MARTIN YATES, III

FRANK W. YATES 1936-1986

> S.P YATES 1914-2008



JOHN A. YATES SR.

JOHN A. YATES JR.

DOUGLAS E. BROOKS

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

TELEPHONE (575) 748-1471

June 27, 2016

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

Re:

Federal CM Gathering Line Unit M, Section 12, T19S-R24E Eddy County, New Mexico

Dear Mr. Bratcher / Ms. 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 June 27, 2016.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after July 11, 2016.

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)

Yates Petroleum Corporation

Federal CM Gathering Line Work Plan

**Section 12, T19S-R24E** 

**Eddy County, New Mexico** 

June 27, 2016

#### I. Location

Take HWY 285 south of Artesia for 13 miles, then turn west on Rocking R Red Road and go 8.8 miles before turning north on lease road for 1.14 miles to the site.

#### II. Background

On June 27, 2016, Yates submitted to the NMOCD District II office a Form C-141 for a historical release of an unknown amount of natural gas with nothing recovered. The affected area is approximately 30 feet by 20 feet around a tin horn on a pipeline Right of Way. Initial delineation samples were taken (02/08/2016) and sent to a NMOCD approved laboratory (02/18/2016, results enclosed).

#### III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 12, T19S-R24E) that depth to groundwater is approximately 275' 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:

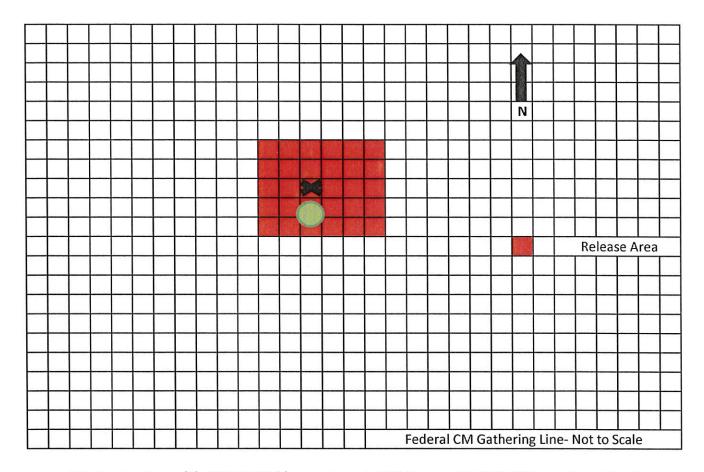
Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

#### IV. Soils

The area consists of soils that are loamy top soil interspersed with clay seams 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 ground water (275'), and a decrease in TPH, BTEX, & chloride concentration, Yates Petroleum Corporation proposes to excavate the one (1) foot to two (2) foot section of contaminated soil in the release area, hauling excavated soils to an NMOCD approved facility for disposal. Yates will then backfill the excavated area with the zero (0) to one (1) foot portion removed to access the impacted area, as well as an additional foot of topsoil. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0) in the release area, 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.



Site Ranking is ten (0). DTGW >100' (approximately 275', Section 12, T19S-R24E, per Trend Map)
All results are ppm. Chlorides for documentation

Released: Unknown MCF/Natural Gas; Recovered: 0 MCF/Natural Gas Release Date: Unknown

Sample ID	Analytical ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
FED CM #1A	H600308	2/8/2016	Hand auger	0-1'	3.23	<10.0	14.8	<16.0
FED CM #1B	H600308	2/8/2016	Hand auger	1-2'	604	6600	15500	5840
FED CM #1C	H600308	2/8/2016	Hand auger	2-3'	4.78	16.2	12.1	128



February 18, 2016

KERRY EGAN

AGAVE ENERGY COMPANY

P. O. BOX 158

ARTESIA, NM 88211

RE: FED CM

Enclosed are the results of analyses for samples received by the laboratory on 02/10/16 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celeg D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



AGAVE ENERGY COMPANY

P. O. BOX 158 ARTESIA NM, 88211 Project: FED CM

Project Number: NONE GIVEN Project Manager: KERRY EGAN

Fax To: (575) 748-4275

Reported:

18-Feb-16 10:18

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FED CM #1A	H600308-01	Soil	08-Feb-16 16:00	10-Feb-16 08:30
FED CM #1B	H600308-02	Soil	08-Feb-16 16:20	10-Feb-16 08:30
FED CM #1C	H600308-03	Soil	08-Feb-16 16:40	10-Feb-16 08:30

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AGAVE ENERGY COMPANY

P. O. BOX 158 ARTESIA NM, 88211 Project: FED CM

Project Number: NONE GIVEN

Project Manager: KERRY EGAN

Fax To: (575) 748-4275

Reported:

18-Feb-16 10:18

# FED CM #1A

H600308-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		a sality	Cardina	l Laborat	ories	T 12 422			Malaja (j. j. j	
Inorganic Compounds						s.111			1	
Chloride	<16.0		16.0	mg/kg	4	6021202	AP	15-Feb-16	4500-CI-B	
Sulfide, total	0.0100		0.0100	mg/kg	1	6021203	AP	17-Feb-16	9030	
Volatile Organic Compounds by	EPA Method	8021			-2.5					
Benzene*	< 0.050		0.050	mg/kg	50	6021205	MS	12-Feb-16	8021B	
Toluene*	0.755		0.050	mg/kg	50	6021205	MS	12-Feb-16	8021B	
Ethylbenzene*	0.681		0.050	mg/kg	50	6021205	MS	12-Feb-16	8021B	
Total Xylenes*	1.79		0.150	mg/kg	50	6021205	MS	12-Feb-16	8021B	
Total BTEX	3.23		0.300	mg/kg	50	6021205	MS	12-Feb-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	45 10 10	n range	105 %	73.6	-140	6021205	MS	12-Feb-16	8021B	
Petroleum Hydrocarbons by GC	CFID									
GRO C6-C10	<10.0	888	10.0	mg/kg	1	6021111	MS	11-Feb-16	8015B	
DRO >C10-C28	14.8	es entre	10.0	mg/kg	1	6021111	MS	11-Feb-16	8015B	
Surrogate: 1-Chlorooctane			73.2 %	35-	147	6021111	MS	11-Feb-16	8015B	
Surrogate: 1-Chlorooctadecane			80.4 %	28-	171	6021111	MS	11-Feb-16	8015B	

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P. O. BOX 158 ARTESIA NM, 88211 Project: FED CM

Project Number: NONE GIVEN

Project Manager: KERRY EGAN

Fax To: (575) 748-4275

Reported: 18-Feb-16 10:18

# FED CM #1B H600308-02 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	N	lotes
	4	Card	inal Labora	tories			16.		I.,	
Inorganic Compounds	10 - 11	=		-41	20	, 2 g	12:12			
Chloride	5840	16.0	mg/kg	4	6021202	AP	15-Feb-16	4500-Cl-B	ī	-
Sulfide, total	0.850	0.0100	mg/kg	1	6021203	AP	17-Feb-16	9030		
Volatile Organic Compounds by	EPA Method 8021				0.26					
Benzene*	13.2	5.00	mg/kg	5000	6021205	MS	12-Feb-16	8021B		
Toluene*	128	5.00	mg/kg	5000	6021205	MS	12-Feb-16	8021B		
Ethylbenzene*	130	5.00	mg/kg	5000	6021205	MS	12-Feb-16	8021B		
Total Xylenes*	333	15.0	mg/kg	5000	6021205	MS	12-Feb-16	8021B		
Total BTEX	604	30.0	mg/kg	5000	6021205	MS	12-Feb-16	8021B		
Surrogate: 4-Bromofluorobenzene (PID)	P. S. 1975, 1975, 1	106	% 73.6	5-140	6021205	MS	12-Feb-16	8021B		
Petroleum Hydrocarbons by GC	FID	Ť							S	S-06
GRO C6-C10	6600	100	mg/kg	10	6021111	MS	11-Feb-16	8015B		
DRO >C10-C28	15500	100	mg/kg	10	6021111	MS	11-Feb-16	8015B		
Surrogate: 1-Chlorooctane	a 1	196	% 35-	-147	6021111	MS	11-Feb-16	8015B		
Surrogate: 1-Chlorooctadecane		319	% 28-	-171	6021111	MS	11-Feb-16	8015B		

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Celeg D. Keene



AGAVE ENERGY COMPANY

P. O. BOX 158 ARTESIA NM, 88211 Project: FED CM

Project Number: NONE GIVEN

Project Manager: KERRY EGAN

Fax To: (575) 748-4275

Reported:

18-Feb-16 10:18

# FED CM #1C H600308-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					53 _ 3
Inorganic Compounds	:			1	114	4.5				
Chloride	128		16.0	mg/kg	4	6021202	AP	15-Feb-16	4500-C1-B	
Sulfide, total	0.210		0.0100	mg/kg	1	6021203	AP	17-Feb-16	9030	
Volatile Organic Compounds by	EPA Metho	d 8021								
Benzene*	0.071		0.050	mg/kg	50	6021205	MS	12-Feb-16	8021B	1
Toluene*	1.04		0.050	mg/kg	50	6021205	MS	12-Feb-16	8021B	
Ethylbenzene*	0.990		0.050	mg/kg	50	6021205	MS	12-Feb-16	8021B	
Total Xylenes*	2.68		0.150	mg/kg	50	6021205	MS	12-Feb-16	8021B	
Total BTEX	4.78		0.300	mg/kg	50	6021205	MS	12-Feb-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	73.6	-140	6021205	MS	12-Feb-16	8021B	a a second
Petroleum Hydrocarbons by GC	FID			112	E 1					
GRO C6-C10	16.2		10.0	mg/kg	1	6021111	MS	12-Feb-16	8015B	
DRO >C10-C28	12.1	, -3H3.	10.0	mg/kg	. 1	6021111	MS	12-Feb-16	8015B	
Surrogate: 1-Chlorooctane			81.7 %	35-	147	6021111	MS	12-Feb-16	8015B	
Surrogate: 1-Chlorooctadecane			83.9 %	28-	171	6021111	MS	12-Feb-16	8015B	

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AGAVE ENERGY COMPANY P. O. BOX 158

ARTESIA NM, 88211

Project: FED CM

Project Number: NONE GIVEN Project Manager: KERRY EGAN

Fax To: (575) 748-4275

Reported: 18-Feb-16 10:18

#### **Inorganic Compounds - Quality Control**

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6021202 - 1:4 DI Water			1							
Blank (6021202-BLK1)				Prepared &	& Analyzed:	12-Feb-16				
Chloride	ND	16.0	mg/kg			. 12 (5	4.5			. d
LCS (6021202-BS1)				Prepared &	& Analyzed:	12-Feb-16				
Chloride	416	16.0	mg/kg	400		104	80-120		This.	
LCS Dup (6021202-BSD1)				Prepared &	& Analyzed:	12-Feb-16				
Chloride	432	16.0	mg/kg	400	1 2 7 3	108	80-120	3.77	20	11
Batch 6021203 - General Prep - Wet Che	m	- 14_ 14_ 14_	·		. 411			1	1 = 1  19	
Blank (6021203-BLK1)				Prepared &	& Analyzed:	12-Feb-16				
Sulfide, total	ND	0.0100	mg/kg	7- 11-1						
Duplicate (6021203-DUP1)	So	urce: H600305	-01	Prepared &	& Analyzed:	: 12-Feb-16				
Sulfide, total	0.0300	0.0100	mg/kg		0.0400	E		28.6	20	

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AGAVE ENERGY COMPANY P. O. BOX 158

ARTESIA NM, 88211

Project: FED CM

Project Number: NONE GIVEN Project Manager: KERRY EGAN

Fax To: (575) 748-4275

Reported:

18-Feb-16 10:18

# Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### **Cardinal Laboratories**

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6021205 - Volatiles	114.1					1-2					
Blank (6021205-BLK1)					Prepared &	Analyzed:	12-Feb-16				
Benzene		ND	0.050	mg/kg							
Toluene		ND	0.050	mg/kg							
Ethylbenzene		ND	0.050	mg/kg							
Total Xylenes		ND	0.150	mg/kg							
Total BTEX		ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)		0.0521		mg/kg	0.0500		104	73.6-140			da
LCS (6021205-BS1)					Prepared &	Analyzed:	12-Feb-16				
Benzene		1.95	0.050	mg/kg	2.00	_	97.5	82.6-122			1.
Toluene		1.91	0.050	mg/kg	2.00		95.7	72.9-122			
Ethylbenzene		1.73	0.050	mg/kg	2.00		86.5	65.4-131			
Total Xylenes		5.36	0.150	mg/kg	6.00		89.4	73.8-125			
Surrogate: 4-Bromofluorobenzene (PID)		0.0508	7. 1	mg/kg	0.0500		102	73.6-140	7		11 10 10 10
LCS Dup (6021205-BSD1)					Prepared &	Analyzed	12-Feb-16	Àg			
Benzene		1.91	0.050	mg/kg	2.00		95.7	82.6-122	1.94	8.23	11.17
Toluene		1.89	0.050	mg/kg	2.00		94.7	72.9-122	1.01	8.71	
Ethylbenzene		1.73	0.050	mg/kg	2.00		86.3	65.4-131	0.206	9.46	
Total Xylenes		5.34	0.150	mg/kg	6.00		88.9	73.8-125	0.512	8.66	
Surrogate: 4-Bromofluorobenzene (PID)		0.0513	7 11	mg/kg	0.0500	8.5	103	73.6-140			
				500 mm							

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AGAVE ENERGY COMPANY

P. O. BOX 158 ARTESIA NM, 88211 Project: FED CM

Project Number: NONE GIVEN Project Manager: KERRY EGAN

Fax To: (575) 748-4275

Reported:

18-Feb-16 10:18

# Petroleum Hydrocarbons by GC FID - Quality Control

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6021111 - General Prep - Organics							and and			
Blank (6021111-BLK1)				Prepared &	k Analyzed	: 11-Feb-16				
GRO C6-C10	ND	10.0	mg/kg			a se fa	St 24 1 24			1
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	39.3	1 13 1 13	mg/kg	50.0	9 9	78.6	35-147		7	
Surrogate: 1-Chlorooctadecane	46.3		mg/kg	50.0		92.6	28-171			
LCS (6021111-BS1)				Prepared &	k Analyzed	: 11-Feb-16				
GRO C6-C10	209	10.0	mg/kg	200		104	76.7-115		11.15	
DRO >C10-C28	194	10.0	mg/kg	200		96.9	78.3-122			
Total TPH C6-C28	403	10.0	mg/kg	400		101	79.8-117			
Surrogate: 1-Chlorooctane	45.1	1	mg/kg	50.0		90.3	35-147	1 8		
Surrogate: 1-Chlorooctadecane	48.3		mg/kg	50.0		96.7	28-171			
LCS Dup (6021111-BSD1)		5 111025		Prepared &	& Analyzed	l: 11-Feb-16				
GRO C6-C10	212	10.0	mg/kg	200		106	76.7-115	1.45	9.42	
DRO >C10-C28	202	10.0	mg/kg	200		101	78.3-122	3.97	13.2	
Total TPH C6-C28	414	10.0	mg/kg	400		103	79.8-117	2.67	10.7	
Surrogate: 1-Chlorooctane	45.2		mg/kg	50.0		90.5	35-147	6 =		10.3000
Surrogate: 1-Chlorooctadecane	49.5		mg/kg	50.0		99.0	28-171			

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Celeg D. Keene



#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte commatrix interference's.	ncentration and/or
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	

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Celey D. Keene



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 60240		SIC BEOLIEST
(575) 393-2326 FAX (575) 393-2476	BILL 10)	
ompany Name: Agave Energy Company	P.O. #: 606-2336	
roject Manager: Kerry Egan	Company: Agave Energy	
ddress: 326 South 4th Street	Attn: Kerry Egan	
Sidle. Nm	Address: 326 West Quay	
hone #: 575-513-8988 Fax #.	City: Artesia	
roject #: Project Owner.	State: NM Zip: 88210	
Project Name:	Phone #: 575 748-4469	
Project Location: Fed CM	Fax #: 575 748-4275	
an	MATRIX PRESERV SAMPLING	
# CONTAINERS  GROUNDWATER  WASTEWATER	SOIL OIL SLUDGE OTHER: ACID/BASE: ** ICE / COOL OTHER: 2/8/16 0400hr ** TPH  ** BTEX  ** CI-	
Fed CM #1a G 2 7 Fed CM #1b G 2 3 Fed CM #1c G 2	0420hr x 0440hr x	
PLEASE NOTE: Liability and Damagos. Cardinal's liability and client's exclusive remedy for any daim arising whether based in contract or ton, shall be limited to the amount paid by the client for the analyses.  PLEASE NOTE: Liability and Damagos. Cardinal's liability and client's exclusive remedy for any daim arising whether based in contract or ton, shall be limited to the amount paid by the client for the applicable service.	tor the analyses. sicable service.	
All dams including those for more sequential damages, including without immation, business and an include the active stated reasons or many of the active stated reasons or many or many of the active stated reasons or many or many of the active stated reasons or many or many of the active stated reasons or many or man	Result: □Yes □No sult: □Yes □No RKS:	Add'l Phone #: Add'l Fax #:
Delivered By: (Circle One)  Sampler - UPS - Bus - Other: 4.22	Sample Condition Cool Intact ((hitidis)  Pres Pres No No	

Plana for written changes to (515) 398-2326