AP - 37

STAGE 2 REPORT (Event 5)

Date 6-6-13

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

AUSTIN
911 W. Anderson Lane
Suite 202
Austin, Texas 78757
Phone 512.989.3428
Fax 512.989.3487

MIDLAND
2901 State Highway 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

SAN ANTONIO
11 Commercial Place
Schertz, Texas 78154
Phone 210.265.8025
Fax 210.568.2191

OKLAHOMA CITY
7700 North Hudson
Suite 10
Oklahoma City, Oklahoma
73116
Phone 405.486.7032

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88241
Phone 505.393.4261
Fax 505.393.4658

ARTESIA
408 W. Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 505.746.8905

MOBILE DUAL PHASE EXTRACTION REPORT
LOVINGTON DEEP 6 PIPELINE RELEASE
LEA COUNTY, NEW MEXICO
SRS # 2002-10312
NMOCD# AP-037

PREPARED FOR:

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

PREPARED BY:

TALON/LPE
921 N. BIVINS
AMARILLO, TEXAS 79107

DISTRIBUTION:

COPY 1 - PLAINS MARKETING, L.P. – DENVER CITY
COPY 2 - PLAINS MARKETING, L.P. - HOUSTON
COPY 3 – NMOCD – SANTA FE
COPY 4 – TALON/LPE

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
EMERGENCY RESPONSE

Toll Free: 866.742.0742
www.talonlpe.com

JUNE 6, 2013

TABLE OF CONTENTS

Section Page

Attachments:

I. MDPE SUMMARY REPORT AND WASTE DISPOSITION

A. MDPE Results

The following report summarizes data collected during the 24-hour High Vacuum Multi-Phase Extraction (MDPE) event conducted on March 26-27, 2013, at the Lovington Deep 6 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 24 hours (1.0 days) of PSH recovery was performed on MW2, MW13, MW-14, MW16 & MW17 for 24 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. Two 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. Both influent samples were tested for Total-Gas Analysis (Hydrocarbon Composition) by GPA 2261-C6+. 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 **367.88 equivalent gallons of hydrocarbons (Total)** were removed during the event. The combined volume of hydrocarbons were comprised of approximately **314 gallons of PSH (liquid phase)** and approximately **53.88 gallons as off-gas vapor**. The calculations used to estimate the off-gas vapor mass recovered reflect the mass of total hydrocarbons recovered and does not necessarily equate to an equal mass of the product released. The mass recovery calculations may be affected by variations in the specific gravity of hydrocarbon released, age of release, activity of aerobic and/or anaerobic processes, and site specific geochemical factors.

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 178.22 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

Two 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 influent concentration was recorded as 19,310 ppmv for Hydrocarbon Composition. Laboratory analytical results can be found in Attachment 2.

C. Waste Management and Disposition

A cumulative total of 3,140 gallons of fluid were generated during this event. The fluids were temporarily transferred to an on-site storage tank prior to being transferred to an authorized disposal facility. A copy of the waste ticket can be found in Attachment 4.

II. SYSTEM OPERATION DATA AND MASS RECOVERY CALCULATIONS

Formulae:

$$\text{Concentration (C\_mg/l)} = \frac{\text{C\_ppmv x Mol. wt. in mg(estimated) x 1000 x 0.000001}}{\text{0.0821 x Temp (K)}}$$

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

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

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

$$\frac{\text{8.34 lbs}}{\text{gallon water}} \times \text{0.82 average specific gravity of light crude (estimated)} = \frac{\text{6.84 lbs light crude}}{\text{gallon}}$$

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 (ppm)	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)
16:30	0.5	64	20	272.18	63.1	181.00	20957	-	19310.00	1.87	36175	43.51	26.19	13.09	13.09
17:00	0.5	64	19	258.57	64.4	176.82	11192	19310.00	19310.00	1.00	19310	23.22	14.81	7.41	20.50
18:00	1	64	19	258.57	65.3	171.81	18319	-	19310.00	1.64	31806	38.01	24.41	24.41	44.91
19:00	1	62	19	258.57	64.9	171.81	10875	-	19310.00	0.95	18418	22.24	14.26	14.26	59.18
20:00	1	60	19	258.57	65.1	172.21	4736	-	19310.00	0.42	8171	9.90	6.37	6.37	65.55
21:00	1	60	18.5	251.77	65.6	176.77	11386	-	19310.00	1.02	19645	23.81	15.73	15.73	81.28
22:00	1	60	18	244.96	62.7	176.54	12577	-	19310.00	1.12	21700	26.30	17.36	17.36	98.64
23:00	1	58	18	244.96	61.9	175.75	9871	-	19310.00	0.88	17031	20.72	13.81	13.61	112.25
0:00	1	56	15.5	210.94	59.6	169.99	5788	-	19310.00	0.52	9986	12.20	8.66	8.66	120.92
1:00	1	54	16	217.74	64.1	193.97	11358	-	19310.00	1.01	19596	24.03	17.42	17.42	138.34
2:00	1	54	15.5	210.94	65.8	200.17	17535	-	19310.00	1.56	30426	37.31	27.92	27.92	166.25
3:00	1	52	15	204.14	76.3	219.51	26111	-	19310.00	2.33	45050	55.45	45.50	45.50	211.76
4:00	1	52	15.5	210.94	78.2	218.46	20841	-	19310.00	1.86	35958	44.26	36.15	36.15	247.90
5:00	1	52	15.5	210.94	68.7	204.78	43269	-	16890.00	0.87	14616	18.21	13.94	13.94	261.85
6:00	1	52	15.5	210.94	67.9	203.13	40787	-	16890.00	0.82	13776	17.17	13.04	13.04	274.88
7:00	1	52	15.5	210.94	67.1	202.38	50000	-	16890.00	1.00	16890	21.05	15.92	15.92	290.81
8:00	1	52	15.5	210.94	66.5	201.47	50000	-	16890.00	1.00	16890	21.05	15.85	15.85	306.66
9:00	1	58	17	231.35	41.9	150.52	50000	-	16890.00	1.00	16890	20.80	11.71	11.71	318.36
10:00	1	64	15.5	210.94	38.8	152.12	48101	-	16890.00	0.96	16249	19.78	11.25	11.25	329.61
11:00	1	70	17	231.35	20.1	103.07	25548	-	16890.00	0.51	8630	10.39	4.00	4.00	333.62
12:00	1	74	17	231.35	23	109.84	15801	-	16890.00	0.31	5270	6.30	2.59	2.59	336.20
13:00	1	80	17	231.35	27.8	120.06	27321	-	16890.00	0.55	9229	10.90	4.89	4.89	341.10
14:00	1	82	17.5	238.16	27.9	117.74	50000	-	16890.00	1.00	16890	19.88	8.75	8.75	349.85
15:00	1	82	18	244.96	32.6	124.99	50000	16890.00	16890.00	1.00	16890	19.88	9.27	9.27	359.11
16:00	1	82	18	244.96	33.7	126.78	50000	-	16890.00	1.00	16890	19.88	9.42	9.42	368.54
Averages:		62.40	17.08	244.34	54.91	176.22	27283.32						Total	368.54	

PSH Mass Recovered in Vapor Phase = 53.88 gallons

FID maximum Concentration = 50,000 PPM

Ex: Conversion from ppmv to mg/L (influent 1)

Measured Conc.	Molecular Wt.	Pressure	Gas Constant	Temp.	Temp.	Conc.
(ppmv)	(Grams)	(atm)	(atm.liter/K.mole)	(F)	(K)	(C_mg/l)
36175	28.7110	1	0.0821	64	290.7777778	43.5063738

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

Liquid-phase Hydrocarbon Recovery
Π * r2 * h = volume

Total Hydrocarbon Recovery

PSH Mass Recovered in Vapor Phase =	368.54	lbs
	53.88	gallons
PSH Mass Recovered in Liquid Phase =	2147.76	lbs
	314.00	gallons
TOTAL =	2516.30	lbs
	367.88	gallons

Gallons removed determined at time of pick up

PSH Volume in Gallons=	314
PSH Mass in Pounds=	2147.76

SG = 0.82

% Vol. (Wt. %) Hydrocarbon to ppmv - Influent 1

Compound	Molecular Weight (g/mol)	Wt. %	=	ppmv
Methane (CH4)	16.04	0		0.00
Ethane (C2H6)	30.07	0		0.00
Propane (C3H8)	44.10	0		0.00
Iso-Butane (C4H10)	58.12	0.004		40.00
N-Butane (C4H10)	58.12	0.016		160.00
Iso-Pentane (C4H12)	72.15	0.053		530.00
N-Pentane (C5H12)	72.15	0.93		9300.00
Hexane+ (C6H14)	97.40	0.926		9260.00
			Total	19310.00

*Hexane+ is treated as 60% hexanes, 30 % heptanes, and 10 % octanes, as such its (0.6*93.1887)+(0.3*100.2019)+(0.1*114.2285) = 97.3966

Molecular Weight Calculations

component	Molecular Weight (g/mol)	mol%
Nitrogen (N2)	28.016	96.7180
Methane (CH4)	16.0425	0.0000
Carbon Dioxide (CO2)	44.011	2.9280
Ethane (C2H6)	30.069	0.0000
Propane (C3H8)	44.0956	0.0000
Iso-Butane (C4H10)	58.1222	0.0020
N-Butane (C4H10)	58.1222	0.0090
Iso-Pentane (C4H12)	72.1488	0.0210
N-Pentane (C5H12)	72.1488	0.0370
Hexane+	97.3966	0.2850
	Total	100
	Calculated MW	28.7110

% Vol. (Wt. %) Hydrocarbon to ppmv - Influent 2

Compound	Molecular Weight (g/mol)	Wt. %	=	ppmv
Methane (CH4)	16.04	0		0.00
Ethane (C2H6)	30.07	0		0.00
Propane (C3H8)	44.10	0		0.00
Iso-Butane (C4H10)	58.12	0		0.00
N-Butane (C4H10)	58.12	0.02		200.00
Iso-Pentane (C4H12)	72.15	0.057		570.00
N-Pentane (C5H12)	72.15	0.117		1170.00
Hexane+ (C6H14)	97.40	1.495		14950.00
			Total	16890.00

*Hexane+ is treated as 60% hexanes, 30 % heptanes, and 10 % octanes, as such its (0.6*93.1887)+(0.3*100.2019)+(0.1*114.2285) = 97.3966

Molecular Weight Calculations

component	Molecular Weight (g/mol)	mol%
Nitrogen (N2)	28.016	95.1180
Methane (CH4)	16.0425	0.0000
Carbon Dioxide (CO2)	44.011	4.3380
Ethane (C2H6)	30.069	0.0000
Propane (C3H8)	44.0956	0.0000
Iso-Butane (C4H10)	58.1222	0.0000
N-Butane (C4H10)	58.1222	0.0100
Iso-Pentane (C4H12)	72.1488	0.0230
N-Pentane (C5H12)	72.1488	0.0470
Hexane+	97.3966	0.4660
	Total	100
	Calculated MW	29.0668

Calculated MW= $\frac{\text{sum (individual component MW x their reported mol\%)}}{100}$

ppmv= % Vol x 10,000

ATTACHMENT 1

MDPE Field Logs

MDPE FIELD NOTES					
Site Name:	Lovington Deep 6			Event #:1	
Location:	Lea County, NM			Arrive at site:	3/26/2013 15:00:00 PM
Date:	3/26/2013				
Job#:	700376.051.06	SRS:	2002-10312	Start Vac:	3/26/2013 16:00:00 PM
Phase:	MDPE5	Unit:	1107	Stop Vac:	3/27/2013 16:00:00 PM
Onsite Personnel:	L. Bridges & B. Huntington			Leave Site:	3/27/2013 17:30:00 PM

GAUGING DATA

WELL#	BEFORE			AFTER			COMMENTS
	PSH	GW	PSH-T	PSH	GW	PSH-T	
MW-2	63.56	67.98	4.42	-	64.22	-	Stinger set @ 65'
MW-13	64.44	68.24	3.80		64.45		Stinger set @ 65'
MW-14	65.08	65.31	0.23	-	64.83	-	Stinger set @ 65'
MW-15	64.84	64.91	0.07	Not Gauged			
MW-16	64.65	65.09	0.42	-	64.71	-	Stinger set @ 65'
MW-17	64.05	68.36	4.31	-	65.66	-	Stinger set @ 65'
MW-3		64.78		Not Gauged			
WASTE:	H2O:	3040		PSH:	314		TOTAL (GAL): 3354

Sample Name	Analysis	Date:	Time:	Comments:
INFLUENT	GPA 2261	26-Mar-13	17:00:00 PM	FID = 11192
INFLUENT	GPA 2261	27-Mar-13	15:00:00 PM	FID = >50000
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Notes:
Tank #1 - Total 78.25" with PSH@68.75" = Total 2443 gallons with 308 gallons PSH and 2135 gallons water
Tank #2 - Total 27.125" with PSH@26.875" = Total 697 gallons with 6 gallons PSH and 691 gallons water

Start Date: 26-Mar-13

MDPE FIELD DATA - Event 4 1107 24hr

		Well Flow						Well Data				
TIME	SAMPLE TAKEN *	Inflent temp. (°f)	Diff. Pressure (INH20) 2" Preso	Vac (In.Hg)	FID Composite (PPM)	Propane Tank (%-size) 1000 Gal.	EXHAUST TEMP F	COMMENTS: MW-14 VAC (INH2O)	MW-2 VAC (INH2O)	MW-16 VAC (INH2O)	MW-17 VAC (INH2O)	MW-13 VAC (INH2O)
16:30		64	63.1	20	20967	85	1413	25.6	7.3	6.5	5.5	27.1
17:00	*	64	64.4	19	11192	85	1411	25.3	7.5	6.8	5.8	27.3
18:00		64	65.3	19	18319	85	1413	24.8	7.7	7.1	6	26.9
19:00		62	64.9	19	10675	84	1414	23.7	7.6	7.7	6.3	27.4
20:00		60	65.1	19	4736	84	1415	21.5	7.9	7.4	6.1	27.7
21:00		60	65.6	18.5	11386	83	1408	21	8.5	7.6	6.8	26.1
22:00		60	62.7	18.5	12577	82	1409	20.4	8.4	7.3	7.5	25.8
23:00		58	61.9	18	9871	81	1413	20.6	8.5	7	7.9	25.9
0:00		56	59.6	18	5788	80	1416	20.2	8.9	6.9	8.9	25.5
1:00		54	64.1	15.5	11358	79	1414	19.3	8.7	7.5	8.6	25.4
2:00		54	65.9	16	17635	78	1415	18.5	9.1	7.4	8.1	25.6
3:00		52	76.3	15.5	26111	78	1412	16.1	9.3	7.1	8.5	25.1
4:00	*	52	78.2	15	20841	77	1410	14	9.8	7.6	8	25.2
5:00		52	68.7	15.5	43269	76	1402	15.3	9.1	7.2	8.3	25.2
6:00		52	67.6	15.5	40787	76	1407	14.8	9.6	7.3	8.4	25.7
7:00		52	67.1	15.5	>50k	75	1412	17.2	12.8	12.6	9.7	24.7
8:00		52	66.5	15.5	>50k	74	1414	17.8	12.6	12.3	9.6	25.5
9:00		58	41.9	15.5	>50k	73	1411	14.1	10.2	6.9	7.6	23.5
10:00		64	38.8	17	48101	72	1409	13.9	12.2	7.2	5.3	21.6
11:00		70	20.1	15.5	25548	71	1410	10.9	11.7	5.6	4.7	20.6
12:00		74	23	17	15601	71	1411	10.8	10.8	4.5	4.4	20.1
13:00		80	23	17	27321	70	1412	13.7	9.8	8.7	5.6	22.6
14:00		82	27.9	17.5	>50k	70	1408	13.6	10.1	5.2	5.1	23.7
15:00	*	82	32.6	18	>50k	69	1411	14	10.3	5.8	4.2	23.1
16:00		82	33.7	18	>50k	68	1414	14.1	10.3	5.7	4.9	23.6

Soil Vacuum Influence

Observation Well	MW-15
Extraction Well (EW)	
Time:	In.H2O
17:00	0
4:00	0.09
15:00	0.05

ATTACHMENT 2

Laboratory Analytical Results

HOUSTON LABORATORIES
2320 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis

Number: 1030-2013040004-001A

Simon I. Walshe, CAPM
Talon/LPE
921 N. Bivins St.
Amarillo Texas 79107

April 01, 2013

Sample ID:		Sampled By:	BH
Station Name :	Influent #1	Sample Of:	Gas Spot
Station Number :		Sample Date:	03/26/2013 17:00
Station Location :	Lovington, NM.	Sample Conditions:	N.G. Pres. , N.G. Temp.
Sample Point:		PO / Ref. No:	

ANALYTICAL DATA

Components	Mol %	Wt %	GPM at 14.650 psia	Method	Lab Tech.	Date Analyzed
				GPA-2261 M	JD	4/1/2013 11:12:13 AM
Nitrogen	96.718	94.416				
Carbon Dioxide	2.928	4.490				
Iso Butane	0.002	0.004	0.001			
n-Butane	0.009	0.018	0.003			
Iso Pentane	0.021	0.053	0.008			
n-Pentane	0.037	0.093	0.013			
Hexanes Plus	0.285	0.926	0.124			
	100.000	100.000	0.149			
	C2 +	C3 +	iC5 +			
GPM TOTAL :	0.149	0.149	0.145			
Relative Density	Real Gas			0.9908		
Calculated Molecular Weight				28.70		
Compressibility Factor				0.9996		

GPA 2172-09 Calculation :

Calculated Gross BTU per ft³ @14.650 psia & 60°F

Real Gas: Dry BTU: 17
Water Sat. Gas_Base BTU: 17

Comments : H2O Mol% - 1.75_Wt% - 1.106

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP or GPA guidelines for quality assurance, unless otherwise stated

HOUSTON LABORATORIES
8820 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis

Number: 1030-2013040004-002A

Simon I. Walshe, CAPM
Talon/LPE
921 N. Bivins St.
Amarillo Texas 79107

April 01, 2013

Sample ID:
Station Name : Influent #2
Station Number :
Station Location : Lovington, NM.
Sample Point:

Sampled By: BH
Sample Of: Gas Spot
Sample Date: 03/27/2013 15:00
Sample Conditions: N.G. Pres. , N.G. Temp.
PO / Ref. No:

ANALYTICAL DATA

Components	Mol %	Wt %	GPM at 14.650 psia	Method	Lab Tech.	Date Analyzed
				GPA-2261 M	JD	4/1/2013 11:30:54 AM
Nitrogen	95.118	91.741				
Carbon Dioxide	4.336	6.570				
n-Butane	0.010	0.020	0.003			
Iso Pentane	0.023	0.057	0.008			
n-Pentane	0.047	0.117	0.017			
Hexanes Plus	0.466	1.495	0.202			
	100.000	100.000	0.230			
	C2 +	C3 +	iC5 +			
GPM TOTAL :	0.230	0.230	0.227			
Relative Density	Real Gas			1.0028		
Calculated Molecular Weight				29.04		
Compressibility Factor				0.9996		

GPA 2172-09 Calculation :

Calculated Gross BTU per ft³ @14.650 psia & 60°F

Real Gas: Dry BTU: 27
Water Sat. Gas_Base BTU: 27

Comments : H2O Mol% - 1.75_Wt% - 1.093

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP or GPA guidelines for quality assurance, unless otherwise stated

SPL, Inc.
Analysis Request Chain of Custody Record

SPL

SPL Work Order No.:	
Acct. Mate Code:	NEEDS CLIENT CODE
Dept. Code:	
SPL Page	1 of 1

Report To: (Company Name):	Talon/LPE, Ltd.
Address:	921 N. Bivins St.
City/State/Zip:	Amarillo TX 79107
Contact:	Simon I. Walshe, CAPM — swalshe@talonlpe.com
Phone:	806-350-8872 — Fax: 806-467-0622
Invoice To: (Company Name):	Talon/LPE, Ltd.
Address:	921 N. Bivins St.
City/State/Zip:	Amarillo TX 79107
Contact:	Talon - Accounts Payable — acctpayables@talonlpe.com
Phone:	806-467-0607 — Fax: 806-372-6603
Client PO# or Ref. No.:	N/A
Contract/Proposal #: (i.e. SPLQ####)	**SPLQ5270**

Project/Station Name:	Project/Station Number:	Project/Station Location:
~~Influent Soil Vapor~~	700376.071.06	Lovington NM

Special Instructions: Lovington Deep

Indicate Billing Type: (Place "X", where appropriate)

Net 30 day Acct.		Check #	
Credit Card		<<<Contact SPL, Inc for CC payment arrangements.	

Requested TAT*: 10 business days

* Surcharges May Apply (See quote for details)

† Terms: Cylinders will be rented for $10/cyl. All cylinders checked out are to be returned within 21 days, whether they contain sample or not. Cylinders not returned after 30 days will be considered lost and will be billed at current replacement cost.

Requested Analysis (Place an "X" next to Sample ID below)

Sample ID (used to log/track sample)	Sample Date	Sample Time	Sample Type (Gas/Liq. /Solid)	Duplicate	Composite	Spot	Cylinder #	Date Out	Date In	GPA-2261-C6+	Comments
Influent #1	3-26-13	1200	Gas							x	
Influent #2	3-27-13	1500	Gas							x	

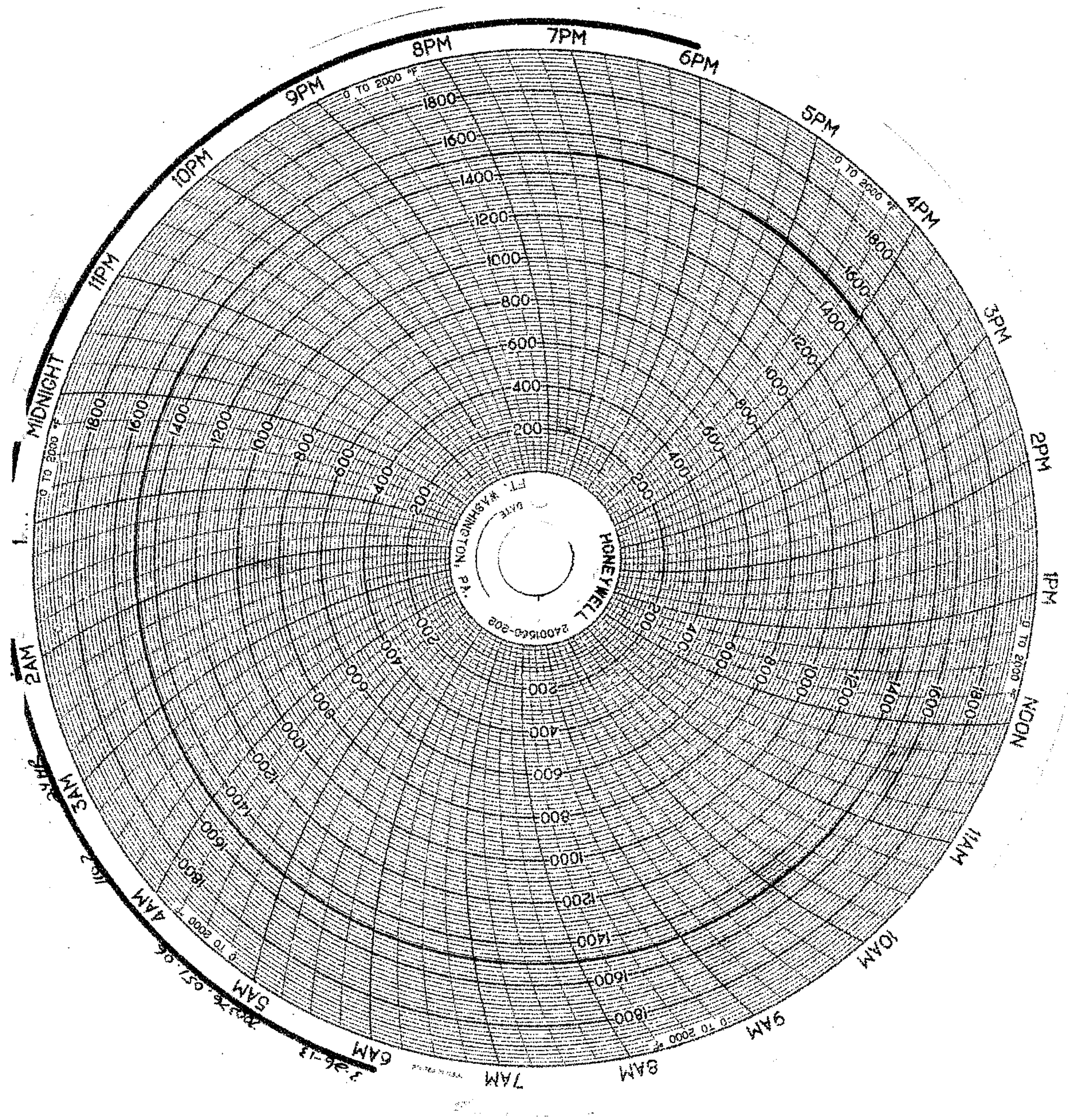
(Cylinder Tracking Info† applies to Cylinder #, Date Out, Date In.)

Sampled By-Print Name: Bryan Huntington Signature: [signature]			Received By-Company:			
Relinquished By-Print Name: Bryan Huntington Signature: [signature]	Date: 3-27-13	Time:	Received By-Print Name: Cris Castillo Signature: [signature]	Date: 4/1/13	Time: 9:45
Relinquished By-Print Name: Signature:	Date:	Time:	Received By-Print Name: Signature:	Date:	Time:
Relinquished By-Print Name: Signature:	Date:	Time:	Received By-Print Name: Signature:	Date:	Time:

Choose SPL Facility>>>	Corporate HQ - Houston, TX	Ship to Address:	8820 Interchange Dr., Houston, TX 77054	Phone:	713.660.0901

ATTACHMENT 3

Oxidizer Charts



HONEYWELL
FT. WASHINGTON, PA.
DATE
0 TO 2000 °F
MIDNIGHT
2AM
3AM
4AM
5AM
6AM
7AM
8AM
9AM
10AM
11AM
NOON
1PM
2PM
3PM
4PM
5PM
6PM
7PM
8PM
9PM
10PM
11PM

ATTACHMENT 4

Waste Ticket

24-HOUR SERVICE CALL
LOVINGTON [illegible]
TATUM [illegible]

GANDY CORPORATION

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

P.O. BOX 2140
LOVINGTON, NEW MEXICO 88260

478025

Date [illegible] Truck No. [illegible]

Purchase Order No. ____ Invoice Number ____

Company [illegible]

From [illegible] 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 Wtr. / Salt Wtr. / Fresh Water / Acid / Bbls. Hauled			
Driver, Operator or Pusher			
Helper			
Helper			
Helper			
Other Charges			

Description of Work: [illegible]

Sub Total ____
Sales Tax ____
TOTAL ____

Authorized by ____