	2.76	
Surrogate: 1-Chlorooctane	108 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	130 % 52.1-176		6						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliables or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

08/05/2015

Sampling Date:

07/31/2015

Reported:

08/11/2015

Sampling Type:

Soil

Project Name:

LOST TANK AIS STATE #3 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Judy Garcia

Project Location:

LOST TANK AIS STATE #3 BATTERY

Sample ID: S1-2' (H502031-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2015	ND	1.78	88.9	2.00	0.903	
Toluene*	<0.050	0.050	08/07/2015	ND	1.75	87.4	2.00	0.767	
Ethylbenzene*	<0.050	0.050	08/07/2015	ND	1.83	91.5	2.00	2.33	
Total Xylenes*	<0.150	0.150	08/07/2015	ND	5.17	86.1	6.00	0.329	
Total BTEX	<0.300	0.300	08/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/10/2015	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2015	ND	193	96.5	200	1.48	
DRO >C10-C28	<10.0	10.0	08/06/2015	ND	175	87.5	200	2.76	
Surrogate: 1-Chlorooctane	112 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	124 % 52.1-176		6						

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\*=Accredited Analyte

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Celeg D. Frena.



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

08/05/2015

Sampling Date:

07/31/2015

Reported:

Sampling Type:

Soil

08/11/2015

NONE GIVEN

Project Name:

LOST TANK AIS STATE #3 BATTERY

Sampling Condition: Sample Received By:

Cool & Intact Judy Garcia

Project Number: Project Location:

LOST TANK AIS STATE #3 BATTERY

Sample ID: S1-3' (H502031-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2015	ND	1.96	98.1	2.00	7.49	
Toluene*	<0.050	0.050	08/07/2015	ND	1.97	98.3	2.00	7.62	
Ethylbenzene*	<0.050	0.050	08/07/2015	ND	2.15	107	2.00	8.36	
Total Xylenes*	<0.150	0.150	08/07/2015	ND	5.93	98.8	6.00	8.29	
Total BTEX	<0.300	0.300	08/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 9	6 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5860	16.0	08/10/2015	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0 10.0		08/06/2015	ND	193	96.5	200	1.48	
DRO >C10-C28	<10.0	10.0	08/06/2015	ND	175	87.5	200	2.76	
Surrogate: 1-Chlorooctane	112 9	% 47.2-15	7			**************************************			
Surrogate: 1-Chlorooctadecane	119 % 52.1-176		6						

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\*=Accredited Analyte

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YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

08/05/2015

Sampling Date:

07/31/2015

Reported:

08/11/2015

Sampling Type:

Soil

Project Name:

LOST TANK AIS STATE #3 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Judy Garcia

Project Location:

LOST TANK AIS STATE #3 BATTERY

Sample ID: S1-4' (H502031-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2015	ND	1.96	98.1	2.00	7.49	
Toluene*	<0.050	0.050	08/07/2015	ND	1.97	98.3	2.00	7.62	
Ethylbenzene*	<0.050	0.050	08/07/2015	ND	2.15	107	2.00	8.36	
Total Xylenes*	<0.150	0.150	08/07/2015	ND	5.93	98.8	6.00	8.29	
Total BTEX	<0.300	0.300	08/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	120 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	08/10/2015	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2015	ND	193	96.5	200	1.48	
DRO >C10-C28	<10.0	10.0	08/06/2015	ND	175	87.5	200	2.76	
Surrogate: 1-Chlorooctane	110	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	118	% 52.1-17	6						

#### Cardinal Laboratories

\*=Accredited Analyte

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & treens-



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August 25, 2015

**CHASE SETTLE** 

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: LOST TANK AIS STATE #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/19/15 14:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/19/2015

Sampling Date:

08/14/2015

Reported:

08/25/2015

Sampling Type:

Soil

Project Name:

LOST TANK AIS STATE #3 BATTERY

Sampling Condition:

\*\* (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Judy Garcia

Project Location:

LOST TANK AIS STATE #3 BATTERY

Reporting Limit

16.0

Sample ID: S1-5' (H502167-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result

208

Analyzed

08/20/2015

Method Blank ND

BS 400

100

% Recovery

True Value QC 400

RPD

3.92

Sample ID: S1-6' (H502167-02)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Qualifier

Qualifier

Chloride

Chloride

Chloride

Result 48.0

Result

<16.0

Reporting Limit 16.0

Analyzed 08/20/2015 Method Blank ND

BS 400

100

% Recovery

True Value QC 400

RPD

3.92

Sample ID: S1-7' (H502167-03)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Reporting Limit

16.0

Analyzed

08/20/2015

Method Blank

ND

BS 400

% Recovery 100

True Value QC

400

RPD

3.92

Qualifier

Sample ID: S1-8' (H502167-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Reporting Limit Result Analyzed Chloride 32.0 08/20/2015 16.0

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD 3.92 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celly & Kreens -

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/19/2015

Sampling Date:

08/14/2015

Reported:

08/25/2015

Sampling Type:

Soil

Project Name:

LOST TANK AIS STATE #3 BATTERY

Sampling Condition:

\*\* (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Judy Garcia

Project Location:

LOST TANK AIS STATE #3 BATTERY

16.0

Reporting Limit

Sample ID: S1-9' (H502167-05)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Analyte

Result

<16.0

Reporting Limit

Analyzed 08/20/2015 Method Blank

BS 400 % Recovery 100

True Value QC 400

RPD

Qualifier

Sample ID: S1-10' (H502167-06)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

ND

% Recovery

100

3.92

Chloride

Chloride

Chloride

Result 16.0

16.0

Analyzed 08/20/2015 Method Blank ND

BS 400 True Value QC

RPD

Qualifier

Sample ID: S1-11' (H502167-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte Result Reporting Limit Analyzed 144 16.0

08/20/2015

Method Blank ND

400

BS

% Recovery 100

True Value QC 400

400

RPD 3.92

3.92

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celler Ditrema-

Celey D. Keene, Lab Director/Quality Manager

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# **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Freeno -



	Relinquished by: Date	Refinquished by: Date	Relinquished by:  Date	opecial instructions:				7 81-11'	6. S1-10'	5. S1-9 <sup>1</sup>	£ S1-8'	S1-7'	70-6	7	LAB # (lab use only)  FIELD CODE		ORDER #: 150010	_	(lish month)		Telephone No: 575-748-4171	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Comp: (505) 393-232? Yates Petroleum Corporation	Project Manager: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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