

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Cimarex Energy Co of Colorado Telephone: 972-401-3111 e-mail address: zfarm@cimarex.com
Address: 207 S mesa Carlsbad NM
Facility or well name: Pennzoil B36 w.o. 5 API #: 30-085-38560 U/L or Qtr/Qtr P Sec 36 T 19S R 33E
County: Lea Latitude 32° 36' 40.35 N Longitude 103° 36' 37.25 W NAD: 1927 ☐ 1983 ☒
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

Pit Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☐ Thickness 12 mil Clay ☐ Pit Volume bbl	Below-grade tank Volume: bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes ☐ If not, explain why not.
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) >50 <100	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points) 10
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points)
Ranking Score (Total Points) 10	

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: Closed and finished on 4-2-08
DEEP BURY

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 4/20/2008
Printed Name/Title: D Rogers Signature: [Signature]

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: [Signature]
Printed Name/Title: Signature ENVIRONMENTAL ENGINEER Date: 4.22.08

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Pit or Below-Grade Tank Registration or Closure

AUG 15 2007

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐ **OCD-ARTESIA**

Operator <u>Cimarex Energy Co. of Colorado</u> Telephone <u>972-401-3111</u> e-mail address <u>zfarris@cimarex.com</u>		
Address <u>PO Box 140907, Irving, TX 75014-0907</u>		
Facility or well name <u>Pennzoil B 36 State No 5</u> API # <u>30-025-38560</u> U/L or Qtr/Qtr <u>P</u> Sec <u>36</u> T <u>19S</u> R <u>33E</u>		
County <u>Lea</u> Latitude <u>32° 36' 40 35 N</u> Longitude <u>103° 36' 37 25 W</u> NAD 1927 ☐ 1983 ☒		
Surface Owner Federal ☐ State ☐ Private ☒ Indian ☐		
Pit Type Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type Synthetic ☒ Thickness <u>12</u> mil Clay ☐ Pit Volume <u> </u> bbl closed system, cuttings buried	Below-grade tank Volume <u> </u> bbl Type of fluid <u> </u> Construction material <u> </u> Double-walled, with leak detection? Yes ☐ If not, explain why not <u> </u>	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) <u>100' > 50 < 100</u>	Less than 50 feet 50 feet or more, but less than 100 feet <u>100 feet or more</u>	(20 points) (10 points) <u>(0 points) 10</u>
Wellhead protection area. (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)	Yes <u>No</u>	(20 points) <u>(0 points)</u>
Distance to surface water (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses)	Less than 200 feet 200 feet or more, but less than 1000 feet <u>1000 feet or more</u>	(20 points) (10 points) <u>(0 points)</u>
Ranking Score (Total Points)		<u>10</u>

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks (2) Indicate disposal location (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface ft and attach sample results.

(5) Attach soil sample results and a diagram of sample locations and excavations

Additional Comments

I hereby certify that the information above is true and complete to the best of my knowledge and belief I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date 08.10.07

Printed Name/Title Zeno Farris - Manager Operations Administration Signature Zeno Farris

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations

Approval

Printed Name/Title CHRIS WILLIAMS / DIST. SAA Signature Chris Williams

Date 9/20/07

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
200 East Sunset Road, Suite E
5002 Basin Street, Suite A1
8808 Camp Bowie Blvd. West, Suite 180

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 808•588•3443
Midland, Texas 79703
Ft. Worth, Texas 76116
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944
432•689•6301 FAX 432•689•6313
817•201•5260 FAX 817•560•4336

Analytical and Quality Control Report

Dorsey Rogers
Cimarex
207 S Mesa
Carlsbad, NM, 88220

Report Date: March 28, 2008

Work Order: 8032628

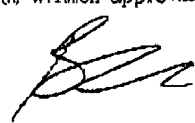
Project Location: Sec. 36, T19S, R33E
Project Name: Pennzoil B 36 #5
Project Number: API 30-025-38560

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
154688	#001 S.W. Corner 3'	soil	2008-03-25	07:00	2008-03-26
154689	#002 S.E. Corner 3'	soil	2008-03-25	08:00	2008-03-26
154690	#003 N.E. Corner 3'	soil	2008-03-25	09:00	2008-03-26
154691	#004 N.W. Corner 3'	soil	2008-03-25	10:00	2008-03-26
154692	#005 Background	soil	2008-03-25	11:00	2008-03-26

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

QC Batch: 46858
Prep Batch: 40306

Date Analyzed: 2008-03-26
QC Preparation: 2008-03-26

Analyzed By: MT
Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00193	mg/Kg	0.01
Toluene		<0.00268	mg/Kg	0.01
Ethylbenzene		<0.00488	mg/Kg	0.01
Xylene		<0.00432	mg/Kg	0.01

Case Narrative

Samples for project Pennzoil B 36 #5 were received by TraceAnalysis, Inc. on 2008-03-26 and assigned to work order 8032628. Samples for work order 8032628 were received intact at a temperature of 4.0 deg C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
BTEX	S 8021B
Chloride (Titration)	SM 4500-Cl B
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8032628 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: March 28, 2008
API 30-025-38560

Work Order: 8092628
Pennzoil B 36 #5

Page Number: 3 of 14
Sec. 36, T19S, R33E

Analytical Report

Sample: 154688 - #001 S.W. Corner 3'

Analysis: BTEX
QC Batch: 46858
Prep Batch: 40306

Analytical Method: S 8021B
Date Analyzed: 2008-03-26
Sample Preparation: 2008-03-26

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.961	mg/Kg	1	1.00	96	84.6 - 117
4-Bromofluorobenzene (4-BFB)		0.999	mg/Kg	1	1.00	100	89.7 - 139

Sample: 154688 - #001 S.W. Corner 3'

Analysis: Chloride (Titration)
QC Batch: 46903
Prep Batch: 40340

Analytical Method: SM 4500-Cl B
Date Analyzed: 2008-03-27
Sample Preparation: 2008-03-27

Prep Method: N/A
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<32.5	mg/Kg	10	3.25

Sample: 154688 - #001 S.W. Corner 3'

Analysis: TPH DRO
QC Batch: 46915
Prep Batch: 40351

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-27
Sample Preparation: 2008-03-27

Prep Method: N/A
Analyzed By: RM
Prepared By: RM

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		122	mg/Kg	1	100	122	59.6 - 168

Sample: 154688 - #001 S.W. Corner 3'

Analysis: TPH GRO
QC Batch: 46917
Prep Batch: 40353

Analytical Method: S 8015B
Date Analyzed: 2008-03-27
Sample Preparation: 2008-03-27

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Report Date: March 28, 2008
API 30-025-35560

Work Order: RC3200
Penczeli S 36 #5

Page Number: 4 of 11
Sec. 36, T193

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.09	mg/Kg	1	1.00	109	75.6 - 128
4-Bromofluorobenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	78.5 - 139

Sample: 154689 - #002 S.E. Corner 3'

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 46858 Date Analyzed: 2008-03-26 Analyzed By: MT
Prep Batch: 40306 Sample Preparation: 2008-03-26 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.084	mg/Kg	1	1.00	98	84.6 - 117
4-Bromofluorobenzene (4-BFB)		1.08	mg/Kg	1	1.00	108	89.7 - 139

Sample: 154689 - #002 S.E. Corner 3'

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 46903 Date Analyzed: 2008-03-27 Analyzed By: ER
Prep Batch: 40340 Sample Preparation: 2008-03-27 Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<32.5	mg/Kg	10	3.25

Sample: 154689 - #002 S.E. Corner 3'

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 46915 Date Analyzed: 2008-03-27 Analyzed By: RM
Prep Batch: 40351 Sample Preparation: 2008-03-27 Prepared By: RM

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		116	mg/Kg	1	100	116	59.6 - 168

Report Date: March 28, 2008
API 30-025-38560

Work Order: 8032628
Pennzoil B 36 #5

Page Number: 5 of 11
Sec. 36, T19S, R33E

Sample: 154689 - #002 S.E. Corner 3'

Analysis: TPH GRO
QC Batch: 46917
Prep Batch: 40353

Analytical Method: S 8015B
Date Analyzed: 2008-03-27
Sample Preparation: 2008-03-27

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	75.6 - 128
4-Bromofluorobenzene (4-BFB)		1.16	mg/Kg	1	1.00	116	78.5 - 139

Sample: 154690 - #003 N.E. Corner 3'

Analysis: BTEX
QC Batch: 46858
Prep Batch: 40306

Analytical Method: S 8021B
Date Analyzed: 2008-03-26
Sample Preparation: 2008-03-26

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.991	mg/Kg	1	1.00	99	84.6 - 117
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	89.7 - 139

Sample: 154690 - #003 N.E. Corner 3'

Analysis: Chloride (Titration)
QC Batch: 46903
Prep Batch: 40340

Analytical Method: SM 4500-Cl B
Date Analyzed: 2008-03-27
Sample Preparation: 2008-03-27

Prep Method: N/A
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<32.5	mg/Kg	10	3.25

Sample: 154690 - #003 N.E. Corner 3'

Analysis: TPH DRO
QC Batch: 46915
Prep Batch: 40351

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-27
Sample Preparation: 2008-03-27

Prep Method: N/A
Analyzed By: RM
Prepared By: RM

Report Date: March 28, 2008
API 30-025-38560

Work Order: 8032626
Pennzoil B 36 #5

Page Number: 6 of 14
Sec. 36, T19S, R33E

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		121	mg/Kg	1	100	121	59.6 - 168

Sample: 154690 - #003 N.E. Corner 3'

Analysis: TPH GRO
QC Batch: 46917
Prep Batch: 40353

Analytical Method: S 3015B
Date Analyzed: 2008-03-27
Sample Preparation: 2008-03-27

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	75.6 - 128
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	78.5 - 139

Sample: 154691 - #004 N.W. Corner 3'

Analysis: BTEX
QC Batch: 46858
Prep Batch: 40306

Analytical Method: S 8021B
Date Analyzed: 2008-03-26
Sample Preparation: 2008-03-26

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.995	mg/Kg	1	1.00	100	84.6 - 117
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	1	1.00	109	89.7 - 139

Sample: 154691 - #004 N.W. Corner 3'

Analysis: Chloride (Titration)
QC Batch: 46903
Prep Batch: 40340

Analytical Method: SM 4500-Cl B
Date Analyzed: 2008-03-27
Sample Preparation: 2008-03-27

Prep Method: N/A
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<32.5	mg/Kg	10	3.25

Report Date: March 28, 2008
API 30-025-38560

Work Order: 8032628
Pennzoil B 36 #5

Page Number: 7 of 14
Sec. 36, T195, R33E

Sample: 154691 - #004 N.W. Corner 3'

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 46915	Date Analyzed: 2008-03-27	Analyzed By: RM
Prep Batch: 40351	Sample Preparation: 2008-03-27	Prepared By: RM

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		124	mg/Kg	1	100	124	59.6 - 168

Sample: 154691 - #004 N.W. Corner 3'

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 46917	Date Analyzed: 2008-03-27	Analyzed By: MT
Prep Batch: 40353	Sample Preparation: 2008-03-27	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.11	mg/Kg	1	1.00	111	75.6 - 128
4-Bromofluorobenzene (4-BFB)		1.18	mg/Kg	1	1.00	118	78.5 - 139

Sample: 154692 - #005 Background

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 46858	Date Analyzed: 2008-03-26	Analyzed By: MT
Prep Batch: 40306	Sample Preparation: 2008-03-26	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.997	mg/Kg	1	1.00	100	84.6 - 117
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	1	1.00	109	89.7 - 139

Report Date: March 28, 2008
API 30-025-38560

Well Order: 8032628
Pennzoil B 36 #5

Page Number: 8 of 14
Sec. 36, T195, L337

Sample: 154692 - #005 Background

Analysis: Chloride (Titration)
QC Batch: 46903
Prep Batch: 40340

Analytical Method: SM 4500-Cl B
Date Analyzed: 2008-03-27
Sample Preparation: 2008-03-27

Prep Method: N/A
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<32.5	mg/Kg	10	3.25

Sample: 154692 - #005 Background

Analysis: TPH DRO
QC Batch: 46915
Prep Batch: 40351

Analytical Method: Mod. 8015B
Date Analyzed: 2008-03-27
Sample Preparation: 2008-03-27

Prep Method: N/A
Analyzed By: RM
Prepared By: RM

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		122	mg/Kg	1	100	122	59.6 - 168

Sample: 154692 - #005 Background

Analysis: TPH GRO
QC Batch: 46917
Prep Batch: 40353

Analytical Method: S 8015B
Date Analyzed: 2008-03-27
Sample Preparation: 2008-03-27

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.14	mg/Kg	1	1.00	114	75.6 - 128
4-Bromofluorobenzene (4-BFB)		1.18	mg/Kg	1	1.00	118	78.5 - 139

Method Blank (1) QC Batch: 46858

QC Batch: 46858
Prep Batch: 40306

Date Analyzed: 2008-03-26
QC Preparation: 2008-03-26

Analyzed By: MT
Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00193	mg/Kg	0.01
Toluene		<0.00268	mg/Kg	0.01
Ethylbenzene		<0.00488	mg/Kg	0.01
Xylene		<0.00432	mg/Kg	0.01

Report Date: March 28, 2008
API 30-025-38560

Work Order: 8032628
Pennzoil B 36 #5

Page Number: 9 of 14
Sec. 36, T19S, R33E

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.908	mg/Kg	1	1.00	91	71.1 - 107
4-Bromofluorobenzene (4-BFB)		0.932	mg/Kg	1	1.00	93	52.9 - 100

Method Blank (1) QC Batch: 46903

QC Batch: 46903
Prep Batch: 40340

Date Analyzed: 2008-03-27
QC Preparation: 2008-03-27

Analyzed By: ER
Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<1.80	mg/Kg	3.25

Method Blank (1) QC Batch: 46915

QC Batch: 46915
Prep Batch: 40351

Date Analyzed: 2008-03-27
QC Preparation: 2008-03-27

Analyzed By: RM
Prepared By: RM

Parameter	Flag	MDL Result	Units	RL
DRO		<6.77	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		109	mg/Kg	1	100	109	76.1 - 136

Method Blank (1) QC Batch: 46917

QC Batch: 46917
Prep Batch: 40353

Date Analyzed: 2008-03-27
QC Preparation: 2008-03-27

Analyzed By: MT
Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		<0.144	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.920	mg/Kg	1	1.00	92	85 - 116
4-Bromofluorobenzene (4-BFB)		0.534	mg/Kg	1	1.00	53	45.2 - 98.8

Laboratory Control Spike (LCS-1)

QC Batch: 46858
Prep Batch: 40306

Date Analyzed: 2008-03-26
QC Preparation: 2008-03-26

Analyzed By: MT
Prepared By: MT

Report Date: March 28, 2008
API 30-025-38560

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.957	mg/Kg	1	1.00	<0.00193	96	78.7 - 107
Toluene	0.963	mg/Kg	1	1.00	<0.00268	96	80.3 - 107
Ethylbenzene	0.962	mg/Kg	1	1.00	<0.00488	96	80.9 - 107
Xylene	2.88	mg/Kg	1	3.00	<0.00432	96	84 - 102

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.960	mg/Kg	1	1.00	<0.00193	96	78.7 - 107	0	20
Toluene	0.959	mg/Kg	1	1.00	<0.00268	96	80.3 - 107	0	20
Ethylbenzene	0.960	mg/Kg	1	1.00	<0.00488	96	80.9 - 107	0	20
Xylene	2.88	mg/Kg	1	3.00	<0.00432	96	84 - 102	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.01	0.984	mg/Kg	1	1.00	101	98	80.6 - 115
4-Bromofluorobenzene (4-BFB)	1.05	0.987	mg/Kg	1	1.00	105	99	84.3 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 46903
Prep Batch: 40340

Date Analyzed: 2008-03-27
QC Preparation: 2008-03-27

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.9	mg/Kg	1	100	<1.80	100	96.8 - 103

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	100	mg/Kg	1	100	<1.80	100	96.8 - 103	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 46915
Prep Batch: 40351

Date Analyzed: 2008-03-27
QC Preparation: 2008-03-27

Analyzed By: RM
Prepared By: RM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	262	mg/Kg	1	250	<6.77	105	73.9 - 138

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	261	mg/Kg	1	250	<6.77	104	73.9 - 138	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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API 30-025-38560

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Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	103	110	mg/Kg	1	100	103	110	67.6 - 138

Laboratory Control Spike (LCS-1)

QC Batch: 46917
Prep Batch: 40353

Date Analyzed: 2008-03-27
QC Preparation: 2008-03-27

Analyzed By: MT
Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.77	mg/Kg	1	10.0	<0.144	88	76.4 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.20	mg/Kg	1	10.0	<0.144	92	76.4 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.934	0.921	mg/Kg	1	1.00	93	92	80.3 - 113
4-Bromofluorobenzene (4-BFB)	0.840	0.830	mg/Kg	1	1.00	84	83	70.7 - 110

Matrix Spike (MS-1) Spiked Sample: 154683

QC Batch: 46858
Prep Batch: 40306

Date Analyzed: 2008-03-26
QC Preparation: 2008-03-26

Analyzed By: MT
Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.764	mg/Kg	1	1.00	<0.00193	76	10 - 144
Toluene	0.814	mg/Kg	1	1.00	<0.00268	81	10 - 154
Ethylbenzene	0.859	mg/Kg	1	1.00	<0.00488	86	10 - 169
Xylene	2.60	mg/Kg	1	3.00	<0.00432	87	10 - 176

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.829	mg/Kg	1	1.00	<0.00193	83	10 - 144	8	20
Toluene	0.882	mg/Kg	1	1.00	<0.00268	88	10 - 154	8	20
Ethylbenzene	0.936	mg/Kg	1	1.00	<0.00488	94	10 - 169	8	20
Xylene	2.83	mg/Kg	1	3.00	<0.00432	94	10 - 176	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.05	1.08	mg/Kg	1	1	105	108	75.9 - 121
4-Bromofluorobenzene (4-BFB)	1.06	1.13	mg/Kg	1	1	106	113	70.8 - 149

Report Date: March 28, 2008
API 30-023-38560

Work Order: 8032628
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Matrix Spike (MS-1) Spiked Sample: 154683

QC Batch: 46903
Prep Batch: 40340

Date Analyzed: 2008-03-27
QC Preparation: 2008-03-27

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	625	mg/Kg	10	500	159.292	93	76.4 - 123

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	651	mg/Kg	10	500	159.292	98	76.4 - 123	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 154684

QC Batch: 46915
Prep Batch: 40351

Date Analyzed: 2008-03-27
QC Preparation: 2008-03-27

Analyzed By: RM
Prepared By: RM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	264	mg/Kg	1	250	8.313	102	50.7 - 134

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	266	mg/Kg	1	250	8.313	103	50.7 - 134	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	120	122	mg/Kg	1	100	120	122	47.6 - 142

Matrix Spike (MS-1) Spiked Sample: 154683

QC Batch: 46917
Prep Batch: 40353

Date Analyzed: 2008-03-27
QC Preparation: 2008-03-27

Analyzed By: MT
Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.77	mg/Kg	1	10.0	<0.144	98	40.1 - 154

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	10.4	mg/Kg	1	10.0	<0.144	104	40.1 - 154	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: March 28, 2008
API 30-025-38560

Work Order: 8032628
Pennzoil B 36 #5

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Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.904	0.902	mg/Kg	1	1	90	90	16.6 - 155
4-Bromofluorobenzene (4-BFB)	1.15	1.15	mg/Kg	1	1	115	115	40.1 - 176

Standard (ICV-1)

QC Batch: 46858

Date Analyzed: 2008-03-26

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0984	98	85 - 115	2008-03-26
Toluene		mg/Kg	0.100	0.0985	98	85 - 115	2008-03-26
Ethylbenzene		mg/Kg	0.100	0.0993	99	85 - 115	2008-03-26
Xylene		mg/Kg	0.300	0.299	100	85 - 115	2008-03-26

Standard (CCV-1)

QC Batch: 46858

Date Analyzed: 2008-03-26

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0951	95	85 - 115	2008-03-26
Toluene		mg/Kg	0.100	0.0948	95	85 - 115	2008-03-26
Ethylbenzene		mg/Kg	0.100	0.0956	96	85 - 115	2008-03-26
Xylene		mg/Kg	0.300	0.288	96	85 - 115	2008-03-26

Standard (ICV-1)

QC Batch: 46903

Date Analyzed: 2008-03-27

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2008-03-27

Standard (CCV-1)

QC Batch: 46903

Date Analyzed: 2008-03-27

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2008-03-27

Standard (ICV-1)

QC Batch: 46915

Date Analyzed: 2008-03-27

Analyzed By: RM

Report Date: March 28, 2008
API 30-025-38560

Work Order: S032628
Pennzoil B 36 #5

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Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	270	108	85 - 115	2008-03-27

Standard (CCV-1)

QC Batch: 46915

Date Analyzed: 2008-03-27

Analyzed By: RM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	267	107	85 - 115	2008-03-27

Standard (CCV-2)

QC Batch: 46915

Date Analyzed: 2008-03-27

Analyzed By: RM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	234	93	85 - 115	2008-03-27

Standard (ICV-1)

QC Batch: 46917

Date Analyzed: 2008-03-27

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.942	94	85 - 115	2008-03-27

Standard (CCV-1)

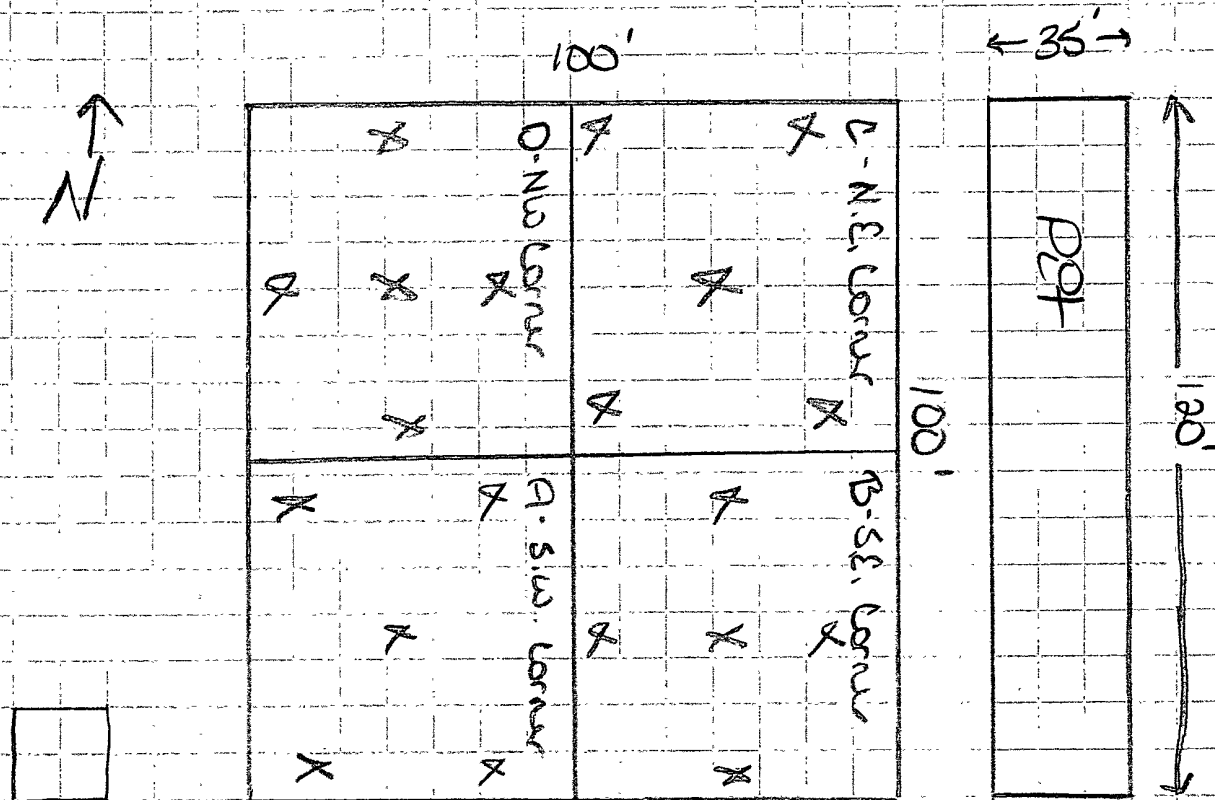
QC Batch: 46917

Date Analyzed: 2008-03-27

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.858	86	85 - 115	2008-03-27

Pennzoil B 36 #5



S.W. of Pool Background - $N 32^{\circ} 36' 38.5''$
 $W 103^{\circ} 36' 40.0''$

A - $32^{\circ} 36' 40.8''$

$103^{\circ} 36' 35.6''$

B - $32^{\circ} 36' 40.8''$

$103^{\circ} 36' 35.0''$

C - $32^{\circ} 36' 41.2''$

$103^{\circ} 36' 35.0''$

D - $32^{\circ} 36' 41.2''$

$103^{\circ} 36' 35.5''$

Pool - $32^{\circ} 36' 40.7''$

$103^{\circ} 36' 34.4''$

