

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



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October 21, 2014

Mr. Mike Bratcher
NMOCD - District II
811 South First Street
Artesia, NM. 88210

RE: Dagger ZW Battery Pipeline

Dear Mr. Bratcher,

Yates Petroleum Corporation would like to submit the following for your review regarding the two releases (2RP-2257 and 2RP-2258) that occurred on the Dagger ZW Battery Pipeline, Section 31, T19S, R25E, on private land owned by Kevin Wilbanks.

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

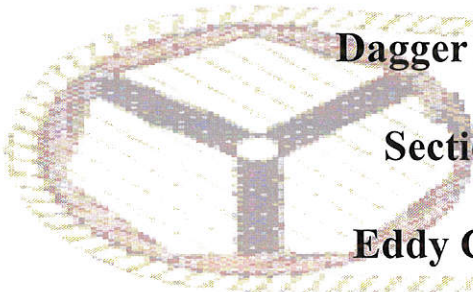
Yates Petroleum Corporation

Dagger ZW Battery Pipeline

Section 31, T19S, R25E

Eddy County, New Mexico

October 21, 2014



Location

The release occurred in Eddy County Section 31, T19S-R25E. The release is located approximately 15 miles south of Artesia, New Mexico and approximately 6 miles west of Highway 285. The release area can be accessed between Rock Daisy and Rocking R Red Road off of Crossbuck Road.

Surface and Ground Water

Area surface geology is Cenozoic. The ChevronTexaco depth to groundwater map for Eddy County shows groundwater to be at a depth of approximately 228' 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'

Background

The release was discovered on 3/29/2014 by the landowner Kevin Wilbanks. The amounts of produced water and crude oil released are unknown and approximately 15 barrels of produced water was recovered by a vacuum truck. The release was from a 6" fiberglass water line that was thought to have been abandoned. Yates Environmental staff visited the location on 3/29/2014 and took pictures of the release site. The ground within the release area was highly saturated. On 3/31/2014 Yates had a crew start excavating soils from the impacted area. Due to the high saturation, Yates excavated approximately 4' of soils and hauled them to a NMOCD approved disposal facility. Once the initial 4' of soils were excavated, Yates conducted initial vertical delineation for TPH, BTEX, and Chlorides.

On 4/2/2014 a second release occurred from the same line, within the release area when Yates Production department started turning wells back on that they had shut-in when the initial release was discovered. Yates Production department determined where the produced water was entering this line, and they capped the line off.

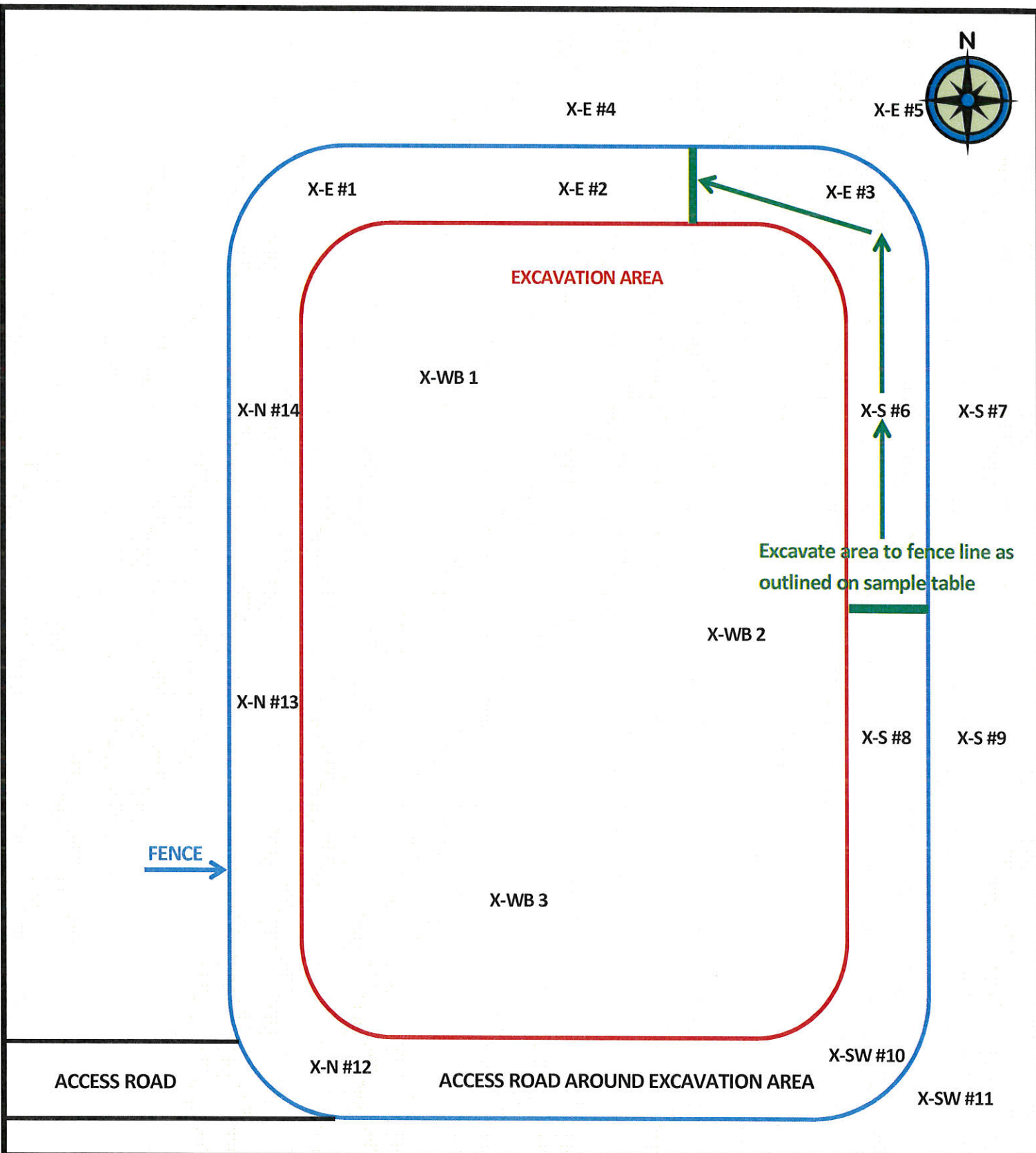
Yates has already started excavating the bottom of the hole to a depth of 7'. Yates has taken samples on the inside and outside of the fence put up around the release area, at the request of the landowner, to check for horizontal migration of chlorides. Analytical results are summarized on a table attached to this work plan along with the analytical reports from the laboratory. Yates has also included a site diagram (please note that it is not to scale).

Yates Scope of Work Proposal

Yates proposes to do the remaining work to accomplish remediation of these two releases.

- Excavate release areas WB 1, WB 2, and WB 3 to a depth of 7' (as mentioned above, excavation efforts had already begun prior to the heavy rain in September and crews have slowly resumed excavation work as the soil has dried). After the depth is taken down to 7' Yates is proposing the use of one of the two options listed below for backfill.
 - Option 1: Backfill with 4' of packed caliche (serving as a clay liner) and 3' of topsoil (bottom 2' compacted and top 1' left loose for purposes of re-seeding and establishing vegetation in the area).
 - Option 2: Install a 20 mL synthetic liner in the bottom of the hole at 7'. Place 6" of topsoil on top of liner to act as a cushion for the liner. Place 3.5' of packed caliche and top the backfill with 3' of topsoil (bottom 2' compacted and top 1' left loose for purposes of re-seeding and establishing vegetation in the area).
- The two stockpiles (north and south) that were sampled on August 11, 2014 have been hauled off and disposed of at Lea Land.
- The following sections are proposed as no further excavation or sampling.
 - E #1, E #2, E #4, E #5, S #7, S #9, SW #11, N #12, N #13, N #14
 - Chlorides are at acceptable levels.
 - S #8
 - There is an increase in chloride concentration at 9' below the surface level in this section. We propose to leave these chlorides in place based off analytical data showing that at the same depth in S #9 chlorides are at acceptable levels. Yates believes that the chlorides found at 9' in S #8 did not migrate further out since they were not found in S #9. Once vegetation is re-established, we also believe that chlorides left in place will not cause any future problems/issues.
 - SW #10
 - There is an increase in the chloride concentration at 7' and 9' below the surface level. We propose to leave these chlorides in place based off analytical data showing that at the same depths in SW #11 chlorides are at acceptable levels. Yates believes that the chlorides found at 7' and 9' in SW #10 did not migrate further out since they were not found in SW #11. Once vegetation is re-established, we also believe that chlorides left in place will not cause any future problems/issues.

- The following work is proposed for section E #3
 - Remove and save 1'-7' of soils, all at acceptable chloride levels for re-use during the backfill process. Leave the 8'-10' chlorides in place, but extend the synthetic liner or caliche liner into this area (as described for section WB1, WB2, and WB3), restricting the vertical and horizontal migration of chlorides being left in place.
- The following work is proposed for section S #6.
 - Remove and save 1'-5' of soils, all at acceptable chloride levels for re-use during the backfill process. Excavate and haul off to Lea Land 6'-7'. Leave the 8'-9' chlorides in place, but extend the synthetic liner or caliche liner into this area (as described for section WB1, WB2, and WB3), restricting the vertical and horizontal migration of chlorides left in place.



Dagger ZW Battery Pipeline
(Wilbanks)

Section 31, T19S-R25E

Eddy County, NM

Prepared by Amber Cannon
Environmental Regulatory Agent

Drawing not to Scale

Dagger ZW Battery Pipeline

Cardinal Laboratories

	Analytical	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides	
Organic Laboratories	WB 1-2' (5' BSL)	Release Area	4/28/2014	Grab/Excavator	2'	ND	ND	ND	ND	9,700	
	WB 1-4' (7' BSL)	Release Area	4/28/2014	Grab/Excavator	4'	ND	ND	ND	ND	9,300	
	WB 1-6' (9' BSL)	Release Area	4/28/2014	Grab/Excavator	6'	ND	ND	ND	ND	8,200	
	WB 1-8' (11' BSL)	Release Area	4/28/2014	Grab/Excavator	8'	ND	ND	ND	ND	7,500	
	WB 1-10' (13' BSL)	Release Area	4/28/2014	Grab/Excavator	10'	ND	ND	ND	ND	6,700	
	WB 1-12' (15' BSL)	Release Area	4/28/2014	Grab/Excavator	12'	-	-	-	-	4,700	
	WB 1-14' (17' BSL)	Release Area	4/28/2014	Grab/Excavator	14'	-	-	-	-	4,900	
	WB 1-16' (19' BSL)	Release Area	4/28/2014	Grab/Excavator	16'	-	-	-	-	4,200	
	WB 1-18' (21' BSL)	Release Area	4/28/2014	Grab/Excavator	18'	-	-	-	-	2,380	
	WB 1-20' (23' BSL)	Release Area	4/28/2014	Grab/Excavator	20'	-	-	-	-	3,840	
	WB 1-24' (27' BSL)	Release Area	6/24/2014	Grab/Excavator	24'	-	-	-	-	256	
	WB 1-25' (28' BSL)	Release Area	6/24/2014	Grab/Excavator	25'	-	-	-	-	672	
	WB 1-26' (29' BSL)	Release Area	6/24/2014	Grab/Excavator	26'	-	-	-	-	1,880	
Potential Cross Contamination (hole kept caving)											
Excavate release area to a depth of 7' (already in process, was put on hold due to all the rains). After excavation is finished and impacted soils are hauled to disposal, Yates has two backfill option. Option 1) Backfill with 4' of packed caliche (serving as a clay liner) and 3' of topsoil (bottom 2' compacted and top 1' left loose for re-vegetating purposes). Option 2) Lay down a 20 mil synthetic liner at the bottom of the hole at 7'. Place 6" of topsoil on top of liner to act as a cushion. Place 3.5' of packed caliche and top with 3' of topsoil (bottom 2' compacted and top 1' left loose for re-vegetating purposes).											
PROPOSE SAME AS SECTION WB1.											
Excavate release area to a depth of 7' (already in process, was put on hold due to all the rains). After excavation is finished and impacted soils are hauled to disposal, Yates has two backfill option. Option 1) Backfill with 4' of packed caliche (serving as a clay liner) and 3' of topsoil (bottom 2' compacted and top 1' left loose for re-vegetating purposes). Option 2) Lay down a 20 mil synthetic liner at the bottom of the hole at 7'. Place 6" of topsoil on top of liner to act as a cushion. Place 3.5' of packed caliche and top with 3' of topsoil (bottom 2' compacted and top 1' left loose for re-vegetating purposes).											
PROPOSE SAME AS SECTION WB1.											
Organic Laboratories	WB 2-2' (5' BSL)	Release Area	4/28/2014	Grab/Excavator	2'	ND	ND	ND	ND	12,600	
	WB 2-4' (7' BSL)	Release Area	4/28/2014	Grab/Excavator	4'	ND	ND	ND	ND	9,600	
	WB 2-6' (9' BSL)	Release Area	4/28/2014	Grab/Excavator	6'	ND	ND	ND	ND	8,600	
	WB 2-8' (11' BSL)	Release Area	4/28/2014	Grab/Excavator	8'	ND	ND	ND	ND	7,100	
	WB 2-10' (13' BSL)	Release Area	4/28/2014	Grab/Excavator	10'	ND	ND	ND	ND	5,300	
	WB 2-12' (15' BSL)	Release Area	4/28/2014	Grab/Excavator	12'	-	-	-	-	1,200	
	WB 2-14' (17' BSL)	Release Area	4/28/2014	Grab/Excavator	14'	-	-	-	-	1,070	
	WB 2-16' (19' BSL)	Release Area	4/28/2014	Grab/Excavator	16'	-	-	-	-	576	
	WB 2-18' (21' BSL)	Release Area	4/28/2014	Grab/Excavator	18'	-	-	-	-	608	
	WB 2-20' (23' BSL)	Release Area	4/28/2014	Grab/Excavator	20'	-	-	-	-	464	
	PROPOSE SAME AS SECTION WB1.										
	WB 3-2' (5' BSL)	Release Area	4/28/2014	Grab/Excavator	2'	ND	ND	ND	ND	ND	8,200
	WB 3-4' (7' BSL)	Release Area	4/28/2014	Grab/Excavator	4'	ND	ND	ND	ND	ND	8,240
WB 3-6' (9' BSL)	Release Area	4/28/2014	Grab/Excavator	6'	ND	ND	ND	ND	ND	9,500	
WB 3-8' (11' BSL)	Release Area	4/28/2014	Grab/Excavator	8'	ND	ND	ND	ND	ND	7,400	
WB 3-10' (13' BSL)	Release Area	4/28/2014	Grab/Excavator	10'	ND	ND	ND	ND	ND	7,600	
WB 3-12' (15' BSL)	Release Area	4/28/2014	Grab/Excavator	12'	ND	ND	ND	ND	ND	9,000	
WB 3-14' (17' BSL)	Release Area	4/28/2014	Grab/Excavator	14'	ND	ND	ND	ND	ND	8,100	
WB 3-16' (19' BSL)	Release Area	4/28/2014	Grab/Excavator	16'	ND	ND	ND	ND	ND	7,100	
WB 3-18' (21' BSL)	Release Area	4/28/2014	Grab/Excavator	18'	ND	ND	ND	ND	ND	5,120	
WB 3-20' (23' BSL)	Release Area	4/28/2014	Grab/Excavator	20'	ND	ND	ND	ND	ND	2,440	
WB 3-24' (27' BSL)	Release Area	6/24/2014	Grab/Excavator	24'	-	-	-	-	-	1,100	
WB 3-25' (28' BSL)	Release Area	6/24/2014	Grab/Excavator	25'	-	-	-	-	-	320	
WB 3-26' (29' BSL)	Release Area	6/24/2014	Grab/Excavator	26'	-	-	-	-	-	384	
WB 3-27' (30' BSL)	Release Area	6/24/2014	Grab/Excavator	27'	-	-	-	-	-	640	
PROPOSE SAME AS SECTION WB1.											
Stock Pile North	H402497	Stock Pile	8/11/2014	Composite/Shovel	-	-	-	-	-	3,760	
Stock Pile South	H402497	Stock Pile	8/11/2014	Composite/Shovel	-	-	-	-	-	9,200	
This has already been hauled off and disposed of at Lea Land. This has already been hauled off and disposed of at Lea Land.											

Dagger ZW Battery Pipeline

Cardinal Laboratories

	Analytical	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
E #1-7'	H402270	Release Area	7/23/2014	Grab/Excavator	7'	-	-	-	-	112
E #1-8'	H402270	Release Area	7/23/2014	Grab/Excavator	8'	-	-	-	-	80
E #1-9'	H402270	Release Area	7/23/2014	Grab/Excavator	9'	-	-	-	-	96
E #2-7'	H402270	Release Area	7/23/2014	Grab/Excavator	7'	-	-	-	-	128
E #2-8'	H402270	Release Area	7/23/2014	Grab/Excavator	8'	-	-	-	-	208
E #2-9'	H402270	Release Area	7/23/2014	Grab/Excavator	9'	-	-	-	-	432
E #3-1	H402420	Release Area	7/23/2014	Grab/Excavator	1'	-	-	-	-	64
E #3-2'	H402420	Release Area	7/23/2014	Grab/Excavator	2'	-	-	-	-	32
E #3-3'	H402420	Release Area	7/23/2014	Grab/Excavator	3'	-	-	-	-	ND
E #3-4'	H402420	Release Area	7/23/2014	Grab/Excavator	4'	-	-	-	-	64
E #3-5'	H402420	Release Area	7/23/2014	Grab/Excavator	5'	-	-	-	-	128
E #3-6'	H402420	Release Area	7/23/2014	Grab/Excavator	6'	-	-	-	-	208
E #3-7'	H402270	Release Area	7/23/2014	Grab/Excavator	7'	-	-	-	-	464
E #3-8'	H402270	Release Area	7/23/2014	Grab/Excavator	8'	-	-	-	-	2,360
E #3-9'	H402270	Release Area	7/23/2014	Grab/Excavator	9'	-	-	-	-	3,760
E #3-10'	H402420	Release Area	7/23/2014	Grab/Excavator	10'	-	-	-	-	5,440
E #4-1'	H402497	Release Area	8/11/2014	Grab/Backhoe	1'	-	-	-	-	32
E #4-2'	H402497	Release Area	8/11/2014	Grab/Backhoe	2'	-	-	-	-	32
E #4-3'	H402497	Release Area	8/11/2014	Grab/Backhoe	3'	-	-	-	-	64
E #4-4'	H402497	Release Area	8/11/2014	Grab/Backhoe	4'	-	-	-	-	32
E #4-5'	H402497	Release Area	8/11/2014	Grab/Backhoe	5'	-	-	-	-	48
E #4-6'	H402497	Release Area	8/11/2014	Grab/Backhoe	6'	-	-	-	-	48
E #4-7'	H402497	Release Area	8/11/2014	Grab/Backhoe	7'	-	-	-	-	64
E #4-8'	H402497	Release Area	8/11/2014	Grab/Backhoe	8'	-	-	-	-	80
E #4-9'	H402497	Release Area	8/11/2014	Grab/Backhoe	9'	-	-	-	-	96
E #5-1'	H402497	Release Area	8/11/2014	Grab/Backhoe	1'	-	-	-	-	16
E #5-2'	H402497	Release Area	8/11/2014	Grab/Backhoe	2'	-	-	-	-	ND
E #5-3'	H402497	Release Area	8/11/2014	Grab/Backhoe	3'	-	-	-	-	80
E #5-4'	H402497	Release Area	8/11/2014	Grab/Backhoe	4'	-	-	-	-	80
E #5-5'	H402497	Release Area	8/11/2014	Grab/Backhoe	5'	-	-	-	-	16
E #5-6'	H402497	Release Area	8/11/2014	Grab/Backhoe	6'	-	-	-	-	16
E #5-7'	H402497	Release Area	8/11/2014	Grab/Backhoe	7'	-	-	-	-	32
E #5-8'	H402497	Release Area	8/11/2014	Grab/Backhoe	8'	-	-	-	-	32
E #5-9'	H402497	Release Area	8/11/2014	Grab/Backhoe	9'	-	-	-	-	48

No further excavation or sampling needed, leave as is.

No further excavation or sampling needed, leave as is.

Remove and save 1'-7' of soils, all at acceptable chloride levels. (We will re-use these soils once the backfill process starts). Leave 8'-10' in place, but extend the synthetic liner or caliche liner into this area (as described for Section MB1) over these chlorides left in place.

No further excavation or sampling needed, leave as is.

No further excavation or sampling needed, leave as is.

Dagger ZW Battery Pipeline

Cardinal Laboratories

	Analytical	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S #6-1'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	32
S #6-3'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	672
S #6-5'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	432
S #6-7'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	5,760
S #6-9'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	4,880
S #7-1'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	32
S #7-3'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	128
S #7-5'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	112
S #7-7'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	64
S #7-9'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	32
S #8-1'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	304
S #8-3'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	48
S #8-5'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	96
S #8-7'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	192
S #8-9'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	1,140
S #9-1'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	ND
S #9-3'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	32
S #9-5'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	16
S #9-7'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	48
S #9-9'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	112
SW #10-1'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	80
SW #10-3'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	304
SW #10-5'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	368
SW #10-7'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	1,100
SW #10-9'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	2,600
SW #11-1'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	ND
SW #11-3'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	32
SW #11-5'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	16
SW #11-7'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	256
SW #11-9'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	288

Remove and save 1'-5" of soils, all at acceptable chloride levels. (We will re-use these soils once the backfill process starts). Excavate the 6'-7' and haul off to Lea Land for disposal. Leave the 8'-9' chlorides in place, but extend the synthetic liner or caliche liner into this area (as described for Section MB1) over these chlorides left in place.

No further excavation or sampling needed, leave as is.

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No further excavation or sampling needed, leave as is.

No further excavation or sampling needed, leave as is.

No further excavation or sampling needed, leave as is.

Dagger ZW Battery Pipeline

Cardinal Laboratories

	Analytical	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides	
N #12-1'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	ND	No further excavation or sampling needed, leave as is.
N #12-3'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	32	
N #12-5'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	16	
N #12-7'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	64	
N #12-9'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	ND	
N #13-1'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	32	No further excavation or sampling needed, leave as is.
N #13-3'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	112	
N #13-5'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	112	
N #13-7'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	272	
N #13-9'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	256	
N #14-1'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	112	No further excavation or sampling needed, leave as is.
N #14-3'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	224	
N #14-5'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	96	
N #14-7'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	240	
N #14-9'	H402735	Release Area	9/2/2014	Grab/Backhoe	-	-	-	-	-	144	

Site Ranking is ZERO (0). Depth to Ground Water >100' (228' ChevronTexaco Trend Map)

All results are ppm.Chlorides for documentation.

Released: Unknown B/PW, Unknown B/O; Recovered: 15 B/PW, 0 B/O. Release Date: 3/29/2014. 2RP-2257

Released: Unknown B/PW, Unknown B/O; Recovered: 880 B/PW, 30 B/O. Release Date: 4/2/2014. 2RP-2258



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 05, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: WILBANKS RANCH (6" FG LINE)

Enclosed are the results of analyses for samples received by the laboratory on 04/29/14 10:30.

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 accredited 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.

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

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 1 - 2' (H401271-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9700	16.0	05/01/2014	ND	400	100	400	0.00		

Sample ID: WB 1 - 4' (H401271-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9300	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 1 - 6' (H401271-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8200	16.0	05/01/2014	ND	400	100	400	0.00		

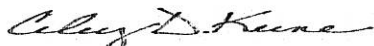
Sample ID: WB 1 - 8' (H401271-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7500	16.0	05/01/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 1 - 10' (H401271-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6700	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 1 - 12' (H401271-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4700	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 1 - 14' (H401271-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4900	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 1 - 16' (H401271-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4200	16.0	05/01/2014	ND	400	100	400	0.00	

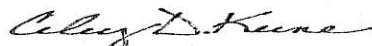
Sample ID: WB 1 - 18' (H401271-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2380	16.0	05/01/2014	ND	400	100	400	0.00	

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/29/2014
Reported: 05/05/2014
Project Name: WILBANKS RANCH (6" FG LINE)
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WB 1 - 20' (H401271-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 2 - 2' (H401271-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12600	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 2 - 4' (H401271-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 2 - 6' (H401271-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8600	16.0	05/01/2014	ND	400	100	400	0.00	


Sample ID: WB 2 - 8' (H401271-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7100	16.0	05/01/2014	ND	400	100	400	0.00	

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AMBER CANNON
105 S 4th Street
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Fax To: (505) 748-4635

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 2 - 10' (H401271-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5300	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 2 - 12' (H401271-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	05/01/2014	ND	400	100	400	0.00		

Sample ID: WB 2 - 14' (H401271-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	05/01/2014	ND	400	100	400	0.00		

Sample ID: WB 2 - 16' (H401271-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	05/01/2014	ND	400	100	400	0.00	

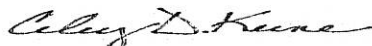
Sample ID: WB 2 - 18' (H401271-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	05/01/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 2 - 20' (H401271-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 3 - 2' (H401271-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8200	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 3 - 4' (H401271-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8240	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 3 - 6' (H401271-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9500	16.0	05/01/2014	ND	400	100	400	0.00	

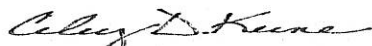
Sample ID: WB 3 - 8' (H401271-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7400	16.0	05/01/2014	ND	400	100	400	0.00	

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Celest D. Keene, Lab Director/Quality Manager

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 3 - 10' (H401271-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 3 - 12' (H401271-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9000	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 3 - 14' (H401271-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8100	16.0	05/01/2014	ND	400	100	400	0.00	

Sample ID: WB 3 - 16' (H401271-28)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7100	16.0	05/01/2014	ND	400	100	400	0.00		

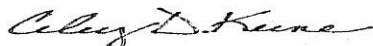
Sample ID: WB 3 - 18' (H401271-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	04/30/2014	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:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		


Sample ID: WB 3 - 20' (H401271-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	04/30/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

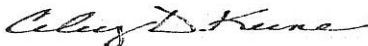
Notes and Definitions

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 D. Keene, Lab Director/Quality Manager



#5



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon
Company Name: Yates Petroleum Corporation
Company Address: 105 South 4th Street
City/State/Zip: Artesia, NM 88210
Telephone No: 575-748-4111
Sampler Signature: Amber Cannon

Project Name: Willbanks Ranch (6" FG Line)
Project #:
Project Loc: Eddy County

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205-2020

Fax No:
e-mail: acannon@yatespetroleum.com

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015S	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , 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	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
11	WB2-2'	2'	2'	4/28/2014	10:16 AM		1	X									S	X														X
12	WB2-4'	4'	4'	4/28/2014	10:18 AM		1	X									S	X														X
13	WB2-6'	6'	6'	4/28/2014	10:22 AM		1	X									S	X														X
14	WB2-8'	8'	8'	4/28/2014	10:25 AM		1	X									S	X														X
15	WB2-10'	10'	10'	4/28/2014	10:28 AM		1	X									S	X														X
16	WB2-12'	12'	12'	4/28/2014	10:33 AM		1	X									S															X
17	WB2-14'	14'	14'	4/28/2014	10:36 AM		1	X									S															X
18	WB2-16'	16'	16'	4/28/2014	10:40 AM		1	X									S															X
19	WB2-18'	18'	18'	4/28/2014	10:44 AM		1	X									S															X
20	WB2-20'	20'	20'	4/28/2014	10:50 AM		1	X									S															X

Special Instructions: TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Please put chlorides on a separate report Thank you.

PAGE 2 of 3

Relinquished by:	Date	Time	Received by:	Date	Time
Amber Cannon			Amber Cannon	4/28/14	10:50
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact? ☒ N

VOCs Free of Headspace? ☒ N

Labels on container(s) ☒ N

Custody seals on container(s) ☒ N

Custody seals on cooler(s) ☒ N

Sample Hand Delivered by Sampler/Client Rep. ? ☒ N

by Courier? ☒ N

UPS ☒ N

DHL ☒ N

FedEx ☒ N

Lone Star ☒ N

Temperature Upon Receipt: 0.0 °C

#54



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 05, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: WILBANKS RANCH (6" FG LINE)

Enclosed are the results of analyses for samples received by the laboratory on 04/29/14 10:30.

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Cardinal Laboratories is accredited 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.

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

Analytical Results For:

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

Received: 04/29/2014
Reported: 05/05/2014
Project Name: WILBANKS RANCH (6" FG LINE)
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WB 1 - 2' (H401271-01)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142

Surrogate: Toluene-d8 98.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 97.3 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2014	ND	190	94.9	200	1.62	
DRO >C10-C28	<10.0	10.0	04/30/2014	ND	206	103	200	0.365	

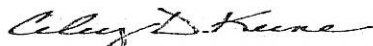
Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/29/2014
 Reported: 05/05/2014
 Project Name: WILBANKS RANCH (6" FG LINE)
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/28/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WB 1 - 4' (H401271-02)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 105 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2014	ND	190	94.9	200	1.62	
DRO >C10-C28	<10.0	10.0	04/30/2014	ND	206	103	200	0.365	

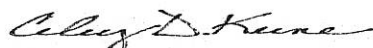
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 1 - 6' (H401271-03)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 98.6 % 61.3-142

Surrogate: Toluene-d8 97.9 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.6 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	04/30/2014	ND	210	105	200	2.67	

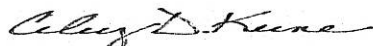
Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/29/2014
Reported: 05/05/2014
Project Name: WILBANKS RANCH (6" FG LINE)
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WB 1 - 8' (H401271-04)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 98.1 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.4 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	04/30/2014	ND	210	105	200	2.67	

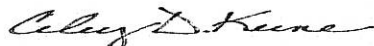
Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 1 - 10' (H401271-05)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane	99.9 %	61.3-142
Surrogate: Toluene-d8	93.2 %	71.3-129
Surrogate: 4-Bromofluorobenzene	98.5 %	65.7-141

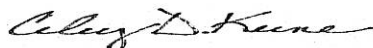
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	04/30/2014	ND	210	105	200	2.67	

Surrogate: 1-Chlorooctane	113 %	65.2-140
Surrogate: 1-Chlorooctadecane	106 %	63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 2 - 2' (H401271-11)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 98.1 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	04/30/2014	ND	210	105	200	2.67	

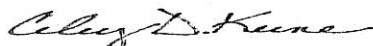
Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 2 - 4' (H401271-12)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane	104 %	61.3-142
Surrogate: Toluene-d8	101 %	71.3-129
Surrogate: 4-Bromofluorobenzene	101 %	65.7-141


TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	04/30/2014	ND	210	105	200	2.67	

Surrogate: 1-Chlorooctane	109 %	65.2-140
Surrogate: 1-Chlorooctadecane	106 %	63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 2 - 6' (H401271-13)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142
Surrogate: Toluene-d8 104 % 71.3-129
Surrogate: 4-Bromofluorobenzene 101 % 65.7-141


TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	04/30/2014	ND	210	105	200	2.67	

Surrogate: 1-Chlorooctane 109 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/29/2014
 Reported: 05/05/2014
 Project Name: WILBANKS RANCH (6" FG LINE)
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/28/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WB 2 - 8' (H401271-14)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142

Surrogate: Toluene-d8 99.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67	

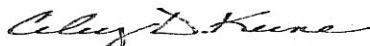
Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/29/2014
Reported: 05/05/2014
Project Name: WILBANKS RANCH (6" FG LINE)
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WB 2 - 10' (H401271-15)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 98.7 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 93.8 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67	

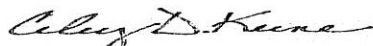
Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 3 - 2' (H401271-21)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142
Surrogate: Toluene-d8 99.7 % 71.3-129
Surrogate: 4-Bromofluorobenzene 97.9 % 65.7-141

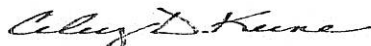
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67	

Surrogate: 1-Chlorooctane 107 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 3 - 4' (H401271-22)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67	

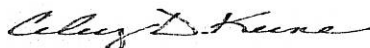
Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/29/2014
Reported: 05/05/2014
Project Name: WILBANKS RANCH (6" FG LINE)
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WB 3 - 6' (H401271-23)

BTEx 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67	

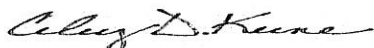
Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 3 - 8' (H401271-24)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane	105 %	61.3-142
Surrogate: Toluene-d8	101 %	71.3-129
Surrogate: 4-Bromofluorobenzene	98.9 %	65.7-141

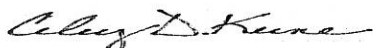
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67	

Surrogate: 1-Chlorooctane	116 %	65.2-140
Surrogate: 1-Chlorooctadecane	113 %	63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 3 - 10' (H401271-25)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142
Surrogate: Toluene-d8 98.9 % 71.3-129
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

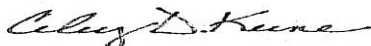
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67	

Surrogate: 1-Chlorooctane 110 % 65.2-140
Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 3 - 12' (H401271-26)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 98.3 % 61.3-142

Surrogate: Toluene-d8 98.4 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.2 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67	


Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 3 - 14' (H401271-27)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.062	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142
Surrogate: Toluene-d8 103 % 71.3-129
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141


TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67	

Surrogate: 1-Chlorooctane 115 % 65.2-140
Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 3 - 16' (H401271-28)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane	102 %	61.3-142
Surrogate: Toluene-d8	99.1 %	71.3-129
Surrogate: 4-Bromofluorobenzene	100 %	65.7-141

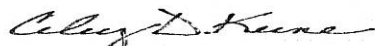
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67	

Surrogate: 1-Chlorooctane	114 %	65.2-140
Surrogate: 1-Chlorooctadecane	108 %	63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/29/2014	Sampling Date:	04/28/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WB 3 - 18' (H401271-29)

BTEX 8260B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 97.9 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 97.8 % 65.7-141


TPH 8015M	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34	
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67	

Surrogate: 1-Chlorooctane 109 % 65.2-140
Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/29/2014
Reported: 05/05/2014
Project Name: WILBANKS RANCH (6" FG LINE)
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WB 3 - 20' (H401271-30)

BTEx 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2014	ND	2.61	131	2.00	1.05	
Toluene*	<0.050	0.050	05/02/2014	ND	2.35	117	2.00	0.600	
Ethylbenzene*	<0.050	0.050	05/02/2014	ND	2.28	114	2.00	0.350	
Total Xylenes*	<0.150	0.150	05/02/2014	ND	7.02	117	6.00	0.899	
Total BTEX	<0.300	0.300	05/02/2014	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 98.3 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.2 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/01/2014	ND	190	94.9	200	1.34		
DRO >C10-C28	<10.0	10.0	05/01/2014	ND	210	105	200	2.67		

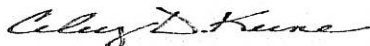
Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

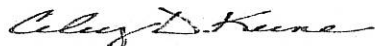
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Project Name: Wilbanks Ranch (6" FG Line)

Company Name: Yates Petroleum Corporation

Project #:

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 205-2020

Telephone No: 575-748-4111

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

Fax No: e-mail: acannon@yatespetroleum.com

(lab use only)

ORDER #: H401271

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , 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	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
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Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

1	WB1-2'	2'	2'	4/28/2014	9:33 AM	1	X										S	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Special Instructions: TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you.

PAGE 1 of 3

Laboratory Comments: VOCs Free of Headspace? Custody seals on container(s) Sample Hand Delivered by Courier? UPS DHL FedEx Lone Star

Relinquished by: Amber Cannon	Date	Time	Received by: [Signature]	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: ELOI:	Date	Time

#54

0.0 °C



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Fax No: _____

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

ORDER #: H401271

(to use only)

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

TPH:

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

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

Standard TAT

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 8015

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

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

Standard TAT

Special Instructions:

TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Please put chlorides on a separate report Thank you.

PAGE 3 of 3

Laboratory Comments:

Sample Containers Intact?

Y

VOCs Free of Headspace?

Y

Y

Labels on container(s)?

Y

Y

Custody seals on container(s)?

Y

Y

Sample Hand Delivered?

Y

Y

by Courier? UPS DHL FedEx Lone Star

Y

Y

Temperature Upon Receipt:

0.0

°C

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PAGE 3 of 3

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PAGE 3 of 3

PAGE 3 of 3

PAGE 3 of 3

PAGE 3 of 3

PAGE 3 of 3

#54

July 01, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: WILBANKS RANCH (6" FG LINE)

Enclosed are the results of analyses for samples received by the laboratory on 06/25/14 16:14.

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 accredited 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.

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

Analytical Results For:

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

 Received: 06/25/2014
 Reported: 07/01/2014
 Project Name: WILBANKS RANCH (6" FG LINE)
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 06/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: WB1-24' (H401921-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/30/2014	ND	416	104	400	0.00	

Sample ID: WB1-25' (H401921-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/30/2014	ND	416	104	400	0.00	

Sample ID: WB1-26' (H401921-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	06/30/2014	ND	416	104	400	0.00	


Sample ID: WB3-24' (H401921-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	06/30/2014	ND	416	104	400	0.00	

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/25/2014	Sampling Date:	06/24/2014
Reported:	07/01/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: WB3-25' (H401921-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/30/2014	ND	416	104	400	0.00	

Sample ID: WB3-26' (H401921-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/30/2014	ND	416	104	400	0.00	

Sample ID: WB3-27' (H401921-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/30/2014	ND	416	104	400	0.00	

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Celest D. Keene, Lab Director/Quality Manager

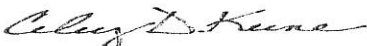
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Project Name: Wilbanks Ranch (6" FG Line)

Laboratory Comments:	
Sample Containers Intact?	N
VOCs Free of Headspace?	N
Labels on container(s)	<input checked="" type="checkbox"/> Y
Custody seals on container(s)	<input checked="" type="checkbox"/> Y
Custody seals on cooler(s)	<input checked="" type="checkbox"/> Y
Sample Hand Delivered	<input checked="" type="checkbox"/> Y
by Sampler/Client Rep. ?	N
by Courier? UPS DHL	N
Temperature Upon Receipt:	FedEx Lone Star 60 °C

July 31, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: WILBANKS RANCH (6" FG LINE)

Enclosed are the results of analyses for samples received by the laboratory on 07/24/14 13:10.

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 accredited 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.

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,



Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2014	Sampling Date:	07/23/2014
Reported:	07/31/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E #1 - 7' (H402270-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/29/2014	ND	384	96.0	400	4.08	

Sample ID: E #1 - 8' (H402270-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/29/2014	ND	384	96.0	400	4.08	

Sample ID: E #1 - 9' (H402270-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/25/2014	ND	416	104	400	3.92	

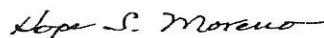
Sample ID: E #2 - 7' (H402270-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/25/2014	ND	416	104	400	3.92	

Cardinal Laboratories

* = Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2014	Sampling Date:	07/23/2014
Reported:	07/31/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E #2 - 8' (H402270-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/25/2014	ND	416	104	400	3.92	

Sample ID: E #2 - 9' (H402270-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	07/25/2014	ND	416	104	400	3.92		

Sample ID: E #3 - 7' (H402270-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/25/2014	ND	416	104	400	3.92	

Sample ID: E #3 - 8' (H402270-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	07/25/2014	ND	416	104	400	3.92	

Sample ID: E #3 - 9' (H402270-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	07/25/2014	ND	416	104	400	3.92		

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*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

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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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Wilbanks Ranch (6" FG Line)

Project #:

Project Loc: Eddy County

PO #: 205-2020

(lab use only)

ORDER #: H402270

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , 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	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	E #1-7'	7'	7'	7/23/2014	1:30 PM		1									S															X
2	E #1-8'	8'	8'	7/23/2014	1:40 PM		1									S															X
3	E #1-9'	9'	9'	7/23/2014	1:50 PM		1									S															X
4	E #2-7'	7'	7'	7/23/2014	2:00 PM		1									S															X
5	E #2-8'	8'	8'	7/23/2014	2:10 PM		1									S															X
6	E #2-9'	9'	9'	7/23/2014	2:20 PM		1									S															X
7	E #3-7'	7'	7'	7/23/2014	2:30 AM		1									S															X
8	E #3-8'	8'	8'	7/23/2014	2:40 AM		1									S															X
9	E #3-9'	9'	9'	7/23/2014	2:50 AM		1									S															X

Special Instructions:

Relinquished by: Amber Cannon

Date: 7/24/14

Time:

Received by: Abdeli Alender

Date: 7/24/14

Time: 1:10

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Relinquished by:

Date:

Time:

Received by: ELOT:

Date:

Time:

Laboratory Comments:

Sample Containers Intact? ☒

VOCs Free of Headspace? ☒

Labels on container(s) ☒

Custody seals on container(s) ☒

Sample Hand Delivered ☒

by Courier? ☒

UPS ☒

DHL ☒

FedEx ☒

Lone Star ☒

Temperature Upon Receipt: 26.02 °C

#54



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 12, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: WILBANKS RANCH (6" FG LINE)

Enclosed are the results of analyses for samples received by the laboratory on 08/06/14 14:30.

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 accredited 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.

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

Analytical Results For:

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

Received:	08/06/2014	Sampling Date:	07/23/2014
Reported:	08/12/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E #3-1' (H402420-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/07/2014	ND	400	100	400	0.00	

Sample ID: E #3-2' (H402420-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2014	ND	400	100	400	0.00	

Sample ID: E #3-3' (H402420-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/07/2014	ND	400	100	400	0.00	

Sample ID: E #3-4' (H402420-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/07/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/06/2014	Sampling Date:	07/23/2014
Reported:	08/12/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E #3-5' (H402420-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/07/2014	ND	400	100	400	0.00	

Sample ID: E #3-6' (H402420-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/07/2014	ND	400	100	400	0.00	

Sample ID: E #3-10' (H402420-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	08/07/2014	ND	400	100	400	0.00	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
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***	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, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 15, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: WILBANKS RANCH (6" FG LINE)

Enclosed are the results of analyses for samples received by the laboratory on 08/14/14 11:30.

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 accredited 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.

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

Analytical Results For:

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

Received:	08/14/2014	Sampling Date:	08/11/2014
Reported:	08/15/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E #4-1' (H402497-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #4-2' (H402497-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #4-3' (H402497-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #4-4' (H402497-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/15/2014	ND	416	104	400	3.92	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/14/2014	Sampling Date:	08/11/2014
Reported:	08/15/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E #4-5' (H402497-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #4-6' (H402497-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #4-7' (H402497-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #4-8' (H402497-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #4-9' (H402497-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/15/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/14/2014	Sampling Date:	08/11/2014
Reported:	08/15/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E #5-1' (H402497-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #5-2' (H402497-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #5-3' (H402497-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #5-4' (H402497-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #5-5' (H402497-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/15/2014	ND	416	104	400	3.92	

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/14/2014	Sampling Date:	08/11/2014
Reported:	08/15/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E #5-6' (H402497-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #5-7' (H402497-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #5-8' (H402497-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: E #5-9' (H402497-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2014	ND	416	104	400	3.92	

Sample ID: STOCK PILE NORTH (H402497-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	08/15/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/14/2014	Sampling Date:	08/11/2014
Reported:	08/15/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		


Sample ID: STOCK PILE SOUTH (H402497-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	08/15/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

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 D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

Project Name: Wilbanks Ranch (6" FG Line)

Project #:

Project Loc: Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: H402497

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	Matrix	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Sa	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	E #4-1'	1'	1'	8/11/2014	11:44 AM		1									S															
2	E #4-2'	2'	2'	8/11/2014	11:46 AM		1									S															
3	E #4-3'	3'	3'	8/11/2014	11:50 AM		1									S															
4	E #4-4'	4'	4'	8/11/2014	11:52 AM		1									S															
5	E #4-5'	5'	5'	8/11/2014	11:55 AM		1									S															
6	E #4-6'	6'	6'	8/11/2014	11:58 AM		1									S															
7	E #4-7'	7'	7'	8/11/2014	12:03 PM		1									S															
8	E #4-8'	8'	8'	8/11/2014	12:07 PM		1									S															
9	E #4-9'	9'	9'	8/11/2014	12:16 PM		1									S															
10	E #5-1'	1'	1'	8/11/2014	12:22 PM		1									S															

Special Instructions: Page 1 of 2

Relinquished by: Amber Cannon Date: 8/14/14 Time: 11:30

Relinquished by: Amber Cannon Date: 8/14/14 Time: 11:30

Relinquished by: Amber Cannon Date: 8/14/14 Time: 11:30

Received by: Amber Cannon

Date: 8/14/14 Time: 11:30

Received by ELDT:

Date: 8/14/14 Time: 11:30

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 20.20 °C



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

Project Name: Wilbanks Ranch (6" FG Line)

Project #:

Project Loc: Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: H402497

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , 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	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
11	E #5-2'	2'	2'	8/11/2014	12:24 PM		1									S																
12	E #5-3'	3'	3'	8/11/2014	12:26 PM		1									S																
13	E #5-4'	4'	4'	8/11/2014	12:28 PM		1									S																
14	E #5-5'	5'	5'	8/11/2014	12:03 PM		1									S																
15	E #5-6'	6'	6'	8/11/2014	12:32 PM		1									S																
16	E #5-7'	7'	7'	8/11/2014	12:35 PM		1									S																
17	E #5-8'	8'	8'	8/11/2014	12:38 PM		1									S																
18	E #5-9'	9'	9'	8/11/2014	12:42 PM		1									S																
19	Stock Pile North	-	-	8/11/2014	1:06 PM		1									S																
20	Stock Pile South	-	-	8/11/2014	1:07 PM		1									S																

Reinquired by: Amber Cannon Date: 8/14/14 Time: 11:30 Received by: John Hernandez Date: 8/14/14 Time: 11:30

Reinquired by: Date: Time: Received by: Date: Time:

Reinquired by: Date: Time: Received by: Date: Time:

Special Instructions: Page 2 of 2

Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Labels on container(s)? Custody seals on container(s)? Custody seals on cooler(s)? Sample Hand Delivered by Sampler/Client Rep.? UPS DHL FedEx Lone Star Temperature Upon Receipt: 20.2 °C



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

September 11, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: WILBANKS RANCH (6" FG LINE)

Enclosed are the results of analyses for samples received by the laboratory on 09/04/14 10:15.

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 accredited 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.

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

Analytical Results For:

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

 Received: 09/04/2014
 Reported: 09/11/2014
 Project Name: WILBANKS RANCH (6" FG LINE)
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/02/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Kathy Perez

Sample ID: S #7-1 (H402735-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2014	ND	400	100	400	0.00	

Sample ID: S #7-3 (H402735-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/09/2014	ND	400	100	400	0.00	

Sample ID: S #7-5 (H402735-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: S #7-7 (H402735-04)

Chloride, SM4500Cl-B		mg / kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/10/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/04/2014
Reported: 09/11/2014
Project Name: WILBANKS RANCH (6" FG LINE)
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 09/02/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

Sample ID: S #7-9 (H402735-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: S #9-1 (H402735-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: S #9-3 (H402735-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: S #9-5 (H402735-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: S #9-7 (H402735-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/10/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S #9-9 (H402735-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: SW #11-1 (H402735-11)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: SW #11-3 (H402735-12)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: SW #11-5 (H402735-13)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: SW #11-7 (H402735-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/10/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 09/04/2014
 Reported: 09/11/2014
 Project Name: WILBANKS RANCH (6" FG LINE)
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/02/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Kathy Perez

Sample ID: SW #11-9 (H402735-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: S #6-1 (H402735-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/10/2014	ND	416	104	400	0.00		

Sample ID: S #6-3 (H402735-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: S #6-5 (H402735-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: S #6-7 (H402735-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5760	16.0	09/10/2014	ND	416	104	400	0.00		

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Analytical Results For:

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S #6-9 (H402735-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: S #8-1 (H402735-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	09/10/2014	ND	416	104	400	0.00		

Sample ID: S #8-3 (H402735-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/10/2014	ND	416	104	400	0.00		

Sample ID: S #8-5 (H402735-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: S #8-7 (H402735-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/10/2014	ND	416	104	400	0.00	

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Analytical Results For:

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S #8-9 (H402735-25)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: SW #10-1 (H402735-26)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: SW #10-3 (H402735-27)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: SW #10-5 (H402735-28)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: SW #10-7 (H402735-29)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	09/10/2014	ND	416	104	400	0.00	

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Analytical Results For:

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: SW #10-9 (H402735-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: N #14-1 (H402735-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: N #14-3 (H402735-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/10/2014	ND	416	104	400	0.00		

Sample ID: N #14-5 (H402735-33)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/10/2014	ND	416	104	400	0.00		

Sample ID: N #14-7 (H402735-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/10/2014	ND	416	104	400	0.00		

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Analytical Results For:

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: N #14-9 (H402735-35)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/10/2014	ND	416	104	400	0.00		

Sample ID: N #13-1 (H402735-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/10/2014	ND	416	104	400	0.00		

Sample ID: N #13-3 (H402735-37)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/10/2014	ND	416	104	400	0.00		

Sample ID: N #13-5 (H402735-38)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/10/2014	ND	416	104	400	0.00		

Sample ID: N #13-7 (H402735-39)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/10/2014	ND	416	104	400	0.00		

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Analytical Results For:

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: N #13-9 (H402735-40)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: N #12-1 (H402735-41)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/10/2014	ND	416	104	400	0.00	

Sample ID: N #12-3 (H402735-42)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/10/2014	ND	416	104	400	0.00		

Sample ID: N #12-5 (H402735-43)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/10/2014	ND	432	108	400	3.77	

Sample ID: N #12-7 (H402735-44)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/10/2014	ND	432	108	400	3.77	

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Analytical Results For:

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	WILBANKS RANCH (6" FG LINE)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: N #12-9 (H402735-45)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/10/2014	ND	432	108	400	3.77		

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Mariand, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

Project Name: Wilbanks Ranch (6" FG Line)

Project #:

Project Loc: Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Analyze For:

ORDER #: H408735

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , 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	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1		S #7-1	1'	1'	9/2/2014	8:50 AM		1										S														X	
2		S #7-3	3'	3'	9/2/2014	8:52 AM		1										S														X	
3		S #7-5	5'	5'	9/2/2014	8:55 AM		1										S														X	
4		S #7-7	7'	7'	9/2/2014	12:00 AM		1										S														X	
5		S #7-9	9'	9'	9/2/2014	9:07 AM		1										S														X	
6		S #9-1	1'	1'	9/2/2014	9:14 AM		1										S														X	
7		S #9-3	3'	3'	9/2/2014	9:21 AM		1										S														X	
8		S #9-5	5'	5'	9/2/2014	9:29 AM		1										S														X	
9		S #9-7	7'	7'	9/2/2014	9:46 AM		1										S														X	
10		S #9-9	9'	9'	9/2/2014	10:59 AM		1										S														X	

Special Instructions:

Page 1 of 5

Reinquired by:

Reinquired by:

Reinquired by:

Date

Date

Date

Time

Time

Time

Received by:

Received by:

Received by ELOI:

Date

Date

Date

Time

Time

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Sample Hand Delivered by Courier?

UPS DHL FedEx Lone Star

Temperature Upon Receipt:

24.0 °C

Hand



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Fax No:

Sampler Signature: Amber Cannon

e-mail:

acannon@yatespetroleum.com

Project Name: Wilbanks Ranch (6" FG Line)

Project #:

Project Loc: Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 80218/5030 or BTEX 8260	RCI	N.O.R.M	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
11	SW #11-1	1'	1'	9/2/2014	11:06 AM		1									S																X
12	SW #11-3	3'	3'	9/2/2014	11:09 AM		1									S																X
13	SW #11-5	5'	5'	9/2/2014	11:14 AM		1									S																X
14	SW #11-7	7'	7'	9/2/2014	11:19 AM		1									S																X
15	SW #11-9	9'	9'	9/2/2014	11:25 AM		1									S																X
16	S #6-1	1'	1'	9/2/2014	12:03 PM		1									S																X
17	S #6-3	3'	3'	9/2/2014	12:04 PM		1									S																X
18	S #6-5	5'	5'	9/2/2014	12:07 PM		1									S																X
19	S #6-7	7'	7'	9/2/2014	12:08 PM		1									S																X
20	S #6-9	9'	9'	9/2/2014	12:10 PM		1									S																X

Special Instructions: Page 2 of 5

Relinquished by: Amber Cannon Date: 9/4/14 Time: 10:15 Received by: Jeffery J. Long Date: 9/4/14 Time: 10:15

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received by: Date: Time:

Temperature Upon Receipt: 24.0 °C

Laboratory Comments:
Sample Containers Intact? ☒
VOCs Free of Headspace? ☒
Labels on container(s) ☒
Custody seals on container(s) ☒
Custody seals on cooler(s) ☒
Sample Hand Delivered ☒
by Sampler/Client Rep. ? ☒
by Courier? ☐ UPS ☐ DHL ☐ FedEx ☐ Lone Star



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Sampler Signature: Amber Cannon

Fax No: 575-748-4111
e-mail: acannon@yatespetroleum.com

Project Name: Wilbanks Ranch (6" FG Line)

Project #:

Project Loc: Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , 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	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
21	S #8-1	1'	1'	9/2/2014	12:20 PM		1																											
22	S #8-3	3'	3'	9/2/2014	12:32 PM		1																											
23	S #8-5	5'	5'	9/2/2014	12:34 PM		1																											
24	S #8-7	7'	7'	9/2/2014	12:36 PM		1																											
25	S #8-9	9'	9'	9/2/2014	12:38 PM		1																											
26	SW #10-1	1'	1'	9/2/2014	12:45 PM		1																											
27	SW #10-3	3'	3'	9/2/2014	12:46 PM		1																											
28	SW #10-5	5'	5'	9/2/2014	12:49 PM		1																											
29	SW #10-7	7'	7'	9/2/2014	12:52 PM		1																											
30	SW #10-9	9'	9'	9/2/2014	12:55 PM		1																											

Special Instructions: Page 3 of 5

Relinquished by: Amber Cannon Date: 9/4/14 Time: 10:5
Relinquished by: John Jones Date: 9/4/14 Time: 10:5
Relinquished by: John Jones Date: 9/4/14 Time: 10:5

Laboratory Comments:
Sample Containers Intact?
VOCs Free of Headspace?
Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler/Client Rep.?
by Cochrane? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 24.0 °C



ARDINAL LABORATORIES
101 East Merland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205-2020

Project Name: Wilbanks Ranch (6" FG Line)

Project #:

Project Loc: Eddy County

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 80218/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT			
31		N #14-1	1'	1'	9/2/2014	1:25 PM		1										S																	
32		N #14-3	3'	3'	9/2/2014	1:26 PM		1										S																	
33		N #14-5	5'	5'	9/2/2014	1:28 PM		1										S																	
34		N #14-7	7'	7'	9/2/2014	1:31 PM		1										S																	
35		N #14-9	9'	9'	9/2/2014	1:40 PM		1										S																	
36		N #13-1	1'	1'	9/2/2014	1:42 PM		1										S																	
37		N #13-3	3'	3'	9/2/2014	1:44 PM		1										S																	
38		N #13-5	5'	5'	9/2/2014	1:46 PM		1										S																	
39		N #13-7	7'	7'	9/2/2014	1:48 PM		1										S																	
40		N #13-9	9'	9'	9/2/2014	1:50 PM		1										S																	

Special Instructions:

Page 4 of 5

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by ELDT:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCS Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Sample Hand Delivered

by Counter? UPS DHL FedEx Lone Star

Temperature Upon Receipt:

24.0 °C



ARDINAL LABORATORIES
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111

Sampler Signature: *Amber Cannon*

e-mail: acannon@yatespetroleum.com

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Wilbanks Ranch (6" FG Line)

Project #:

Project Loc: Eddy County

PO #: 205-2020

(lab use only)

ORDER #:

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 8015

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

RCl

N.O.R.M.

Chlorides

SAR

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

Standard TAT

Preservation & # of Containers

Matrix

Analyze For:

TCLP

TOTAL

Special Instructions:

Page 5 of 5

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by ELOT:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Sample Hand-Delivered

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:

24.0 °C