1R- 2136

REPORTS

DATE:

5-18-11

IR-2136

TALON LPE

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Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

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Midland, Texas 79706
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SAN ANTONIO
17170 Jordan Road
Suite 102
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9906 East 43rd Street
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Phone 505 393 4261
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Phone 903.531.9971
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ENVIRONMENTAL CONSULTING
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MOBILE DUAL PHASE EXTRACTION REPORT
DCP PLANT TO LEA STATION 6 INCH #2 PIPELINE RELEASE
MONUMENT, LEA COUNTY, NEW MEXICO
SRS # 2009-039
TALON/LPE PROJECT # 700376.084.01

PREPARED FOR:

PLAINS MARKETING, L.P.
333 CLAY STREET
SUITE 1600
HOUSTON, TEXAS 77002

RECEIVED

JUN 13 2011

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

PREPARED BY:

TALON/LPE
921 N. BIVINS
AMARILLO, TEXAS 79107

DISTRIBUTION:

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May 18, 2011

PLAINS
PIPELINE, L.P.

June 10, 2011

Mr. Edward Hansen
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Plains Pipeline, L.P.
Reports for MDPE Events at Four (4) Remediation Sites in Lea County, NM

Dear Mr. Hansen:

Plains Pipeline, L.P. is pleased to submit the attached reports which provide details regarding the Mobile Dual Phase Extraction (MDPE) events that were conducted at the following sites during May 2011:

DCP Plant to Lea Station 6-inch Sec. 31	NMOCD Reference #1R-2166
DCP Plant to Lea Station 6-inch #2	NMOCD Reference #1R-2136
Monument 10	NMOCD Reference #1R-0119
Monument 18	NMOCD Reference #1R-0124

Should you have any questions or comments, please contact me at (575) 441-1099.

Sincerely,

Jason Henry

Jason Henry
Remediation Coordinator
Plains Pipeline, L.P.

Enclosure

TABLE OF CONTENTS

Section Page

Attachments:

Attachment 1 - MDPE field logs
Attachment 2 - Laboratory Analytical Results
Attachment 3 – Oxidizer Charts

I. MDPE SUMMARY REPORT AND WASTE DISPOSITION

A. MDPE Results

The following report summarizes data collected during the 12-hour High Vacuum Multi-Phase Extraction (MDPE) event conducted from May 5, 2011 to May 6, 2011 at the DCP Plant to Lea Station 6 Inch #2 Pipeline release site, located in Lea County, New Mexico. The objective of the MDPE treatment was to remove both vapor and liquid phase separated hydrocarbons (PSH) from onsite groundwater wells. Talon/LPE utilized an MDPE unit which consisted of an SVE extraction pump capable of generating vacuum up to 25" hg. Off gas vapors extracted from the extraction wells were destroyed using a propane-fired 1000-SCFM thermal oxidizer capable of processing 172.96 lbs/hr of gasoline.

A total of 12 hours (0.5 days) of PSH recovery was performed. MW-1 for 12 hours.

Prior to and immediately following the event, the groundwater wells were gauged for groundwater elevation and PSH. Depth to groundwater ranges were measured in feet below the top of casing. Refer to Attachment 1 for a summary of data collected during the MDPE event.

The volume of PSH removed during the MDPE event is shown to reflect the portions of PSH in the liquid phase and as off-gas vapor. Air removal rates were calculated from velocity measurements recorded at the influent manifold prior to entry into the MDPE unit. PSH recovery and air flow data has been detailed and is contained in Table 1. Three influent air samples were collected over the course of the event. These samples were submitted for laboratory testing in order to compare the predicted vapor concentrations (based on field-screening or calculated based on fuel consumption) to the actual vapor concentrations. All three influent samples were tested for Total-Gas Analysis (Hydrocarbon Composition) by ASTM method D 1945. Laboratory analytical results can be found in Attachment 2.

Based on a combination of field vapor screening and collected laboratory samples, a combined estimated total of **33.83 equivalent gallons of PSH (Total)** were removed during the event. The combined volume of PSH was comprised of approximately **14 gallons of PSH (liquid phase)** and approximately **19.83 gallons as off-gas vapor.**

The cumulative air flow measurements for the MDPE event were calculated using a combination of field data measurements and Preso® B+ manufacturer provided formulas. **Air flow rates extracted from the recovery wells averaged 22.62 SCFM** during the event.

A portion of the extracted air flow rates measured is attributable to compressed air, which was "injected" into the extraction wells. This "injected" air is introduced into the extraction wells for the purpose of enhancing liquid recovery rates.

B. Air Quality

Three influent air samples were collected during the event. These samples were submitted for laboratory testing in order to compare the predicted vapor concentrations (based on field-screening or calculated based on fuel consumption) to the actual vapor concentrations. The maximum concentration in air influent was recorded as 35,477.50 ppmv for Hydrocarbon Composition.

C. Waste Management and Disposition

A cumulative total of 1,677 gallons of fluid were generated during this event. The fluids were transferred to an on-site storage tank.

II. SYSTEM OPERATION DATA AND MASS RECOVERY CALCULATIONS

Formulae:

$$\text{Concentration (C\_mg/l)} = \frac{\text{C\_ppmv x Mol. wt. in mg(estimated) x 0.000001}}{\text{0.0821 x Temp (K)}}$$

$$\text{Recovery Rate (lbs/hr)} = \frac{\text{(C\_mg/l) x 2.2 x (Flowrate) x 60 x 28.32}}{\text{1,000,000}}$$

$$\text{Recovery (lbs)} = \text{(lbs/hr) x (hrs)}$$

$$\text{Correction Factor (CF)} = \frac{\text{FID Reading(ppmv)}}{\text{FID Reading at Time of Laboratory Analysis}}$$

$$\frac{\text{8.34 lbs}}{\text{gallon water}} \times \text{0.734 average specific gravity of light crude (estimated)} = \frac{\text{6.12156 lbs light crude}}{\text{gallon}}$$

Table 1
System Operation Data and Mass Recovery Calculations

Time	Period (hours)	Influent Temp. (°f)	Vacuum (In. hg)	Vacuum (In. h20)	Differential pressure (In. h20)	Flow (SCFM)	FID Readings (ppmv)	Lab Result (ppmv)	Assigned Lab Result (ppmv)	Correction Factor (CF)	Adjusted Lab Result (ppmv)	Adjusted Lab Result (mg/L)	Recovery (lbs/hr)	Recovery in Period (lbs)	Total Recovery (lbs)
12:00	0	78	21	285.79	0.9	18.00	633.9	-	35477.5	0.01	450	1.65	0.11	0.00	0.00
13:00	1	85	21	285.79	1.3	21.49	50000	35477.5	35477.5	1.00	35478	128.59	10.33	10.33	10.33
14:00	1	88	21	285.79	2.6	30.31	50000	-	35477.5	1.00	35478	127.89	14.49	14.49	24.82
15:00	1	89	21	285.79	2.5	29.70	50000	-	35477.5	1.00	35478	127.65	14.17	14.17	38.99
16:00	1	90	21	285.79	1.1	19.68	50000	-	28836.5	1.00	28837	103.57	7.62	7.62	46.61
17:00	1	95	21	285.79	1.9	25.75	50000	-	28836.5	1.00	28837	102.63	9.88	9.88	56.49
18:00	1	92	21	285.79	1.7	24.42	50000	28836.5	28836.5	1.00	28837	103.19	9.42	9.42	65.91
19:00	1	88	21	285.79	1.2	20.59	50000	-	28836.5	1.00	28837	103.95	8.00	8.00	73.91
20:00	1	72	21	285.79	1.3	21.75	50000	-	28836.5	1.00	28837	107.08	8.71	8.71	82.62
21:00	1	70	21	285.79	1.1	20.05	50000	-	33497.5	1.00	33498	124.85	9.36	9.36	91.98
22:00	1	66	21	285.79	1.2	21.02	50000	-	33497.5	1.00	33498	125.80	9.88	9.88	101.86
23:00	1	64	21	285.79	1.2	21.06	50000	33497.5	33497.5	1.00	33498	126.28	9.94	9.94	111.80
0:00	1	62	21	285.79	1.1	20.20	50000	-	33497.5	1.00	33498	126.77	9.57	9.57	121.38
Averages:		79.92	21.00	285.79	1.47	22.62	46202.61						Total	121.38	

PSH Mass Recovered in Vapor Phase = 19.83 gallons

FID maximum Concentration = 50,000 PPM

Ex: Conversion from ppmv to mg/L (light crude)

Measured Conc.	Molecular Wt.	Pressure	Gas Constant	Temp.	Temp.	Conc.
(C_ppmv)	(Grams)	(atm)	(atm.liter/K. mole)	(F)	(K)	(C_mg/l)
450	90	1	0.0821	78	298.55556	1.6514976

% Total Hydrocarbon to mg/m³ to ppmv

% total Hydrocarbon	=	mg/m³	=	ppmv
14.1910%		141,910.00		35477.5
11.5346%		115,346.00		28836.5
13.3990%		133,990.00		33497.5

Inputs are the green values.
Calculated values are yellow.
Constants are purple values.
Outpus are the blue values.

Liquid-phase Hydrocarbon Recovery

(assumes gasoline product)

$\prod * r^2 * h = volume$

Gallons removed determined at time of pick up

PSH Volume in Gallons=	14
PSH Mass in Pounds=	85.70184

Total Hydrocarbon Recovery

PSH Mass Recovered in Vapor Phase =	121.38	lbs
	19.83	gallons
PSH Mass Recovered in Liquid Phase =	85.70	lbs
	14.00	gallons
TOTAL =	**207.08**	**lbs**
	33.83	**gallons**

ATTACHMENT 1

MDPE Field Logs

MDPE FIELD NOTES

Site Name.	DCP Plant to Lea Station 6 inch Sec 31			Event #	1
Location	Lea County, Monument, NM			Arrive at site.	5/5/2011 8 00
Date	5/5-6/2011				
Job#	700376.084 01	SRS#	2009-039	Start Vac	5/5/2011 12:00
Phase	MDPE	Unit	1107	Stop Vac	5/6/2011 0 00
Onsite Personnel	, M L.Coggins			Leave Site	5/6/2011 1:30

GAUGING DATA

WELL#	BEFORE			AFTER			COMMENTS
	PSH	GW	PSH-T	PSH	GW	PSH-T	
MW-1	79.47	83.79	4 32	-	80.89	-	TD=95 40
MW-2	-	78 43	-	-	78 49	-	TD=94 08
MW-3	-	79 31	-	-	79.45	-	TD=95 04
MW-4	-	80 21	-	-	80.30	-	TD=94 45
MW-5	-	79.97	-	-	80 13	-	TD=96 76
WASTE	H2O.	1663		PSH	14		TOTAL (GAL) 1677

Sample Name	Analysis	Date:	Time:	Comments:
INFLUENT	ASTM D 1945	5-May-11	13:00	
INFLUENT	ASTM D 1945	5-May-11	18:00	
INFLUENT	ASTM D 1945	5-May-11	23 00	
EFFLUENT	BTEX/TPH	5-May-11	18.00	

Notes:	

Start Date 5 5.11

MDPE FIELD DATA

		Total Flow			Well Flow						Well Data									
TIME	SAMPLE TAKEN *	Inflent temp. (°f)	Diff Pressure (INH20) 6" Pitot	Pressure (In h2O)	Inflent temp. (°f)	Diff. Pressure (INH20) 2" Preso	Vac (In.Hg)	FID Composite (PPM)	Propane Tank (%-size) 500 gal	EXHAUST TEMP F	COMMENTS MW1 VAC (INH2O)	PPM	VAC (INH2O)	PPM	VAC (INH2O)	PPM	VAC (INH2O)	PPM	VAC (INH2O)	PPM
12 00		96	0 6	0.16	78	0 9	21	633.9	23%	1406	3.19	-								
13 00	*	102	0 6	0.15	85	1 3	21	50000+	21%	1407	11 62	50000+								
14 00		102	0 6	0.15	88	2 6	21	50000+	20%	1408	15 89	50000+								
15 00		104	0.6	0.15	89	2 5	21	50000+	68%	1409	15 43	50000+								
16:00		105	0.6	0.15	90	1 1	21	50000+	67%	1411	14.28	50000+								
17 00		105	0.6	0.15	95	1 9	21	50000+	66%	1408	13.86	50000+								
18 00	**	104	0 6	0.15	92	1.7	21	50000+	65%	1410	13.12	50000+								
19 00		101	0 6	0 15	88	1.2	21	50000+	65%	1414	12.31	50000+								
20 00		95	0 6	0.15	72	1.3	21	50000+	59%	1407	12.4	50000+								
21 00		90	0 6	0.15	70	1.1	21	50000+	59%	1412	12.76	50000+								
22 00		87	0 6	0.15	66	1 2	21	50000+	59%	1412	12 98	50000+								
23 00	*	85	0 6	0.15	64	1 2	21	50000+	58%	1411	13 2	50000+								
0:00		82	0.6	0 15	62	1 1	21	50000+	57%	1407	13 11	50000+								

Soil Vacuum Influence

Observation Well	MW-5
Extraction Well (EW)	MW-1
Distance (ft) to EW	53'
Time	In.H2O
13.00	0 13
18 00	0
23:00	0

ATTACHMENT 2

Laboratory Analytical Results

806-665-0750
806-665-0753
877-788-0750

Midwest Precision Testing LLC
135 N Price Rd
Pampa, TX 79065

www.mwptlab.com

The following analytical results were produced using the strictest quality control and most current methods:

COC #: N/A

Lab #: 5236-5238

Quality Control #: 1507

Approved by:

Neil Ray

Neil Ray

Date: 5/16/11

806-665-0750
806-665-0753
877-788-0750

Midwest Precision Testing LLC
135 N Price Rd
Pampa, TX 79065

www.mwptlab.com

Sample Matrix: Gas
Sample Type: Spot
Preservative: N/A
Sample Container: Tedlar Bag

Method(s): ASTM D 1945
Gas Analysis by Gas Chromatography

Client: Trace Analysis, Inc.
Project Location: DCP Plant to Lea Station 6 inch #2
Sample Id.: Influent #1
700376.084.01
Trace: 266021
Sample Temp.: N/A
Atmospheric Temp.: N/A
Pressure: N/A
Field Data: N/A
Sample Date: 5/05/11 Time: 1:00 pm
Sampled By: N/A
Analysis Date: 5/13/11
Analysis By: Andrew Dunn

Lab #: 5236
Quality Control Report: 1507

Analytical Results

Gas Composition				
	Mol %	GPM	Vol %	Wt. %
Nitrogen (N2):	93.2549	10.2108	82.8529	85.3878
Carbon Dioxide (CO2):	1.8113	0.3056	2.4961	2.5998
Hydrocarbon Composition	**Mol %**	**GPM**	**Vol. %**	**Wt. %**
Methane (CH4):	0.3792	0.0644	0.5193	0.1983
Ethane (C2H6):	0.0007	0.0002	0.0014	0.0007
Propane (C3H8):	0.0256	0.0070	0.0571	0.0369
Iso-Butane (C4H10):	0.0540	0.0176	0.1426	0.1022
N-Butane (C4H10):	0.2970	0.0932	0.7567	0.5627
Iso-Pentane (C5H12):	0.4750	0.1729	1.4023	1.1154
N-Pentane (C5H12):	0.8124	0.2931	2.3803	1.9127
Hexane+ (C6H14):	2.8900	1.2481	9.3913	8.0834
Totals	100.0000	12.4129	100.0000	100.0000

Comments - Additional Data

BTU -dry (BTU/ft^3):	215.3	Z-Comp. Factor-dry:	0.99907
BTU -water vapor sat.(BTU/ft^3):	213.8	Z-Comp. Factor-water vapor sat.:	0.99220
Specific Gravity -dry:	1.0647	14.65 psi Pressure Base	
Specific Gravity-water vapor sat.:	1.0643		

806-665-0750
806-665-0753
877-788-0750

Midwest Precision Testing LLC
135 N Price Rd
Pampa, TX 79065

www.mwptlab.com

Sample Matrix: Gas
Sample Type: Spot
Preservative: N/A
Sample Container: Tedlar Bag

Method(s): ASTM D 1945
Gas Analysis by Gas Chromatography

Client: Trace Analysis, Inc.
Project Location: DCP Plant to Lea Station 6 inch #2
Sample Id.: Influent #2
700376.084.01
Trace: 266022
Sample Temp.: N/A
Atmospheric Temp.: N/A
Pressure: N/A
Field Data: N/A
Sample Date: 5/05/11 Time: 6:00 pm
Sampled By: N/A
Analysis Date: 5/13/11
Analysis By: Andrew Dunn

Lab #: 5237
Quality Control Report: 1507

Analytical Results

Gas Composition				
	Mol %	GPM	Vol %	Wt. %
Nitrogen (N2):	94.3246	10.3262	85.7321	87.7404
Carbon Dioxide (CO2):	1.9388	0.3271	2.7334	2.8271
Hydrocarbon Composition	**Mol %**	**GPM**	**Vol. %**	**Wt. %**
Methane (CH4):	0.0969	0.0165	0.1358	0.0515
Ethane (C2H6):	0.0005	0.0001	0.0012	0.0005
Propane (C3H8):	0.0350	0.0096	0.0798	0.0511
Iso-Butane (C4H10):	0.0671	0.0219	0.1815	0.1292
N-Butane (C4H10):	0.3242	0.1017	0.8449	0.6239
Iso-Pentane (C5H12):	0.4702	0.1711	1.4201	1.1217
N-Pentane (C5H12):	0.7536	0.2718	2.2589	1.8025
Hexane+ (C6H14):	1.9890	0.8589	6.6124	5.6519
Totals	100.0000	12.1048	100.0000	100.0000

Comments - Additional Data

BTU -dry (BTU/ft^3):	165.3	Z-Comp. Factor-dry:	0.99924
BTU -water vapor sat.(BTU/ft^3):	164.3	Z-Comp. Factor-water vapor sat.:	0.99295
Specific Gravity -dry:	1.0456	14.65 psi Pressure Base	
Specific Gravity-water vapor sat.:	1.0448		

806-665-0750
806-665-0753
877-788-0750

Midwest Precision Testing LLC
135 N Price Rd
Pampa, TX 79065

www.mwptlab.com

Sample Matrix: Gas
Sample Type: Spot
Preservative: N/A
Sample Container: Tedlar Bag

Method(s): ASTM D 1945
Gas Analysis by Gas Chromatography

Client: Trace Analysis, Inc.
Project Location: DCP Plant to Lea Station 6 inch #2
Sample Id.: Influent #3
700376.084.01
Trace: 266023
Sample Temp.: N/A
Atmospheric Temp.: N/A
Pressure: N/A
Field Data: N/A
Sample Date: 5/05/11 Time: 11:00 pm
Sampled By: N/A
Analysis Date: 5/13/11
Analysis By: Andrew Dunn

Lab #: 5238
Quality Control Report: 1507

Analytical Results

Gas Composition				
	Mol %	**GPM**	**Vol %**	**Wt. %**
Nitrogen (N2):	92.8813	10.1692	83.1410	85.6343
Carbon Dioxide (CO2):	2.4919	0.4204	3.4599	3.6015
Hydrocarbon Composition	**Mol %**	**GPM**	**Vol. %**	**Wt. %**
Methane (CH4):	0.4726	0.0803	0.6520	0.2489
Ethane (C2H6):	0.0297	0.0079	0.0647	0.0293
Propane (C3H8):	0.0511	0.0140	0.1145	0.0739
Iso-Butane (C4H10):	0.0873	0.0284	0.2324	0.1665
N-Butane (C4H10):	0.4135	0.1297	1.0613	0.7887
Iso-Pentane (C5H12):	0.5357	0.1950	1.5933	1.2666
N-Pentane (C5H12):	0.8156	0.2942	2.4076	1.9335
Hexane+ (C6H14):	2.2215	0.9593	7.2732	6.2567
Totals	100.0000	12.2984	100.0000	100.0000

Comments - Additional Data

BTU -dry (BTU/ft^3):	190.5	Z-Comp. Factor-dry:	0.99915
BTU -water vapor sat.(BTU/ft^3):	189.3	Z-Comp. Factor-water vapor sat.:	0.99253
Specific Gravity -dry:	1.0556	14.65 psi Pressure Base	
Specific Gravity-water vapor sat.:	1.0551		

806-665-0750
806-665-0753
877-788-0750

Midwest Precision Testing LLC
135 N Price Rd
Pampa, TX 79065

www.mwptlab.com

Sample Type: Standard
Preservative: N/A
Sample Container: Industrial Cylinder

Sample Id.: DCG
Reference Std. 47366AW
Sample Temp.: 120° F
Analysis Date: 5/13/11
Analysis By: Andrew Dunn

Method(s): ASTM D 1945
Gas Analysis by Gas Chromatography

Quality Control Report#: 1507

Analytical Results

RESULTS	ACTUAL	ANALYSIS			
Gas Composition			MDL	RL	% Deviation
	Mol %	Mol %	Mol %	ppm mol	(90-100%)
Nitrogen (N2):	4.926	4.9080	0.0010	10	99.6
Carbon Dioxide (CO2):	1.489	1.5073	0.0010	10	98.8
			MDL	RL	% Deviation
Hydrocarbon Composition	Mol %	Mol %	Mol %	ppm mol	(90-100%)
Methane (CH4):	69.955	69.8646	0.0001	1	99.9
Ethane (C2H6):	9.138	9.1822	0.0001	1	99.5
Propane (C3H8):	5.947	5.9777	0.0001	1	99.5
Iso-Butane (C4H10):	3.018	3.0231	0.0001	1	99.8
N-Butane (C4H10):	3.021	3.0258	0.0001	1	99.8
Iso-Pentane (C5H12):	1.001	1.0035	0.0001	1	99.7
N-Pentane (C5H12):	1.007	1.0156	0.0001	1	99.1
Hexane+ (C6H14):	0.498	0.4922	0.0001	1	98.8
Totals	100.000	100.000			

Comments - Additional Data

ACTUAL		ANALYSIS	
BTU -dry (BTU/ft3):	1322.3	BTU -dry (BTU/ft^3):	1323.4
BTU -water vapor sat. (BTU/ft3):	1316.6	BTU -water vapor sat. (BTU/ft^3):	1317.7
Specific Gravity -dry:	0.8337	Specific Gravity -dry:	0.8345
Specific Gravity -water vapor sat.:	0.8406	Specific Gravity -water vapor sat.:	0.8415
Z-Comp. Factor -dry:	0.99565	Z-Comp. Factor -dry:	0.99564
Z-Comp. Factor -water vapor sat.:	0.98309	Z-Comp. Factor -water vapor sat.:	0.98307

LAB Order ID # 1105101 4

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
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1 (800) 378-1296

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Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd , Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: TALON LPE c/o PLAINS ALL AMERICAN
Phone #: 866-742-0742
Address: (Street, City, Zip) 921 N. BIVINS, AMARILLO, TX 79107
Fax #:
Contact Person: SIMON WALSHE
E-mail: SWALSHE@TALONLPE.COM
Invoice to: (If different from above) JASON HENRY (PLAINS) SRS # 2009-059
Project #: 700376.004.01
Project Name: DCP PLANT TO LEA STATION 6 INCH #2
Project Location (including state): LEA COUNTY, MONUMENT, NM
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

PLM TO SRS # 2009-059

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC	ASTM D 1945			Turn Around Time if different from standard	Hold
26602	INFLUENT #1	1	LTR			X							X	5 MAY 2011	13:00																			X				
022	INFLUENT #2	1	LTR			X							X	5 MAY 2011	18:00																			X				
023	INFLUENT #3	1	LTR			X							X	5 MAY 2011	23:00																			X				
024	EFFLUENT #1	1	LTR			X							X	5 MAY 2011	18:00		X	X																					

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
M.L. COGGINS	TALON LPE	6 MAY 11	0800	ZMcCoy	TA	05/10/11	1000	INST FR OBS 22.4 °C COR 22.3 °C
								INST ____ OBS ____ °C COR ____ °C
								INST ____ OBS ____ °C COR ____ °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in-Review

REMARKS:

- Dry Weight Basis Required
- TRRP Report Required
- Check If Special Reporting Limits Are Needed

MAY 17 2011 ASTM

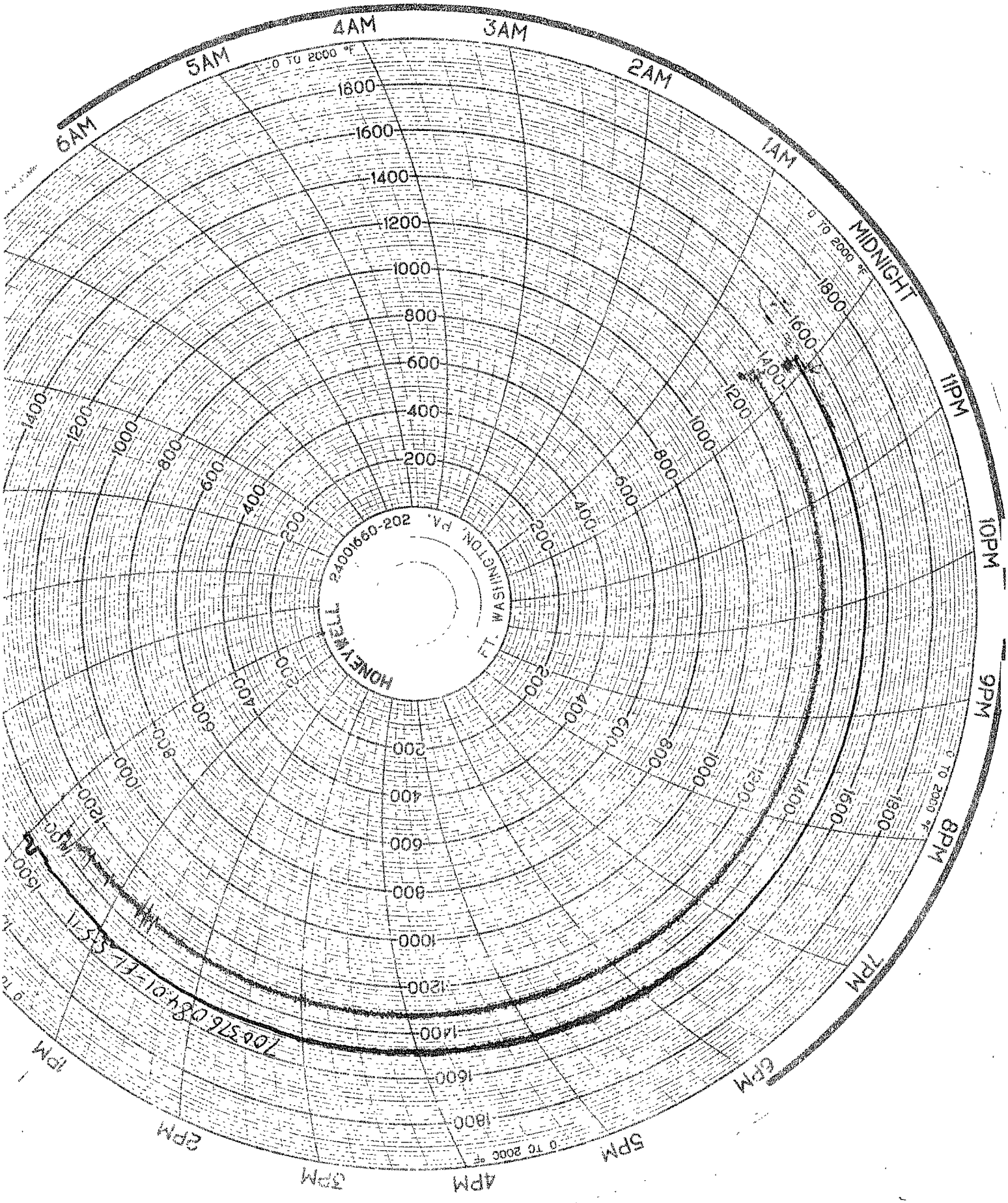
Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # UPS 1Z23 412 884 0

ORIGINAL COPY

ATTACHMENT 3

Oxidizer Charts


MIDNIGHT
1AM
2AM
3AM
4AM
5AM
6AM
7AM
8AM
9AM
10AM
11AM
NOON
1PM
2PM
3PM
4PM
5PM
6PM
7PM
8PM
9PM
10PM
11PM
0 TO 2000 °F
1800
1600
1400
1200
1000
800
600
400
200
MONEY WELL
FT. WASHINGTON, PA.
24001660-202

invoice

GANDY CORPORATION
P.O. BOX 2140
LOVINGTON, NM 88260
(575) 396-0522 FAX (575) 396-0797
PRC 14225

BILL TO: PLAINS ALL AMERICAN
C/O ENV-00 ACCTS.PAYABLE
P.O. BOX 4648
HOUSTON, TX 77210-4648

LEASE: DCP TO LEA STATION #2
SRS 2009-039

PAGE 1

INVOICE DATE		INVOICE NO.	
5/30/11			197387
QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
	05/06/11 WT. 444981		
	JOB 700376-084-01		
3.25	HRS HAZMAT,DOT,COATED VACUUM TRUCK W/OPER	108.00	351.00
40.00	BBLS DISPOSAL FEE	0.85	34.00
	EMPTY POLY TANK. HAULED 40 BBLS PRODUCED WATER TO DISPOSAL.		
		SUBTOTAL	385.00
		TAX 5.5%	21.18
		INVOICE TOTAL	406.18

ENTRY COMPLETED

JUN 3 0 '11

Thank You

ORIGINAL

TERMS. Net., Interest of 1 1/2% per month (18% per annum) added to accounts over 90 days.

78530

• 24-HOUR SERVICE, CALL
LOVINGTON 396-4948
TATUM 398-4960

GANDY CORPORATION

KILL TRUCKS - VACUUM TRUCKS - WINCH TRUCKS
TANK CLEANING - ROUSTABOUTING
PRC #14225

P.O. BOX 2140
LOVINGTON, NEW MEXICO 88260

444981

Date 5/6/11 Truck No. 356

Company Plains Pipeline Purchase Order No. _____ Invoice Number _____

From DCP TO Lea STATZa #2 Rig No. _____ Location _____

To Lease _____ Well No. _____ Location _____

				TIME	RATE	AMOUNT
Time Out _____ A.M. P.M.	Time In _____ A.M. P.M.					
Diesel / Crude Oil	Brine Water / Salt Water	Fresh Water / Acid	Bbls. Hauled 40		.85	34.00
Driver, Operator or Pusher Richard G Leony				3.25	108.00	351.00
Helper water - 1677						
Helper PSH - 14			Job #			
Helper			1691 Total 700376.084.0			
Other Charges						
Description of Work: Empty POLY Tank of P/W Take To Disposal - Sprinkle Wait time at Disposal 30 min						
					Sub Total	385.00
			SRS # 2009-039		Sales Tax	21.18
Authorized by: Jason Henry 05/20/2011					TOTAL	406.18

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