District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural R

RECEIVED

By OCD District 1 at 10:30 am, Sep 16, 2015

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

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Name of Co	mnany					OPERA? Contact	UK	Ľ	✓ Initia	al Report	Ш	Final Report
Yates Petro		oration				Contact Amber Canı	non					
Address	icum corp	Oration				Telephone N	CPG/ACUITA					
104 S. 4 th St	treet					575-748-41						
Facility Nar	159100000000000000000000000000000000000					Facility Typ		THE VALUE OF THE PARTY OF THE P				
Caravan Sta		Н				Well/Flow 1						
				1.6. 1.6					. DI N			
Surface Ow	ner			Mineral C	wner				API No			
State				State					30-025-	-41033		
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Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W		County		
D	33	24S	33E	50		North	400	l W	est	Lea		
				Latitude 32	.1811	_Longitude	103.58392					
				NAT	URE	OF REL	EASE					
Type of Rele						Volume of	Release			Recovered		
Produced Wa Source of Re						500 B/PW	Iour of Occurrence		450 B/PV	V Hour of Dis	covery	,
8 inch poly li						9/8/2014;			9/8/2014:		covery	85
Was Immedi						If YES, To				,		
		\boxtimes	Yes	No Not R	equired	Tomas Ob	erding, PhD/NM	OCD I				
By Whom?						Date and I	Iour					
		oleum Corpor	ration				PM (Email)					
Was a Water	course Rea		Yes 🗵	1 No		If YES, Vo	olume Impacting	the Water	course.			
						IN/A			***************************************			
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recover fluid	and rousta	bout/backhoe	crew.	and the rele	ase to o	ccui. vaives	and water transfe	a pumps v	vere situt	on, canca v	acuum	truck(s) to
Describe Are	ea Affected	and Cleanup	Action Tal									
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Signature:	limb	or lar	nm									
8	2011001	0000	ii or i			Approved by	Environmental S	Specialist				
Printed Nam	e: Amber C	Cannon						т п				
Title: NM F.	nvironment	al Regulatory	Agent			Approval Da	ite:	F	Expiration	Date:		
			0									
E-mail Addr	ess: ACann	on@yatespeti	oleum.co	n		Conditions of	f Approval:			Attached	н П	
Date: Septer	nber 16. 20	14	Pł	none: 575-748-41	11	2RP-				100000000000000000000000000000000000000		
Date. Depter				7 10 71	• •							

MARTIN YATES, III

FRANK W. YATES

S.P. YATES



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

www.vatespetroleum.com

APPROVED

By OCD District 1 at 10:30 am, Sep 16, 2015

JOHN A. YATES

CHAIRMAN EMERITUS

JOHN A YATES JR.

PRESIDENT

JOHN D. PERINI
EXECUTIVE VICE PRESIDENT

CHIEF FINANCIAL OFFICER

JAMES S. BROWN

CHIEF OPERATING OFFICER

Stipulations:

Ensure State Land Office concurrence/approval.

March 4, 2015

Dr. Tomáš 'Doc' Oberding, PhD NMOCD District I 1625 N. French Dr. Hobbs, NM 88240

RE:

Caravan State Unit #7H 30-025-41655 Section 33, T24S-R33E Lea County, New Mexico

Dr. Oberding,

Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on September 8, 2014 (1RP-3332). The release was 500 barrels produced water, with 450 barrels of produced water recovered. The release occurred in a pasture along a lease road and pipeline right-of-way. I've attached a Google Earth map showing a GPS of the release area and approximate sample points.

Initial TPH/BTEX and Chloride delineation samples were taken and were sent to a NMOCD approved facility. The release area was split and sampled in fifteen (15) separate sections on 12/9/2014. Analytical results in sections Car N 1, Car N 3, Car N 4, Car N 7, and Car N 9 showed elevated chloride levels. As a result of the elevated chlorides, Yates completed further vertical delineation of these sections on 2/10/2015. All analytical results from the sampling events are attached for your review.

Based off vertical delineation of the release area, Yates proposes the following work:

- No excavation work to take place from sections Car N 2, Car N 5, Car N 6, Car N 8, Car N 11, Car N 12, Car S 1, Car S 2, or Car S 3.
- No further excavation to occur in section Car N 10. The soils that showed TPH levels above RRAL's in this section have already been excavated and hauled to a disposal facility.
- Excavate 3' from section Car N 4 and backfill with like soils.
- Excavate 3' from sections Car N 3, Car N 7, and Car N 9; lay a synthetic liner in the bottom of the excavation, and backfill with like soils.
- Excavate 3' from section Car N 1; lay a synthetic liner in the bottom of the excavation, and backfill with like soils. Further vertical delineation of this section was impracticable due to a rock layer, which was impenetrable after 30 minutes of scraping and trying to bust through with a trackhoe, that inhibited sampling past 12'. We spoke about this on the phone on

2/23/2015 and you instructed me to not attempt to sample past this rock layer because we did not need to create a conduit for contaminant migration beneath the rock layer.

If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at acannon@yatespetroleum.com.

Thank You,

Amber Cannon

Environmental Regulatory Agent Yates Petroleum Corporation



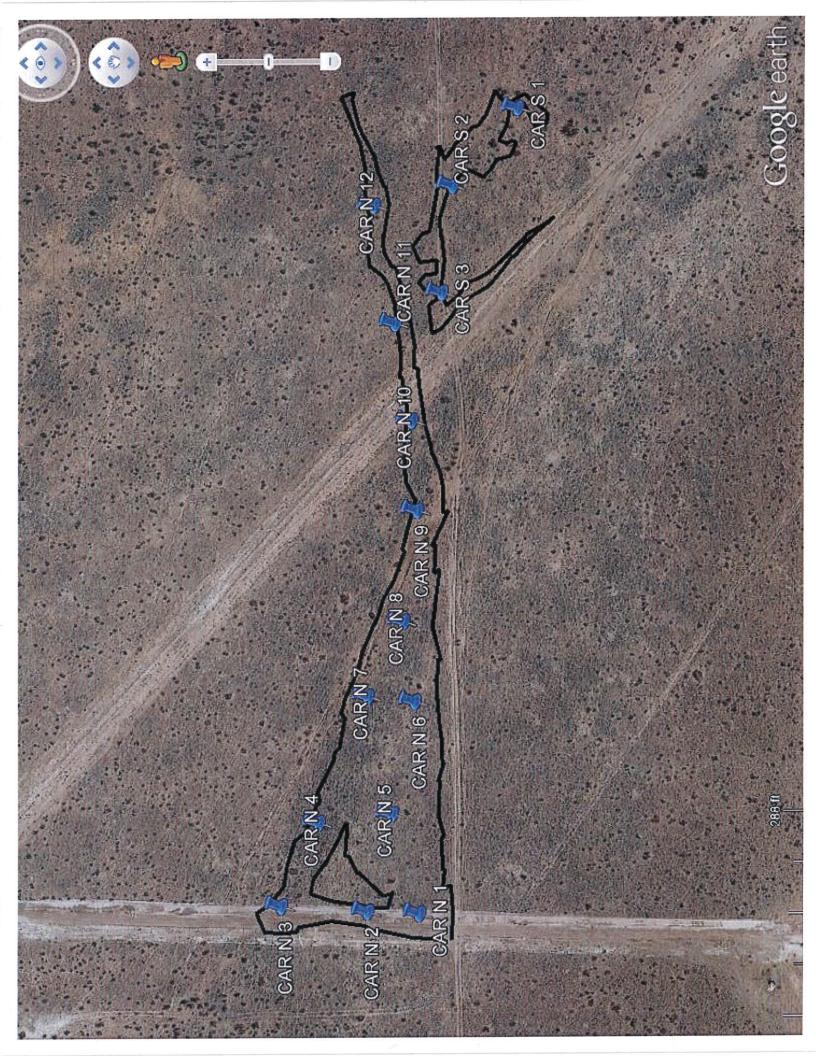
Caravan State Unit #7H

Analytical Report-			Analytical							
H403781	Sample Area	Sample Date	Report	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Car N 1-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	5,200
Car N 1-2	Release area	12/9/2014	H403880	Grab/Backhoe	2'	-	-	-	-	5,200
Car N 1-3	Release area	12/9/2014	H403880	Grab/Backhoe	3'	-	-	-		8,080
Car N 1-4	Release area	12/9/2014	H403880	Grab/Backhoe	4'	-	-	-	-	5,120
Car N 1-6	Release area	2/10/2015	H500425	Grab/Trackhoe	6'	-	-	-	-	8,530
Car N 1-8	Release area	2/10/2015	H500425	Grab/Trackhoe	8'		-	-		10,000
Car N 1-10	Release area	2/10/2015	H500425	Grab/Trackhoe	10'	-	-	-	- 4	6,400
Car N 1-12	Release area	2/10/2015	H500425	Grab/Trackhoe	12'					13,700
Car N 2-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	ND
Car N 3-1	Release area	12/9/2014	H403781	Grab/Backhoe	1°	ND	ND	ND	ND	2,400
Car N 3-2	Release area	12/9/2014	H403880	Grab/Backhoe	2'	-	-	-		3,280
Car N 3-3	Release area	12/9/2014	H403880	Grab/Backhoe	3'	-	-	-	- 1	3,160
Car N 3-4	Release area	12/9/2014	H403880	Grab/Backhoe	4'		-	-	-	3,280
Car N 3-6	Release area	2/10/2015	H500425	Grab/Trackhoe	6'	-	-	-	-	2,600
Car N 3-8	Release area	2/10/2015	H500425	Grab/Trackhoe	8'	-	-	-	-	2,080
Car N 3-10	Release area	2/10/2015	H500425	Grab/Trackhoe	10'		-	-	_	480
Car N 4-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	4,960
Car N 4-2	Release area	12/9/2014	H403880	Grab/Backhoe	2'	-	-	u u	-	4,560
Car N 4-3	Release area	12/9/2014	H403880	Grab/Backhoe	3'	-	-	-		5,360
Car N 4-4	Release area	12/9/2014	H403880	Grab/Backhoe	4'	-	-	-	-	1,090
Car N 4-6	Release area	2/10/2015	H500425	Grab/Trackhoe	6'	-		-	-	96
Car N 4-8	Release area	2/10/2015	H500425	Grab/Trackhoe	8'	-	-	-	-	176
Car N 4-10	Release area	2/10/2015	H500425	Grab/Trackhoe	10'	-	-	-	-	192
Car N 5-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	133	133	176
Car N 6-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	11.9	11.9	256
Car N 7-1	INSULTERNIA DE CANCELLO		A PROPERTY AND SOCIETY		oberg is all tarsings calls	description (recept	BOSH RESIDE			
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	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	5,920
Car N 7-2	Release area	12/9/2014	H403880	Grab/Backhoe	2'	ND -	ND -	-	ND -	7,920
Car N 7-2 Car N 7-3	Release area Release area	12/9/2014 12/9/2014	H403880 H403880	Grab/Backhoe Grab/Backhoe	2' 3'				Constitution of the second	7,920 7,280
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Car N 7-2 Car N 7-3 Car N 7-4 Car N 7-6	Release area Release area Release area Release area	12/9/2014 12/9/2014 12/9/2014 2/10/2015	H403880 H403880 H403880 H500425	Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Trackhoe	2' 3' 4' 6'	-				7,920 7,280 7,040 3,720
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Car N 7-2 Car N 7-3 Car N 7-4 Car N 7-6 Car N 7-6 Car N 7-10 Car N 8-1 Car N 9-1 Car N 9-2 Car N 9-3 Car N 9-4 Car N 9-6 Car N 10-1 Car N 10-2 Car N 10-2 Car N 10-3	Release area	12/9/2014 12/9/2014 12/9/2014 2/10/2015 2/10/2015 2/10/2015 12/9/2014 12/9/2014 12/9/2014 12/9/2014 2/10/2015 2/10/2015 2/10/2014 12/9/2014 12/9/2014	H403880 H403880 H403880 H500425 H500425 H500425 H403781 H403781 H403880 H403880 H403880 H403880 H403880 H403879	Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Trackhoe Grab/Trackhoe Grab/Trackhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Trackhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Trackhoe Grab/Trackhoe Grab/Backhoe Grab/Backhoe	2' 3' 4' 6' 8' 10' 1' 2' 3' 4' 6' 8' 3' 4' 6' 8'	ND ND	ND ND	- - - - - ND ND - - - - 4290 5100 976	ND ND 4525 5198.6 976	7,920 7,280 7,040 3,720 208 240 96 5,680 8,720 9,120 6,960 1,220 240 32
Car N 7-2 Car N 7-3 Car N 7-4 Car N 7-6 Car N 7-8 Car N 7-10 Car N 8-1 Car N 9-1 Car N 9-2 Car N 9-3 Car N 9-4 Car N 9-6 Car N 10-1 Car N 10-2 Car N 10-2 Car N 10-3 Car N 10-3 Car N 10-4	Release area	12/9/2014 12/9/2014 12/9/2014 2/10/2015 2/10/2015 2/10/2015 12/9/2014 12/9/2014 12/9/2014 12/9/2014 2/10/2015 2/10/2015 12/9/2014 12/9/2014 12/9/2014 12/9/2014	H403880 H403880 H403880 H500425 H500425 H500425 H403781 H403781 H403880 H403880 H500425 H500425 H500425 H403781 H403879 H403879	Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Trackhoe Grab/Trackhoe Grab/Trackhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Trackhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe	2' 3' 4' 6' 8' 10' 1' 2' 3' 4' 6' 8'		ND ND 235 98.6 ND ND ND ND ND ND ND ND ND	ND ND 4290 5100 976 191		7,920 7,280 7,040 3,720 208 240 96 5,680 8,720 9,120 6,960 1,220 240 32
Car N 7-2 Car N 7-3 Car N 7-4 Car N 7-6 Car N 7-6 Car N 7-10 Car N 8-1 Car N 9-1 Car N 9-2 Car N 9-3 Car N 9-8 Car N 9-8 Car N 10-1 Car N 10-2 Car N 10-3 Car N 10-4 Car N 10-4 Car N 10-4	Release area	12/9/2014 12/9/2014 12/9/2014 2/10/2015 2/10/2015 2/10/2015 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014	H403880 H403880 H403880 H500425 H500425 H500425 H403781 H403781 H403880 H403880 H403880 H403880 H403879 H403879 H403879	Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Trackhoe Grab/Trackhoe Grab/Trackhoe Grab/Trackhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Trackhoe Grab/Trackhoe Grab/Backhoe Grab/Trackhoe Grab/Trackhoe Grab/Trackhoe Grab/Trackhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Backhoe	2' 3' 4' 6' 8' 10' 1' 2' 3' 4' 6' 8' 4'	ND ND ND ND ND	ND ND	ND ND 4290 5100 976 191 ND	ND ND 4525 5198.6 976 191 ND	7,920 7,280 7,040 3,720 208 240 96 5,680 8,720 9,120 6,960 1,220 240 32 - ND
Car N 7-2 Car N 7-3 Car N 7-4 Car N 7-6 Car N 7-8 Car N 7-10 Car N 8-1 Car N 9-1 Car N 9-2 Car N 9-3 Car N 9-4 Car N 9-6 Car N 10-1 Car N 10-2 Car N 10-2 Car N 10-3 Car N 10-4 Car N 11-1 Car N 11-1 Car N 11-1	Release area	12/9/2014 12/9/2014 12/9/2014 2/10/2015 2/10/2015 2/10/2015 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014 12/9/2014	H403880 H403880 H403880 H500425 H500425 H500425 H403781 H403781 H403880 H403880 H403880 H403880 H403879 H403879 H403781 H403781	Grab/Backhoe Grab/Backhoe Grab/Backhoe Grab/Trackhoe Grab/Trackhoe Grab/Trackhoe Grab/Backhoe	2' 3' 4' 6' 8' 10' 1' 2' 3' 4' 6' 8' 1' 2' 3' 4' 1' 2'	ND ND ND ND ND		ND ND 4290 5100 976 191 ND ND ND	ND ND ND 4525 5198.6 976 191 ND ND	7,920 7,280 7,040 3,720 208 240 96 5,680 8,720 9,120 6,960 1,220 240 32 ND 272

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 100-125', per ChevronTexaco trend map).

All results are ppm.Chlorides for documentation.

Released: 500 B/PW; Recovered: 450 B/PW. Release Date: 9/8/2014, 1RP-3332



Caravan State Unit #7H

Analytical Report-	Sample Aver	Committee Day	Analytical Report	Sample Tune	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
H403781	Sample Area	Sample Date		Sample Type		ND	ND	ND	ND	5,200
Car N 1-1	Release area	12/9/2014	H403781	Grab/Backhoe	2'	- ND	- ND	- ND	ND -	5,200
Car N 1-2	Release area	12/9/2014	H403880	Grab/Backhoe	3'		-	-	-	8,080
Car N 1-3	Release area	12/9/2014	H403880	Grab/Backhoe Grab/Backhoe	4'	-	-	-		5,120
Car N 1-4	Release area	12/9/2014	H403880	100 000 000	6'	-				8,530
Car N 1-6	Release area	2/10/2015	H500425	Grab/Trackhoe Grab/Trackhoe	8'		-	-		10,000
Car N 1-8	Release area	2/10/2015	H500425 H500425	Grab/Trackhoe	10'	- 12	-		-	6,400
Car N 1-10	Release area	2/10/2015 2/10/2015	H500425	Grab/Trackhoe	12'	-	_	-	_	13,700
Car N 1-12	Release area		H403781	Grab/Backhoe	1'	ND	ND	ND	ND	ND
Car N 2-1	Release area	12/9/2014	Mary Control of the Control					de Asia Pade	h-de more ve	to on arms
Car N 3-1	Release area	12/9/2014	H403781	Grab/Backhoe Grab/Backhoe	1' 2'	ND -	ND -	ND -	ND -	2,400 3,280
Car N 3-2	Release area	12/9/2014	H403880	1000	3'	-		-		3,160
Car N 3-3	Release area	12/9/2014	H403880	Grab/Backhoe	4'	-	-	-		3,280
Car N 3-4	Release area	12/9/2014	H403880	Grab/Backhoe	6'	-				2,600
Car N 3-6	Release area	2/10/2015	H500425	Grab/Trackhoe	8'	-				2,080
Car N 3-8	Release area	2/10/2015	H500425	Grab/Trackhoe	10'	-	-			480
Car N 3-10	Release area	2/10/2015	H500425	Grab/Trackhoe			Street of	(C)		Service Section Control of Contro
Car N 4-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	4,960
Car N 4-2	Release area	12/9/2014	H403880	Grab/Backhoe	2'	-	-	-		4,560
Car N 4-3	Release area	12/9/2014	H403880	Grab/Backhoe	3'	-	-	-		5,360
Car N 4-4	Release area	12/9/2014	H403880	Grab/Backhoe	4'	17/	- 5	-		1,090
Car N 4-6	Release area	2/10/2015	H500425	Grab/Trackhoe	6'		-	-	-	96
Car N 4-8	Release area	2/10/2015	H500425	Grab/Trackhoe	8')#.	*	-	-	176
Car N 4-10	Release area	2/10/2015	H500425	Grab/Trackhoe	10'	-	-			192
Car N 5-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	133	133	176
Car N 6-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	11.9	11.9	256
Car N 7-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	5,920
Car N 7-2	Release area	12/9/2014	H403880	Grab/Backhoe	2'	-	-	-		7,920
Car N 7-3	Release area	12/9/2014	H403880	Grab/Backhoe	3'	-	-	-		7,280
Car N 7-4	Release area	12/9/2014	H403880	Grab/Backhoe	4'	-	-	-	-	7,040
Car N 7-6	Release area	2/10/2015	H500425	Grab/Trackhoe	6'	-	-	-	1.5	3,720
Car N 7-8	Release area	2/10/2015	H500425	Grab/Trackhoe	8'	-	2	-	-	208
Car N 7-10	Release area	2/10/2015	H500425	Grab/Trackhoe	10'	-	-	_		240
Car N 8-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	96
Car N 9-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	5,680
Car N 9-2	Release area	12/9/2014	H403880	Grab/Backhoe	2'	-	-	_	WED I	8,720
Car N 9-3	Release area	12/9/2014	H403880	Grab/Backhoe	3'	-	-	_	4	9,120
Car N 9-4	Release area	12/9/2014	H403880	Grab/Backhoe	4'	-	-	-	-	6,960
Car N 9-6	Release area	2/10/2015	H500425	Grab/Trackhoe	6'	-	-	_		1,220
Car N 9-8	Release area	2/10/2015	H500425	Grab/Trackhoe	8'	-		-	-	240
Car N 10-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	1.90	235	4290	4525	32
Car N 10-2	Release area	12/9/2014	H403879	Grab/Backhoe	2'	-	98.6	5100	5198.6	-
Car N 10-3	Release area	12/9/2014	H403879	Grab/Backhoe	3'		ND	976	976	-
Car N 10-4	Release area	12/9/2014	H403879	Grab/Backhoe	4'	-	ND	191	191	-
Car N 11-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	ND
Car N 12-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	272
Car S 1-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	112
	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	ND
Car S 2-1	ivelease alea	12/3/2014	11703/01	OTAD/DACKING	CONTRACT DESCRIPTION	110	110			
Car S 3-1	Release area	12/9/2014	H403781	Grab/Backhoe	1'	ND	ND	ND	ND	96

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 100-125', per ChevronTexaco trend map).

All results are ppm.Chlorides for documentation.

Released: 500 B/PW; Recovered: 450 B/PW. Release Date: 9/8/2014, 1RP-3332



December 16, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: CARAVAN STATE UNIT #7H

Enclosed are the results of analyses for samples received by the laboratory on 12/11/14 10:55.

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 www.tceq.texas.gov/field/qa/lab 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.

Celes D. Kune

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 AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

To: (505) 748-4635

Received:

12/11/2014

Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number: Project Location: 30-025-41655 33-24S-33E, LEA

Sample Received By:

Kathy Perez

Sample ID: CAR N 1-1 (H403781-01)

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	12/12/2014	ND	1.99	99.4	2.00	2.42	
Toluene*	<0.050	0.050	12/12/2014	ND	1.97	98.4	2.00	4.12	
Ethylbenzene*	<0.050	0.050	12/12/2014	ND	1.86	92.8	2.00	2.58	
Total Xylenes*	<0.150	0.150	12/12/2014	ND	5.55	92.5	6.00	1.84	
Total BTEX	<0.300	0.300	12/12/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.9	% 61-154	1						3163-23162-33
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	79.7	% 47.2-15	7	THE COURSE OF THE PARTY OF THE					
Surrogate: 1-Chlorooctadecane	79.0	% 52.1-17	'6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keena



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

Fax

Received: Reported: 12/11/2014

12/16/2014

Project Name:

CARAVAN STATE UNIT #7H

Project Number:

30-025-41655

Project Location:

33-24S-33E, LEA

Sampling Date:

ng Date: 12/09/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: CAR N 2-1 (H403781-02)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2014	ND	1.99	99.4	2.00	2.42	
Toluene*	<0.050	0.050	12/12/2014	ND	1.97	98.4	2.00	4.12	
Ethylbenzene*	<0.050	0.050	12/12/2014	ND	1.86	92.8	2.00	2.58	
Total Xylenes*	<0.150	0.150	12/12/2014	ND	5.55	92.5	6.00	1.84	
Total BTEX	<0.300	0.300	12/12/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 61-154	r.						
TPH 8015M	mg/	kg	Analyze	d By: MS		- Val			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	82.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	80.5	% 52.1-17	6						

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Celey D. treme -



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

12/11/2014

Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 3-1 (H403781-03)

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	12/12/2014	ND	1.99	99.4	2.00	2.42	
Toluene*	<0.050	0.050	12/12/2014	ND	1.97	98.4	2.00	4.12	
Ethylbenzene*	<0.050	0.050	12/12/2014	ND	1.86	92.8	2.00	2.58	
Total Xylenes*	<0.150	0.150	12/12/2014	ND	5.55	92.5	6.00	1.84	
Total BTEX	<0.300	0.300	12/12/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.7	% 61-154	!						
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	86.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.2	% 52.1-17	6						

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Celeg & Kreene



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

Received:

12/11/2014

Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 4-1 (H403781-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS			service de la companya del companya del companya de la companya de		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2014	ND	1.99	99.4	2.00	2.42	
Toluene*	<0.050	0.050	12/12/2014	ND	1.97	98.4	2.00	4.12	
Ethylbenzene*	<0.050	0.050	12/12/2014	ND	1.86	92.8	2.00	2.58	
Total Xylenes*	<0.150	0.150	12/12/2014	ND	5.55	92.5	6.00	1.84	
Total BTEX	<0.300	0.300	12/12/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.2	% 61-154							
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	85.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	83.0	% 52.1-17	6						

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Celey & treme -



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

12/11/2014

Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 5-1 (H403781-05)

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	12/12/2014	ND	1.99	99.4	2.00	2.42	
Toluene*	<0.050	0.050	12/12/2014	ND	1.97	98.4	2.00	4.12	
Ethylbenzene*	<0.050	0.050	12/12/2014	ND	1.86	92.8	2.00	2.58	
Total Xylenes*	<0.150	0.150	12/12/2014	ND	5.55	92.5	6.00	1.84	
Total BTEX	<0.300	0.300	12/12/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.1	% 61-154	!						
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	133	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	91.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	92.1	% 52.1-17	'6						

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Calley I trains



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

: (505) 748-4635

Received:

12/11/2014

Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 6-1 (H403781-06)

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	12/12/2014	ND	1.99	99.4	2.00	2.42	
Toluene*	<0.050	0.050	12/12/2014	ND	1.97	98.4	2.00	4.12	
Ethylbenzene*	<0.050	0.050	12/12/2014	ND	1.86	92.8	2.00	2.58	
Total Xylenes*	<0.150	0.150	12/12/2014	ND	5.55	92.5	6.00	1.84	
Total BTEX	<0.300	0.300	12/12/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 61-154							
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	11.9	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	87.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.5	% 52.1-17	6						

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Celey & Kreene



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

Fax To:

Received: 12/11/2014 Reported: 12/16/2014

Reported: 12/16/2014 Project Name: CARAVAN STATE UNIT #7H

Project Number:

30-025-41655

Project Location:

33-24S-33E, LEA

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Kathy Perez

Sample ID: CAR N 7-1 (H403781-07)

BTEX 8021B	mg/	'kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2014	ND	1.99	99.4	2.00	2.42	
Toluene*	<0.050	0.050	12/12/2014	ND	1.97	98.4	2.00	4.12	
Ethylbenzene*	<0.050	0.050	12/12/2014	ND	1.86	92.8	2.00	2.58	
Total Xylenes*	<0.150	0.150	12/12/2014	ND	5.55	92.5	6.00	1.84	
Total BTEX	<0.300	0.300	12/12/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 61-154	1						
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	86.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.4	% 52.1-17	76						

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Received:

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Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 8-1 (H403781-08)

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	12/12/2014	ND	1.99	99.4	2.00	2.42	
Toluene*	<0.050	0.050	12/12/2014	ND	1.97	98.4	2.00	4.12	
Ethylbenzene*	<0.050	0.050	12/12/2014	ND	1.86	92.8	2.00	2.58	
Total Xylenes*	<0.150	0.150	12/12/2014	ND	5.55	92.5	6.00	1.84	
Total BTEX	<0.300	0.300	12/12/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 5	% 61-154							
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	84.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	81.0	% 52.1-17	<i>'</i> 6						

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Received:

12/11/2014

Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition: Sample Received By: Cool & Intact Kathy Perez

Project Number:

30-025-41655

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 9-1 (H403781-09)

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	12/12/2014	ND	1.99	99.4	2.00	2.42	
Toluene*	<0.050	0.050	12/12/2014	ND	1.97	98.4	2.00	4.12	
Ethylbenzene*	<0.050	0.050	12/12/2014	ND	1.86	92.8	2.00	2.58	
Total Xylenes*	<0.150	0.150	12/12/2014	ND	5.55	92.5	6.00	1.84	
Total BTEX	<0.300	0.300	12/12/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 5	% 61-154	ſ						
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	87.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.8	% 52.1-17	14						

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Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 10-1 (H403781-10)

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	12/13/2014	ND	1.99	99.4	2.00	2.42	
Toluene*	0.077	0.050	12/13/2014	ND	1.97	98.4	2.00	4.12	
Ethylbenzene*	0.339	0.050	12/13/2014	ND	1.86	92.8	2.00	2.58	
Total Xylenes*	1.48	0.150	12/13/2014	ND	5.55	92.5	6.00	1.84	
Total BTEX	1.90	0.300	12/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	120	% 61-154							
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	235	10.0	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	4290	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	122	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	119	% 52.1-17	6						

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12/11/2014

Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 11-1 (H403781-11)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	<0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.0	% 61-154	ı						
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	85.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.7	% 52.1-17	76						

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Received:

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Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 12-1 (H403781-12)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	<0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 61-154	67						
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	83.9	% 47.2-15	7	3/0		(180-10-11-20)			
Surrogate: 1-Chlorooctadecane	81.1	% 52.1-17	6						

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Fax To:

(505) 748-4635

Received:

12/11/2014

Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR S 1-1 (H403781-13)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	<0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 61-154							
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	86.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	83.9	% 52.1-17	6						

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Sampling Date:

12/09/2014

Reported:

Received:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR S 2-1 (H403781-14)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	<0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 61-154	!						
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	88.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	83.7	% 52.1-17	6						

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Received:

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Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR S 3-1 (H403781-15)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	<0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 61-154	!						
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	12/12/2014	ND	188	94.0	200	4.00	
DRO >C10-C28	<10.0	10.0	12/12/2014	ND	200	99.8	200	3.72	
Surrogate: 1-Chlorooctane	87.5	% 47.2-15	7					-	
Surrogate: 1-Chlorooctadecane	83.7	% 52.1-17	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, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

Celeg D. Frene -



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

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Celay D. Kreene -

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

22/2222

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× ×

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 18 of 19

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

× × × ×

Page 19 of 19



December 16, 2014

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: CARAVAN STATE UNIT #7H

Enclosed are the results of analyses for samples received by the laboratory on 12/11/14 10:55.

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 www.tceq.texas.gov/field/ga/lab 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 & 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 AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

12/11/2014

Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 1-1 (H403781-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	5200	16.0	12/12/2014	ND	400	100	400	0.00	
Sample ID: CAR N 2-1 (H	403781-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/12/2014	ND	400	100	400	0.00	
Sample ID: CAR N 3-1 (H	l403781-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	2400	16.0	12/12/2014	ND	400	100	400	0.00	
Sample ID: CAR N 4-1 (H	1403781-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	4960	16.0	12/12/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celent treens

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Analyzed By: AP

Received: Reported: 12/11/2014

12/16/2014

CARAVAN STATE UNIT #7H

Project Name: Project Number:

30-025-41655

Project Location:

Sampling Date:

12/09/2014

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Kathy Perez

33-24S-33E, LEA

mg/kg

Sample ID: CAR N 5-1 (H403781-05)

Chloride, SM4500CI-B	

	7,11700-0							diameter and a second second	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/12/2014	ND	400	100	400	0.00	
Sample ID: CAR N 6-1 (H40	3781-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/12/2014	ND	400	100	400	0.00	
Sample ID: CAR N 7-1 (H40	3781-07)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	12/12/2014	ND	400	100	400	0.00	
Sample ID: CAR N 8-1 (H40	03781-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/12/2014	ND	400	100	400	0.00	
Sample ID: CAR N 9-1 (H4	03781-09)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	12/12/2014	ND	400	100	400	0.00	

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

12/11/2014

Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 10-1 (H403781-10)

mg/	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	12/12/2014	ND	400	100	400	0.00	
3781-11)								
mg,	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	12/12/2014	ND	400	100	400	0.00	
3781-12)								
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
272	16.0	12/12/2014	ND	400	100	400	0.00	
781-13)								
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
112	16.0	12/12/2014	ND	400	100	400	0.00	
3781-14)								
mg	/kg	Analyze	d By: AP			water the same ways and the same and the		
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	12/12/2014	ND	400	100	400	0.00	
3	Result 32.0 33781-11) mg, Result <16.0 33781-12) mg Result 272 3781-13) mg Result 112 3781-14) mg Result	32.0 16.0 03781-11) mg/kg Result Reporting Limit <16.0 16.0 03781-12) mg/kg Result Reporting Limit 272 16.0 8781-13) mg/kg Result Reporting Limit 112 16.0 8781-14) mg/kg Result Reporting Limit	Result Reporting Limit Analyzed 32.0 16.0 12/12/2014 33781-11) Mg/kg Analyzed Result Reporting Limit Analyzed <16.0	Result Reporting Limit Analyzed Method Blank 32.0 16.0 12/12/2014 ND 03781-11) mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank 112 16.0 12/12/2014 ND 3781-14) mg/kg Analyzed By: AP Result Reporting Limit Analyzed By: AP Result Reporting Limit Analyzed By: AP	Result Reporting Limit Analyzed Method Blank BS 32.0 16.0 12/12/2014 ND 400 3781-11) mg/kg Analyzed By: AP Result Reporting Limit Analyzed By: AP	Result Reporting Limit Analyzed Method Blank BS % Recovery 32.0 16.0 12/12/2014 ND 400 100 D3781-11) mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery 3781-13) Method Blank BS % Recovery 112 16.0 12/12/2014 ND 400 100 3781-14) mg/kg Analyzed By: AP Result Reporting Limit Analyzed By: AP Result Reporting Limit Analyzed By: AP Result Reporting Limit Analyzed By:	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 32.0 16.0 12/12/2014 ND 400 100 400 0.00 3781-11) mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 4781-13) mg/kg Analyzed Method Blank BS % Recovery True Value QC RPD 112 16.0 12/12/2014 ND 400 100 400 0.00 3781-14) mg/kg Analyzed By: AP Result Reporting Limit

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Celeg & Kreene



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

12/11/2014

Sampling Date:

12/09/2014

Reported:

12/16/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

Cool & Intact

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR S 3-1 (H403781-15)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/12/2014	ND	400	100	400	0.00	

Cardinal Laboratories

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Celey & Keene -



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

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aleg & treens -

,			CHAIN OF CUSTO	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST	YSIS REQUEST	
ARDINAL LA	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	(505) 393-2326 FAX (505) 393-2476				7 of 8
Project Manager: Amber Cannon	Amber Cannon			Project Name:	Caravan State Unit #7H	#7H age
Comp: (505) 393-23;	Compt (505) 393-232t Yates Petroleum Corporation			Project #:	30-025-41655	
Company Address	Company Address: 105 South 4th Street			Project Loc:	33-24S-33E, Lea	la l
City/State/Zip:	Artesia, NM 88210			PO #:	205-2020	
Telephone No:	575-748-4111 or 575-513-8799	Fax No: 575-748-4131		Report Format: X Standard	ard TRRP NPDES	NPDES

No		O.T.	Bacaived by EI OT.	Time	Nate	niished by:	Relinquished by:
NP=Roth-Potation Specify Other	,	0	Received by:	Time	Date	Remaguished by:	Relinq
X	57	1 tempo	Received by:	Time	12(11)N	Imber (unnor	Reinig
X X X X X X X X X X		_) you.	110111	acparate report		
NP=Roth-Potation Specify Offier	as mg/kg. Please put	Please show BIEX results as mg/kg.	=	: 8021B.	TPH: 8015B, BTEX: 8021B.	Special Instructions:	Speci
NP=Noti-Potable Specify Offer	_			1'		O Car N 10-1	1 L
NP=Noti-Potatile Specify Offier	×		12/9/2014	٠ <u>.</u>		Car N 9-1	0
X	1 X		12/9/2014	1.		8 Car N 8-1	~
X	×		12/9/2014	- <u>-</u>		Car N 7-1	-
NP=Non-Potatole Specify Uniter	×		12/9/2014	- ;		Car N 6-1	4
X	1 ×		12/9/2014	<u>-</u>		Car N 5-1	П
X	1 ×		12/9/2014	<u>→</u>		Car N 4-1	7
X TPH: 418.1 8015M 8015i TPH: TX 1005 TX 1006 Cations (Ca, Mg, Na, K) Anions (Cl, SO4, Alkalinity) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg Se Volatiles Semivolatiles X BTEX 8021B/5030 or BTEX 8260 RCI N.O.R.M. X Chlorides SAR	1 X		12/9/2014	1		Car N 3-1	JU,
X TPH: 418.1 8015M 8015i TPH: TX 1005 TX 1006 Cations (Ca, Mg, Na, K) Anions (Cl, SO4, Alkalinity) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg Se Volatiles Semivolatiles X BTEX 8021B/5030 or BTEX 8260 RCI N.O.R.M. Chlorides SAR RUSH TAT (Pre-Schedule) 24, 48, 7	1 ×		12/9/2014	→ →		Car N 2-1	1
TPH: 418.1 8015M 8015i TPH: TX 1005 TX 1006 Cations (Ca, Mg, Na, K) Anions (Cl, SO4, Alkalinity) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg Se Volatiles Semivolatiles BTEX 8021B/5030 or BTEX 8260 RCI N.O.R.M. Chlorides SAR	1 ×		12/9/2014	<u>-</u>		Car N 1-1	
0158 6 6 7 7 8 9 9 8 8 8	Total #. of Containers Ice HNO ₃ HCI H ₂ SO ₄ NaOH Na ₂ S ₂ O ₃	Time Sampled Field Filtered	Date Sampled	Ending Depth	Reginning Depth	•	LAB # (lab use only)
	Preservation & # of Co				8,	ORDER #: HHU518	ORDI
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						se only)	ah iid
Analyze For:		•					
etroleum.com	acannon@yatesp	e-mail:		3	IND MEMILI	Sampler Signature:	

	Relinquished by	Relinquished by: Relinquished by:	Special				5	1E	V	تو	Name to come	LAB # (lab use only)	ORDER #:	ab use only)							Ro
	hed by:	mber Cunnan	Special Instructions: TPH: Separation Separa				Car S 3-1	Car S 2-1	Car S 1-1	Car N 12-1	Car N 11-1	FIELD CODE	# HX03181		Sampler Signature: () (M)	Telephone No: 575-748-411	City/State/Zip: Artesia, NM	Company Address: 105 South 4th Street	Comp: (505) 393-232(Yates Petroleum Corporation	Project Manager: Amber Cannon	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
	Date	Date Date	Separate report. Thank you										_		ous Can	575-748-4111 or 575-513-8799	88210	h Street	eum Corporatio	on	M 88240
	-		7 × ×								-	Beginning Depth			CUMM)	799			-		
	ime	Time	: 8021B. Thank you				-7		-;			Ending Depth	1		3						
	Received by ELOT:	Received by:	ŭ.				12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	Date Sampled	_								(505) 393-2326 FAX (505) 393-2476
	T.	of charles	Please show BTEX results									Time Sampled			e-mail:	Fax No:					FAX (505) 393
			ts as			++		-	_		_	Field Filtered	4		In	Lon					-2476
		67	3m s	\vdash	+	++	- -	7	7	<u></u>	<u>~</u>	Total #. of Containers	+		aca	575-7					01
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				\vdash		++	-	+	-	-	-	HCI	serva		on(575-748-4131					
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			Please pu			\top	+	†				NaOH	Preservation & # of Containers		acannon@yates						CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
			Same.									Na ₂ S ₂ O ₃	Cont								N
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	O		0 8				100	100	10	10	10	DW=Drinking Water SL=Sludge	N.		m.c	ZO.					701
-			n				S	S	S	S	S	GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix		no.	epo		2222		Pr	34
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		S		H					Ė	Ť	Ė	TPH: TX 1005 TX 1006				Report Format:	ס	Project Loc:	Project #:	Project Name:	Š
3	T es	San	Sar									Cations (Ca, Mg, Na, K)				Ħ	PO #:	00:	ct #:	me:	D A
1	nper	stod) stod) by S	nple Cs F									Anions (CI, SO4, Alkalinity)	70	7,7		×					NO.
	ature	y sec	Cor	Ш								SAR / ESP / CEC	TAL:	TCLP:		Sta					A
1	Temperature Upon Receipt:	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sample Client Rep. ? by Courier? UPS DH	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?									Metals: As Ag Ba Cd Cr Pb Hg				x Standard					AL
	9	n co n co elive	ers I	\vdash								Volatiles		laiyz	1	ď.		(1)		Car	YS.
3	929 >	intair oler(PS	ntac	\vdash			_	_		_		Semivolatiles		Analyze For	1			33-2	30	ava	SR
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		PHL (s)		\vdash	+	++	+-	-	-	-	-	RCI		_		TRRP	205-2020	33-24S-33E, Lea	30-025-41655	Caravan State Unit #7H	Œ
C	ŋ	יד		\vdash	-	++	-	-	U	<u></u>		N.O.R.M.		-		70	ŏ	1	165	S	\$7
- 7	-	Fed X X X X	RAP	\vdash	\dashv	++	×	×	×	×	×	Chlorides SAR		-				ea	101	# #	
1	Carrie	110	00	\vdash	-	++	-	+-	-	-	-			\dashv		Z				H	
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				1	1	1 1	100	100	1,	100	100	The second secon	10				1	4 1	S	5	



December 23, 2014

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: CARAVAN STATE UNIT #7H

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 16:11.

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 www.tceq.texas.gov/field/ga/lab 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.

Celes 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 AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

12/18/2014

12/09/2014

Reported:

12/23/2014

Sampling Date: Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

** (See Notes)

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 1-2 (H403880-01)

Chloride, SM4500CI-B

Chloride

mg/kg

Analyzed By: AP

Analyte

Result 5200 Reporting Limit

16.0

Reporting Limit

Analyzed 12/22/2014 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD 3.92

RPD

3.92

Qualifier

Sample ID: CAR N 1-3 (H403880-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank

% Recovery

True Value OC

Qualifier

Chloride

Chloride

Chloride

8080

5120

Result

3280

Result

16.0 12/22/2014 ND

BS 416

104

400

Sample ID: CAR N 1-4 (H403880-03)

Chloride, SM4500CI-B

16.0

Reporting Limit

16.0

Analyzed By: AP

Analyte

Analyte

Analyte

Result Reporting Limit

Analyzed 12/22/2014 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD

Qualifier

Sample ID: CAR N 3-2 (H403880-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

12/22/2014

Method Blank ND

BS 416

% Recovery 104

True Value OC 400

RPD 3.92

3.92

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Calend Kreene -

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

12/18/2014

Sampling Date:

12/09/2014

Reported:

12/23/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

** (See Notes)

Project Number:

30-025-41655

Project Location:

33-24S-33E, LEA

Sample Received By:

Kathy Perez

Sample ID: CAR N 3-3 (H403880-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	12/22/2014	ND	416	104	400	3.92	
Sample ID: CAR N 3-4 (H4	103880-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	12/22/2014	ND	416	104	400	3.92	
Sample ID: CAR N 4-2 (H4	103880-07)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	12/22/2014	ND	416	104	400	3.92	
Sample ID: CAR N 4-3 (H4	103880-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	12/22/2014	ND	416	104	400	3.92	
Sample ID: CAR N 4-4 (H4	103880-09)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	12/22/2014	ND	416	104	400	3.92	

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Celeg Ditreme -

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

12/18/2014

Sampling Date:

12/09/2014

Reported:

12/23/2014

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

** (See Notes)

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 7-2 (H403880-10)

Chloride, SM4500CI-I

mg/kg

7920

Analyzed By: AP

Analyte

Reporting Limit Result

16.0

Reporting Limit

16.0

Analyzed 12/22/2014

Analyzed

Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD

3.92

RPD

3.92

Qualifier

Sample ID: CAR N 7-3 (H403880-11)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP

Method Blank

BS % Recovery

Chloride

Chloride

Result 7280

12/22/2014

ND

416

104

True Value QC 400

Qualifier

Sample ID: CAR N 7-4 (H403880-12)

Chloride, SM4500CI-B

Analyzed By: AP

BS

Chloride

Result 7040 Reporting Limit 16.0

Analyzed 12/22/2014 Method Blank ND

416

% Recovery 104

True Value QC 400

RPD

Qualifier

Chloride, SM4500CI-B

Analyzed By: AP

3.92

Sample ID: CAR N 9-2 (H403880-13)

mg/kg

Reporting Limit

Reporting Limit

16.0

Analyzed

Analyzed

12/22/2014

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

8720

Result

9120

Result

16.0 12/22/2014 ND

Method Blank

ND

416

104

400

True Value QC

400

Chloride

Sample ID: CAR N 9-3 (H403880-14)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

RS

416

% Recovery

104

3.92

RPD

3.92

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Cellent treens -

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

12/18/2014

12/09/2014

Reported:

12/23/2014

Sampling Date: Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

** (See Notes)

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 9-4 (H403880-15)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	12/22/2014	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celley & treens -



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 & Frene

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ned by:	ned by:	ished by:		Special Instructions:	Car N 7-2	Car N 4-4	Car N 4-3	Car N 4-2	Car N 3-4	Car N 3-3	Car N 3-2	Car N 1-4	Car N 1-3	Car N 1-2	Ξ.	* H402880		Campier Olynamie.	Sampler Signatur	Telephone No:	City/State/Zip:	Company Address:	Comp: (505) 393-2:	Project Manager:	ARDINAL I	1
			7)											FIELD CODE	088		e Charles		575-748-4111 or 575-513-8799	Artesia, NM 88210	s: 105 South 4th Street	Comp: (505) 393-2326 Yates Petroleum Corporation	Amber Cannon	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	
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	ed by:	mber Cannon	vished by:		Special Instructions:				Car N 9-4	Car N 9-3	Car N 9-2	Car N 7-4	Car N 7-3	FIELD CODE	# H403880		Sampler Signature:	Telephone No: 575-748	City/State/Zip: Artesia, NM	Company Address: 105 Sou	Comp: (505) 393-232€ Yates Petroleum Corporation	Project Manager: Amber Cannon	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
Care	Date Date	?	Date	Pas													Mber (575-748-4111 or 575-513-8799	NM 88210	105 South 4th Street	etroleum Corporation	Cannon	DRIES DS, NM 88240
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em	Sample Hand Delivered by Sampler/Client Re by Courier? UPS	Cust	abels on container(s)	Sample Containers Intact	2	_								Cations (Ca, Mg, Na, K)					PO #:	.00	#	me:	Ą
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Temperature Upon Receipt:	0	Custody seals on cooler(s)		Sample Containers Intact? VOCs Free of Headspace?	1		T							BTEX 8021B/5030 or BTEX 8	260	FOT:			2	33-24S-33E,	30-0	van	RE
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2	Posts													N.O.R.M.		1]TRRP	020	3E,	30-025-41655	Caravan State Unit #7H	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
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	-	BI I		101	1				×	×	×	×	×	Standard TAT					1	1		Pag	ge 8 of 8



December 23, 2014

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: CARAVAN STATE UNIT #7H

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 16:11.

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 www.tceq.texas.qov/field/ga/lab 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.

Celes 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 AMBER CANNON 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

12/18/2014

Sampling Date:

12/09/2014

Reported:

12/23/2014

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

CARAVAN STATE UNIT #7H

Project Number:

30-025-41655

Sample Received By:

Kathy Perez

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 10-2 (H403879-01)

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	98.6	10.0	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	5100	10.0	12/22/2014	ND	204	102	200	1.30	
Surrogate: 1-Chlorooctane	109	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	125	% 52.1-17	6						

Sample ID: CAR N 10-3 (H403879-02)

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	12/23/2014	ND	183	91.3	200	0.177	
DRO >C10-C28	976	10.0	12/23/2014	ND	195	97.4	200	2.52	
Surrogate: 1-Chlorooctane	86.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	93.0	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received: Reported: 12/18/2014

12/23/2014

CARAVAN STATE UNIT #7H

Project Name: CARAVAN STA Project Number: 30-025-41655

Project Location:

33-24S-33E, LEA

Sampling Date:

Sampling Condition:

Sample Received By:

12/09/2014

Sampling Type: Soil

Cool & Intact

Kathy Perez

Sample ID: CAR N 10-4 (H403879-03)

TPH 8015M

mg/kg

Analyzed By: MS

The state of the s									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/23/2014	ND	183	91.3	200	0.177	
DRO >C10-C28	191	10.0	12/23/2014	ND	195	97.4	200	2.52	

Surrogate: 1-Chlorooctane 89.4 % 47.2-157
Surrogate: 1-Chlorooctadecane 91.1 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey & Kenne



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

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Celeg & Kune

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Keiing		Relingu	Relingu	Specia					1		W.	l.		L	AB # (lab use only)	(lab use only) ORDER #:								160
Keinquisned by.	rished by	Relinquished by:	nquished by:	Special Instructions:							Car N 10-4	Car N 10-3	Car N 10-2		FIELD CODE	R#: 4403879	Sampler Signature:	2.0	Telephone No: 575-74		Company Address: 105 Sc	Comp: (505) 393-232f Yates Petroleum Corporation	Project Manager: Amber	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
	Date	Date	Date	471							4.	3	5 7		Beginning Depth				575-748-4111 or 575-513-8799	Artesia NM 88210	105 South 4th Street	Petroleum Corporation	Amber Cannon	FORIES bbs, NM 88240
	Time	Time	me		\vdash	+		\dashv	_	+	1	1		<u>ء</u>	Ending Depth	-	-	3						
	Received by ELOT:	Received by:	Received by:								4' 12/9/2014	+	+	12/0/2014	Date Sampled									(505) 393-2326
	LOT:	Shy M	7												Time Sampled			e-mail:	Fax No:					(505) 393-2326 FAX (505) 393-2476
		1	-	\mathcal{I}						+	-				Field Filtered Total #. of Containers			Ø	57					476
188		C	7		F	_	+-	\vdash	+	+	>		_	×	Ice			acannon@yatesp	575-748-4131					
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	ture	fanc Impl jurie	seal	eo	V	\dashv	_	+	+-					T	Metals: As Ag Ba Cd Cr F	Pb Hg Se	1 2		nda			- 1		
	Temperature Upon Receipt	Sample Hand Delivered by Sampler/Client Rep. by Courier? UPS	Custody seals on cooler(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory Comments:		+	+	+		\vdash		_	+	Volatiles		- Zigiyic	5	d.					Caravan State Unit #7H
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February 19, 2015

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: CARAVAN STATE UNIT #7H

Enclosed are the results of analyses for samples received by the laboratory on 02/13/15 11:10.

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 www.tceq.texas.gov/field/qa/lab 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.

Celes 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 AMBER CANNON 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

02/13/2015

Sampling Date:

02/10/2015

Reported:

02/19/2015

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

** (See Notes)

Project Number:

1RP-3332

Sample Received By:

Celey D. Keene

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 1-6 (H500425-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result

Analyzed

Method Blank

BS

% Recovery

100

True Value QC

RPD Qualifier

Chloride

8530

02/16/2015

ND

400

400

3.92

Sample ID: CAR N 1-8 (H500425-02)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP

BS

....

Chloride

Result

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 02/16/2015

Method Blank
ND

400

% Recovery

True Value QC

RPD

3.92

Qualifier

Sample ID: CAR N 1-10 (H500425-03)

Chloride, SM4500CI-B

ma/ka

Analyzed By: AP

Method Blank

BS

% Recovery

100

100

MINOR II

400

Oualifier

Chloride

Chloride

Result 6400

Result

13700

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 02/16/2015

Analyzed

02/16/2015

ND

ND

400

100

True Value QC 400

400

RPD

3.92

Qualii

Sample ID: CAR N 1-12 (H500425-04)

Chloride, SM4500CI-B

mg/kg

Analyzed Pyr A

Analyzed By: AP

M

Method Blank

BS 400 % Recovery True Value QC

RPD

3.92

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 8



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

Received:

02/13/2015

Sampling Date:

02/10/2015

Reported:

02/19/2015

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

** (See Notes)

Project Number:

1RP-3332

Sample Received By:

Celey D. Keene

Project Location:

33-24S-33E, LEA

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Sample ID: CAR N 3-6 (H500425-05)

Result Reporting Limit Analyzed

Method Blank

BS

% Recovery 100

% Recovery

100

True Value QC

RPD

3.92

RPD

3.92

Chloride

2600

Result

2080

16.0

Reporting Limit

16.0

02/16/2015

Analyzed

02/16/2015

ND

400

400

True Value QC

400

Qualifier

Sample ID: CAR N 3-8 (H500425-06)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

BS

400

Qualifier

Chloride, SM4500CI-B

Sample ID: CAR N 3-10 (H500425-07)

Analyzed By: AP

Analyte

Analyte

Reporting Limit Result

Analyzed

Method Blank

BS % Recovery True Value QC

RPD

Chloride

Chloride

Chloride

Chloride

480

16.0

Reporting Limit

16.0

16,0

02/16/2015

ND

400

Qualifier

Sample ID: CAR N 4-6 (H500425-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

400

100

3.92

Result

96.0

Result

176

Analyzed

02/16/2015

Method Blank

ND

BS

400

% Recovery

True Value QC

RPD

Qualifier

Sample ID: CAR N 4-8 (H500425-09)

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Reporting Limit

Analyzed 02/16/2015 Method Blank

ND

RS

400

100

% Recovery

100

400

True Value QC

400

3.92

RPD

0.00

Qualifier

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 8



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

02/13/2015

Sampling Date:

02/10/2015

Reported:

02/19/2015

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

** (See Notes)

Project Number:

1RP-3332

Sample Received By:

Celey D. Keene

Project Location: 33-24S-33E, LEA

Sample ID: CAR N 4-10 (H500425-10)

Chloride, S	M4500CI-B
-------------	-----------

mg/kg

Analyzed By: AP

Analyte

Result

192

Reporting Limit 16.0

Analyzed 02/16/2015 Method Blank ND

BS 400 % Recovery 100

True Value QC

RPD

0.00

Sample ID: CAR N 7-6 (H500425-11)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP

400

Qualifier

Chloride

Chloride

Result 3720 Reporting Limit 16.0

Analyzed 02/16/2015 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

Qualifier

RPD 0.00

Sample ID: CAR N 7-8 (H500425-12)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

Result 208

16.0

Reporting Limit

Reporting Limit

16.0

02/16/2015

ND

BS 400

100

400

0.00

Sample ID: CAR N 7-10 (H500425-13)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

ND

Method Blank

ND

Chloride

Result 240

Result

1220

Reporting Limit Analyzed 02/16/2015 16.0

Method Blank

BS 400 % Recovery 100

True Value QC

Qualifier

Chloride

Sample ID: CAR N 9-6 (H500425-14)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed

02/16/2015

BS

400

% Recovery

100

400

True Value QC

400

0.00

RPD

RPD

0.00

Qualifier

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Analyte

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Celeg & treene

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

02/13/2015

Sampling Date:

02/10/2015

Reported:

02/19/2015

Sampling Type:

Soil

Project Name:

CARAVAN STATE UNIT #7H

Sampling Condition:

** (See Notes)

Project Number:

1RP-3332

Sample Received By:

Celey D. Keene

Project Location:

33-24S-33E, LEA

Sample ID: CAR N 9-8 (H500425-15)

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	02/16/2015	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celley & Kreene



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

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Celey & Kuna

Relinquished by:	Relinquished by	Relinquish	Special	Ó	80	S	07	06	50	04	03	92	0	LAB # (lab use only)	ORDER #:	(lah rica r							GOT .
hed by:		nquished by: UMDEN CANNON	Special instructions:	Car N 4-10	Car N 4-8	Car N 4-6	Car N 3-10	Car N 3-8	Car N 3-6	Car N 1-12	Car N 1-10	Car N 1-8	Car N 1-6	FEC	# H5 804	only)	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Comp: (505) 393-232€ Yates Petroleum Corporation	Project Manager:	ARDINAL LAI
		2]												FIELD CODE	125		(Rimber)	575-748-4111 or 575-513-8799	Artesia, NM 88210	105 South 4th Street	Yates Petroleum C	Amber Cannon	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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emp	Samp by	usto	amp	*	+-	-	+-	-	-	-	-	-	-	Cations (Ca, Mg, Na, K) Anions (Cl, SO4, Alkalinity)					#	l S	# 	.e. I	ANI
Temperature Upon Receipt:	Sample Hand Delivered by Sampler/Client Rep. by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	ahoratory Comments:	+	\dagger	+	\vdash		T	\vdash		\dagger	SAR / ESP / CEC	TOTAL:	TCLP		× St					A
Ire U	nd D	conta eals o	ontair e of h											Metals: As Ag Ba Cd Cr Pb F		٦.	>	Standard					IAL
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mpe	Sample Hand Delivered by Sampler/Client Re by Courier? UPS	Custody seals on coole	VOCs Free of Headspace?	Laboratory Comments: Sample Containers Intact?											Anions (Cl, SO4, Alkalinity)		TOTAL			×							8
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