

Bratcher, Mike, EMNRD

From: Amber Cannon <ACannon@yatespetroleum.com>
Sent: Tuesday, January 14, 2014 9:12 AM
To: Bratcher, Mike, EMNRD; Jim Amos; Duncan Whitlock
Cc: Bob Asher
Subject: Punch BJD Federal #1 (2RP-2073) Workplan
Attachments: PunchBJDFederal1_Workplan011414.pdf

Mike/Jim/Duncan,

Please find attached a work plan for a release that occurred at the Punch BJD Federal #1 on October 31, 2013.

Please call or email me with any questions.

Once I receive approval from both NMOCD and BLM, Yates will start work on clean-up.

Thanks,

Amber Cannon

Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799

MARTIN YATES, III

1912-1995

FRANK W. YATES

1936-1986

S. P. YATES

1914-2008



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ARTESIA, NEW MEXICO 88210-2118

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CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

January 14, 2014

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

RE: Punch BJD Federal #1
30-015-22471
Section 6, T26S-R27E
Eddy County, New Mexico

Mr. Bratcher,

Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on October 31, 2013 (2RP-2073).

The release was 65 barrels of produced water and 10 barrels of oil, with 10 barrels of produced water and 5 barrels of oil being recovered. The release area was contained inside of a lined/bermed battery. Crews recovered what liquids they could from the release and then removed the gravel from within the battery fire walls. After this work was completed, it was determined that the liner was compromised and had two holes allowing the release to flow underneath the liner. The liner was then cut so crews could excavate (by shovel) some of the impacted soils underneath the liner.

Initial TPH/BTEX and Chloride delineation samples were then taken from within the battery fire walls at three sample points - front side of tanks, east side of tanks, and back side of tanks. At each sample point grab samples were taken at 1', 2' and 3'. Samples were sent to a NMOCD approved facility for analysis. Analytical results and a site diagram (not to scale) showing sample points are attached for your review.

Yates knows that both NMOCD and BLM would like to see full vertical delineation of a release area; however, at this time, Yates is not able to complete further vertical delineation sampling of the release area. During initial sampling, Yates tried to do sampling with a hand auger in the very rocky caliche found at the site. After many attempts, this process failed, and Yates had to hire a contractor who had a mini-excavator to complete the sampling process. There were limited spaces the mini-excavator could access to complete the sampling. For safety and tank battery stability concerns Yates could only successfully sample vertically to 3'.

Yates proposes to excavate as much from the impacted area as practicable. Yates would excavate what can be done so safely for the contractors and also only to a depth that will not create instability for the equipment within the tank battery. Yates believes this depth would be around 1-2', but can't be sure of the practicable depth until excavation begins. The impacted soils excavated from the release area will be disposed of at a NMOCD approved facility.

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

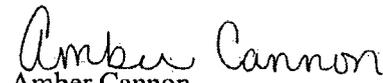
After excavation and disposal, the excavation area would be backfilled and packed with clean, like material. Then the liner would be welded back together in order to successfully contain a release in the event of any future releases. The backfill of clean material and the welded liner will create a barrier so that any chloride contamination left in place would not be driven down or up by any future rain events in the area.

Yates Petroleum is aware that further contamination issues may need to be addressed if and when the facility is plugged and abandoned.

Please notify me if this proposed work is acceptable to you so that Yates may begin clean-up work as soon as possible.

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

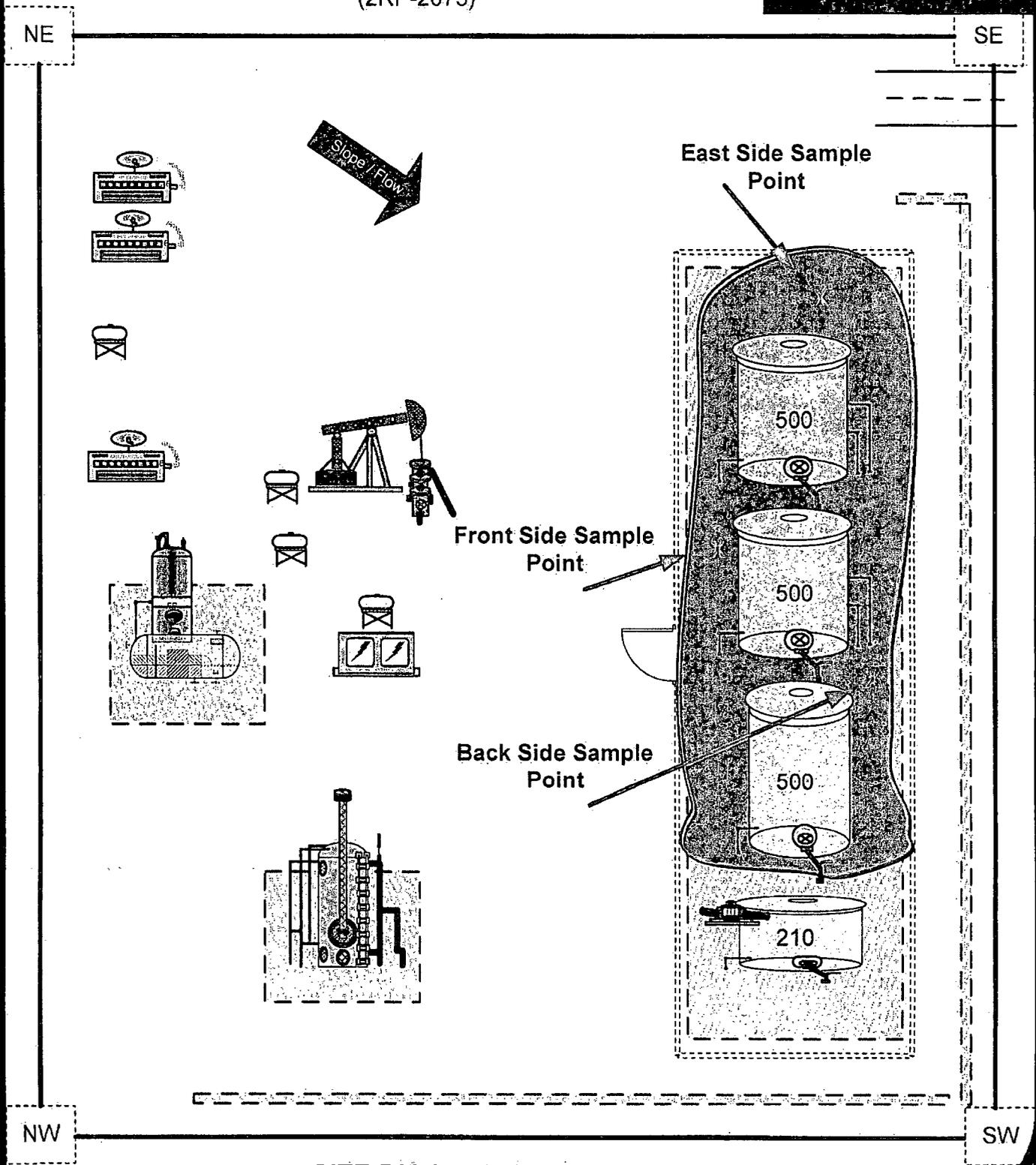
Enclosure(s): 3

cc: Jim Amos, BLM – Carlsbad District Office

YATES PETROLEUM CORPORATION

Punch BJD Federal #1
Release Date: 10/31/2013
(2RP-2073)

Monday, January 13, 2014



SITE DIAGRAM NOT TO SCALE

PUNCH BJD FEDERAL #1

Cardinal Laboratories

Analytical Report H303096	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Front 1'	Release Area	12/19/2013	GRAB/Mini Excavator	1'	ND	ND	ND	ND	4,000
Front 2'	Release Area	12/19/2013	GRAB/Mini Excavator	2'	ND	ND	15.6	15.6	1,920
Front 3'	Release Area	12/19/2013	GRAB/Mini Excavator	3'	ND	ND	ND	ND	2,760
Side 1'	Release Area	12/19/2013	GRAB/Mini Excavator	1'	ND	ND	ND	ND	5,440
Side 2'	Release Area	12/19/2013	GRAB/Mini Excavator	2'	ND	ND	18.4	18.4	4,000
Side 3'	Release Area	12/19/2013	GRAB/Mini Excavator	3'	ND	ND	ND	ND	4,080
Back 1'	Release Area	12/19/2013	GRAB/Mini Excavator	1'	ND	ND	54.8	54.8	4,080
Back 2'	Release Area	12/19/2013	GRAB/Mini Excavator	2'	ND	ND	ND	ND	3,440
Back 3'	Release Area	12/19/2013	GRAB/Mini Excavator	3'	ND	ND	ND	ND	2,030

Site Ranking is ZERO (0). Depth to Ground Water >100'

All results are ppm.Chlorides for documentation.

Released: 65 B/PW, 10 B/O; Recovered: 10 B/PW, 5 B/O. Release Date: 10/31/2013. 2RP-2073



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

December 30, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: PUNCH BJD FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 12/20/13. 10:10.

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_accrd_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,

A handwritten signature in cursive script that reads "Caley D. Keene".

Caley 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:	12/20/2013	Sampling Date:	12/19/2013
Reported:	12/30/2013	Sampling Type:	Soil
Project Name:	PUNCH BJD FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-22471	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: FRONT 1' (H303096-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	12/26/2013	ND	400	100	400	7.69		

Sample ID: FRONT 2' (H303096-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	12/26/2013	ND	400	100	400	7.69		

Sample ID: FRONT 3' (H303096-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	12/26/2013	ND	400	100	400	7.69		

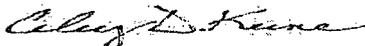
Sample ID: SIDE 1' (H303096-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	12/26/2013	ND	400	100	400	7.69		

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*=Accredited Analyte

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Celley 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:	12/20/2013	Sampling Date:	12/19/2013
Reported:	12/30/2013	Sampling Type:	Soil
Project Name:	PUNCH BJD FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-22471	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SIDE 2' (H303096-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	12/26/2013	ND	400	100	400	7.69		

Sample ID: SIDE 3' (H303096-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	12/26/2013	ND	400	100	400	7.69		

Sample ID: BACK 1' (H303096-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	12/26/2013	ND	400	100	400	7.69		

Sample ID: BACK 2' (H303096-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	12/26/2013	ND	400	100	400	7.69		

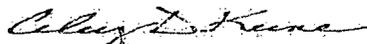
Sample ID: BACK 3' (H303096-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2030	16.0	12/27/2013	ND	432	108	400	3.77		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

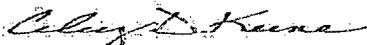
Notes and Definitions

- 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



December 30, 2013

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

RE: PUNCH BJD FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 12/20/13 10:10.

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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:	12/20/2013	Sampling Date:	12/19/2013
Reported:	12/30/2013	Sampling Type:	Soil
Project Name:	PUNCH BJD FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-22471	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: FRONT 1' (H303096-01)

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	12/27/2013	ND	1.73	86.4	2.00	1.95	
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	12/27/2013	ND	4.88	81.3	6.00	2.20	
Total BTEX	<0.300	0.300	12/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103% 89.4-126

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	12/26/2013	ND	199	99.7	200	6.31	
DRO >C10-C28	<10.0	10.0	12/26/2013	ND	203	102	200	8.57	

Surrogate: 1-Chlorooctane 100% 65.2-140

Surrogate: 1-Chlorooctadecane 101% 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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Reported:	12/30/2013	Sampling Type:	Soil
Project Name:	PUNCH BJD FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-22471	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: FRONT 2' (H303096-02)

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	12/27/2013	ND	1.73	86.4	2.00	1.95	
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	12/27/2013	ND	4.88	81.3	6.00	2.20	
Total BTEX	<0.300	0.300	12/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

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	12/26/2013	ND	199	99.7	200	6.31	
DRO >C10-C28	15.6	10.0	12/26/2013	ND	203	102	200	8.57	

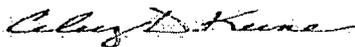
Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.8 % 63.6-154

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*=Accredited Analyte

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Project Name:	PUNCH BJD FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-22471	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: FRONT 3' (H303096-03)

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	12/27/2013	ND	1.73	86.4	2.00	1.95	
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	12/27/2013	ND	4.88	81.3	6.00	2.20	
Total BTEX	<0.300	0.300	12/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 89.4-126

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	12/26/2013	ND	199	99.7	200	6.31	
DRO >C10-C28	<10.0	10.0	12/26/2013	ND	203	102	200	8.57	

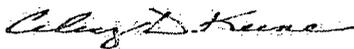
Surrogate: 1-Chlorooctane 98.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Project Name:	PUNCH BJD FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-22471	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SIDE 1' (H303096-04)

BTEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/27/2013	ND	1.73	86.4	2.00	1.95		
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91		
Total Xylenes*	<0.150	0.150	12/27/2013	ND	4.88	81.3	6.00	2.20		
Total BTEX	<0.300	0.300	12/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 89.4-126

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	12/27/2013	ND	199	99.7	200	6.31		
DRO >C10-C28	<10.0	10.0	12/27/2013	ND	203	102	200	8.57		

Surrogate: 1-Chlorooctane 96.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.5 % 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:	12/20/2013	Sampling Date:	12/19/2013
Reported:	12/30/2013	Sampling Type:	Soil
Project Name:	PUNCH BJD FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-22471	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SIDE 2' (H303096-05)

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	12/27/2013	ND	1.73	86.4	2.00	1.95		
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91		
Total Xylenes*	<0.150	0.150	12/27/2013	ND	4.88	81.3	6.00	2.20		
Total BTEX	<0.300	0.300	12/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

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	12/27/2013	ND	199	99.7	200	6.31		
DRO >C10-C28	18.4	10.0	12/27/2013	ND	203	102	200	8.57		

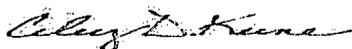
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.9 % 63.6-154

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Cely 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:	12/20/2013	Sampling Date:	12/19/2013
Reported:	12/30/2013	Sampling Type:	Soil
Project Name:	PUNCH BJD FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-22471	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SIDE 3' (H303096-06)

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	12/27/2013	ND	1.73	86.4	2.00	1.95	
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	12/27/2013	ND	4.88	81.3	6.00	2.20	
Total BTEX	<0.300	0.300	12/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102% 89.4-126

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	12/27/2013	ND	199	99.7	200	6.31	
DRO >C10-C28	<10.0	10.0	12/27/2013	ND	203	102	200	8.57	

Surrogate: 1-Chlorooctane 106% 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:	12/20/2013	Sampling Date:	12/19/2013
Reported:	12/30/2013	Sampling Type:	Soil
Project Name:	PUNCH BJD FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-22471	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: BACK 1' (H303096-07)

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	12/27/2013	ND	1.73	86.4	2.00	1.95	
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	12/27/2013	ND	4.88	81.3	6.00	2.20	
Total BTEX	<0.300	0.300	12/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101% 89.4-126

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	12/27/2013	ND	199	99.7	200	6.31	
DRO > C10-C28	54.8	10.0	12/27/2013	ND	203	102	200	8.57	

Surrogate: 1-Chlorooctane 95.4% 65.2-140

Surrogate: 1-Chlorooctadecane 98.5% 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:	12/20/2013	Sampling Date:	12/19/2013
Reported:	12/30/2013	Sampling Type:	Soil
Project Name:	PUNCH BJD FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-22471	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: BACK.2' (H303096-08)

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	12/27/2013	ND	1.73	86.4	2.00	1.95	
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	12/27/2013	ND	4.88	81.3	6.00	2.20	
Total BTEX	<0.300	0.300	12/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101% 89.4-126

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	12/27/2013	ND	199	99.7	200	6.31	
DRO >C10-C28	<10.0	10.0	12/27/2013	ND	203	102	200	8.57	

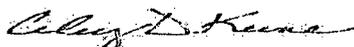
Surrogate: 1-Chlorooctane 95.6% 65.2-140

Surrogate: 1-Chlorooctadecane 90.6% 63.6-154

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

Received:	12/20/2013	Sampling Date:	12/19/2013
Reported:	12/30/2013	Sampling Type:	Soil
Project Name:	PUNCH BJD FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	30-015-22471	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: BACK 3 (H303096-09)

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	12/27/2013	ND	1.73	86.4	2.00	1.95	
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	12/27/2013	ND	4.88	81.3	6.00	2.20	
Total BTEX	<0.300	0.300	12/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101% 89.4-126

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	12/27/2013	ND	199	99.7	200	6.31	
DRO >C10-C28	<10.0	10.0	12/27/2013	ND	203	102	200	8.57	

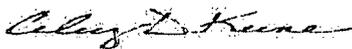
Surrogate: 1-Chlorooctane 108% 65.2-140

Surrogate: 1-Chlorooctadecane 108% 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.

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