February 4, 2013

Mr. Mike Bratcher
Oil Conservation Division
Artesia, NM

Re: Nix GP/Lawrence Battery
30-015-21910
Section 22, T18S-R26E
Eddy County, New Mexico

Dear Mr. Bratcher:

Yates Petroleum Corp. would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated October 4, 2012.

If you have any questions call me at 575-748-4311

Thank you.

Yates Petroleum Corporation

Jeremy Haass
Environmental Regulatory Agent

Enclosure(s):

Diagram of Spill with Equipment
Diagram of Spill with Sample points
Google Earth Image of location and Upgrade Well
Analytical Summary Reports
Analytical Report H202544, H202664, H202734, 454862, H300278

Yates Petroleum Corporation

Nix GP/Lawrence Battery Work Plan

Section 22, T18S-R26E

Eddy County, New Mexico

February 4, 2013

I. Location

Go south on Hwy. 285 turn East (left) on Dayton Rd. then go approx. 1.4 miles turn North (left) on lease road then immediately turn East (right) and follow road to location.

II. Background

On September 22, 2012 a release occurred of 450 B/PW of which 4000 B/PW was recovered. Yates submitted a C-141 on October 4, 2012 to the NMOCD District II office. The total affected area was 60 feet x 30 feet. Initial delineation samples were taken (1016/12) and sent to an NMOCD approved laboratory (10/18/12 results enclosed).

III. Surface and Ground Water

Area surface geology is Cenozoic. The nearest Depth to Groundwater record listed on the New Mexico Office of the State Engineer (Section 22, T18S-R26E) shows depth of groundwater to be approximately 72 feet. After finding wet soil during core sampling at 54 feet YPC went upgrade of the spill and drilled a monitor well that established ground water at 85 feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

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

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

IV. Soils

The area consists of soils that are caliche and interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

V. Scope of Work

After consulting with OCD District II Environmental Specialist Mike Bratcher Yates Petroleum Corp. performed the following:

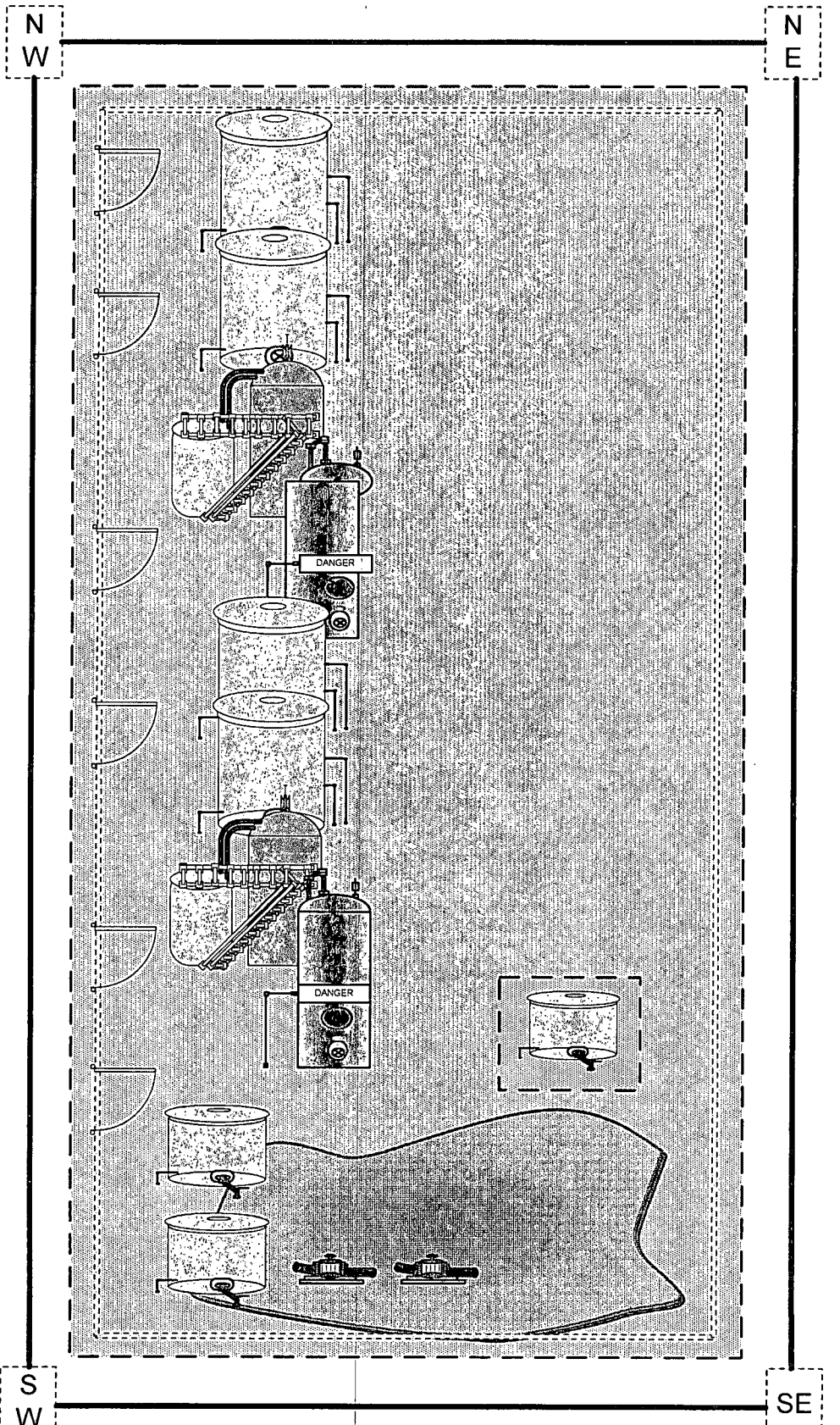
- The first foot of impacted material was excavated and taken to a NMOCD approved facility for disposal.
- The excavation site was divided into four sections (S1, S2, S3, and S4).
    - Initial sampling was done with a backhoe to a total depth of S1 = 16', S2 = 16', S3 = 14', S4 = 7'.
    - Once analytical data was received from the lab (see attached), additional soil was removed in the four areas to the following depths S1 = 7', S2 = 7', S3 = 1', S4 = 3'.
    - The additional impacted material was also removed.
    - Yates submitted and received verbal approval from Mike Bratcher for the initial "Work Plan" dated November 16, 2012.

- As per the approved "Work Plan" the excavated area was then backfilled and a coring rig was brought in to further delineate the vertical extent of chlorides in the impacted area. Samples were pulled with a split spoon auger starting at 24' and ending at 54' approximately every 3'.
    - The soil was a marbled mix of clay and caliche. Drilling was stopped at 54' because the soil became wet. The hole was then cased and 10' of screen was left at the bottom of the hole to allow any water to fill the bore. The next week the hole was checked and no water was found. Since the "Bottom" of chlorides was not found at 54' Yates was directed by Mike Bratcher to step out of the impacted area and drill two monitor wells, one upgrade and the other downgrade of the impacted area. The purpose of the monitor wells was first to establish depth to ground water (OSE records show 72') and to determine if the spill had impacted ground water.
    - Drilling commenced on the upgrade well on January 29, 2012 to a total depth of 90'. Yates encountered the same marbled clay to a depth of 60' where the soil changed to very thick and compact clay that ran the total depth of 90'. The monitor well determined that ground water is actually at a depth of 85' and wet soil found in the core sampling hole was a perched water pocket. A soil sample was pulled from this well at 10' for a background sample and the results were 272 ppm chlorides.
    - Due to the depth of ground water (85'), the dense clay found at 60', and the verbal approval of Mike Bratcher, Yates determined that it would be safe to continue to drill in the 54' core sampling hole in the impacted area to perhaps find a bottom rather than drilling a second monitor well. Once the rig was moved and the hole was deepened samples were taken at 60', 65', and 71'. The same thick clay was found as in the upgradient monitor well.
    - With the analytical results being within RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of Ten (10), the cap of clean material that was backfilled, and a 20 mil liner that has been placed over the impacted area to impede further migration of chlorides and to protect against future releases Yates will submit analytical results, and request closure of the site.

YATES PETROLEUM CORPORATION

11/16/2012

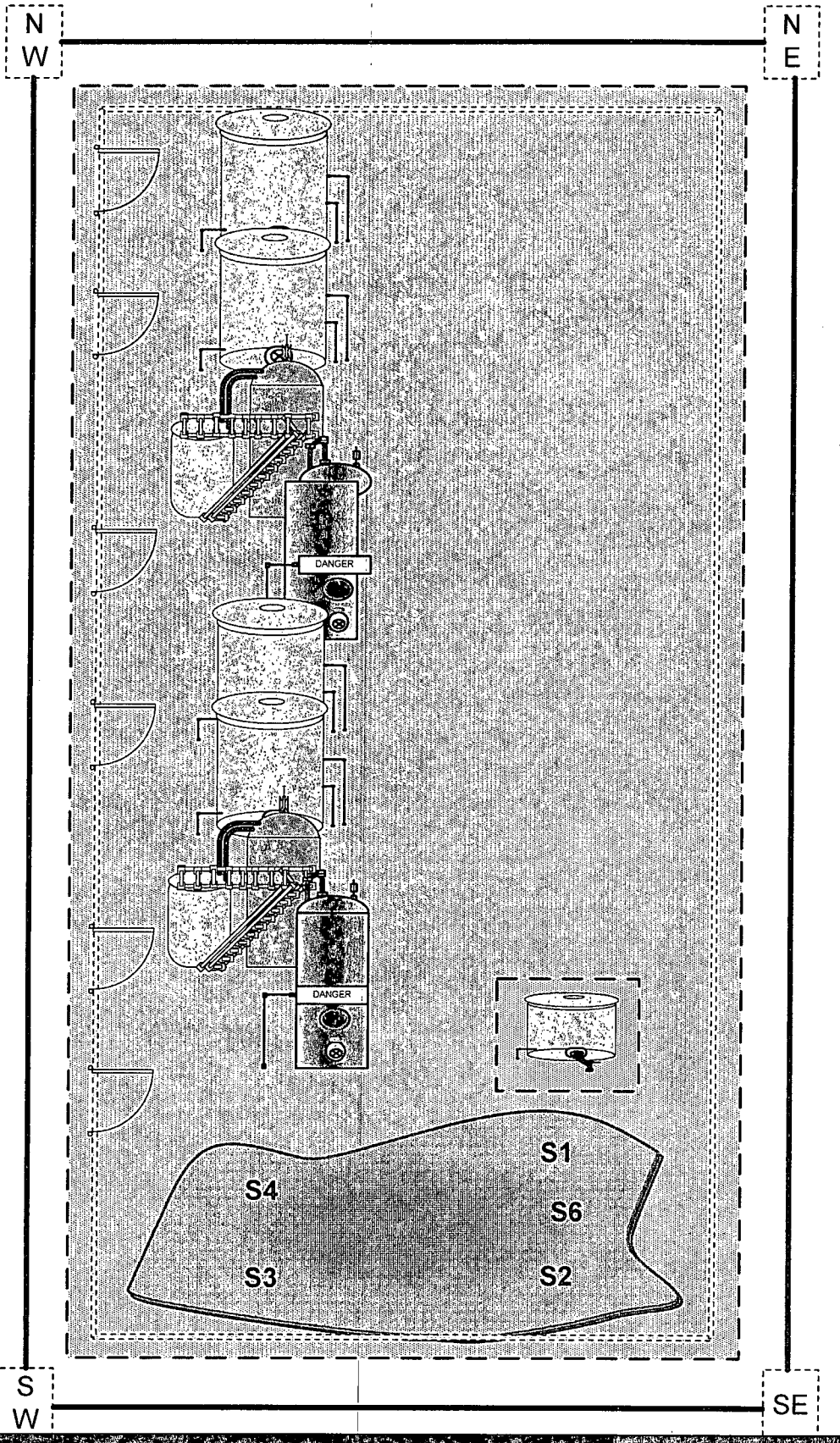
NIX GP/Lawrence Battery
API # 30-015-21910

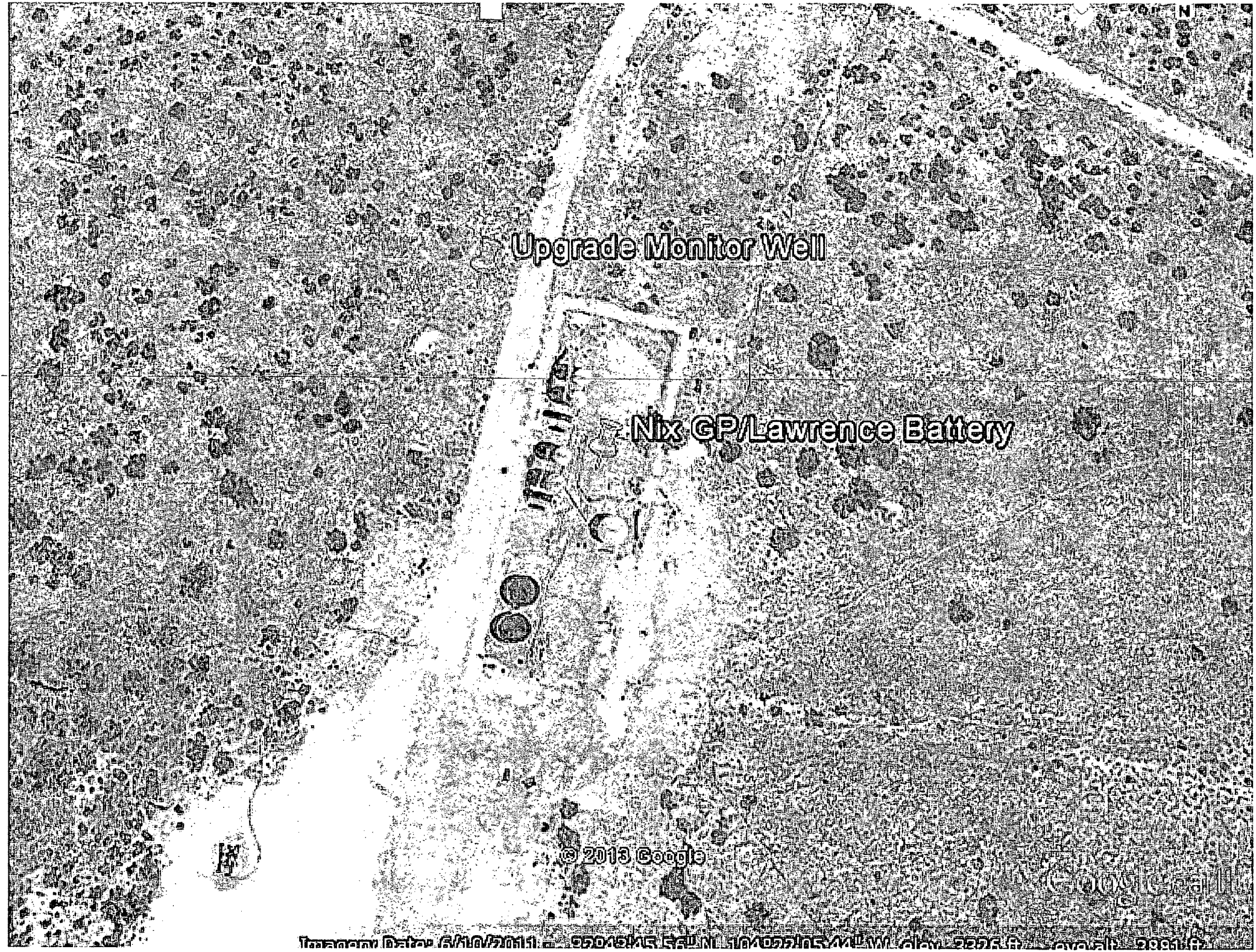


YATES PETROLEUM CORPORATION

11/16/2012

NIX GP/Lawrence Battery
API # 30-015-21910




Upgrade Monitor Well
Nix GP/Lawrence Battery
© 2013 Google

Analytical Report- H202544 & 664 & 734	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
*S1 3'	10/17/2012	3'	.24	ND	ND	ND	13200
*S1 5'	10/17/2012	5'	ND	ND	ND	ND	9800
*S1 7'	10/17/2012	7'	ND	ND	ND	ND	6500
S1 10'	11/7/2012	10'	-	-	-	-	640
S1 12'	11/7/2012	12'	-	-	-	-	624
S1 14'	11/7/2012	14'	-	-	-	-	1180
S1 16'	11/7/2012	16'	-	-	-	-	9860

*S2 3'	10/17/2012	3'	116.78	778	263	1041	6800
*S2 5'	10/17/2012	5'	ND	ND	ND	ND	2240
*S2 7'	10/17/2012	7'	ND	ND	ND	ND	6400
S2 10'	11/7/2012	10'	-	-	-	-	8400
S2 12'	11/7/2012	12'	-	-	-	-	10300
S2 14'	11/7/2012	14'	-	-	-	-	22600
S2 16'	11/7/2012	16'	-	-	-	-	10900

S3 3'	10/31/2012	3'	.236	ND	ND	ND	2080
S3 5'	10/31/2012	5'	ND	ND	ND	ND	6640
S3 7'	10/31/2012	7'	ND	ND	ND	ND	5760
S3 10'	11/7/2012	10'	-	-	-	-	6660
S3 12'	11/7/2012	12'	-	-	-	-	5520
S3 14'	11/7/2012	14'	-	-	-	-	7040

S4 3'	10/31/2012	3'	ND	ND	2450	2450	192
S4 5'	10/31/2012	5'	ND	ND	ND	ND	112
S4 7'	10/31/2012	7'	ND	ND	ND	ND	144

Site Ranking is Zero (10). Depth to Ground Water <100' (approx. 85', per Drilled Well).

All results are ppm.Chlorides for documentation.

Released: 450 B/PW; Recovered: 400 B/PW. Release Date: 9/22/2012

Removed and Hauled

Coring Hole

	Analytical Report-454862 & H300278	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Marbled/Clay	S6 24'	12/20/2012	24'	-	-	-	-	1180
Marbled/Clay	S6 27'	12/20/2012	27'	-	-	-	-	3150
Marbled/Clay	S6 30'	12/20/2012	30'	-	-	-	-	9060
Marbled/Clay	S6 33'	12/20/2012	33'	-	-	-	-	4060
Marbled/Clay	S6 36'	12/20/2012	36'	-	-	-	-	5570
Marbled/Clay	S6 42'	12/20/2012	42'	-	-	-	-	7500
Marbled/Clay	S6 45'	12/20/2012	45'	-	-	-	-	8280
Marbled/Clay	S6 48'	12/20/2012	48'	-	-	-	-	4530
Marbled/Clay	S6 51'	12/20/2012	51'	-	-	-	-	6200
Marbled/Clay	S6 54'	12/20/2012	54'	-	-	-	-	11400

Deeper Coring

Solid/Clay	B-1 60'	1/29/2013	60'	-	-	-	-	8400
Solid/Clay	B-1 65'	1/29/2013	65'	-	-	-	-	512
Solid/Clay	B-1 71'	1/29/2013	71'	-	-	-	-	304

Upgrade Background Sample

MW-1 10'	1/29/2013	10'	-	-	-	-	272

Site Ranking is Zero (10). Depth to Ground Water <100' (approx. 85', per Drilled Well).

All results are ppm.Chlorides for documentation.

Released: 450 B/PW; Recovered: 400 B/PW. Release Date: 9/22/2012

CARDINAL Laboratories

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

October 24, 2012

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: NIX GP BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/18/12 12:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/18/2012	Sampling Date:	10/17/2012
Reported:	10/24/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY		

Sample ID: S1 3' (H202544-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.150**	0.050	10/23/2012	ND	1.98	99.0	2.00	2.23	
Toluene*	**0.090**	0.050	10/23/2012	ND	2.15	108	2.00	2.85	
Ethylbenzene*	<0.050	0.050	10/23/2012	ND	2.16	108	2.00	2.30	
Total Xylenes*	<0.150	0.150	10/23/2012	ND	6.54	109	6.00	2.75	

Surrogate: 4-Bromofluorobenzene (PID *103 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**13200**	16.0	10/19/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	10/19/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	<50.0	50.0	10/19/2012	ND	159	79.4	200	9.04	

Surrogate: 1-Chlorooctane *75.9 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *83.1 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/18/2012	Sampling Date:	10/17/2012
Reported:	10/24/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY		

Sample ID: S1 5' (H202544-02)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2012	ND	1.76	88.1	2.00	0.795	
Toluene*	<0.050	0.050	10/23/2012	ND	1.93	96.6	2.00	1.35	
Ethylbenzene*	<0.050	0.050	10/23/2012	ND	1.93	96.7	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/23/2012	ND	5.85	97.6	6.00	2.00	

Surrogate: 4-Bromofluorobenzene (PIL *103 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**9800**	16.0	10/19/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/19/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	<10.0	10.0	10/19/2012	ND	159	79.4	200	9.04	

Surrogate: 1-Chlorooctane *76.8 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *80.3 %* *63.6-154*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/18/2012	Sampling Date:	10/17/2012
Reported:	10/24/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY		

Sample ID: S1 7' (H202544-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2012	ND	1.76	88.1	2.00	0.795	
Toluene*	<0.050	0.050	10/23/2012	ND	1.93	96.6	2.00	1.35	
Ethylbenzene*	<0.050	0.050	10/23/2012	ND	1.93	96.7	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/23/2012	ND	5.85	97.6	6.00	2.00	

Surrogate: 4-Bromofluorobenzene (PID *103 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6500**	16.0	10/19/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/19/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	<10.0	10.0	10/19/2012	ND	159	79.4	200	9.04	

Surrogate: 1-Chlorooctane *74.4 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *78.1 %* *63.6-154*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/18/2012	Sampling Date:	10/17/2012
Reported:	10/24/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY		

Sample ID: S2 3' (H202544-04)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**10.3**	1.00	10/24/2012	ND	1.76	88.1	2.00	0.795	
Toluene*	**53.3**	1.00	10/24/2012	ND	1.93	96.6	2.00	1.35	
Ethylbenzene*	**9.98**	1.00	10/24/2012	ND	1.93	96.7	2.00	1.60	
Total Xylenes*	**43.2**	3.00	10/24/2012	ND	5.85	97.6	6.00	2.00	

Surrogate: 4-Bromofluorobenzene (PID *107 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6800**	16.0	10/19/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**778**	50.0	10/20/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	**263**	50.0	10/20/2012	ND	159	79.4	200	9.04	

Surrogate: 1-Chlorooctane *88.4 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *102 %* *63.6-154*

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*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/18/2012	Sampling Date:	10/17/2012
Reported:	10/24/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY		

Sample ID: S2 5' (H202544-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2012	ND	1.76	88.1	2.00	0.795	
Toluene*	<0.050	0.050	10/23/2012	ND	1.93	96.6	2.00	1.35	
Ethylbenzene*	<0.050	0.050	10/23/2012	ND	1.93	96.7	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/23/2012	ND	5.85	97.6	6.00	2.00	

Surrogate: 4-Bromofluorobenzene (PIL *105 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2240**	16.0	10/19/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/20/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	<10.0	10.0	10/20/2012	ND	159	79.4	200	9.04	

Surrogate: 1-Chlorooctane *79.5 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *84.4 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/18/2012	Sampling Date:	10/17/2012
Reported:	10/24/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY		

Sample ID: S2 7' (H202544-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2012	ND	1.76	88.1	2.00	0.795	
Toluene*	<0.050	0.050	10/23/2012	ND	1.93	96.6	2.00	1.35	
Ethylbenzene*	<0.050	0.050	10/23/2012	ND	1.93	96.7	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/23/2012	ND	5.85	97.6	6.00	2.00	

Surrogate: 4-Bromofluorobenzene (PID *103 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6400**	16.0	10/19/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/20/2012	ND	166	83.2	200	5.81	
DRO >C10-C28	<10.0	10.0	10/20/2012	ND	159	79.4	200	9.04	

Surrogate: 1-Chlorooctane *77.8 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *83.4 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: YPC	BILL TO
Project Manager: Jeremy Haass	P.O. #: 103-2636
Address:	Company: YPC
City: Artesia State: NM Zip: 88210	Attn: Jeremy Haass
Phone #: Fax #:	Address:
Project #: Project Owner: Jeremy Haass	City:
Project Name: Nix GP Battery	State: Zip:
Project Location: Eddy	Phone #:
Sampler Name: Jeremy Haass	Fax #:

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH & BTEX	Chloride
H202544-																
01	S1 3'					X					X		10/17		X	X
02	S1 5'					X					X		10/17		X	X
03	S1 7'					X					X		10/17		X	X
04	S2 3'					X					X		10/17		X	X
05	S2 5'					X					X		10/17		X	X
06	S2 7'					X					X		10/17		X	X

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 10/18	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 12:12		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 2°C

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) CdL

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#26

CARDINAL Laboratories

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

November 02, 2012

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: NIX GP BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/01/12 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	11/01/2012	Sampling Date:	10/31/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S3 3' (H202664-01)

BTEX 8021B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.083**	0.050	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	**0.153**	0.050	11/02/2012	ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2080**	16.0	11/02/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	<10.0	10.0	11/02/2012	ND	200	100	200	4.46	

Surrogate: 1-Chlorooctane *86.6 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *96.2 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	11/01/2012	Sampling Date:	10/31/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S3 5' (H202664-02)

BTEX 8021B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	<0.050	0.050	11/02/2012	ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6640**	16.0	11/02/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	<10.0	10.0	11/02/2012	ND	200	100	200	4.46	

Surrogate: 1-Chlorooctane *88.2 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *97.1 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	11/01/2012	Sampling Date:	10/31/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S3 7' (H202664-03)

BTEX 8021B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.050**	0.050	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	<0.050	0.050	11/02/2012	ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIL *108 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5760**	16.0	11/02/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	<10.0	10.0	11/02/2012	ND	200	100	200	4.46	

Surrogate: 1-Chlorooctane *81.2 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *88.1 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	11/01/2012	Sampling Date:	10/31/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S4 3' (H202664-04)

BTEX 8021B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	<0.050	0.050	11/02/2012	ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	11/02/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS** **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	**2450**	50.0	11/02/2012	ND	200	100	200	4.46	

Surrogate: 1-Chlorooctane *84.5 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *164 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	11/01/2012	Sampling Date:	10/31/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S4 5' (H202664-05)

BTEX 8021B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	<0.050	0.050	11/02/2012	ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIL *106 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	11/02/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	<10.0	10.0	11/02/2012	ND	200	100	200	4.46	

Surrogate: 1-Chlorooctane *93.1 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *103 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	11/01/2012	Sampling Date:	10/31/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S4 7' (H202664-06)

BTEX 8021B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2012	ND	1.91	95.6	2.00	19.9	
Toluene*	<0.050	0.050	11/02/2012	ND	2.09	104	2.00	18.6	
Ethylbenzene*	<0.050	0.050	11/02/2012	ND	2.10	105	2.00	17.8	
Total Xylenes*	<0.150	0.150	11/02/2012	ND	6.34	106	6.00	17.7	
Total BTEX	<0.300	0.300	11/02/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIL *107 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	11/02/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/02/2012	ND	192	95.8	200	2.44	
DRO >C10-C28	<10.0	10.0	11/02/2012	ND	200	100	200	4.46	

Surrogate: 1-Chlorooctane *88.7 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *98.2 %* *63.6-154*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: YPC	BILL TO
Project Manager: Jeremy Haass	P.O. #: 103-2636
Address:	Company: YPC
City: Artesia State: NM Zip: 88210	Attn: Jeremy Haass
Phone #: Fax #:	Address:
Project #: Project Owner: Jeremy Haass	City: Artesia
Project Name: Nix 'GP' Battery	State: NM Zip: 88210
Project Location: Eddy	Phone #:
Sampler Name: Jeremy Haass	Fax #:

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	TPH	Chlorides												
H202164																												
1	S3 3'		1			X					X		10/31		X	X	X											
2	S3 5'		1			X					X		10/31		X	X	X											
3	S3 7'		1			X					X		10/31		X	X	X											
4	S4 3'		1			X					X		10/31		X	X	X											
5	S4 5'		1			X					X		10/31		X	X	X											
6	S4 7'		1			X					X		10/31		X	X	X											

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 11/1	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 2:53		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Rush
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool / Intact: (1) Yes (2) Yes / No No	CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#126

CARDINAL Laboratories

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

November 12, 2012

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: NIX GP BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/09/12 11:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	11/09/2012	Sampling Date:	11/07/2012
Reported:	11/12/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	** (See Notes)
Project Number:	103-2636	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S 1 10' (H202734-01)

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	11/09/2012	ND	432	108	400	0.00	

Sample ID: S 1 12' (H202734-02)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**624**	16.0	11/09/2012	ND	432	108	400	0.00	

Sample ID: S 1 14' (H202734-03)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1180**	16.0	11/09/2012	ND	432	108	400	0.00	

Sample ID: S 1 16' (H202734-04)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**9860**	16.0	11/09/2012	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	11/09/2012	Sampling Date:	11/07/2012
Reported:	11/12/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	** (See Notes)
Project Number:	103-2636	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S 2 10' (H202734-05)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8400**	16.0	11/09/2012	ND	432	108	400	0.00	

Sample ID: S 2 12' (H202734-06)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**10300**	16.0	11/09/2012	ND	432	108	400	0.00	

Sample ID: S 2 14' (H202734-07)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**22600**	16.0	11/09/2012	ND	432	108	400	0.00	

Sample ID: S 2 16' (H202734-08)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**10900**	16.0	11/09/2012	ND	432	108	400	0.00	

Sample ID: S 3 10' (H202734-09)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6660**	16.0	11/09/2012	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Yates Energy Petroleum Corp
JEREMY HAASS
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	11/09/2012	Sampling Date:	11/07/2012
Reported:	11/12/2012	Sampling Type:	Soil
Project Name:	NIX GP BATTERY	Sampling Condition:	** (See Notes)
Project Number:	103-2636	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S 3 12' (H202734-10)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5520**	16.0	11/09/2012	ND	432	108	400	0.00	

Sample ID: S 3 14' (H202734-11)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7040**	16.0	11/09/2012	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: YPC	**BILL TO**
Project Manager: Jeremy Haass	P.O. #: 103-2636
Address:	Company: YPC
City: Artesia State: NM Zip: 88210	Attn: Jeremy Haass
Phone #: Fax #:	Address:
Project #: Project Owner: Jeremy Haass	City:
Project Name: N. GP Battery	State: Zip:
Project Location: Eddy	Phone #:
Sampler Name: Jeremy Haass	Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chlorides
1120271314															
1	S1 10'					X							11/7		X
2	S1 12'					X									X
3	S1 14'					X									X
4	S1 16'					X									X
5	S2 10'					X									X
6	S2 12'					X									X
7	S2 14'					X									X
8	S2 16'					X									X
9	S3 10'					X									X
10	S3 12'					X									X

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 11/9	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 11:23		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Rush
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition: Cool ☐ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CARDINAL Laboratories

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:		BILL TO	
Project Manager:		P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name:		State: Zip:	
Project Location:		Phone #:	
Sampler Name:		Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides
H202734															
11	SS 53 14'					X									X

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 11/9 Time: 11:23	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)	REMARKS: Rush

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Analytical Report 454862

for

Yates Petroleum Corporation

Project Manager: Jeremy Haass

Nix 'GP' Battery

30-015-21910

07-JAN-13

Collected By: Client

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

07-JAN-13

Project Manager: **Jeremy Haass**
Yates Petroleum Corporation
105 South Fourth St.
Artesia, NM 88210

Reference: XENCO Report No(s): **454862**
Nix 'GP' Battery
Project Address: Eddy County

Jeremy Haass:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 454862. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 454862 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Nicholas Straccione
Project Manager

Sample Cross Reference 454862

Yates Petroleum Corporation, Artesia, NM

Nix 'GP' Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S6-24'	S	12-20-12 00:00	24 - 24 ft	454862-001
S6-27'	S	12-20-12 00:00	27 - 27 ft	454862-002
S6-30'	S	12-20-12 00:00	30 - 30 ft	454862-003
S6-33'	S	12-20-12 00:00	33 - 33 ft	454862-004
S6-36'	S	12-20-12 00:00	36 - 36 ft	454862-005
S6-42'	S	12-20-12 00:00	42 - 42 ft	454862-006
S6-45'	S	12-20-12 00:00	45 - 45 ft	454862-007
S6-48'	S	12-20-12 00:00	48 - 48 ft	454862-008
S6-51'	S	12-20-12 00:00	51 - 51 ft	454862-009
S6-54'	S	12-20-12 00:00	54 - 54 ft	454862-010

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Nix 'GP' Battery

Project ID: 30-015-21910
Work Order Number(s): 454862

Report Date: 07-JAN-13
Date Received: 12/28/2012

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:
Batch: LBA-904135 Inorganic Anions by EPA 300/300.1
E300

Batch 904135, Chloride recovered below QC limits in the Matrix Spike.
Samples affected are: 454862-001.
The Laboratory Control Sample for Chloride is within laboratory Control Limits

Certificate of Analysis Summary 454862

Yates Petroleum Corporation, Artesia, NM

Project Name: Nix 'GP' Battery

Project Id: 30-015-21910
Contact: Jeremy Haass
Project Location: Eddy County

Date Received in Lab: Fri Dec-28-12 11:13 am
Report Date: 07-JAN-13
Project Manager: Nicholas Straccione

Analysis Requested													
	Lab Id:	454862-001		454862-002		454862-003		454862-004		454862-005		454862-006	
	Field Id:	S6-24'		S6-27'		S6-30'		S6-33'		S6-36'		S6-42'	
	Depth:	24-24 ft		27-27 ft		30-30 ft		33-33 ft		36-36 ft		42-42 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-20-12 00:00		Dec-20-12 00:00		Dec-20-12 00:00		Dec-20-12 00:00		Dec-20-12 00:00		Dec-20-12 00:00	
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	*Extracted:*	Jan-03-13 22:14		Jan-04-13 17:33		Jan-04-13 18:07		Jan-04-13 18:24		Jan-04-13 18:41		Jan-04-13 18:58	
	Analyzed:	Jan-03-13 22:14		Jan-04-13 17:33		Jan-04-13 18:07		Jan-04-13 18:24		Jan-04-13 18:41		Jan-04-13 18:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1180	1.34	3150	11.3	9060	34.0	4060	14.8	5570	13.3	7500	32.8
Percent Moisture SUB: TX104704215	*Extracted:*												
	Analyzed:	Jan-02-13 11:38		Jan-02-13 11:38		Jan-02-13 11:38		Jan-02-13 11:38		Jan-02-13 11:38		Jan-02-13 11:38	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		25.7	1.00	11.5	1.00	26.4	1.00	32.5	1.00	24.7	1.00	23.6	1.00

Nicholas Straccione
Project Manager

Certificate of Analysis Summary 454862

Yates Petroleum Corporation, Artesia, NM

Project Name: Nix 'GP' Battery

Project Id: 30-015-21910
Contact: Jeremy Haass
Project Location: Eddy County

Date Received in Lab: Fri Dec-28-12 11:13 am
Report Date: 07-JAN-13
Project Manager: Nicholas Straccione

Analysis Requested											
	Lab Id:	454862-007		454862-008		454862-009		454862-010			
	Field Id:	S6-45'		S6-48'		S6-51'		S6-54'			
	Depth:	45-45 ft		48-48 ft		51-51 ft		54-54 ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Dec-20-12 00:00		Dec-20-12 00:00		Dec-20-12 00:00		Dec-20-12 00:00			
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	*Extracted:*	Jan-04-13 19:16		Jan-04-13 20:07		Jan-04-13 20:24		Jan-04-13 20:41			
	Analyzed:	Jan-04-13 19:16		Jan-04-13 20:07		Jan-04-13 20:24		Jan-04-13 20:41			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		8280	31.5	4530	13.7	6200	15.1	11400	41.9		
Percent Moisture SUB: TX104704215	*Extracted:*										
	Analyzed:	Jan-02-13 11:38		Jan-02-13 11:38		Jan-02-13 11:38		Jan-02-13 11:38			
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		20.3	1.00	27.2	1.00	33.7	1.00	40.3	1.00		

Nicholas Straccione
Project Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantiation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

BS / BSD Recoveries

Project Name: Nix 'GP' Battery

Work Order #: 454862 **Project ID:** 30-015-21910

Analyst: JOL **Date Prepared:** 01/03/2013 **Date Analyzed:** 01/03/2013

Lab Batch ID: 904135 **Sample:** 632018-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

Inorganic Anions by EPA 300/300.1	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.00	100	105	105	100	105	105	0	80-120	20	

Analyst: JOL **Date Prepared:** 01/04/2013 **Date Analyzed:** 01/04/2013

Lab Batch ID: 904201 **Sample:** 632067-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

Inorganic Anions by EPA 300/300.1	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.00	100	98.0	98	100	97.0	97	1	80-120	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: Nix 'GP' Battery

Work Order #: 454862

Lab Batch #: 904135 **Project ID:** 30-015-21910

Date Analyzed: 01/03/2013 **Date Prepared:** 01/03/2013 **Analyst:** JOL

QC- Sample ID: 454862-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1180	134	1280	75	80-120	X

Lab Batch #: 904201

Date Analyzed: 01/04/2013 **Date Prepared:** 01/04/2013 **Analyst:** JOL

QC- Sample ID: 454862-002 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	3150	1130	4310	103	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Sample Duplicate Recovery

Project Name: Nix 'GP' Battery

Work Order #: 454862

Lab Batch #: 903939 **Project ID:** 30-015-21910

Date Analyzed: 01/02/2013 11:38 **Date Prepared:** 01/02/2013 **Analyst:** RKO

QC- Sample ID: 454822-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	53.6	53.5	0	20	

Lab Batch #: 903939

Date Analyzed: 01/02/2013 11:38 **Date Prepared:** 01/02/2013 **Analyst:** RKO

QC- Sample ID: 454862-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	25.7	25.6	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

XENCO

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Jeremy Haass

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4311 Fax No: 575-748-4131

Sampler Signature:

e-mail: atrujillo@yatespetroleum.com

Project Name: Nix 'GP' Battery

Project #: 30-015-21910

Project Loc: Eddy

PO #: 103-2636

Report Format: [x] Standard [ ] TRRP [ ] NPDES

(lab use only) ORDER #: 454862

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 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	TCLP		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	S6-24'	24'	24'	12/20/2012			1							X		S											X				X
	S6-27'	27'	27'	12/20/2012			1							X		S											X				X
	S6-30'	30'	30'	12/20/2012			1							X		S											X				X
	S6-33'	33'	33'	12/20/2012			1							X		S											X				X
	S6-36'	36'	36'	12/20/2012			1							X		S											X				X
	S6-42'	42'	42'	12/20/2012			1							X		S											X				X
	S6-45'	45'	45'	12/20/2012			1							X		S											X				X
	S6-48'	48'	48'	12/20/2012			1							X		S											X				X
	S6-51'	51'	51'	12/20/2012			1							X		S											X				X
	S6-54'	54'	54'	12/20/2012			1							X		S											X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	12/27/12	1:44 PM	Shaunee Smith	12/28/12	11:13
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	NP
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		
Temperature Upon Receipt: 5.3 °C		

Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Yates Petroleum Corporation

Date/ Time Received: 12/28/2012 11:13:00 AM

Work Order #: 454862

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	5	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6 *Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	Yes	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:

Checklist completed by: _____ Date: _____

Checklist reviewed by: _____ Date: _____

CARDINAL Laboratories

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

February 01, 2013

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: LAWRENCE AD BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/31/13 10:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	01/31/2013	Sampling Date:	01/29/2013
Reported:	02/01/2013	Sampling Type:	Soil
Project Name:	LAWRENCE AD BATTERY	Sampling Condition:	** (See Notes)
Project Number:	YAT-13-001	Sample Received By:	Jodi Henson
Project Location:	S. ARTESIA, NM		

Sample ID: MW-1, 10' (H300278-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	02/01/2013	ND	432	108	400	3.77	

Sample ID: B-1, 60' (H300278-02)

Chloride, SM4500Cl-B mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8400**	16.0	02/01/2013	ND	432	108	400	3.77	

Sample ID: B-1, 65' (H300278-03)

Chloride, SM4500Cl-B mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**512**	16.0	02/01/2013	ND	432	108	400	3.77	

Sample ID: B-1, 71' (H300278-04)

Chloride, SM4500Cl-B mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	02/01/2013	ND	432	108	400	3.77	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Safety & Environmental Solutions, Inc.	BILL TO	
Project Manager:	Bob Allen	P.O. #:	
Address:	703 East Clinton	Company:	Same
City:	Hobbs State: NM Zip: 88240	Attn:	Susan
Phone #:	575-397-0510 Fax #: 575-393-4388	Address:	
Project #:	XAT-13-001 Project Owner: YATES	City:	
Project Name:	LAWRENCE AGI BATTERY	State: Zip:	
Project Location:	S. NM	Phone #:	
Sampler Name:	D. Boyer	Fax #:	

ANALYSIS REQUEST: Chlorides

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	SAMPLING TIME	Chlorides
H300278													2013		
1	MW-1, 10'	G	1			X					X		1/29	1050	X
2	R-1, 60'	G	1			X					X		1/30	1405	X
3	R-1, 65'	G	1			X					X		1/30	1430	X
4	R-1, 71'	G	1			X					X		1/30	1550	X

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 1/31/13	Received By:	Jodi Henson
	Time: 1625		
Relinquished By:	Date:	Received By:	
	Time:		

Phone Result: ☐ Yes ☒ No Add'l Phone #:
Fax Result: ☐ Yes ☒ No Add'l Fax #:
REMARKS: Rush

Delivered By: (Circle One)	Temp.	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	15°C	Cool: ☐ Yes ☒ No Intact: ☒ Yes ☐ No	(Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

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