

1R - 119

REPORTS

DATE:

5-18-11



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**MOBILE DUAL PHASE EXTRACTION REPORT
TNM MONUMENT 10 PIPELINE RELEASE
MONUMENT, LEA COUNTY, NEW MEXICO
SRS # TNM MONUMENT 10
TALON/LPE PROJECT # 700376.082.01**

PREPARED FOR:

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

PREPARED BY:

**TALON/LPE
921 N. BIVINS
AMARILLO, TEXAS 79107**

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May 18, 2011

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JUN 13 2011

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

1R-119



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
Remediation Coordinator
Plains Pipeline, L.P.

Enclosure

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Attachment 1 - MDPE field logs
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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 7, 2011 at the TNM Monument 10 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, 2, & 3 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 **35.57 equivalent gallons of PSH (Total)** were removed during the event. The combined volume of PSH was comprised of approximately **21 gallons of PSH (liquid phase)** and approximately **14.57 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 299.30 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 2,357.75 ppmv for Hydrocarbon Composition.

C. Waste Management and Disposition

A cumulative total of 1,347 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:

$$\text{Concentration (C_mg/l)} = \frac{\text{C_ppmv} \times \text{Mol. wt. in mg(estimated)} \times 0.000001}{0.0821 \times \text{Temp (K)}}$$

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

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

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

$$\frac{8.34 \text{ lbs}}{\text{gallon water}} \times 0.845 \text{ average specific gravity of light crude (estimated)} = \frac{7.047 \text{ lbs light crude}}{\text{gallon}}$$

Table 1
System Operation Data and Mass Recovery Calculations

Time	Period (hours)	Influent Temp. (°f)	Vacuum (In. hg)	Vacuum (In. h2O)	Differential pressure (In. h2O)	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)
11:00	0	90	11	149.70	120	299.01	50000	-	2255	1.00	2255	8.10	9.05	0.00	0.00
12:00	1	92	11	149.70	120	298.46	50000	2255	2255	1.00	2255	8.07	9.00	9.00	9.00
13:00	1	92	11	149.70	120	298.46	50000	-	2255	1.00	2255	8.07	9.00	9.00	18.01
14:00	1	96	11	149.70	120	297.39	50000	-	2255	1.00	2255	8.01	8.91	8.91	26.91
15:00	1	96	11	149.70	120	297.39	50000	-	2357.75	1.00	2358	8.38	9.31	9.31	36.23
16:00	1	96	11	149.70	120	297.39	50000	-	2357.75	1.00	2358	8.38	9.31	9.31	45.54
17:00	1	92	11	149.70	120	298.46	50000	2357.75	2357.75	1.00	2358	8.44	9.41	9.41	54.95
18:00	1	89	11	149.70	119	298.03	50000	-	2357.75	1.00	2358	8.48	9.45	9.45	64.40
19:00	1	81	11	149.70	118	298.96	50000	-	2357.75	1.00	2358	8.61	9.62	9.62	74.02
20:00	1	75	11	149.70	118	300.63	50000	-	1703.75	1.00	1704	6.29	7.07	7.07	81.09
21:00	1	70	11	149.70	118	302.05	50000	-	1703.75	1.00	1704	6.35	7.17	7.17	88.26
22:00	1	70	11	149.70	118	302.05	50000	1703.75	1703.75	1.00	1704	6.35	7.17	7.17	95.44
23:00	1	68	11	149.70	118	302.62	50000	-	1703.75	1.00	1704	6.37	7.21	7.21	102.65

Averages: 85.15 11.00 149.70 119.15 299.30 50000.00

Total 102.65

PSH Mass Recovered in Vapor Phase = 14.57 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)
2255	90	1	0.0821	90	305.22222	8.0989692

Inputs are the green values.

Calculated values are yellow.

Constants are purple values.

Output are the blue values.

% Total Hydrocarbon to mg/m³ to ppmv

% total Hydrocarbon	=	mg/m³	=	ppmv
0.9020%		9,020.00		2255
0.9431%		9,431.00		2357.75
0.6815%		6,815.00		1703.75

Liquid-phase Hydrocarbon Recovery

(assumes gasoline product)

$V = \pi r^2 h$ = volume

Gallons removed determined at time of pick up

PSH Volume in Gallons=

21

PSH Mass in Pounds=

147.99

Total Hydrocarbon Recovery

PSH Mass Recovered in Vapor Phase =

102.65 lbs

14.57 gallons

PSH Mass Recovered in Liquid Phase =

147.99 lbs

21.00 gallons

TOTAL = 250.64 lbs

35.57 gallons

ATTACHMENT 1
MDPE Field Logs

MDPE FIELD NOTES

Site Name:	TNM Monument #10			Event #	1
Location:	Monument, NM			Arrive at site	5/7/2011 10:00
Date	5/7/2011				
Job#.	700376 082 01	SRS	TNM Monument 10	Start Vac:	5/7/2011 11:00
Phase.	MDPE	Unit	1107	Stop Vac	5/7/2011 23:00
Onsite Personnel:	M L Coggins			Leave Site	5/8/2011 1:30

GAUGING DATA

WELL#	BEFORE			AFTER			COMMENTS	
	PSH	GW	PSH-T	PSH	GW	PSH-T		
MW-2	22 15	22.16	0.01	-	23 69	-		
MW-3	21 50	21 51	0.01	-	22.43	-		
MW-1	21.86	21.87	0.01	-	22 75	-		
MW-7	-	22 79	-	-	22 90	-		
MW-6	-	24 11	-	-	24.25	-		
MW-5	-	21 62	-	-	21.87	-		
MW-4	-	20 37	-	-	20.47	-		
WASTE:	H2O	1326		PSH:	21		TOTAL (GAL)	1347

Sample Name	Analysis	Date:	Time:	Comments:
INFLUENT	ASTM D1945	7-May-11	12 00	
INFLUENT	ASTM D1945	7-May-11	17:00	
INFLUENT	ASTM D1945	7-May-11	22 00	
EFFLUENT	TPH/BTEX	7-May-11	17 00	

[illegible]

Start Date 5.7.11

MDPE FIELD DATA

TIME	SAMPLE TAKEN	Total Flow			Well Flow						Well Data									
		Inflet temp.	Diff.	Pressure	Inflet temp.	Diff.	Vac	FID	Propane	EXHAUST	COMMENTS									
		(°f)	Pressure	(In. h2O)	(°f)	Pressure	(In. Hg)	Composite	Tank	TEMP F	MW-1		MW-2		MW-3					
		6" Pitot	(INH2O)		2" Preso			(PPM)	(%-size)		VAC	PPM	VAC	PPM	VAC	PPM	VAC	PPM	VAC	PPM
11 00		120	0.25	0.8	90	120	11	50000+	36	1407	51	50000+	43	50000+	56	50000+				
12 00	*	121	0.25	0.8	92	120	11	50000+	36	1409	54	50000+	43	50000+	56	50000+				
13 00		121	0.25	0.8	92	120	11	50000+	35	1411	54	50000+	43	50000+	56	50000+				
14 00		120	0.25	0.8	96	120	11	50000+	34	1408	55	50000+	43	50000+	56	50000+				
15 00		120	0.25	0.8	96	120	11	50000+	33	1412	52	50000+	43	50000+	55	50000+				
16 00		120	0.25	0.8	96	120	11	50000+	32	1409	50	50000+	43	50000+	55	50000+				
17 00	**	120	0.25	0.8	92	120	11	50000+	29	1410	48	50000+	42	50000+	53	50000+				
18 00		118	0.25	0.8	89	119	11	50000+	27	1408	49	50000+	42	50000+	54	50000+				
19 00		108	0.4	1.6	81	118	11	50000+	26	1407	41	50000+	44	50000+	55	50000+				
20 00		100	0.4	1.6	75	118	11	50000+	25	1408	42	50000+	45	50000+	54	50000+				
21 00		92	0.4	1.6	70	118	11	50000+	22	1407	40	50000+	43	50000+	55	50000+				
22 00	*	91	0.4	1.6	70	118	11	50000+	20	1411	41	50000+	42	50000+	54	50000+				
23 00		91	0.4	1	68	118	11	50000+	18	1408	40	50000+	42	50000+	53	50000+				

Soil Vacuum Influence

Observation Well	MW-6
Extraction Well (EW)	MW-2
Distance (ft) to EW	98'
Time	In. H2O
12 00	0
17 00	0.11
22 00	0.12

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 #: 5230-5232

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: TNM Monument #10

Sample Id.: Influent #1
700376.082.01
Trace: 265992
Sample Temp.: N/A
Atmospheric Temp.: N/A
Pressure: N/A
Field Data: N/A
Sample Date: 5/07/11 Time: 12:00 pm
Sampled By: N/A
Analysis Date: 5/13/11
Analysis By: Andrew Dunn

Lab #: 5230
Quality Control Report: 1507

Analytical Results

<u>Gas Composition</u>	<u>Mol %</u>	<u>GPM</u>	<u>Vol %</u>	<u>Wt. %</u>
Nitrogen (N2):	92.7108	10.1465	88.8697	89.0755
Carbon Dioxide (CO2):	6.8790	1.1601	10.2283	10.3609
<u>Hydrocarbon Composition</u>	<u>Mol %</u>	<u>GPM</u>	<u>Vol. %</u>	<u>Wt. %</u>
Methane (CH4):	0.2303	0.0391	0.3403	0.1264
Ethane (C2H6):	0.0035	0.0009	0.0081	0.0036
Propane (C3H8):	0.0104	0.0028	0.0249	0.0156
Iso-Butane (C4H10):	0.0027	0.0009	0.0078	0.0054
N-Butane (C4H10):	0.0482	0.0151	0.1324	0.0957
Iso-Pentane (C5H12):	0.0230	0.0084	0.0734	0.0568
N-Pentane (C5H12):	0.0217	0.0078	0.0688	0.0537
Hexane+ (C6H14):	0.0703	0.0303	0.2465	0.2063
Totals	100.0000	11.4120	100.0000	100.0000

Comments - Additional Data

BTU -dry (BTU/ft ³):	9.7	Z-Comp. Factor-dry:	0.99954
BTU -water vapor sat.(BTU/ft ³):	10.4	Z-Comp. Factor-water vapor sat.:	0.99454
Specific Gravity -dry:	1.0072	14.65 psi Pressure Base	
Specific Gravity-water vapor sat.:	1.0055		

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: TNM Monument #10

Sample Id.: Influent #2
700376.082.01
Trace: 265993

Sample Temp.: N/A
Atmospheric Temp.: N/A
Pressure: N/A
Field Data: N/A
Sample Date: 5/07/11 Time: 5:00 pm
Sampled By: N/A
Analysis Date: 5/13/11
Analysis By: Andrew Dunn

Lab #: 5231
Quality Control Report: 1507

Analytical Results

<u>Gas Composition</u>				
	<u>Mol %</u>	<u>GPM</u>	<u>Vol %</u>	<u>Wt. %</u>
Nitrogen (N2):	94.3073	10.3209	90.9975	91.1106
Carbon Dioxide (CO2):	5.3848	0.9081	8.0594	8.1552
<u>Hydrocarbon Composition</u>				
	<u>Mol %</u>	<u>GPM</u>	<u>Vol. %</u>	<u>Wt. %</u>
Methane (CH4):	0.0469	0.0080	0.0697	0.0259
Ethane (C2H6):	0.0000	0.0000	0.0000	0.0000
Propane (C3H8):	0.0014	0.0004	0.0035	0.0022
Iso-Butane (C4H10):	0.0018	0.0006	0.0052	0.0036
N-Butane (C4H10):	0.0427	0.0134	0.1182	0.0854
Iso-Pentane (C5H12):	0.0189	0.0069	0.0605	0.0468
N-Pentane (C5H12):	0.0186	0.0067	0.0592	0.0463
Hexane+ (C6H14):	0.1776	0.0767	0.6268	0.5241
Totals	100.0000	11.3416	100.0000	100.0000

Comments - Additional Data

BTU -dry (BTU/ft ³):	12.5	Z-Comp. Factor-dry:	0.99957
BTU -water vapor sat (BTU/ft ³):	13.3	Z-Comp. Factor-water vapor sat.:	0.99469
Specific Gravity -dry:	1.0019	14.65 psi Pressure Base	
Specific Gravity-water vapor sat.:	1.0001		

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: TNM Monument #10

Sample Id.: Influent #3
700376.082.01
Trace: 265994

Sample Temp.: N/A
Atmospheric Temp.: N/A
Pressure: N/A
Field Data: N/A
Sample Date: 5/07/11 Time: 10:00 pm
Sampled By: N/A
Analysis Date: 5/13/11
Analysis By: Andrew Dunn

Lab #: 5232
Quality Control Report: 1507

Analytical Results

Gas Composition				
	Mol %	GPM	Vol %	Wt. %
Nitrogen (N2):	94.4165	10.3327	91.3909	91.5473
Carbon Dioxide (CO2):	5.2801	0.8904	7.9278	8.0257
Hydrocarbon Composition				
	Mol %	GPM	Vol. %	Wt. %
Methane (CH4):	0.1614	0.0274	0.2409	0.0894
Ethane (C2H6):	0.0044	0.0012	0.0104	0.0046
Propane (C3H8):	0.0075	0.0021	0.0183	0.0115
Iso-Butane (C4H10):	0.0082	0.0027	0.0236	0.0164
N-Butane (C4H10):	0.0397	0.0125	0.1103	0.0797
Iso-Pentane (C5H12):	0.0191	0.0069	0.0614	0.0475
N-Pentane (C5H12):	0.0184	0.0066	0.0589	0.0460
Hexane+ (C6H14):	0.0445	0.0192	0.1577	0.1319
Totals	100.0000	11.3017	100.0000	100.0000

Comments - Additional Data

BTU -dry (BTU/ft ³):	7.2	Z-Comp. Factor-dry:	0.99959
BTU -water vapor sat.(BTU/ft ³):	8.0	Z-Comp. Factor-water vapor sat.:	0.99480
Specific Gravity -dry:	0.9979	14.65 psi Pressure Base	
Specific Gravity-water vapor sat.:	0.9961		

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			
<u>Gas Composition</u>			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
<u>Hydrocarbon Composition</u>	Mol %	Mol %	MDL	RL	% Deviation
			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/ft3):	1323.4
BTU -water vapor sat. (BTU/ft3):	1316.6	BTU -water vapor sat. (BTU/ft3):	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

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

8808 Camp Bowie Blvd. West, Suite 180
Ft. Worth, Texas 76116
Tel (817) 201-5260
Fax (817) 560-4336

Company Name: TACON (C/O PUL - ALL AMERICAN) Phone #: 806-742-0742

Address: (Street, City, Zip) 921 N BIVINS AVE, AMARILLO, TX 79107 Fax #:

Contact Person: SIMON WINSHE E-mail: SWINSHE@TACONLAB.COM

Invoice to: (If different from above) SIMON HENRIK

Project #: 700376.082.01 (SIZE# MONUMENT#10) Project Name: TACON MONUMENT #10

Project Location (including state): MONUMENT, NM Sampler Signature: [Signature]

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by: Company: Date: Time:

M. L. COLEMAN 9 MAY 11

Relinquished by: Company: Date: Time:

TACONLAB

Relinquished by: Company: Date: Time:

Brenda K. Tracey 5/9/11

Relinquished by: Company: Date: Time:

4/15 PM

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

INST OBS COR

Received by: Company: Date: Time:

INST OBS COR

Received by: Company: Date: Time:

INST OBS COR

Received by: Company: Date: Time:

INST OBS COR

Received by: Company: Date: Time:

INST OBS COR

Received by: Company: Date: Time:

INST OBS COR

Received by: Company: Date: Time:

LAB USE

ONLY

Intact Y/N

OBS COR

Headspace Y/N/NA

Log-In/Review

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting

Limits Are Needed

MAY 10 2011

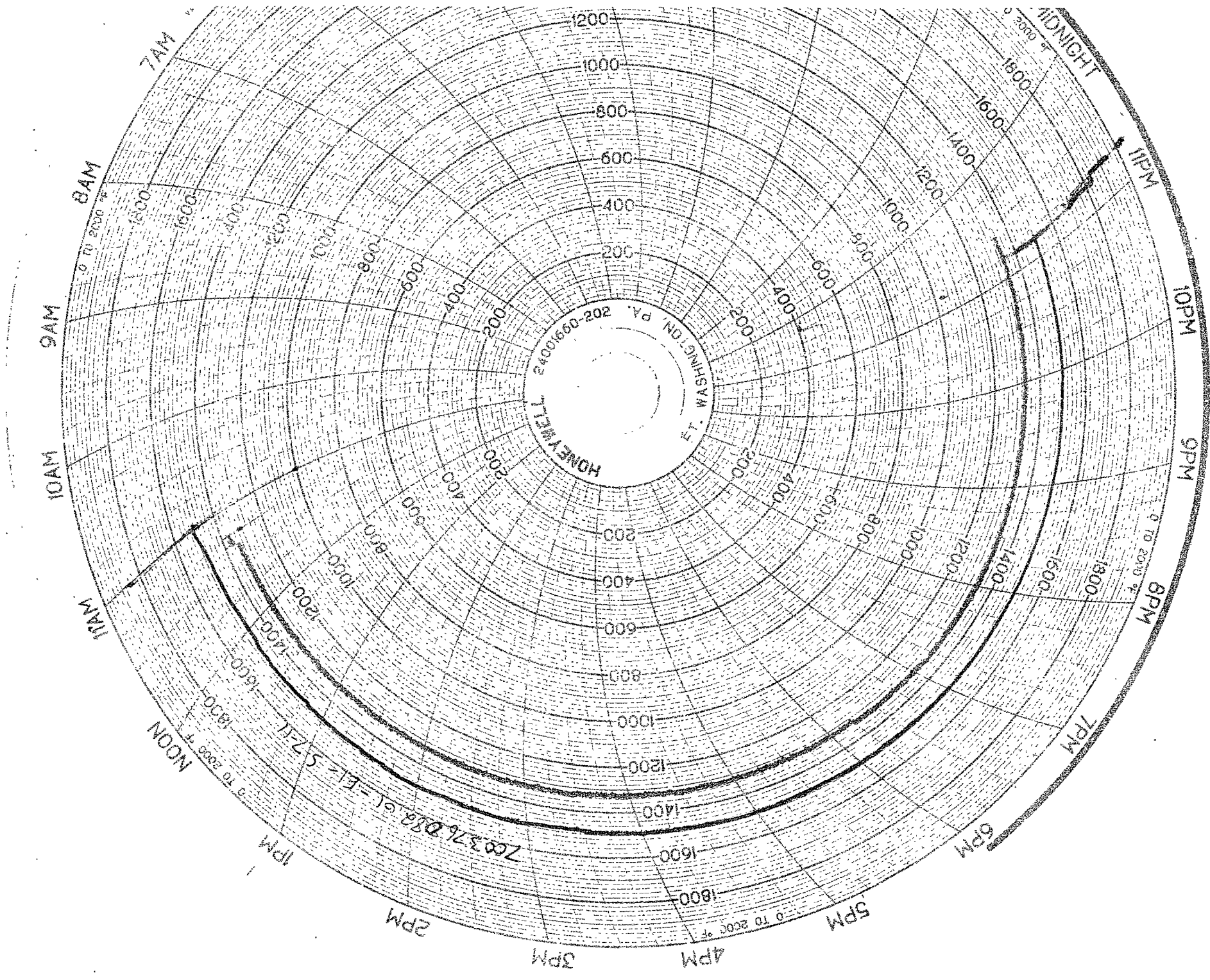
Carrier #

REMARKS:

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

ORIGINAL COPY

ATTACHMENT 3
Oxidizer Charts



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

invoice

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

LEASE: TNM MONUMENT #10
 SRS TNM MON.10

PAGE 1

INVOICE DATE			INVOICE NO.
5/30/11			197389
QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
	05/09/11 WT. 444985 JOB 700376-082-01		
3.25	HRS HAZMAT, DOT, COATED VACUUM TRUCK W/OPER	108.00	351.00
32.00	BBLS DISPOSAL FEE	0.85	27.20
	EMPTY TANK. HAULED 32 BBLS FLUID FROM LOCATION TO DISPOSAL.		
		SUBTOTAL	378.20
		TAX 5.5%	20.80
		INVOICE TOTAL	399.00



Thank You
 ORIGINAL

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

24-HOUR SERVICE, CALL
LOVINGTON 395-4948
TATUM 398-4960

GANDY CORPORATION

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

78532
P.O. BOX 2140
LOVINGTON, NEW MEXICO 88260

444985

Date 5/9/11 Truck No. 357
Company Plains Pipeline Purchase Order No. _____ Invoice Number _____
From TNM Monument #10 Rig No. _____ Location _____
To Lease _____ Well No. _____ Location _____

Time Out	A.M.	P.M.	Time In	A.M.	P.M.	TIME	RATE	AMOUNT
Diesel	Brine Water	Fresh Water						
Crude Oil	Salt Water	Acid	Bbls. Hauled	32			.85	27.20
Driver, Operator or Pusher	EMAIL COPY to							
Helper	SWALSH@TalonLpe.com							
Helper	- Richard C. Lennox					3.25	108.00	351.00
Helper	Job Number							
Other Charges	700376.082.01							
Description of Work:								
Empty TANK OF 32								
BBLS TAKE TO THE								
SPRINKLE								
SRS # TNM Mon. 10							Sub Total	378.20
Authorized by: Joan Henry 05/20/2011							Sales Tax	20.81
							TOTAL	399.01

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