

January 9, 2019

Raymond H. Huff, REPA, Vice President SCS Engineers 3900 Kilroy Airport Way, Ste 100 Long Beach, CA 90806

via email

Subject: Response to Letter Submittal for Perimeter Migration Monitoring Well 205R, Sunshine Canyon Landfill,

SWIS No. 19-AA-2000

Dear Mr. Huff,

On October 25, 2018, the Sunshine Canyon Landfill Local Enforcement Agency (SCL LEA) received a letter in response to increasing levels of methane identified in perimeter mitigation monitoring well 205R located at SCL. Based on the review by the SCL LEA and CalRecycle, it was determined that the justification and support for conclusions made in the report were not adequate and hence SCL LEA does not agree with the conclusions.

The SCL LEA's justification and concerns are as follows:

- 1. The data presented by SCS Engineers (SCS) from compliance well 205R (D) clearly indicates that the sample collected/monitored contains CH4, CO2, and trace VOC compounds typical of landfill gas (LFG).
- 2. The letter did not specify whether or not SCS has performed any gas sampling and testing from the nearby oil fields to determine the nature and characteristics of the gas from it.
- 3. There was not an indication that SCS had taken samples from the landfill gas control system (GCCS) to determine the baseline characteristics of the LFG being generated from the landfill and compare it with gas detected from compliance well 205R(D).
- 4. SCS has stated (page 2), that the typical ratio of CH4 to CO2 in LFG ranges was from 1.0 to 1.2. However, gas concentrations of CH4 (19.8%) and CO2 (45.2%) detected on August 23, 2018 (Table 2) clearly indicate ratios close to what CH4/CO2 ratios are SCS has stated. There is no discussion about this specific event.
- 5. In addition, SCS should determine whether data from Probe 205R(D) (based on the field data presented by SCS for fixed gases and VOCs) is a variation of the concentrations due to spatial variability, (e.g. gas plume source, distance from source, gas extraction system zone of influences, etc.).
- 6. SCL LEA further suggests the operator (through their consultant) collect samples and perform testing from landfill gas control system as well as the oil field and then compare the results from Probe 205R(D) to these two sources. To adequately perform such a comparison, a one-year study of both sources should be conducted.

If you have questions, please feel free to contact me at (626) 430 -5540.

Sincerely,

Shikari Nakagawa-Ota, R.E.H.S SCL LEA Program Manager

Enclosure

cc: Megan Emslander, CalRecycle (via LEA Portal)
David Thompson, SCL LEA (Electronic copy)
Jose Gutiérrez, SCL LEA (Electronic copy)
Dee Hanson-Lugo, SCL LEA (Electronic copy)
George Kashikarin, SCL LEA (Electronic copy)
Patricia Hundt, SCL LEA (Electronic copy)
Chris Coyle, SCL (Electronic copy)
Josh Mills, SCL (Electronic copy)

# SCS ENGINEERS

October 24, 2018 File No. 01208033.29

Ms. Shikari Nakagawa-Ota, REHS Chief Environmental Health Specialist Local Enforcement Agency (LEA) Program Los Angeles County Department of Public Health 5050 Commerce Drive Baldwin Park, California 91706

Subject: Perimeter Migration Monitoring Well 205R, Sunshine Canyon Landfill, 14747 San

Fernando Road, Sylmar, California 91342 (SWIS Facility 19-AA-2000)

Dear Ms. Nakagawa-Ota:

This letter has been prepared by **SCS Engineers (SCS)** on behalf of Sunshine Canyon Landfill (SCL), in response to increasing levels of methane (CH<sub>4</sub>) identified in perimeter migration monitoring well 205R located at SCL (Note: we refer to each monitoring location as a well, and each screened interval at a given location as a probe). While methane levels identified in the deeper probes within this well are still below the regulatory threshold of 5 percent by volume, they have been increasing in concentration over the past four years, and have slightly exceeded 3% by volume.

## BACKGROUND

SCL is an open, active canyon landfill operation, with 363 permitted acres, and accepts approximately 8,000 tons of municipal solid waste (MSW) per day. SCL is situated at the eastern end of the Santa Susana Mountains and is bounded to the west and south by mountains and open space, to the north by mountains and Interstate 5, and to the east by San Fernando Road and Interstate 5. The location of SCL is provided on **Figure 1**, **Attachment A**.

Landfill gas (LFG) migration from SCL is currently controlled via an LFG collection and control system (GCCS) consisting of a network of approximately 1,008 LFG extraction points inter-connected to a total of six destruction devices, including 5 enclosed flares and a turbine power plant. The GCCS operates continuously, with August 2018 average flow rate of approximately 20,500 standard cubic feet per minute (scfm) and a methane concentration approximately 43% by volume.

LFG migration from SCL is monitored by a network of 30 migration monitoring wells located around the perimeter of SCL. Within each well, there are multiple probes located at multiple depths, based on surface elevation, depth to groundwater, and base of waste elevation; for a total of 132 probes, within 30 wells. The perimeter migration monitoring well network at SCL is provided on **Figure 2**, **Attachment A**.



Ms. Shikari Nakagawa-Ota October 24, 2018 Page 2

# DISCUSSION

# Monitoring Activities

Since March 2013, concentrations of CH<sub>4</sub> in the deeper probes (B-E) in well P-205R have ranged from non-detect to 3.4 percent by volume (May 2018). Details on CH<sub>4</sub> detections within the five probes within well P-205R are presented in **Table 1**, below.

Table 1. Well P-205R Probe Methane Details

Probe	Probe	Screened		ane Detect % by volume)	ions
Designation	Depth (feet bgs)	Interval (feet bgs)	Min	Max	Most
	(reet bgs)	(reet bgs)	IVIIII	IVIAX	Recent <sup>1</sup>
А	11	6-11	ND	ND	ND
В	25	20-25	ND	1.5	0.7
С	39	33-39	0.2	2.0	1.8
D	53	48-53	0.8	3.4	2.8
Е	67	63-67	ND	2.9	1.6

bgs = below ground surface

ND = Non-detect

Graphs of gas composition and pressures detected in probes A-E within well P-205R from 2014 to present are presented in **Figures 3a through 3e, Attachment A**, respectively. **Attachment B** contains well P-205R probe data from 2014 to present.

As shown on **Figure 3d**, probe P-205R(D) has the highest concentration of  $CH_4$  detected in this well, consistently over time. **Figure 3d** also shows significantly elevated carbon dioxide ( $CO_2$ ) in relation to  $CH_4$ , which is not generally indicative of the composition of landfill gas (LFG). For example, the typical ratio of  $CH_4$  to  $CO_2$  in LFG ranges from 1.0 to 1.2. However, the data for probe P-205R(D) have demonstrated ratios ranging from 0.05 to 0.07 in data from 2018. **Figure 3d** also shows an inverse relationship between  $CO_2$  and Balance Gas, which is assumed to be nitrogen. Nitrogen is typically found at concentrations 2 to 4 times lower than  $CO_2$  in LFG, but in this case, nitrogen is present at concentrations higher than  $CO_2$ .

# Gas Sample Analysis

In response to slightly elevated  $CH_4$  concentrations identified in probe P-205R(D), gas samples were collected from select probes within well P-205R, as well as other perimeter wells at SCL in January, February, March, June, July, August, and September of 2018. A summary of the analytical data from P-205(D) is presented in **Table 2**, below. Copies of all analytical data from samples collected in 2018 are provided in **Attachment C**.

<sup>&</sup>lt;sup>1</sup>Most recent monitoring event is September 2018.

Table 2. Probe P-205R(D) Analytical Results - 2018

Analyte	01/25	02/15	03/29	06/29 <sup>1</sup>	07/26	08/23	09/27
	Conce	entration i	n % by vo	ume			
Methane	2.74	2.73	2.89	2.96	2.74	19.8	2.69
Carbon Dioxide	46.4	47.5	47.3	47.6	47.2	45.2	47.5
Concer	ntration in	parts per		volume (	ppmv)		
Ethane	<5	<b>5</b>	<5	<5	<b>5</b>	<5	<b>\</b> 5
TGNMO <sup>2</sup>	19.5	<5	17.9	10.3	14.7	7.41	12.1
Hydrogen Sulfide	0.42	0.97	0.54	<0.2	<0.1	<0.1	<0.1
		_	ompounds	•			
Conce	ntration ir	n parts pe	r billion by	volume (	ppbv)		
Benzene	7.52	6.64	5.95	3.95	5.14	5.26	4.20
Dichlorobenzenes <sup>3</sup>	<12	<3	<6	<0.6	3.39	3.33	3.69
Toluene	<8	2.23	<4	1.22	2.55	2.34	2.71
m+p Xylenes	<8	1.84	<4	1.01	2.53	1.89	1.57
o-Xylene	<8	<1.4	<4	0.78	<1.4	<1.4	<1.4
7	ГО-15 Ana	lysis (cond	centration	in ppbv)1			
Acetone	NA	NA	NA	63.0	NA	NA	NA
Isopropyl Alcohol	NA	NA	NA	108	NA	NA	NA
n-Hexane	NA	NA	NA	0.85	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	0.69	NA	NA	NA

<sup>&</sup>lt;sup>1</sup>TO-15 analysis requested on June sample. More analytes and lower detection limits provided.

As shown in **Table 2**, the  $CH_4$  and  $CO_2$  results match what was identified from field monitoring of the probes. In addition, it should be noted that the only volatile organic compounds (VOCs) detected from probe samples are generally associated with petrogenic (e.g., hydrocarbon) sources, including benzene, toluene, xylenes, hexane, etc. Key LFG VOC indicators (e.g., vinyl chloride, freons, methylene chloride, and other halogenated compounds) were not detected in samples from P-205R, or any of the sample results provided in **Attachment C**. Ethane, which is a very common constituent in LFG, was also not found. These chemicals are commonly detected as the "leading edge" of any subsurface LFG plume, but were not found in the samples.

# Nearby LFG Well Data

The closest LFG extraction wells to P-205R are CGW-915 and CGW-916, both approximately 215 feet northeast of well P-205R. These wells were installed in 2015 and have been under vacuum since installation. Gas composition and flow readings from these wells from late-July (selected to match the latest lab sample analysis date from probe P-205R[D]) and the most recent readings from these wells are presented in **Table 3**, below.

<sup>&</sup>lt;sup>2</sup>TGNMO – Total Gaseous non-Methane, non-Ethane organics reported as ppmvC.

<sup>&</sup>lt;sup>3</sup>Total amount containing meta, para, and ortho isomers.

NA - Analyte not analyzed.

Table 3. Nearby LFG Well Measurements

Well	Date of	LFG Flow		Gas Composition (% by volume)					
Designation	Reading	(scfm)	CH <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas			
CCW 015	7/16/18	10	18.1	23.7	0.1	58.1			
CGW-915	10/10/18	4.2	26.1	29.5	0	44.4			
CCW 014	7/24/18	1.6	27.1	30.9	0	42			
CGW-916	10/10/18	14.5	32.4	30.3	0	37.3			

As shown in **Table 3**, both the July and October readings from the closest LFG wells to P-205 show  $CO_2$  levels significantly lower than the levels detected in probe P-205R(D). The highest  $CO_2$  reading from July (well CGW-916) is more than 20 percentage points lower than the  $CO_2$  identified in the P-205R(D) sample from July (refer to **Table 2**).

**Figure 4, Attachment A** contains a graph of the  $CO_2$  levels identified in the LFG extraction wells near P-205R (CGW-915 and CGW-916). As shown in **Figure 4**, With the exception of late-2017, CO2 levels from the LFG extraction wells have always been lower than the  $CO_2$  levels identified in probe P-205R(D). This indicates that it is unlikely that the  $CO_2$  identified in P-205R(D) originated from the landfill.

However, this point does not address the elevated  $CH_4$  identified in probe P-205R(D), unless the  $CH_4$  and  $CO_2$  identified in probe P-205R(D) are interrelated. In order to verify that the  $CH_4$  and  $CO_2$  are interrelated, the  $CH_4$  and  $CO_2$  monitoring data from probe P-205R(D) were separated and re-graphed using a logarithmic scale. This graph is presented in **Figure 5**, **Attachment A**. As shown in **Figure 5**, variability in concentration is directly proportional for  $CH_4$  and  $CO_2$  within this probe, which indicates that the parameters are directly related. As such, if the  $CO_2$  is not likely derived from LFG, then the  $CH_4$  would not expected to be either.

# Nearby Oil Wells

Due to the elevated CO<sub>2</sub>; the lack of ethane, vinyl chloride, and other common LFG constituents in the samples analyzed from probe P-205R(D); and the presence of various petrogenic chemicals, additional research on possible petrogenic sources in the area of SCL was conducted. As shown in **Figure 2**, there are approximately 9 abandoned oil wells located either within, or in close proximity to SCL. Of these nine wells, the closest to well P-205R is Eadie #1. Records of this well obtained from the California Department of Oil, Gas and Geothermal Resources (DOGGR) are provided in **Attachment D**. A brief history this well is provided below.

### Eadie #1

Exploratory oil well "Eadie 1" is located approximately 650 feet to the southwest of well P-205. Eadie 1 was drilled to a maximum depth of 8,011 feet below ground surface (bgs). Drilling was completed on November 11, 1953. Following electric logging of the hole, two concrete plugs were installed from 850 to 766 feet and 530 to 400 feet bgs. 10 feet of cement inside of an 11 and 3/4 inch casing, with a welded steel plate were used to abandon the well on November 13, 1953. The capped well was at an elevation of approximately 2,132 feet above mean sea level (msl) at the time of abandonment.

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In 1992, as part of the proposed expansion of SCL, eight oil wells were proposed for reabandonment. The project was postponed until June 1997, when the upper 200 feet of Eadie #1 was overdrilled and 140 cubic feet of cement was added to the hole. Following abandonment activities, the well was cut off five feet below surface and covered with a steel plate. This would make the elevation of the top capped well approximately 2,127 feet msl and the elevation of the bottom of the cement plug approximately 1,932 feet msl, which is approximately 50 feet higher than the surface of well P-205R (surface elevation of well P-205R is 1,869 feet msl).

# **CONCLUSIONS**

It appears that the low-level of CH<sub>4</sub> detected in well P-205R did not originate from the landfill. This conclusion is supported by the following observations:

- 1. Monitoring data for probes B-E in well P-205R show significantly elevated CO<sub>2</sub> (maximum value of 49.4 percent by volume in Probe P-205R[D]) associated with low-level CH<sub>4</sub> (maximum value of 3.4 percent by volume in Probe P-205R[D]). Laboratory data confirms both the low CH<sub>4</sub> and high CO<sub>2</sub> levels detected in probes B-E of well P-205R. These levels and ratios are not typical for LFG migration from a landfill.
- 2. CO<sub>2</sub> levels identified in probe P-205R(D) are higher than CO<sub>2</sub> levels identified in raw LFG from the closest LFG extraction wells (**Figure 4**).
- 3. The CH<sub>4</sub> identified in P-205R(D) is related to the elevated CO<sub>2</sub> identified in P-205R(D), as shown in **Figure 5** and are likely from the same source
- 4. With the exception of acetone and isopropyl alcohol, which are both typical lab contaminants, only petrogenic VOCs were identified in samples analyzed from P-205R(D). Other common "leading edge" contaminants in LFG were not detected.
- 5. There is an abandoned oil well located 650 feet to the southwest of P-205R that may be a potential source of methane and CO<sub>2</sub>. The fact that the probes within P-205R are located at a depth that is below the concrete plug for this well, makes this point more significant.

# RECOMMENDATIONS

Based on off-site impact from petrogenic sources, SCL is requesting removal of the AOC threshold of 3% by volume for probes within perimeter migration monitoring well P-205R as well as modification of sampling frequency for this probe to quarterly. Additionally, SCL is requesting the opportunity to evaluate the origin of methane should the level in the P-205R probes ever exceed the 5% by volume threshold prior to the issuance of any regulatory violations.

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# **CLOSING**

If you have any questions in regard to this submittal, please contact either of the undersigned at (562) 426-9544.

Sincerely,

Raymond H. Huff, REPA

Vice President SCS Engineers

Patrick S. Sullivan, REPA, CPP, BCES

Senior Vice President

**SCS Engineers** 

attachments

cc: Josh Mills, SCL

Chris Coyle, SCL

# ATTACHMENT A FIGURES

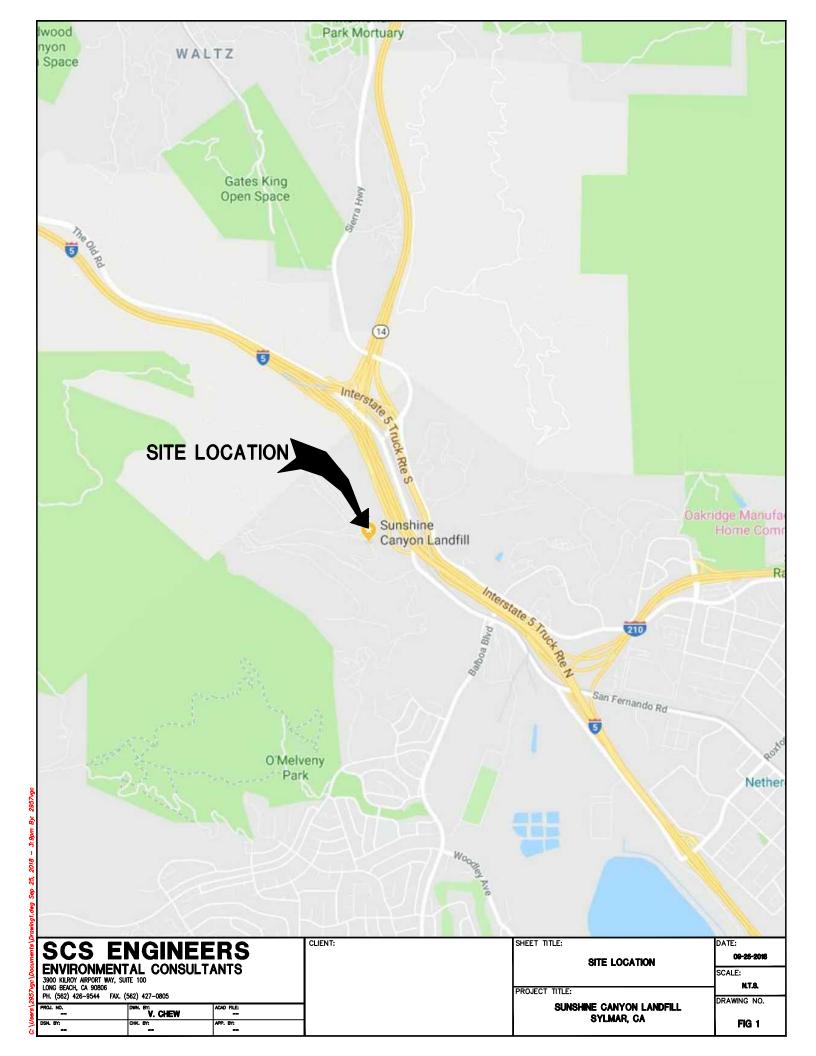




Figure 3a. Well P-205R(A) Readings from 2014 to Present.

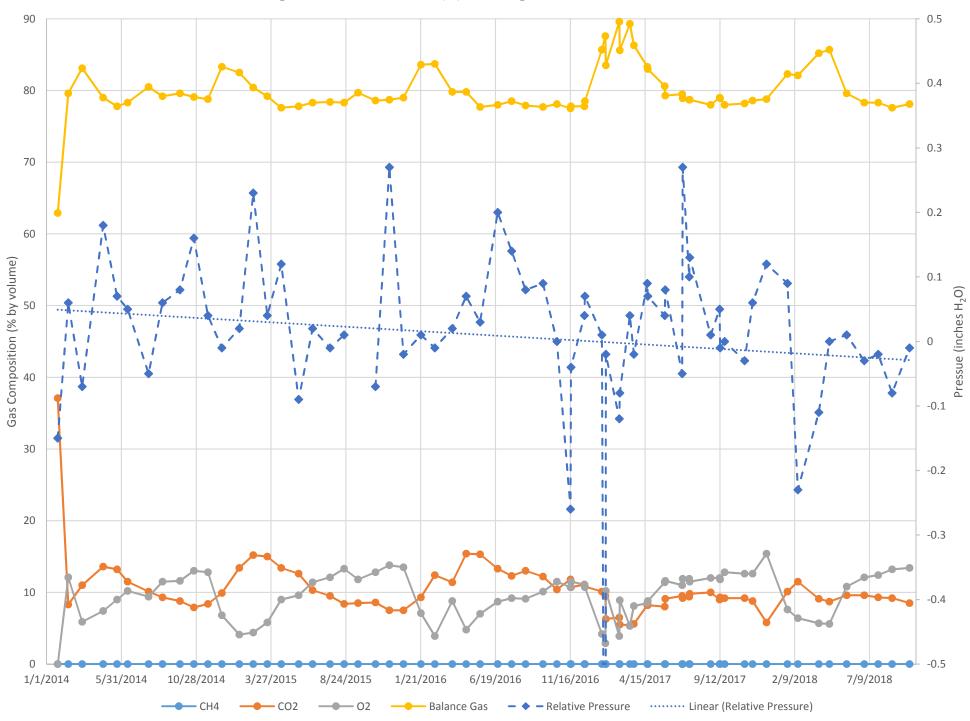


Figure 3b. Well P-205R(B) Readings from 2014 to Present.

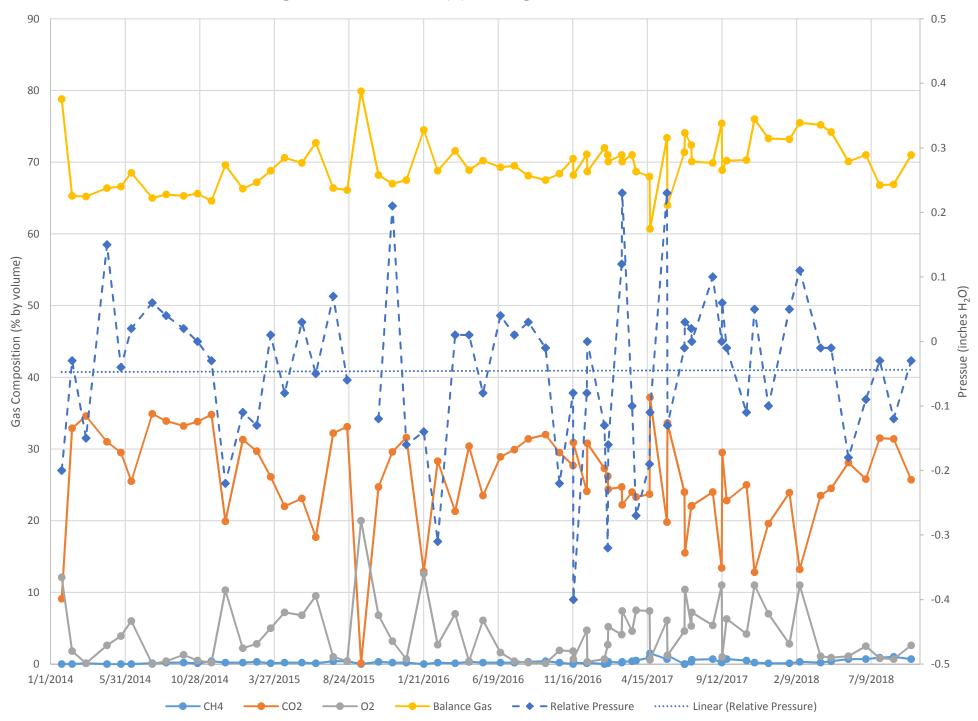


Figure 3c. Well P-205R(C) Readings from 2014 to Present.

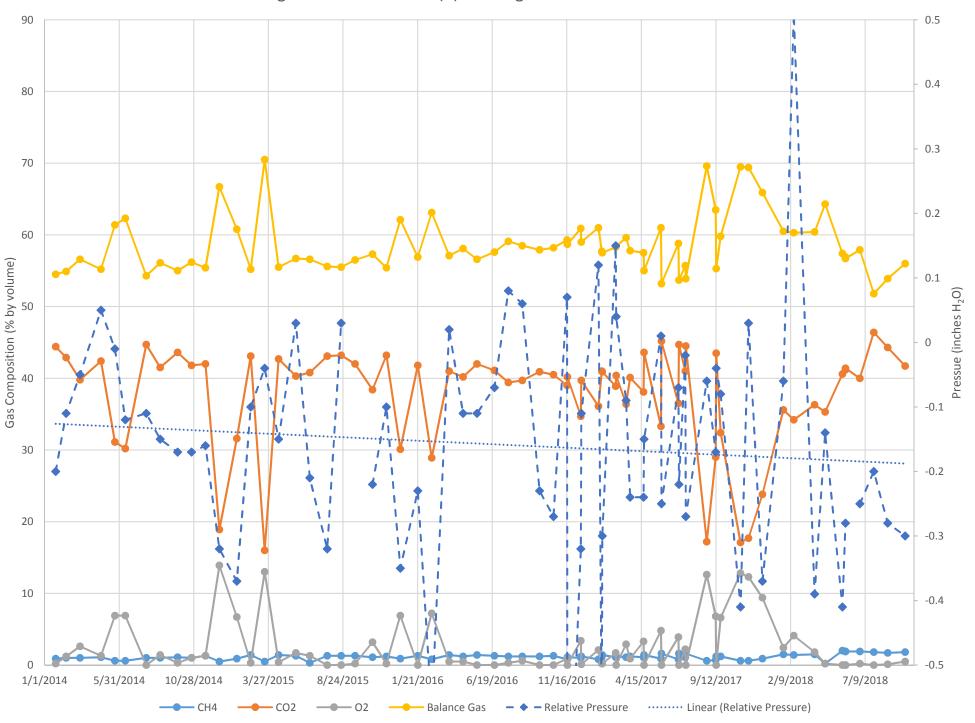


Figure 3d. Well P-205R(D) Readings from 2014 to Present.

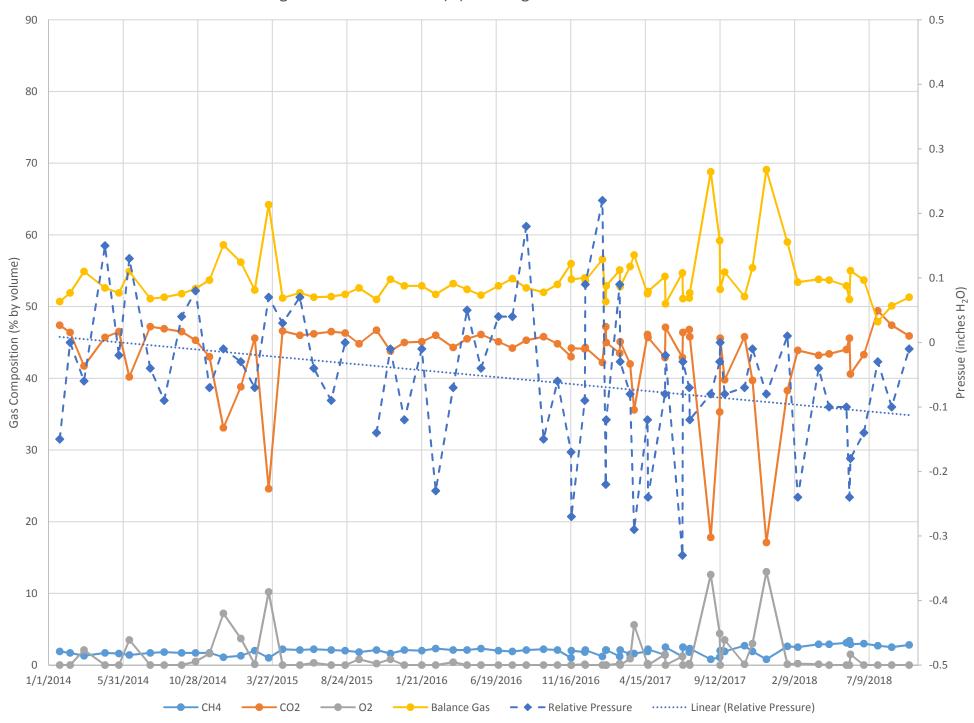


Figure 3e. Well P-205R(E) Readings from 2014 to Present.

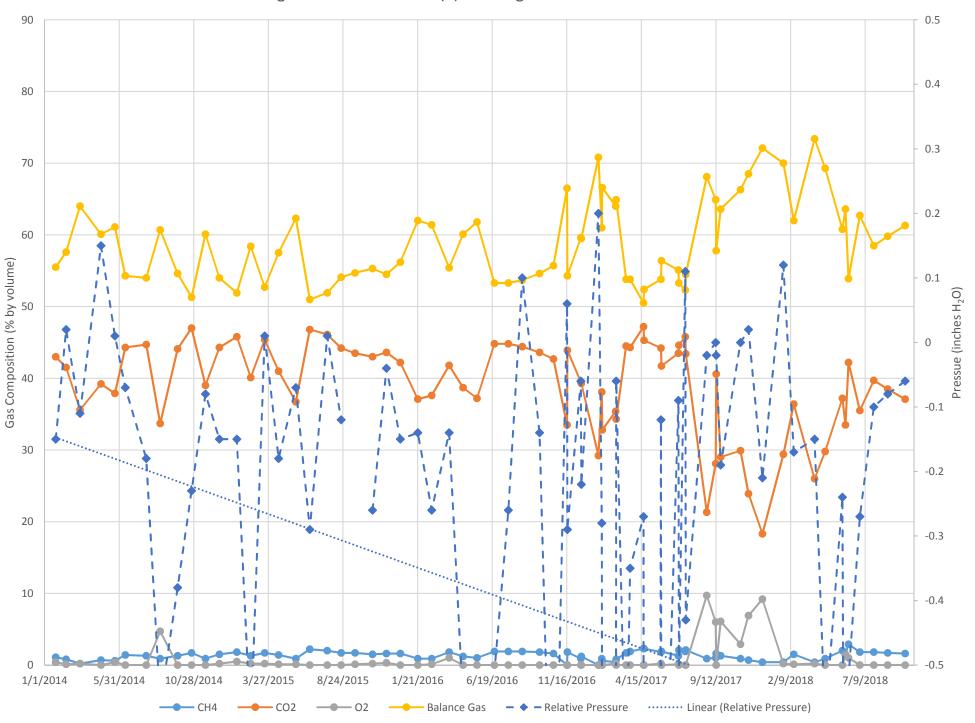


Figure 4. Carbon Dioxide Level Comparison.

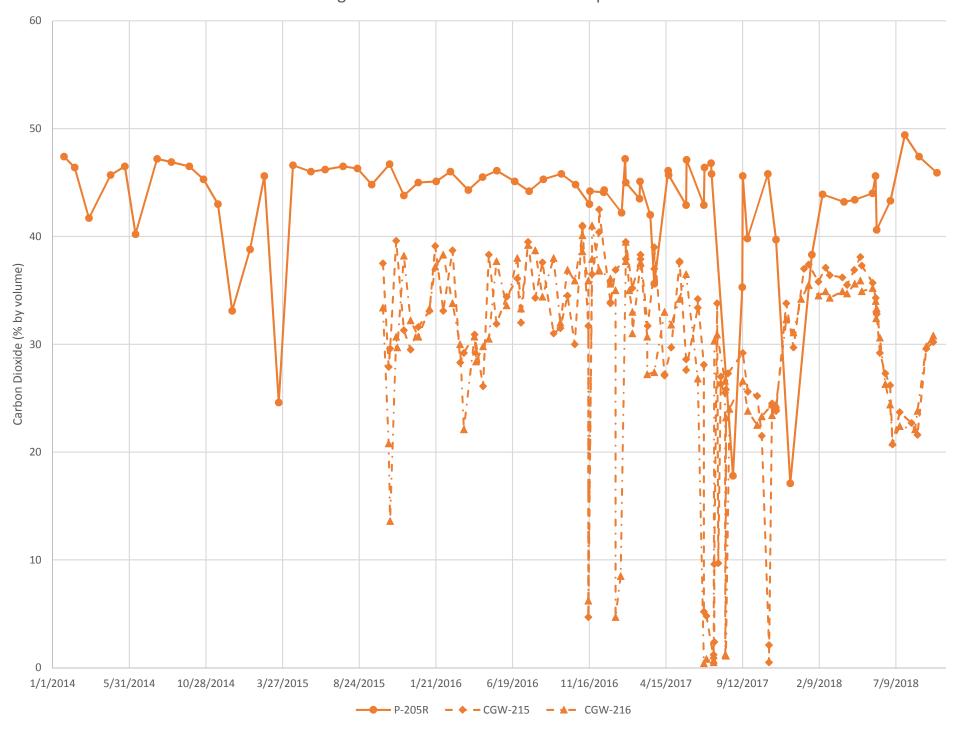
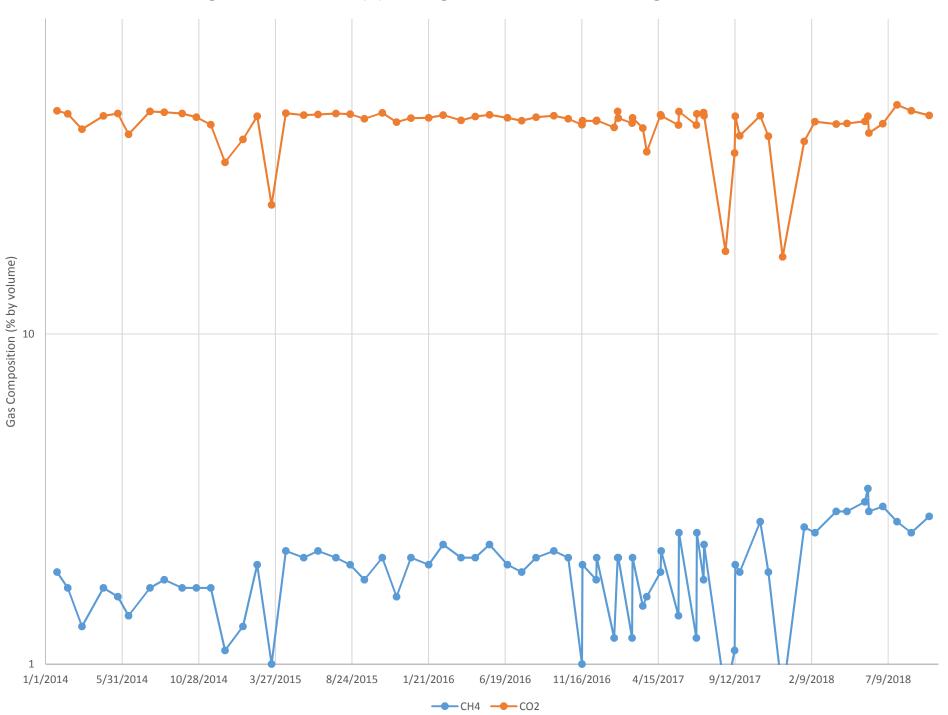


Figure 5. Well P-205R(D) Readings from 2014 to Present - Logarithmic Scale.



# ATTACHMENT B PROBE DATA

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/23/2014 9:20:00 AM	0	37.1	0	62.9	-0.15	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/13/2014 10:23:00 AM	0	8.3	12.1	79.6	0.06	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/13/2014 9:12:00 AM	0	11	5.9	83.1	-0.07	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/24/2014 9:49:00 AM	0	13.6	7.4	79	0.18	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/22/2014 9:56:00 AM	0	13.2	9	77.8	0.07	27.93	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/12/2014 9:45:00 AM	0	11.5	10.2	78.3	0.05	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/24/2014 10:48:00 AM	0	10.1	9.4	80.5	-0.05	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/21/2014 9:51:00 AM	0	9.3	11.5	79.2	0.06	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/25/2014 9:51:00 AM	0	8.8	11.6	79.6	0.08	27.9	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/23/2014 9:50:00 AM	0	7.9	13	79.1	0.16	27.99	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/20/2014 9:49:00 AM	0	8.4	12.8	78.8	0.04	28.04	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:21 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/18/2014 10:08:00 AM	0	9.9	6.8	83.3	-0.01	28.28	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/22/2015 10:38:00 AM	0	13.4	4.1	82.5	0.02		ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/19/2015 9:55:00 AM	0	15.2	4.4	80.4	0.23		Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/19/2015 10:23:00 AM	0	15	5.8	79.2	0.04		ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/16/2015 9:46:00 AM	0	13.4	9	77.6	0.12	28.15	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/21/2015 9:28:00 AM	0	12.6	9.6	77.8	-0.09		ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/18/2015 9:11:00 AM	0	10.3	11.4	78.3	0.02	28.08	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/23/2015 9:23:00 AM	0	9.5	12.1	78.4	-0.01		ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/20/2015 9:34:00 AM	0	8.4	13.3	78.3	0.01		ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/17/2015 10:38:00 AM	0	8.5	11.8	79.7			ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/22/2015 10:32:00 AM	0	8.6	12.8	78.6	-0.07		ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/19/2015 9:58:00 AM	0	7.5	13.8	78.7	0.27		ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/17/2015 9:38:00 AM	0	7.5	13.5	79	-0.02		ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/21/2016 9:32:00 AM	0	9.3	7.1	83.6	0.01		ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/18/2016 9:39:00 AM	0	12.4	3.9	83.7	-0.01		ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/24/2016 9:58:00 AM	0	11.4	8.8	79.8	0.02		ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/21/2016 9:27:00 AM	0	15.4	4.8	79.8	0.07		ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/19/2016 7:51:00 AM	0	15.3	7	77.7	0.03		ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/23/2016 9:14:00 AM	0	13.3	8.7	78	0.2		ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/21/2016 9:36:00 AM	0	12.3	9.2	78.5	0.14		ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/18/2016 8:48:00 AM	0	13	9.1	77.9	0.08		ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/22/2016 7:53:00 AM	0	12.2	10.1	77.7	0.09		ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/20/2016 8:06:00 AM	0	10.4	11.5	78.1	0.05	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/16/2016 1:12:22 PM	0	11.8	10.7	77.5	-0.26	27.87			11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/17/2016 8:06:00 AM	0	10.7	11.5	77.8	-0.04		ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/14/2016 8:18:09 AM	0	11.1	11.1	77.8	0.04	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/15/2016 7:54:00 AM	0	10.8	10.7	78.5	0.07		ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/18/2017 11:46:49 AM	0	10.1	4.2	85.7	0.01	28.14		BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/25/2017 8:24:17 AM	0	9.5	2.9	87.6	-1.23	28.23		BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/26/2017 9:25:00 AM	0	6.3	10.2	83.5	-0.02		ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/22/2017 8:05:15 AM	0	6.5	3.9	89.6	-0.12	28.12		BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/23/2017 9:17:00 AM	0	5.5	8.9	85.6	-0.08		ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/15/2017 8:08:50 AM	0	5.4	5.3	89.3	0.04	28.14		BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/23/2017 8:58:00 AM	0	5.6	8.1	86.3	-0.02		ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/19/2017 8:30:57 AM	n	8.2	8.5	83.3	0.09	28.13		BN	4/20/2017 11:23:12 AW
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/20/2017 9:21:00 AM	n	8.2	8.8	83	0.07		ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/24/2017 9:28:53 AM	0	0.2	11.4	80.6	0.04	27.93		BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RA P00205RA	P-205RA P-205RA	Active	5/24/2017 9:28:53 AM 5/25/2017 9:39:00 AM	0	9.1	11.4	79.3	0.04		ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/28/2017 8:48:21 AM	0	9.5	11.0	79.5	-0.05	27.84		RS	6/30/2017 11:31:37 AWI
Sunshine Canyon Landfill	P00205RA P00205RA	P-205RA P-205RA	Active	6/28/2017 8:48:21 AM 6/29/2017 9:48:00 AM	0	9.5	11.9	79.5	0.27		ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
	+			7/12/2017 9:54:03 AM	0	9.2	11.9	78.7	0.27	28.06		BS BS	7/14/2017 8:14:36 AW
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	//12/201/ 9:54:03 AIVI	0	9.4	11.9	/8./	0.1	28.06	D.)	DJ	//14/201/ 11:32:40 AM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/13/2017 8:38:00 AM	0	9.8	11.5	78.7	0.13	28.01	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/24/2017 10:05:00 AM	0	10	12	78	0.01	27.87	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/11/2017 10:40:03 AM	0	9	12	79	0.05	28.05	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/12/2017 11:45:40 AM	0	9.3	11.8	78.9	-0.01	28	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/21/2017 7:48:00 AM	0	9.2	12.8	78	0	27.83	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/31/2017 9:18:22 AM	0	9.2	12.6	78.2	-0.03	27.9	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/16/2017 9:43:00 AM	0	8.8	12.6	78.6	0.06	27.98	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/14/2017 9:23:00 AM	0	5.8	15.4	78.8	0.12	28.04	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/25/2018 11:02:06 AM	0	10.1	7.6	82.3	0.09	28.14			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/15/2018 10:48:05 AM	0	11.5	6.4	82.1	-0.23	28.2	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/29/2018 10:01:45 AM	0	9.1	5.7	85.2	-0.11	28.17			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/19/2018 9:55:31 AM	0	8.7	5.6	85.7	0	28.06			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/24/2018 7:41:37 AM	0	9.6	10.8	79.6	0.01				5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/28/2018 7:57:14 AM	0	9.6	12.1	78.3	-0.03	28.02			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/26/2018 8:01:50 AM	0	9.3	12.4	78.3	-0.02	28.11			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/23/2018 8:07:10 AM	0	9.2	13.2	77.6	-0.08	-			8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/27/2018 8:02:45 AM	0	8.5	13.4	78.1	-0.01		SD	SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/23/2014 9:22:00 AM	0	9.1	12.1	78.8	-0.2		Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/13/2014 10:26:00 AM	0	32.9	1.8	65.3	-0.03		Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/13/2014 9:15:00 AM	0.1	34.6	0.1	65.2	-0.15		Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/24/2014 9:51:00 AM	0.1	31	2.6	66.4	0.15		ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/22/2014 9:57:00 AM	0	29.5	3.9	66.6	-0.04		ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/12/2014 9:47:00 AM	0	25.5	6	68.5	0.02		ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/24/2014 10:50:00 AM	0.1	34.9	0	65	0.06		Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/21/2014 9:56:00 AM	0.2	33.9	0.4	65.5	0.04		ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/25/2014 9:53:00 AM	0.2	33.2	1.3	65.3	0.02		Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	10/23/2014 9:52:00 AM	0.1	33.8	0.5	65.6	0.02		Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/20/2014 9:52:00 AM	0.4	34.8	0.2	64.6	-0.03		ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/18/2014 10:10:00 AM	0.2	19.9	10.3	69.6	-0.22		ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/22/2015 10:40:00 AM	0.2	31.3	2.2	66.3	-0.11		ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/19/2015 9:58:00 AM	0.3	29.7	2.8	67.2	-0.13		Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/19/2015 10:27:00 AM	0.1	26.1	5	68.8	0.01		ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/16/2015 9:48:00 AM	0.2	22	7.2	70.6	-0.08		ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/21/2015 9:30:00 AM	0.2	23.1	6.8	69.9	0.03		ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/18/2015 9:13:00 AM	0.1	17.7	9.5	72.7	-0.05		ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/23/2015 9:26:00 AM	0.1	32.2	1	66.4	0.07		ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/20/2015 9:37:00 AM	0.4	33.1	0.4	66.1	-0.06		ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/17/2015 10:43:00 AM	0.4	0.1	20	79.9	-0.00		ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	10/22/2015 10:33:00 AM	0.3	24.7	6.8	68.2	-0.12		ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/19/2015 9:59:00 AM	0.3	29.6	3.2	67	0.21		ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/17/2015 9:40:00 AM	0.2	31.6	0.7	67.5	-0.16		ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/21/2016 9:33:00 AM	0.2	12.9	12.6	74.5	-0.14		ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
	P00205RB	P-205RB	Active	2/18/2016 9:41:00 AM	0.2	28.3	2.7	68.8	-0.14		ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/24/2016 10:00:00 AM	0.2	21.3	7.7	71.6	0.01		ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
							0.4						
Sunshine Canyon Landfill	P00205RB P00205RB	P-205RB P-205RB	Active Active	4/21/2016 9:29:00 AM 5/19/2016 7:52:00 AM	0.3	30.4 23.5	0.4 6.1	68.9 70.2	0.01 -0.08		ROBERT JOHNS ROBERT JOHNS	ROBERT JOHNS ROBERT JOHNS	4/29/2016 11:11:25 AM 5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RB	P-205RB P-205RB	Active	6/23/2016 7:52:00 AM	0.2	28.9	1.6	69.3	0.04		ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill		1										<u> </u>	
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/21/2016 9:39:00 AM 8/18/2016 8:50:00 AM	0.2	29.9	0.4	69.5	0.01		ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active		0.3	31.4		68.1	0.03		ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/22/2016 7:56:00 AM	0.4	32	0.1	67.5	-0.01		ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	10/20/2016 8:08:00 AM	0.2	29.5	1.9	68.4	-0.22		ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/16/2016 1:15:27 PM	0	27.7	1.8	70.5	-0.08	27.86			11/16/2016 2:39:49 PM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/17/2016 8:08:00 AM	0.2	30.9	0.7	68.2	-0.4		ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/14/2016 8:20:30 AM	0.1	24.1	4.7	71.1	-0.08	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/15/2016 7:56:00 AM	0.2	30.8	0.3	68.7	0		ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/18/2017 11:49:40 AM	0	27.3	0.7	72	-0.13	28.13	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/25/2017 8:27:24 AM	0.1	26.2	2.7	71	-0.32	28.23		BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/26/2017 9:26:00 AM	0.3	24.4	5.2	70.1	-0.16		ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/22/2017 8:07:48 AM	0.2	24.7	4.1	71	0.12	28.12		BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/23/2017 9:19:00 AM	0.3	22.2	7.4	70.1	0.23		ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/15/2017 8:11:31 AM	0.4	24	4.6	71	-0.1	28.14		BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/23/2017 9:01:00 AM	0.5	23.3	7.5	68.7	-0.27		ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/19/2017 8:33:34 AM	0.9	23.7	7.4	68	-0.19	28.14		BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/20/2017 9:26:00 AM	1.5	37.2	0.6	60.7	-0.11		ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/24/2017 9:31:16 AM	0.7	19.8	6.1	73.4	0.23	27.95		BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/25/2017 9:45:00 AM	1.2	33.6	1.2	64	-0.13		ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/28/2017 8:50:55 AM	0	24	4.6	71.4	-0.01	27.97		RS.	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/29/2017 9:49:00 AM	0	15.5	10.4	74.1	0.03		ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/12/2017 9:56:41 AM	0.3	22	5.3	72.4	0.02	28.06		BS	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/13/2017 8:41:00 AM	0.6	22.1	7.2	70.1	0.02		ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/24/2017 9:59:00 AM	0.7	24	5.4	69.9	0.1		ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
	P00205RB	P-205RB	Active	9/11/2017 10:43:03 AM	0.2	13.4	11	75.4	0.1	28.05			9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/12/2017 11:49:28 AM	0.2	29.5	11	68.9	0.06	28.03 1	, nq	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/21/2017 11:49:28 AM	0.6	29.5	6.3	70.2	-0.01	-	ROBERT JOHNS	mq ROBERT JOHNS	9/30/2017 1:33:13 PM 9/30/2017 12:41:48 PM
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Sunshine Canyon Landfill	P00205RB P00205RB	P-205RB	Active	10/31/2017 9:21:25 AM 11/16/2017 9:45:00 AM	0.5	25	11	70.3 76	-0.11		ROBERT JOHNS ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	+	P-205RB	Active			12.8	11		0.05			ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/14/2017 9:26:00 AM	0.1	19.6	2.0	73.3	-0.1		ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/25/2018 11:05:21 AM	0.1	23.9	2.8	73.2	0.05	28.14	10	AD	1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/15/2018 10:51:05 AM	0.3	13.2	11	75.5	0.11	28.21	AK	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/29/2018 10:05:06 AM	0.2	23.5	1.1	75.2	-0.01	28.16			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/19/2018 9:59:14 AM	0.4	24.5	0.9	74.2	-0.01	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/24/2018 7:47:02 AM	0.7	28.1	1.1	70.1	-0.18	28.16			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/28/2018 8:01:09 AM	0.7	25.8	2.5	71	-0.09	28.04			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/26/2018 8:07:42 AM	0.9	31.5	0.8	66.8	-0.03	28.1			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/23/2018 8:12:21 AM	1	31.4	0.7	66.9	-0.12	28.12	10	60	8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/27/2018 8:06:10 AM	0.7	25.7	2.6	71	-0.03	28.08		SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/23/2014 9:24:00 AM	0.9	44.4	0.2	54.5	-0.2		Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/13/2014 10:30:00 AM	1	42.9	1.2	54.9	-0.11		Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/13/2014 9:18:00 AM	1	39.8	2.6	56.6	-0.05		Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/24/2014 9:57:00 AM	1.1	42.4	1.3	55.2	0.05		ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/22/2014 9:59:00 AM	0.6	31.1	6.9	61.4	-0.01		ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/12/2014 9:49:00 AM	0.6	30.2	6.9	62.3	-0.12		ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/24/2014 10:53:00 AM	1	44.7	0	54.3	-0.11		Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/21/2014 9:58:00 AM	1	41.5	1.4	56.1	-0.15		ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/25/2014 9:56:00 AM	1.1	43.6	0.3	55	-0.17		Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/23/2014 9:55:00 AM	1	41.8	1	56.2	-0.17	- t	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/20/2014 9:56:00 AM	1.3	42	1.3	55.4	-0.16		ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/18/2014 10:13:00 AM	0.5	18.9	13.9	66.7	-0.32		ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/22/2015 10:43:00 AM	0.9	31.6	6.7	60.8	-0.37		ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/19/2015 10:00:00 AM	1.4	43.1	0.3	55.2	-0.1		Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/19/2015 10:29:00 AM	0.5	16	13	70.5	-0.04	28.12	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/16/2015 9:50:00 AM	1.4	42.7	0.4	55.5	-0.15		ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/21/2015 9:33:00 AM	1.3	40.3	1.7	56.7	0.03		ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/18/2015 9:16:00 AM	0.3	40.8	1.3	56.6	-0.21	28.07	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/23/2015 9:30:00 AM	1.3	43.1	0	55.6	-0.32	28.1	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/20/2015 9:40:00 AM	1.3	43.2	0	55.5	0.03	28.01	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/17/2015 10:46:00 AM	1.3	42	0.2	56.5		28	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/22/2015 10:35:00 AM	1.1	38.4	3.2	57.3	-0.22	28	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/19/2015 10:02:00 AM	1.2	43.2	0.2	55.4	-0.1	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/17/2015 9:42:00 AM	0.9	30.1	6.9	62.1	-0.35	28.18	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/21/2016 9:37:00 AM	1.3	41.8	0	56.9	-0.23	28.23	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/18/2016 9:43:00 AM	0.8	28.9	7.2	63.1	-0.57	28.01	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/24/2016 10:02:00 AM	1.4	41	0.5	57.1	0.02	28.11	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/21/2016 9:36:00 AM	1.2	40.2	0.5	58.1	-0.11	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/19/2016 7:56:00 AM	1.4	42	0	56.6	-0.11	27.94	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/23/2016 9:20:00 AM	1.3	41.1	0	57.6	-0.07	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/21/2016 9:44:00 AM	1.2	39.4	0.3	59.1	0.08	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/18/2016 8:53:00 AM	1.2	39.7	0.6	58.5	0.06	27.92	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/22/2016 7:57:00 AM	1.2	40.9	0	57.9	-0.23	27.9	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/20/2016 8:13:00 AM	1.3	40.5	0	58.2	-0.27	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/16/2016 1:20:31 PM	0.8	39	0.9	59.3	0.07	27.86			11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/17/2016 8:12:00 AM	1.1	40.2	0	58.7	-0.83		ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/14/2016 8:23:54 AM	1	34.7	3.4	60.9	-0.32	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/15/2016 8:02:00 AM	1.2	39.7	0.1	59	-0.11		ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/18/2017 11:53:21 AM	0.8	36.1	2.1	61	0.12	28.13		BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/25/2017 8:32:01 AM	1.1	41	0.2	57.7	-0.62	28.24		BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/26/2017 9:32:00 AM	1.4	40.9	0.2	57.5	-0.3		ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/22/2017 8:11:34 AM	1.1	38.9	1.7	58.3	0.15	28.12		BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/23/2017 9:24:00 AM	1.2	40.4	0	58.4	0.04		ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/15/2017 8:14:39 AM	1.1	36.4	2.9	59.6	-0.09	28.15		BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/23/2017 9:05:00 AM	1.2	40.1	0.9	57.8	-0.24		ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/19/2017 8:37:12 AM	1.1	38.1	3.3	57.5	-0.24	28.14		BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/20/2017 9:28:00 AM	1.4	43.6	0	55	-0.15		ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/24/2017 9:34:35 AM	0.9	33.3	4.8	61	0.01	27.94		BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/25/2017 9:50:00 AM	1.6	45.2	0	53.2	-0.25		ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/28/2017 8:54:25 AM	0.8	36.5	3.9	58.8	-0.07	27.97		RS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/29/2017 9:54:00 AM	1.6	44.7	0.5	53.7	-0.22		ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/12/2017 10:00:23 AM	1.1	41.7	2.2	55.7	-0.22	28.05		RC RC	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/13/2017 8:45:00 AM	1.6	44.5	0	53.9	-0.02		ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/24/2017 10:06:00 AM	0.6	17.2	12.6	69.6	-0.27		ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/11/2017 10:48:10 AM	0.7	29	6.8	63.5	-0.17		mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/12/2017 11:52:50 AM	1.2	43.5	0.8	55.3	-0.17	28.02	· ·	mg	9/12/2017 1:33:13 PM
	P00205RC	P-205RC	Active	9/21/2017 7:53:00 AM	1.2	32.4	6.6	59.8	-0.04		ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/31/2017 9:23:04 AM	0.6	17.1	12.8	69.5	-0.08		ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
-	P00205RC		Active		0.6	17.7	12.3	69.4	0.03	1	ROBERT JOHNS	ROBERT JOHNS	
Sunshine Canyon Landfill Sunshine Canyon Landfill	P00205RC	P-205RC P-205RC	Active	11/16/2017 9:47:00 AM 12/14/2017 9:28:00 AM	0.9	23.8	9.4	65.9	-0.37		ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM 12/15/2017 7:43:26 AM
											ROBERT JOHNS	ROBERT JOHNS	
Sunshine Canyon Landfill Sunshine Canyon Landfill	P00205RC	P-205RC P-205RC	Active	1/25/2018 11:09:30 AM 2/15/2018 10:57:05 AM	1.5	35.6 34.2	2.4 4.1	60.5	-0.06 0.51	28.14	A.D.	AR	1/25/2018 5:25:20 PM 2/15/2018 4:29:24 PM
	P00205RC		Active								AK	AK	
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/29/2018 10:09:14 AM 4/19/2018 10:04:37 AM	1.5	36.3	1.8 0.2	60.4	-0.39	28.16			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active		0.2	35.3 40.6	0.2	64.3	-0.14 -0.41	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/24/2018 7:51:55 AM	2		U	57.4		28.15			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/30/2018 7:58:03 AM	1.9	41.2	U	56.9	-0.28	27.97	· ·	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/30/2018 7:59:11 AM	1.9	41.4	U	56.7	0.7-	27.97	ınıq	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/28/2018 8:06:19 AM	1.9	40	0.2	57.9	-0.25	28.04			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/26/2018 8:14:28 AM	1.8	46.4	0	51.8	-0.2	28.1			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/23/2018 8:18:39 AM	1.7	44.3	0.1	53.9	-0.28	28.13		L	8/23/2018 1:06:39 PM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/27/2018 8:10:25 AM	1.8	41.7	0.5	56	-0.3	28.08	SD	SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/23/2014 9:27:00 AM	1.9	47.4	0	50.7	-0.15	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/13/2014 10:36:00 AM	1.7	46.4	0	51.9	0	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/13/2014 9:20:00 AM	1.3	41.7	2.1	54.9	-0.06	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/24/2014 10:00:00 AM	1.7	45.7	0	52.6	0.15	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/22/2014 10:04:00 AM	1.6	46.5	0	51.9	-0.02	27.95	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/12/2014 9:51:00 AM	1.4	40.2	3.5	54.9	0.13	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/24/2014 10:59:00 AM	1.7	47.2	0	51.1	-0.04	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/21/2014 10:01:00 AM	1.8	46.9	0	51.3	-0.09	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/25/2014 10:02:00 AM	1.7	46.5	0	51.8	0.04	27.94	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/23/2014 9:57:00 AM	1.7	45.3	0.5	52.5	0.08	27.99	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/20/2014 9:59:00 AM	1.7	43	1.6	53.7	-0.07	28.05	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/18/2014 10:16:00 AM	1.1	33.1	7.2	58.6	-0.01	28.27	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/22/2015 10:45:00 AM	1.3	38.8	3.7	56.2	-0.03	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/19/2015 10:05:00 AM	2	45.6	0.1	52.3	-0.07	28.21	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/19/2015 10:33:00 AM	1	24.6	10.2	64.2	0.07	28.12	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/16/2015 9:53:00 AM	2.2	46.6	0	51.2	0.03	28.14	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/21/2015 9:37:00 AM	2.1	46	0	51.9	0.07	28.04	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/18/2015 9:19:00 AM	2.2	46.2	0.3	51.3	-0.04	28.07	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/23/2015 9:34:00 AM	2.1	46.5	0	51.4	-0.09	28.1	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/20/2015 9:45:00 AM	2	46.3	0	51.7	0	28.01	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/17/2015 10:52:00 AM	1.8	44.8	0.8	52.6		28.01	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/22/2015 10:38:00 AM	2.1	46.7	0.2	51	-0.14	28.01	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/19/2015 10:04:00 AM	1.6	43.8	0.8	53.8	-0.01	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/17/2015 9:45:00 AM	2.1	45	0.0	52.9	-0.12	28.19	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/21/2016 9:42:00 AM	2	45.1	0	52.9	-0.01	28.22	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/18/2016 9:47:00 AM	2.3	46	0	51.7	-0.23	28.01	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/24/2016 10:04:00 AM	2.1	44.3	0.4	53.2	-0.07	28.11	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/21/2016 9:40:00 AM	2.1	45.5	0	52.4	0.05	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/19/2016 8:00:00 AM	2.3	46.1	0	51.6	-0.04	27.93	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/23/2016 9:24:00 AM	2.3	45.1	0	52.9	0.04	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/21/2016 9:48:00 AM	1.9	44.2	0	53.9	0.04	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/18/2016 8:56:00 AM	2.1	45.3	0	52.6	0.18	27.92	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/22/2016 8:01:00 AM	2.2	45.8	0	52.0	-0.15	27.92	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/20/2016 8:16:00 AM	2.1	44.8	0	53.1	-0.06	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/16/2016 1:26:52 PM	1	43	0	56	-0.17	27.86	NO DENTI SOTTION	NOSEM JOHNS	11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/17/2016 8:16:00 AM	2	44.2	0	53.8	-0.27	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/14/2016 8:28:22 AM	1.8	44.1	0.1	54	-0.09	28.15	NO DE MI SOTTIO	NOSEM JOHNS	12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/15/2016 8:05:00 AM	2.1	44.3	0	53.6	0.09	28	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/18/2017 11:58:06 AM	1.2	42.2	0	56.6	0.22			BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/25/2017 8:37:00 AM	2.1	47.2	0	50.7	-0.22	28.24		BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/26/2017 9:37:00 AM	2.1	45	0	52.9	-0.12	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/22/2017 8:16:23 AM	1.2	43.5	0.2	55.1	0.09	28.12		BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/23/2017 9:27:00 AM	2.1	45.1	0.2	52.8	-0.03	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/15/2017 8:19:02 AM	1.5	42	0.9	55.6	-0.08	28.15		BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/23/2017 9:07:00 AM	1.6	35.6	5.6	57.2	-0.29		ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/19/2017 8:41:50 AM	1.9	46.1	0.2	51.8	-0.12	28.13	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/20/2017 9:31:00 AM	2.2	45.7	0.2	52.1	-0.24	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/24/2017 9:38:49 AM	1.4	42.9	1.5	54.2	-0.24		BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/25/2017 9:54:00 AM	2.5	47.1	1.3	50.4	-0.02		ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/28/2017 8:59:01 AM	1.2	42.9	1.2	54.7	-0.02	27.83	BS	RS	6/30/2017 11:31:37 AW
-	P00205RD	P-205RD	Active	6/29/2017 9:58:00 AM	2.5	46.4	1.2	-	-0.33		ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	FUUZUSKU	r-203KD	ACTIVE	0/29/2017 9:58:00 AIVI	2.5	46.4	U	51.1	-0.03	27.91	VOREKI JOUNS	NODEK I JUNIOS	////201/ 6:14:36 AIVI

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/12/2017 10:04:59 AM	1.8	46.8	0.2	51.2	-0.07	28.06		BS	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/13/2017 8:50:00 AM	2.3	45.8	0	51.9	-0.12	28.02	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/24/2017 10:08:00 AM	0.8	17.8	12.6	68.8	-0.08	27.89	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/11/2017 10:52:56 AM	1.1	35.3	4.4	59.2	-0.03	28.04	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/12/2017 11:56:28 AM	2	45.6	0	52.4	0	28.02	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/21/2017 7:55:00 AM	1.9	39.8	3.5	54.8	-0.08	27.83	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/31/2017 9:28:59 AM	2.7	45.8	0.1	51.4	-0.07	27.9	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/16/2017 9:51:00 AM	1.9	39.7	3	55.4	-0.01	27.97	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/14/2017 9:30:00 AM	0.8	17.1	13	69.1	-0.08	28.03	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/25/2018 11:15:43 AM	2.6	38.3	0.1	59	0.01	28.13			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/15/2018 11:02:05 AM	2.5	43.9	0.2	53.4	-0.24	28.21	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/29/2018 10:14:44 AM	2.9	43.2	0.1	53.8	-0.04	28.15	7.11	,	3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/19/2018 10:09:53 AM	2.9	43.4	0.1	53.7	-0.1	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/24/2018 7:58:46 AM	3.1	44	0	52.9	-0.1	28.15			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/30/2018 8:08:31 AM	3.4	45.6	0	51	-0.24	27.97	mq	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/1/2018 7:33:40 AM	2.9	40.6	1.5	55	-0.18		MQ	MQ	6/4/2018 12:37:30 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/28/2018 8:11:55 AM	2.3	43.3	0	53.7	-0.14	28.03	INQ	mq	6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/26/2018 8:21:40 AM	2.7	49.4	0	47.9	-0.03	28.11			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/23/2018 8:24:58 AM	2.5	47.4	0	50.1	-0.03	28.12			8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/27/2018 8:18:31 AM	2.8	45.9	0	51.3	-0.11	28.08	SD.	SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/23/2014 9:31:00 AM	1.1	43.3	0.4	55.5	-0.01	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/13/2014 10:43:00 AM	0.8	41.5	0.1	57.6	0.02	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
	P00205RE	P-205RE		3/13/2014 9:23:00 AM	0.8	35.6	0.1	64	-0.11	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active Active	4/24/2014 10:07:00 AM	0.2	39.2	0.2	60.1	0.15	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill		P-205RE	Active		0.6		0.4		-	27.94	ROBERT JOHNS	ROBERT JOHNS	· · ·
Sunshine Canyon Landfill	P00205RE		Active	5/22/2014 10:07:00 AM		37.9 44.3	0.4	61.1	0.01	27.93	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RE	P-205RE		6/12/2014 9:56:00 AM	1.4		0	54.3	-0.07			<u> </u>	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RE P00205RE	P-205RE P-205RE	Active	7/24/2014 11:08:00 AM	1.3 0.9	44.7 33.7	4.7	54 60.7	-0.18 -0.56	27.84	Robert Johns ROBERT JOHNS	Robert Johns ROBERT JOHNS	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill		1	Active	8/21/2014 10:05:00 AM			4.7		-	27.92		<u> </u>	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RE P00205RE	P-205RE P-205RE	Active	9/25/2014 10:06:00 AM	1.3	44.1	0	54.6	-0.38 -0.23	27.94	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM 10/27/2014 2:00:35 PM
Sunshine Canyon Landfill			Active	10/23/2014 10:01:00 AM	1.7		0	51.3	-		Robert Johns	Robert Johns	
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/20/2014 10:04:00 AM	0.9	39 44.3	-	60.1	-0.08	28.05	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/18/2014 10:22:00 AM	1.5		0.2	54	-0.15	28.27	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/22/2015 10:49:00 AM	1.8	45.8	0.5	51.9	-0.15	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/19/2015 10:08:00 AM	1.3	40.1	0.2	58.4	-0.6	28.21	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/19/2015 10:37:00 AM	1.7	45.4	0.2	52.7	0.01	28.12	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/16/2015 9:57:00 AM	1.4	41	0.1	57.5	-0.18	28.14	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/21/2015 9:41:00 AM	0.9	36.7	0.1	62.3	-0.07	28.04	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/18/2015 9:23:00 AM	2.2	46.8	0	51	-0.29	28.08	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/23/2015 9:39:00 AM	2	46.1	0	51.9	0.01	28.1	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/20/2015 9:51:00 AM	1.7	44.2		54.1	-0.12	28.01	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/17/2015 10:58:00 AM	1.7	43.5	0.1	54.7	2.25		ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	10/22/2015 10:41:00 AM	1.5	43	0.2	55.3	-0.26	28	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/19/2015 10:07:00 AM	1.6	43.6	0.3	54.5	-0.04	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/17/2015 9:48:00 AM	1.6	42.2	0	56.2	-0.15	28.19	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/21/2016 9:48:00 AM	0.9	37.1	0	62	-0.14	28.22	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/18/2016 9:51:00 AM	0.9	37.6	0.1	61.4	-0.26	28	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/24/2016 10:06:00 AM	1.8	41.8	1	55.4	-0.14	28.11	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/21/2016 9:44:00 AM	1.2	38.7	0	60.1	-0.56	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/19/2016 8:04:00 AM	1	37.2	0	61.8	-0.65	27.93	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/23/2016 9:28:00 AM	1.9	44.8	0	53.3	-0.51		ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/21/2016 9:52:00 AM	1.9	44.8	0	53.3	-0.26	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/18/2016 9:01:00 AM	1.9	44.4	0	53.7	0.1	27.92	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM

					CH4	CO2	02	Bal Gas	Rel Press	Baro Press			
Site Name	Point ID	Point Name	Status	Record Date	[%]	[%]	[%]	[%]	["H2O]	["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/22/2016 8:03:00 AM	1.8	43.6	0	54.6	-0.14	27.91	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	10/20/2016 8:20:00 AM	1.6	42.7	0	55.7	-0.93	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/16/2016 1:31:55 PM	0	33.5	0	66.5	0.06	27.86			11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/17/2016 8:21:00 AM	1.8	43.9	0	54.3	-0.29	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/14/2016 8:32:41 AM	0.9	39.5	0	59.6	-0.06	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/15/2016 8:10:00 AM	1.2	39.3	0	59.5	-0.22	28	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/18/2017 12:02:44 PM	0	29.2	0	70.8	0.2	28.13	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/25/2017 8:41:51 AM	0.9	38.1	0	61	-0.28	28.24	BN	BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/26/2017 9:41:00 AM	0.6	32.8	0	66.6	-0.8	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/22/2017 8:21:12 AM	0.4	35.4	0.2	64	-1.41	28.12	BN	BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/23/2017 9:32:00 AM	0.8	34.3	0	64.9	-0.06	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/15/2017 8:23:51 AM	1.7	44.5	0	53.8	-0.7	28.15	BN	BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/23/2017 9:12:00 AM	1.9	44.3	0	53.8	-0.35	28.02	ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/19/2017 8:46:23 AM	2.3	47.2	0	50.5	-0.27	28.14	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/20/2017 9:34:00 AM	2.3	45.3	0	52.4	-11.18	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/24/2017 9:42:52 AM	1.8	44.2	0.2	53.8	-0.12	27.94	BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/25/2017 9:59:00 AM	1.9	41.7	0	56.4	-0.96	27.84	ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/28/2017 9:03:41 AM	1.3	43.5	0.1	55.1	-0.09	27.96	BS	BS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/29/2017 10:03:00 AM	2.1	44.6	0	53.3	-0.51	27.92	ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/12/2017 10:10:07 AM	1.9	45.8	0	52.3	0.11	28.05	BS	BS	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/13/2017 8:53:00 AM	2.1	43.4	0	54.5	-0.43	28.02	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/24/2017 10:09:00 AM	0.9	21.3	9.7	68.1	-0.02	27.89	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/11/2017 10:58:30 AM	1	28.1	6	64.9	0	28.04	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/12/2017 12:01:24 PM	1.6	40.6	0	57.8	-0.02	28.02	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/21/2017 7:58:00 AM	1.3	29	6.1	63.6	-0.19	27.83	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	10/31/2017 9:32:32 AM	0.9	29.9	2.9	66.3	0	27.9	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/16/2017 9:53:00 AM	0.7	23.9	6.9	68.5	0.02	27.97	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/14/2017 9:32:00 AM	0.4	18.3	9.2	72.1	-0.21	28.03	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/25/2018 11:20:45 AM	0.4	29.4	0.2	70	0.12	28.13			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/15/2018 11:07:04 AM	1.5	36.4	0.1	62	-0.17	28.21	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/29/2018 10:21:17 AM	0.4	26	0.2	73.4	-0.15	28.15			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/19/2018 10:15:03 AM	0.9	29.8	0	69.3	-0.59	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/24/2018 8:04:40 AM	2	37.2	0	60.8	-0.24	28.14			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/30/2018 8:15:27 AM	1.5	33.5	1.4	63.6	-1.47	27.98	mq	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/5/2018 8:32:17 AM	2.9	42.2	1	53.9	-0.52	28.01	MQ	MQ	6/8/2018 6:39:50 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/28/2018 8:17:25 AM	1.8	35.5	0	62.7	-0.27	28.02			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/26/2018 8:28:48 AM	1.8	39.7	0	58.5	-0.1	28.1			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/23/2018 8:32:39 AM	1.7	38.5	0	59.8	-0.08	27.9			8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/27/2018 8:25:18 AM	1.6	37.1	0	61.3	-0.06	28.08	SD	SD	9/27/2018 10:32:54 AM
,										-100			

# ATTACHMENT C ANALYTICAL RESULTS





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## LABORATORY ANALYSIS REPORT

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SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: February 2, 2018

Client: SCS Field Services

Project Location: Sunshine Canyon LF

Project No.: 07218035.00 Date Received: January 26, 2018 Date Analyzed: January 26, 2018

AtmAA Lab No.:

10268-1

Sample I.D.:

Probe 205RD

Components	(Concentration in p
Methane	27400
Carbon dioxide	464000
Ethane	<5
TGNMO	19.5
Hydrogen sulfide	0.42

10	12.11			١
(Concent	ration	ın	nnnu	1
LOUITOUIL	IGUOII	111	DUDV	,

	(Concentration in ppbv)
Benzene	7.52
Benzyl chloride	<8
Chlorobenzene	<8
Dichlorobenzenes*	<12
1,1-dichloroethane	<10
1,2-dichloroethane	<10
1,1-dichloroethylene	<10
Dichloromethane	<10
1,2-dibromoethane	<6
Perchloroethylene	<6
Carbon tetrachloride	<8
Toluene	<8
1,1,1-trichloroethane	<6
Trichloroethene	<6
Chloroform	<8
Vinyl chloride	<8
m+p-xylenes	<8
o-xylene	<8

Methane, ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.

Ethane is reported as ppmvC.

TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.

Laboratory Director

<sup>\*</sup> total amount containing meta, para, and ortho isomers

# QUALITY ASSURANCE SUMMARY (Repeat Analyses)

Project Location: Sunshine Canyon LF Date Received: January 26, 2018 Date Analyzed: January 26, 2018

Sample ID Probe 205RD	Run #1 (Conc	Run #2	Conc.	From Mean
Probe 205RD	(Conc			
Probe 205RD		entration in p 27400	27400	0.18
	27500	2/400	2/400	0.16
Probe 205RD	<5	<5		
Probe 205RD	18.9	20.1	19.5	3.1
Probe 205RD	0.39	0.44	0.42	6.0
	(Conc	entration in ,	opbv)	
Probe 205RD	7.99	7.05	7.52	6.2
Probe 205RD	<8	<8		-
Probe 205RD	<8	<8		444
Probe 205RD	<12	<12		
Probe 205RD	<10	<10		944
Probe 205RD	<10	<10	444	***
Probe 205RD	<10	<10	1.00	C
Probe 205RD	<10	<10	نبي	
Probe 205RD	<6	<6		
Probe 205RD	<6	<6	1444	
Probe 205RD	<8	<8	9-9-5	775
Probe 205RD	<8	<8	-	***
Probe 205RD	<6	<6	***	***
Probe 205RD	<6	<6		
Probe 205RD	<8	<8	4.	
Probe 205RD	<8	<8	***	***
Probe 205RD	<8	<8		
Probe 205RD	<8	<8		
	Probe 205RD	Probe 205RD       18.9         Probe 205RD       0.39         Probe 205RD       7.99         Probe 205RD       <8	Probe 205RD       18.9       20.1         Probe 205RD       0.39       0.44         (Concentration in probe 205RD       7.99       7.05         Probe 205RD       <8	Probe 205RD       18.9       20.1       19.5         Probe 205RD       0.39       0.44       0.42         (Concentration in ppbv)         Probe 205RD       7.99       7.05       7.52         Probe 205RD       <8

One Tedlar bag sample, laboratory number 10268-1, was analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 4 repeat measurements from one Tedlar bag sample is 3.9%.



# CHAIN OF CUSTODY RECORD

I IME.	72.R	!	NOTES:									PROBE 205R D AIR	D. NUMBER SAMPLE DESIGNATION MATRIX	$\nabla$		PROJECT NAME: SUNSHINE CAN	PROJECT NUMBER: 07218035.00	Office 909-373-2508 Fax 909-373-2518	9383 Charles Smith Avenue Rancho Cucamonaa, CA 91730	SCS FIELD SERVICES
COMPANY:	ACCEPTED BY:											1-25-18(E)	DATE/TIME C	0	4	CANYON	2			
TIME:	DATE:										,	7555	CONTAINER SIZE/TYPE			V	-		4   T	
COMPANY:	RELINC											とりとり	SAMPLE PRESERVATIVE			W.O. / S.O. #:	PROJECT MANAGER: RAY	☐ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other	PAGE	TOTAL NUMBER OF SAMPLES:
NY:	RELINQUISHED BY:												SPECIAL INSTRUCTIONS/COMMENTS				P	☐ REQUIRED:	OF	F SAMPLES:
TIME:	DATE:												COMMENTS			į	42 A50			
COMPANY	ACCEPTED			-							>	<	Toc	- (E	PA	M	ETH'	od 2	25)	ANA
7	TED BY:		SAMPLE								7	< <	TA H2	C 25	(7	rae	LE			ANALYSES REQUESTED
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7	ATE:		PON RECEIPT:						<u></u>		100000	/ Sacol	TG	<i>,N</i>	M	0				LAB USE ONLY



### LABORATORY ANALYSIS REPORT

environmental consultants laboratory services atmaa.com

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: March 2, 2018

Client: SCS Field Services

Project Location: Sunshine Canyon

Project No.: 07218035.00 Task 1 Date Received: February 16, 2018 Date Analyzed: February 16, 2018

AtmAA Lab No.:	10478-28 P-240E	10478-29 P-205R-C	10478-30 P-205R-D	10478-31 P-205R-E	10478-32 P-218-B
Components			ncentration in p		, 2,02
Methane	76000	20200	27300	16700	1180
Carbon dioxide	2400	442000	475000	384000	346000
Ethane	1230	<5	<5	<5	<5
TGNMO	265	<5	<5	<5	<5
Hydrogen sulfide	<0.2	<0.2	0.97	1.26	<0.2
		(Coi	ncentration in p	pbv)	
Benzene	5.04	6.45	6.64	1.94	1.06
Benzyl chloride	<1.4	<1.4	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4	<1.4	<1.4
Dichlorobenzenes*	<3	<3	<3	<3	<3
1,1-dichloroethane	<1.4	<1.4	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4	<1.4	<1.4
Dichloromethane.	<3	<3	<3	<3	<3
1,2-dibromoethane	<1	<1	<1	<1	<1
Perchloroethylene	<1	<1	<1	<1	35.7
Carbon tetrachloride	<1.4	<1.4	<1.4	<1.4	<1.4
Toluene	<1.4	<1.4	2.23	1.65	<1.4
1,1,1-trichloroethane	<1	<1	<1	<1	<1
Trichloroethene	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	1.06
Vinyl chloride	<1	<1	<1	<1	<1
m+p-xylenes	<1.4	1.47	1.84	<1.4	<1.4
o-xylene	<1.4	<1.4	<1.4	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C. Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.

Ethane is reported as ppmvC.

TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.

Brian W. Fung Laboratory Director

<sup>\*</sup> total amount containing meta, para, and ortho isomers

# QUALITY ASSURANCE SUMMARY (Repeat Analyses)

Project Location: Sunshine Canyon Date Received: February 16, 2018 Date Analyzed: February 16, 2018

	Sample	I Repeat	Analysis	Mean	% Diff.
	ID	Run #1	Run#2	Conc.	From Mean
Components		(Cond	entration in	opmv)	
Methane	P-240E	75800	76100	76000	0.20
Ethane	P-240E	1230	1230	1230	0.0
TGNMO	P-240E	265	265	265	0.0
Hydrogen sulfide	P-240E	<0.2	<0.2	442	-4-
3 - 5 - 1	P-205R-C	< 0.2	< 0.2		-
	P-205R-D	1.00	0.94	0.97	3.1
	P-205R-E	1.22	1.31	1.26	3.6
	P-218-B	<0.2	<0.2		
		(Conc	entration in p	opby)	
Benzene	P-240E	5.01	5.07	5.04	0.60
Benzyl chloride	P-240E	<1.4	<1.4		32.5
Chlorobenzene	P-240E	<1.4	<1.4	(444)	1777
Dichlorobenzenes	P-240E	<3	<3		-
1,1-dichloroethane	P-240E	<1.4	<1.4	-	-
1,2-dichloroethane	P-240E	<1.4	<1.4	(44)	111
1,1-dichloroethylene	P-240E	<1.4	<1.4	-	)-p
Dichloromethane	P-240E	<3	<3	0440	0.44
1,2-dibromoethane	P-240E	<1	<1	444	
Perchloroethene	P-240E	<1	<1		===
Carbon tetrachloride	P-240E	<1.4	<1.4		
Toluene	P-240E	<1.4	<1.4		
1,1,1-trichloroethane	P-240E	<1	<1		
Trichloroethene	P-240E	<1	<1		-
Chloroform	P-240E	<1	<1		



## QUALITY ASSURANCE SUMMARY

(Repeat Analyses) (continued)

Project Location: Sunshine Canyon Date Received: February 16, 2018 Date Analyzed: February 16, 2018

	Sample	Repeat	Analysis	Mean	% Diff.
	ID	Run #1	Run #2	Conc.	From Mean
Components		(Cond	centration in	ppbv)	
Vinyl chloride	P-240E	<1	<1		-
m+p-xylenes	P-240E	<1.4	<1.4	222	
o-xylene	P-240E	<1.4	<1.4		

Five Tedlar bag samples, laboratory numbers 10478-(28-32), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 6 repeat measurements from five Tedlar bag samples is 1.2%.



# CHAIN OF CUSTODY RECORD

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LAB USE	ANALYSES REQUESTED	OF SAMPLES:	TOTAL NUMBER OF SAMPLES:			VICES	FIELD SERVICES	300



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### LABORATORY ANALYSIS REPORT

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SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: April 11, 2018

Client: SCS Field Services

Project Location: Sunshine Canyon LF

Project No.: 07218035.00 Task 01

Date Received: March 30, 2018 Date Analyzed: March 30, 2018

AtmAA Lab No.: Sample I.D.:	1	10888-13 Probe 205R-C	10898-14 Probe 205R-D
Components	_		ion in ppmv)
Methane		16000	28900
Carbon dioxide		389000	473000
Ethane		<5	<5
TGNMO		17.9	17.9
Hydrogen sulfide		<0.1	0.54
		(Concentrat	ion in ppbv)
Benzene		5.56	5.95
Benzyl chloride		<4	<4
Chlorobenzene		<4	<4
Dichlorobenzenes*		<6	<6
1,1-dichloroethane		<4	<4
1,2-dichloroethane		<4	<4
1,1-dichloroethylene		<4	<4
Dichloromethane		<4	<4
1,2-dibromoethane		<3	<3
Perchloroethylene		<3	<3
Carbon tetrachloride		<4	<4
Toluene		<4	<4
1,1,1-trichloroethane		<3	<3
Trichloroethene		<3	<3
Chloroform		<3	<3
Vinyl chloride		<3	<3
m+p-xylenes		<4	<4
o-xylene		<4	<4

Methane, ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.

Ethane is reported as ppmvC.

TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.

Brian W. Fung Laboratory Director

<sup>\*</sup> total amount containing meta, para, and ortho isomers

# QUALITY ASSURANCE SUMMARY (Repeat Analyses)

Project Location: Sunshine Canyon LF Date Received: March 30, 2018 Date Analyzed: March 30, 2018

	Sample ID	Run #1	Analysis Run #2	Mean Conc.	% Diff. From Mean
Components Methane	Probe 205R-C	16200	entration in 15900	16000	0.93
Ethane	Probe 205R-C	<5	<5		
TGNMO	Probe 205R-C	17.3	18.5	17.9	3.4
Hydrogen sulfide	Probe 205R-C Probe 205R-D	<0.1 0.53	<0.1 0.55	0.54	1.8
	2 17 (0.00)		centration in		201
Benzene	Probe 205R-C	5.64	5.48	5.56	1.4
Benzyl chloride	Probe 205R-C	<4	<4	727	
Chlorobenzene	Probe 205R-C	<4	<4	140	
Dichlorobenzenes	Probe 205R-C	<6	<6	-	
1,1-dichloroethane	Probe 205R-C	<4	<4	***	100
1,2-dichloroethane	Probe 205R-C	<4	<4	922	
1,1-dichloroethylene	Probe 205R-C	<4	<4	-	-
Dichloromethane	Probe 205R-C	<4	<4		
1,2-dibromoethane	Probe 205R-C	<3	<3		
Perchloroethene	Probe 205R-C	<3	<3	<del></del> /	***
Carbon tetrachloride	Probe 205R-C	<4	<4		
Toluene	Probe 205R-C	<4	<4	877	
1,1,1-trichloroethane	Probe 205R-C	<3	<3	***	****
Trichloroethene	Probe 205R-C	<3	<3		2
Chloroform	Probe 205R-C	<3	<3		2
Vinyl chloride	Probe 205R-C	<3	<3		
m+p-xylenes	Probe 205R-C	<4	<4	777	700
o-xylene	Probe 205R-C	<4	<4		

Two Tedlar bag samples, laboratory numbers 10898-(13 & 14), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 4 repeat measurements from two Tedlar bag samples is 1.9%.

# CHAIN OF CUSTODY RECORD

	TIME:			COMPANY:	CON	ii.		COMPANY	C B		200			アン	-500
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FORM NO. 107 REV. 3/14 TWIN CONCEPTS



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#### LABORATORY ANALYSIS REPORT

environmental consultants laboratory services atmaa.com

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: July 6, 2018

Client: SCS Field Services
Project Location: Sunshine Canyon

Project No.: 07218035.00 Date Received: June 29, 2018 Date Analyzed: June 29, 2018

AtmAA Lab No.:	11808-1 P-205RC	11808-2 P-205RD	11808-3 P-205RE	1
Components		oncentration in ppr		1
Methane	19700	29600	19200	
Carbon dioxide	445000	476000	398000	
Ethane	<5	<5	<5	
TGNMO	14.2	10.3	9.50	
Hydrogen sulfide	<0.2	<0.2	1.93	
	(C	oncentration in ppl	ov)	
Benzene	3.82	3.95	1.38	
Benzyl chloride	<1.4	<1.4	<1.4	
Chlorobenzene	<1.4	<1.4	<1.4	
Dichlorobenzenes*	<3	<3	<3	
1,1-dichloroethane	<1.4	<1.4	<1.4	
1,2-dichloroethane	<1.4	<1.4	<1.4	
1,1-dichloroethylene	<1.4	<1.4	<1.4	
Dichloromethane	<2	<2	<2	
1,2-dibromoethane	<1	<1	<1	
Perchloroethylene	<1	<1	<1	
Carbon tetrachloride	<1.4	<1.4	<1.4	
Toluene	<1.4	<1.4	<1.4	
1,1,1-trichloroethane	<1	<1	<1	
Trichloroethene	<1	<1	<1	
Chloroform	<1	<1	<1	
Vinyl chloride	<1	<1	<1	
m+p-xylenes	1.47	<1.4	<1.4	
o-xylene	<1.4	<1.4	<1.4	

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C. Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.

Ethane is reported as ppmvC.

TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.

Brian W. Fung Laboratory Director

<sup>\*</sup> total amount containing meta, para, and ortho isomers

# QUALITY ASSURANCE SUMMARY (Repeat Analyses)

Project Location: Sunshine Canyon Date Received: June 29, 2018 Date Analyzed: June 29, 2018

	Sample	Repeat	t Analysis	Mean	% Diff.
	ID	Run #1	Run #2	Conc.	From Mean
Components Methane	P-205RC	(Cond 19600	entration in 19800	<i>ppmv)</i> 19700	0.51
				10700	0.01
Ethane	P-205RC	<5	<5		
TGNMO	P-205RC	14.2	14.3	14.2	0.35
Hydrogen sulfide	P-205RE	1.91	1.95	0.97	3.1
Benzene	P-205RC	(Cond 3.70	centration in , 3.95	opbv) 3.82	3.3
Benzyl chloride	P-205RC	<1.4	<1.4		
Chlorobenzene	P-205RC	<1.4	<1.4		120
Dichlorobenzenes	P-205RC	<3	<3		
1,1-dichloroethane	P-205RC	<1.4	<1.4	-	
1,2-dichloroethane	P-205RC	<1.4	<1.4		
1,1-dichloroethylene	P-205RC	<1.4	<1.4	242	
Dichloromethane	P-205RC	<2	<2		177
1,2-dibromoethane	P-205RC	<1	<1	***	
Perchloroethene	P-205RC	<1	<1	42	-
Carbon tetrachloride	P-205RC	<1.4	<1.4		192
Toluene	P-205RC	<1.4	<1.4		****
1,1,1-trichloroethane	P-205RC	<1	<1	-	1
Trichloroethene	P-205RC	<1	<1		1
Chloroform	P-205RC	<1	<1	400	
Vinyl chloride	P-205RC	<1	<1	(277)	(miles ton)
m+p-xylenes	P-205RC	<1.4	1.47	-	
o-xylene	P-205RC	<1.4	<1.4	-	

Three Tedlar bag samples, laboratory numbers 11808-(1-3), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 4 repeat measurements from two Tedlar bag samples is 1.8%.



# CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES	VICES			TOTAL NUMBER OF SAMPLES:	JF SAMPLES:	CTT-CTG ODOX IANA		LAB USE
7 70 6060						AINALT SES REGUES II		ONLY
9383 Charles Smith Avenue				PAGE /	) JO			
Office 909-373-2508 Fax 909-373-2518	9-373-2518			TURNAROUND TIME REQUIRED:	ME REQUIRED: ☐ 24-Hr. ☐ Other			
PROJECT NUMBER: 072/8035	035.00	0		(7)	RA			
PROJECT NAME: SUNSHINE	JE CA.	CANYON		W.O. / S.O. #:	1	2	00	
PROJECT LOCATION: SYLMAR	01	1.4				north	W	
SAMPLER NAME AND SIGNATURE:	,					201	~5	
	SAMPLE	DATE/TIME COLLECTED		SAMPLE	SPECIAL INSTRUCTIONS/COMMENTS	コロロアガルコ	21	
11 80/2 PROBE 205RC	AIR	13:07	-			> > > > > > > > > > > > > > > > > > >		
1						٨ ١		
-2 PROBE 205 RD	AIR	08-58-18	10 L TEDUAR	NONE		× × × × × × × × × × × × × × × × × × ×		
200							,	
-3 PRODE 205RE	AIR	04:51	10 L TEDLAR	NONE		× × × × ×	×	
NOTES:						SAMPLE COND	SAMPLE CONDITION UPON BECEIPT.	ECEIPT.
	2							
RELATIONSHEED BY	7	ACCEPTED BY:	DATE	CAN RELIN	RELINQUISHED BY: DATE:	ACCEPTED BY:	DATE	
COMPANY: SSS TIME:	DAD TO	COMPANY:	TIME	COMPANY:	ANY: TIME:	COMPANY: MH	TIME:	_
FORM NO. 107 REV. 3/14 TWIN CONCEPTS						1111 1111	0/0	1/10





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#### LABORATORY ANALYSIS REPORT

environmental consultants laboratory services atmaa.com

TO-15 Component Analysis in Probe Tedlar Bag Samples, by GC/MS

Report Date: July 12, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: June 29, 2018
Date Analyzed: June 29, 2018

AtmAA Lab No.: Sample ID:	1	11808-1 Probe 205RC	11808-2   Probe 205RD	11808-3 Probe 205RE	1
Components	_		Concentations in ppby		-
Freon 12		< 0.6	<0.6	< 0.6	
Chloromethane		< 0.8	<0.8	< 0.8	
Freon 114		< 0.6	< 0.6	< 0.6	
Vinyl Chloride		< 0.6	< 0.6	< 0.6	
1,3-Butadiene		< 0.8	<0.8	< 0.8	
Bromomethane		< 0.8	<0.8	< 0.8	
Chloroethane		< 0.6	< 0.6	< 0.6	
Bromoethene		< 0.8	<0.8	< 0.8	
Acetone		61.6	63.0	108	
Freon 11		< 0.6	< 0.6	< 0.6	
Isopropyl Alcohol		78.6	108	133	
1,1-Dichloroethene		< 0.8	<0.8	< 0.8	
Methylene Chloride		< 0.8	< 0.8	< 0.8	
3-Chloro-1-Propene		< 0.8	< 0.8	<0.8	
Carbon Disulfide		< 0.6	< 0.6	< 0.6	
Freon 113		< 0.6	< 0.6	< 0.6	
trans-1,2-Dichloroethene		<0.8	<0.8	< 0.8	
1,1-Dichloroethane		<0.8	<0.8	<0.8	
MTBE		<0.8	< 0.8	< 0.8	
Vinyl Acetate		<1	<1	<1	
2-Butanone		<2	<2	<2	
cis-1,2-Dichloroethene		<0.8	<0.8	< 0.8	
n-Hexane		0.94	0.85	<0.8	
Chloroform		<0.6	<0.6	<0.6	
Ethyl Acetate		<0.8	<0.8	<0.8	
Tetrahydrofuran		<0.8	<0.8	<0.8	
1,2-Dichloroethane		<0.8	<0.8	<0.8	
1,1,1-Trichloroethane		<0.6	<0.6	<0.6	
Benzene		3.82	3.95	1.38	
Carbon Tetrachloride		< 0.6	<0.6	<0.6	
Cyclohexane		<0.8	<0.8	<0.8	
1,2-Dichloropropane		<0.8	<0.8	<0.8	
Bromodichloromethane		<0.8	<0.8	<0.8	
Trichloroethene		<0.6	<0.6	<0.6	
1,4-Dioxane		<0.8	<0.8	<0.8	
2,2,4-Trimethyl Pentane		<0.8	<0.8	<0.8	
n-Heptane		<0.8	<0.8	<0.8	
cis-1,3-Dichloropropene		<0.8	<0.8	<0.8	
4-Methyl-2-pentanone		<0.8	<0.8	<0.8	
trans-1,3-Dichloropropene		<0.8	<0.8	<0.8	
1,1-2-Trichloroethane		<0.8	<0.8	<0.8	
Toluene		0.98	1.22	1.06	
2-Hexanone		<0.8	<0.8	<0.8	
Dibromochloromethane		<0.6	<0.6	<0.6	
1,2-Dibromomethane		<0.6	<0.6	<0.6	
Tetrachloroethene		<0.6	<0.6	<0.6	
Chlorobenzene		<0.8	<0.8	<0.8	
Ethylbenzene		<0.6	<0.6	<0.6	
m,p-Xylene		1.36	1.01	1.20	
Bromoform		<0.6	<0.6	<0.6	
Styrene		<0.6	<0.6	<0.6	
1,1,2,2-Tetrachloroethane		<0.6	<0.6	<0.6	
o-Xylene		1.18	0.78	1.01	
Benzyl Chloride		<0.8	<0.8	<0.8	
4-Ethyl Toluene		<0.6	<0.6	<0.6	
1,3,5-Trimethyl Benzene		<0.6	<0.6	<0.6	
1,2,4-Trimethyl Benzene		0.67	0.69	0.65	
1,3-Dichlorobenzene		<0.6		<0.6	
		<0.6	<0.6		
1,4-Dichlorobenzene 1,2-Dichlorobenzene			<0.6	<0.6	1
		<0.6 <0.8	<0.6 <0.8	<0.6	3r
1,2,4-Trichlorobenzene Hexachlorobutadiene		<0.6	<0.6		a
i icadillo obulatiene		<b>NO.0</b>	~0.0	<0.6	d

Brian W. Fung Laboratory Director

# QUALITY ASSURANCE SUMMARY (Repeat Analyses)

Project Location: Sunshine Canyon Date Received: June 29, 2018 Date Analyzed: June 29, 2018

	Sample	Repeat	Analysis	Mean	% Diff.
	ID	Run #1	Run #2	Conc.	From Mean
Components	-	(Conc	entration in	ppbv)	
Freon-12	Probe 205RC	<0.6	<0.6		
Chloromethane	Probe 205RC	<0.8	<0.8		
Freon 114	Probe 205RC	<0.6	<0.6	des	(Yana)
Vinyl Chloride	Probe 205RC	<0.6	<0.6		
1,3-Butadiene	Probe 205RC	<0.8	<0.8	-	-
Bromomethane	Probe 205RC	<0.8	<0.8	-	-
Chloroethane	Probe 205RC	<0.6	<0.6		-
Bromoethene	Probe 205RC	<0.8	<0.8	-	منت
Acetone	Probe 205RC	56.1	67.2	61.6	9.0
Freon 11	Probe 205RC	<0.6	<0.6	- 222	***
sopropyl Alcohol	Probe 205RC	73.8	83.5	78.6	6.2
1,1-Dichloroethene	Probe 205RC	<0.8	<0.8		inter-
Methylene Chloride	Probe 205RC	<0.8	<0.8		
3-Chloro-1-Propene	Probe 205RC	<0.8	<0.8	-	
Carbon Disulfide	Probe 205RC	<0.6	<0.6	-	****
Freon 113	Probe 205RC	<0.6	<0.6		
rans-1,2-Dichloroethene	Probe 205RC	<0.8	<0.8	(444)	-
,1-Dichloroethane	Probe 205RC	<0.8	<0.8		-
ИТВЕ	Probe 205RC	<0.8	<0.8		775
/inyl Acetate	Probe 205RC	<1	<1	2_6	
-Butanone	Probe 205RC	<2	<2		1.50
-Dutanone	Flobe 205RC	~2	~2		



#### QUALITY ASSURANCE SUMMARY

(Repeat Analyses) (continued)

	Sample	Repeat	Analysis	Mean	% Diff.
	ID	Run #1	Run #2	Conc.	From Mean
Components		(Cond	entration in	ppbv)	
cis-1,2-Dichloroethene	Probe 205RC	<0.8	<0.8		~~~
n-Hexane	Probe 205RC	0.85	1.02	0.94	9.1
Chloroform	Probe 205RC	<0.6	<0.6	(220)	
Ethyl Acetate	Probe 205RC	<0.8	<0.8		22
Tetrahydrofuran	Probe 205RC	<0.8	<0.8		
1,2-Dichloroethane	Probe 205RC	<0.8	<0.8		
1,1,1-Trichloroethane	Probe 205RC	<0.6	<0.6	224	4.0
Benzene	Probe 205RC	3.70	3.95	3.82	3.3
Carbon Tetrachloride	Probe 205RC	<0.6	<0.6		-
Cyclohexane	Probe 205RC	<0.8	<0.8		
1,2-Dichloropropane	Probe 205RC	<0.8	<0.8		-
Bromodichloromethane	Probe 205RC	<0.8	<0.8		-
Trichloroethene	Probe 205RC	<0.6	<0.6	1777	-
1,4-Dioxane	Probe 205RC	<0.8	<0.8		
2,2,4-Trimethyl Pentane	Probe 205RC	<0.8	<0.8	( <del></del> )	
n-Heptane	Probe 205RC	<0.8	<0.8		-
cis-1,3-Dichloropropene	Probe 205RC	<0.8	<0.8	-	-
4-Methyl-2-pentanone	Probe 205RC	<0.8	<0.8		Ser.
trans-1,3-Dichloropropene	Probe 205RC	<0.8	<0.8	-	l-re-
1,1-2-Trichloroethane	Probe 205RC	<0.8	<0.8		<del></del>
Toluene	Probe 205RC	0.96	1.01	0.98	2.5
2-Hexanone	Probe 205RC	<0.8	<0.8	***	-ini-



# QUALITY ASSURANCE SUMMARY (Repeat Analyses)

(continued)

	Sample ID	Repeat	Analysis Run #2	Mean Conc.	% Diff. From Mean
Components	ID	and the second s	centration in		T TOTH WCan
Dibromochloromethane	Probe 205RC	<0.6	<0.6		) <u></u>
1,2-Dibromomethane	Probe 205RC	<0.6	<0.6		
Tetrachloroethene	Probe 205RC	<0.6	<0.6		<del></del>
Chlorobenzene	Probe 205RC	<0.8	<0.8		-
Ethylbenzene	Probe 205RC	<0.6	<0.6		444
m,p-Xylene	Probe 205RC	1.24	1.47	1.36	8.5
Bromoform	Probe 205RC	<0.6	<0.6		-
Styrene	Probe 205RC	<0.6	<0.6		-
1,1,2,2-Tetrachloroethane	Probe 205RC	<0.6	<0.6	(week)	
o-Xylene	Probe 205RC	1.20	1.15	1.18	2.1
Benzyl Chloride	Probe 205RC	<0.8	<0.8		
4-Ethyl Toluene	Probe 205RC	<0.6	<0.6	-	
1,3,5-Trimethyl Benzene	Probe 205RC	<0.6	<0.6		1
1,2,4-Trimethyl Benzene	Probe 205RC	0.69	0.65	0.67	3.0
1,3-Dichlorobenzene	Probe 205RC	<0.6	<0.6		-
1,4-Dichlorobenzene	Probe 205RC	<0.6	<0.6		0 <del>00</del> -0
,2-Dichlorobenzene	Probe 205RC	<0.6	<0.6		797
,2,4-Trichlorobenzene	Probe 205RC	<0.8	<0.8		-
Hexachlorobutadiene	Probe 205RC	<0.6	<0.6		

Three Tedlar bag samples, laboratory numbers 11808-(1-3), were analyzed for TO-15 components y GC/MS. Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 8 repeat measurements from the three Tedlar bag samples is 5.5%.



# CHAIN OF CUSTODY RECORD

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9383 Charles Smith Avenue Rancho Cucamonga, CA 91730 Office 909-373-2508 Fax 909-373-2518 PROJECT NUMBER: 072/8035, 00		OTAL NOMBEN OF SAMIFLES.	SAMPLES:	ANALYSES REQUESTED	ONLY
Kancho Cucamonga, CA 91730 Office 909-373-2508 Fax 909-373-2518 PROJECT NUMBER: 072/8035.00		PAGE /	) lo		
PROJECT NUMBER: 072/8035, 00		TURNAROUND TIME REQUIRED:	AE REQUIRED: ☐ 24-Hr. ☐ Other		
•		PROJECT MANAGER:	RA		
PROJECT NAME: SUNSHINE CANYON		W.O. / S.O. #:	1	20	
PROJECT LOCATION: SULMAR CA				POINT.	
SAMPLER NAME AND SIGNATURE:				200	
SAMPLE DESIGNATION SAMPLE DATE/TIME MATRIX COLLECTED		SAMPLE	SPECIAL INSTRUCTIONS/COMMENTS	コロカロコ	
11809 PROBE 205RC AIR 016-28-18 10L	-			× × × ×	
				4	
-2 PROBE 205 RD AIR 06-28-18 10 L	O TEDLAR	NONE		× × × × × × × × × × × × × × × × × × ×	
2. 00 10					
- 3 PRO 205RE AIR 13:40 TED	O TEDIAR	NONE		X	
NOTES:				SAMPLE CONDITION UPON RECEIPT:	UPON RECEIPT:
	1	,			
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FORM NO. 107 REV. 214 TWIN CONGEPTS	5		TIME	COMPANY: APH	6/29/18 ~



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#### LABORATORY ANALYSIS REPORT

environmental consultants laboratory services atmaa.com

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: August 6, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: July 27, 2018
Date Analyzed: July 27-30, 2018

AtmAA Lab No.:	12088-10 P-205R-C	12088-11 P-205R-D	12088-12 P-205R-E	12088-13 P-220B-B
Components	1 20011-0		ion in ppmv)	1-2200-0
Methane	19500	27400	18800	74.1
Carbon dioxide	446000	472000	387000	90600
Ethane	<5	<5	<5	<1
TGNMO	14.2	14.7	12.2	6.01
Hydrogen sulfide	<0.1	<0.1	1.26	<0.1
		(Concentrat	ion in ppbv)	
Benzene	5.42	5.14	1.82	<1
Benzyl chloride	<1.4	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4	<1.4
Dichlorobenzenes*	3.69	3.39	3.36	<3
1,1-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4	<1.4
Dichloromethane	<2	<2	<2	<2
1,2-dibromoethane	<1	<1	<1	<1
Perchloroethylene	<1	<1	<1	2.39
Carbon tetrachloride	<1.4	<1.4	<1.4	<1.4
Toluene	2.58	2.55	2.23	1.40
1,1,1-trichloroethane	<1	<1	<1	<1
Trichloroethene	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
Vinyl chloride	<1	<1	<1	<1
m+p-xylenes	3.09	2.53	3.00	<1.4
o-xylene	1.62	<1.4	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C. Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.

Ethane is reported as ppmvC.

TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.

Brian W. Fung Laboratory Director

<sup>\*</sup> total amount containing meta, para, and ortho isomers

#### QUALITY ASSURANCE SUMMARY (Repeat Analyses)

Project Location: Sunshine Canyon Date Received: July 27, 2018 Date Analyzed: July 27-30, 2018

Ş.,	Sample ID	Run #1	Analysis Run #2	Mean Conc.	% Diff. From Mean
Components Methane	P-205R-C	(Conc 19600	entration in 19400	ppmv) 19500	0.51
Ethane	P-205R-C	<5	<5		
TGNMO	P-205R-C	14.0	14.4	14.2	1.4
Hydrogen sulfide	P-205R-C P-205R-E P-220B-B	<0.1 1.23 <0.1	<0.1 1.30 <0.1	1.26	2.8
Benzene	P-205R-C	(Cond 5.51	entration in 5,32	ppbv) 5,42	1.8
Benzyl chloride	P-205R-C	<1.4	<1.4		
Chlorobenzene	P-205R-C	<1.4	<1.4		
Dichlorobenzenes	P-205R-C	3.59	3.79	3.69	2.7
1,1-dichloroethane	P-205R-C	<1.4	<1.4	****	14
1,2-dichloroethane	P-205R-C	<1.4	<1.4	in	
1,1-dichloroethylene	P-205R-C	<1.4	<1.4	-	
Dichloromethane	P-205R-C	<2	<2	-	-
1,2-dibromoethane	P-205R-C	<1	<1		-
Perchloroethene	P-205R-C	<1	<1		
Carbon tetrachloride	P-205R-C	<1.4	<1.4		
Toluene	P-205R-C	2.28	2.87	2.58	11
1,1,1-trichloroethane	P-205R-C	<1	<1		-
Trichloroethene	P-205R-C	<1	<1		-
Chloroform	P-205R-C	<1	<1		444
Vinyl chloride	P-205R-C	<1	<1		946
m+p-xylenes	P-205R-C	3.23	2.95	3,09	4.5
o-xylene	P-205R-C	1.84	1.40	1.62	14

Four Tedlar bag samples, laboratory numbers 12088-(10-13), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 8 repeat measurements from four Tedlar bag samples is 4.8%.



# CHAIN OF CUSTODY RECORD

PAGE   OF	SCS	FIELD	SERVICES	10		TOTAL NUMBER OF SAMPLES:	OF SAMPLES:		ANA	LYSE	ANALYSES REQUESTED	UEST	TED	ב	LAB USE
1. THEN MED TIME RECUIRED:  10, CA 9 1720  10, CA 9	9383 C	narles Smith Avenue				PAGE /	OF /								
PROJECT MANAGER: Ray 41 49455  Solinary CA	Rancho Office 9	Cucamonga, CA 9173 09-373-2508 Fax 90	30			TURNAROUND T	IME REQUIRED: ☐ 24-Hr. ☐ Other								
Signature. Cary on Solution of State of	PROJECT N	IUMBER: 072190	35.00			PROJECT MANAC	Ray Al								
SIGNATURE: SALLS DIAZ CALLA COLLECTOR SAMPLE DIAZNAMEN BESERVATIVE SPECIAL INSTRUCTIONS COMMENTS X X X X X X X X X X X X X X X X X X X	PROJECT N	IAME: SUNSHINE	Canyon			W.O. / S.O. #:									
SIGNATURE SAUGE DIAZ-CONTANER SANUE SANUE SANUE DAVENTE CONTANER SANUE DAVENTE SANUE DAVENTE SANUE SANUE SANUE SANUE DAVENTE COLLECTOR SCIENCE DAVE SANUE SANUE SANUE SANUE SANUE SANUE SANUE STELLA NOWE STELLA NOWE STELLA NOWE STELLA NOWE STELLA NOWE STELLA NOWE STELLA SOO HES TELLA NOWE STELLA SOO HES TELLA NOWE STELLA SOO HES TELLA SOO	PROJECT L	OCATION: Sylman,	,40												
DESIGNATION SAMPLE CONTENTED PRESENTATIVE SPECIAL INSTRUCTIONSICOMMENTS PORTY PROPERTY PROPER	SAMPLER	JAME AND SIGNATURE:			6				5	t			on		
20572-D AIR William 100-12 Now 10	I.D. NUMBER	_	1.00	DATETIME		SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENT	01	HZ	CH			v91		
205/2-D AIR OFFILIS & 10L NOWE XXXX 208-B AIR OFFILIS & 10L NOWE XXXX 3208-B AIR OFFI & 10L NOWE XXXX 3208-B AIR O		Probe 20strc	AIR	1400 HRS		None			×	×			x	(3)	2058-10
208-E AIR OH/20/18 & 10C  208-B AIR OH/20/18 & 10C  300 HES TEDLAR NONF  PARE NONE X X X X X X X X X X X X X X X X X X X			416	07/24/18 @ 1415 HRS	101	ANON			- 1		X		X		))
TIME: COMPANY: TIME: COMPANY: TIME: COMPANY:		Proba 205 R-E	Aire	07/24/18 @ 1425 HRS	10C TEDLAR	NONE			-	×			×		6
TIME: OOMPANY: TIME: COMPANY: TIME: COMPANY:		Probe 2208-B	A.A.	07/26/15(2)		None			-			_	×		5
TIME: COMPANY: TIME: COMPANY: TIME: COMPANY:															
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#### LABORATORY ANALYSIS REPORT

environmental consultants laboratory services atmaa.com

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: September 4, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: August 24, 2018

Date Received: August 24, 2018 Date Analyzed: August 24, 2018

AtmAA Lab No.:	12368-3 P-205R-B	12368-4 P-205R-C	12368-5 P-205R-D	12368-6 P-205R-E
Components	1 -20011-0		ion in ppmv)	1 -2001(-L
Methane	11600	19800	27200	19400
Carbon dioxide	313000	452000	474000	392000
Ethane	<5	<5	<5	<1
TGNMO	7.51	7.97	7.41	7.44
Hydrogen sulfide	0.17	<0.1	<0.1	1.05
		(Concentrati	ion in ppbv)	
Benzene	3.35	5.95	5.26	2.94
Benzyl chloride	<1.4	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4	<1.4
Dichlorobenzenes*	3.54	<3	3.33	3.79
1,1-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4	<1.4
Dichloromethane	<2	<2	<2	<2
1,2-dibromoethane	<1	<1	<1	<1
Perchloroethylene	<1	<1	<1	<1
Carbon tetrachloride	<1.4	<1.4	<1.4	<1.4
Toluene	2.66	1.91	2.34	2.02
1,1,1-trichloroethane	<1	<1	<1	<1
Trichloroethene	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
Vinyl chloride	<1	<1	<1	<1
m+p-xylenes	2.70	1.75	1.89	1.82
o-xylene	1.66	1.43	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C. Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25. Ethane is reported as ppmvC.

TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.

Brian W Eurig Laboratory Director

<sup>\*</sup> total amount containing meta, para, and ortho isomers

## QUALITY ASSURANCE SUMMARY (Repeat Analyses)

Project Location: Sunshine Canyon Date Received: August 24, 2018 Date Analyzed: August 24, 2018

	Sample ID	Run #1	t Analysis Run #2	Mean Conc.	% Diff. From Mean
Components Methane	P-205R-B	(Cond 11600	centration in 11600	<i>ppmv)</i> 11600	0.0
Ethane	P-205R-B	<5	<5	100	
TGNMO	P-205R-B	7.79	7.23	7.51	3.7
Hydrogen sulfide	P-205R-B P-205R-C P-205R-D P-205R-E	0.17 <0.1 <0.1 1.06	0.17 <0.1 <0.1 1.04	0.17  1.05	0.0  0.95
Benzene	P-205R-B	(Cond 3.51	centration in 3.19	ppbv) 3.35	4.8
Benzyl chloride	P-205R-B	<1.4	<1.4		
Chlorobenzene	P-205R-B	<1.4	<1.4		
Dichlorobenzenes	P-205R-B	3.36	3.73	3.54	5.2
1,1-dichloroethane	P-205R-B	<1.4	<1.4	-	•••
1,2-dichloroethane	P-205R-B	<1.4	<1.4	424	222
1,1-dichloroethylene	P-205R-B	<1.4	<1.4		1
Dichloromethane	P-205R-B	<2	<2	-	244
1,2-dibromoethane	P-205R-B	<1	<1	(77)	-
Perchloroethene	P-205R-B	<1	<1	-	400.
Carbon tetrachloride	P-205R-B	<1.4	<1.4		
Toluene	P-205R-B	2.50	2.81	2.66	5.8
1,1,1-trichloroethane	P-205R-B	<1	<1	**	
Trichloroethene	P-205R-B	<1	<1		
Chloroform	P-205R-B	<1	<1	,222,	244
Vinyl chloride	P-205R-B	<1	<1		
m+p-xylenes	P-205R-B	2.49	2.90	2.70	7.6
o-xylene	P-205R-B	1.57	1.75	1.66	5.4

Four Tedlar bag samples, laboratory numbers 12368-(3-6), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 9 repeat measurements from four Tedlar bag samples is 3.7%.



Page 2 of 2

# CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES	SER	VICES			TOTAL NUMBER OF SAMPLES:	OF SAMPLES:		ANALY	SES RE	ANALYSES REQUESTED	ED	LAB USE
9383 Charles Smith Avenue	/enne	10			PAGE /	OF /						
Rancho Cucamonga, CA 91730 Office 909-373-2508 Fax 909-373-2518	A 9173( Fax 905	7-373-2518			TURNAROUND TIME REQUIRED Std. □3-Day □24-Hr. □0	IME REQUIRED: ☐ 24-Hr. ☐ Other						
PROJECT NUMBER: 072/8 035. 00	18035	00			PROJECT MANAGER: Ray	3ER: Ray 4/ 4455						
PROJECT NAME: Sunshine	-	Canyon			W.O. / S.O. #:							
PROJECT LOCATION: Sylmer	mar	CA									0	
SAMPLER NAME AND SIGNATURE: Sauls DHRZ	ATURE:	Saule D		9				5			) IMI	
I.D. NUMBER SAMPLE DESIGNATION	SNATION	SAMPLE	DATEMIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	JOT TAC	45	200 1-40	MH	v 51	
-3 Probe 2058-B	2-8	AIR	08/23/18(@	TEDLAR	anlery		X R	×		×	×	
-4 Probe 2054-C	3	AIR	08/23/18@	10C TEDIAR	ANAN		* *	×	×	×		
-5 Probe 2054-9	0-2	AIR	08/22/18@	101 TEDLAR	Nove		×	×	×	X	v	
-(0 Probe 205A-E	in di	414	08/23/186	JOL TEDLAR	AMON		×	X	X	×	X	
									-			
NOTES:									SAME	LE CON	DITION UPO	SAMPLE CONDITION UPON RECEIPT:
RELINQUISHED BY:  KIRWO COMPANY: FORM NO. 107 REV. 3014 TWIN CONCEPTS.	TIME:	5)-	ACCEPTED BY.	PATE:	COMEDING	RELINQUISHED BY: COMPANY: TIME:	2 0	COMPANY:			DATE &	51/27/12 12



Atm AA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

#### LABORATORY ANALYSIS REPORT

environmental consultants laboratory services atmaa.com

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: October 11, 2018

Client: SCS Field Services

Project Location: Sunshine Canyon

Project No.: 07218035.00

Date Received: September 28, 2018 Date Analyzed: September 28 & 29, 2018

AtmAA Lab No.:	Ĩ	12718-8 P 205R-C	12718-9 P 205R-D	12718-10   P 205R-E
Components	_		concentration in p	
Methane		19000	26900	16500
Carbon dioxide		442000	475000	374000
Ethane		<5	<5	<5
TGNMO		12.0	12.1	8.58
Hydrogen sulfide		<0.1	<0.1	1.38
		(C	oncentration in p	pbv)
Benzene		3.92	4.20	1.75
Benzyl chloride		<1.4	<1.4	<1.4
Chlorobenzene		<1.4	<1.4	<1.4
Dichlorobenzenes*		2.90	3.69	3.56
1,1-dichloroethane		<1.4	<1.4	<1.4
1,2-dichloroethane		<1.4	<1.4	<1.4
1,1-dichloroethylene		<1.4	<1.4	<1.4
Dichloromethane		<2	<2	<2
1,2-dibromoethane		<1	<1	<1
Perchloroethylene		<1	<1	<1
Carbon tetrachloride		<1.4	<1.4	<1.4
Toluene		1.99	2.71	2.34
1,1,1-trichloroethane		<1	<1	<1
Trichloroethene		<1	<1	<1
Chloroform		<1	<1	<1
Vinyl chloride		<1	<1	<1
m+p-xylenes		1.52	1.57	<1.4
o-xylene		<1.4	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C. Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.

TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.

Ethane is reported as ppmvC.

Brian W Fung Laboratory Director

<sup>\*</sup> total amount containing meta, para, and ortho isomers

# QUALITY ASSURANCE SUMMARY (Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: September 28, 2018
Date Analyzed: September 28 & 29, 2018

20.000	Sample ID	Run #1	at Analysis Run #2	Mean Conc.	% Diff. From Mean
Components Methane	P 205R-C	( <i>Con</i> 19000	centration in 19000	19000	0.0
Ethane	P 205R-C	<5	<5		Sect
TGNMO	P 205R-C	11.9	12.1	12.0	0.83
Hydrogen sulfide	P 205R-C P 205R-E	<0.1 1.36	<0.1 1.39	1,38	1.1
		(Con	centration in	nnhy)	
Benzene	P 205R-C	3.88	3.95	3.92	0.89
Benzyl chloride	P 205R-C	<1.4	<1.4	-4450	
Chlorobenzene	P 205R-C	<1.4	<1.4	-45	
Dichlorobenzenes	P 205R-C	2.90	2.90	2.90	0.0
1,1-dichloroethane	P 205R-C	<1.4	<1.4		
1,2-dichloroethane	P 205R-C	<1.4	<1.4		44
1,1-dichloroethylene	P 205R-C	<1.4	<1.4	-	
Dichloromethane	P 205R-C	<2	<2		
1,2-dibromoethane	P 205R-C	<1	<1		-
Perchloroethene	P 205R-C	<1	<1		
Carbon tetrachloride	P 205R-C	<1.4	<1.4		-
Toluene	P 205R-C	2.02	1.96	1.99	1.5
1,1,1-trichloroethane	P 205R-C	<1	<1	522	9227
Trichloroethene	P 205R-C	<1	<1	122	(American)
Chloroform	P 205R-C	<1	<1	444	
Vinyl chloride	P 205R-C	<1	<1	(755)	
m+p-xylenes	P 205R-C	1.52	1.52	1.52	0.0
o-xylene	P 205R-C	<1.4	<1.4	-	· ·

Three Tedlar bag samples, laboratory numbers 12718-(8-10), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 7 repeat measurements from two Tedlar bag samples is 0.62%.



# CHAIN OF CUSTODY RECORD

SCS	SCS FIELD SERVICES	VICES			TOTAL NUMBER OF SAMPLES:	OF SAMPLES: '3		ANA	ANALYSES BEOLIEGIED		LAB USE
9383 Ch	9383 Charles Smith Avenue				PAGE			Care	LISES NEGOESTEL		ONLY
Rancho ( Office 9(	Rancho Cucamonga, CA 91730 Office 909-373-2508 Fax 909-373-2518	9-373-2518			AROUND TI	ME REQUIRED: □ 24-Hr. □ Other					
PROJECT N	PROJECT NUMBER: 07218035.00	35.00	2			RAY AL	AVASS		()		
PROJECT NAME:	AME: SUNSHING CANYON	C CA	MON	JANDFILL	W.O. / S.O. #:	1	9		9	10	
PROJECT LOCATION:	PROJECT LOCATION: SALVIAR	IAR,						-			
SAIVIL LED IN	INITIAL SIGNAL URE:							25/25	11	, ,	
er l	SAMPLE DESIGNATION	SAMPLE	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	MMENTS	1	ヨかわ		
137.18	PROBE 205R-C	AIR	9-27-18 (2)	10 L TEDLAR	NONE			×	×		
6-	PROBE		0. 22. 196	10)							
6	205 R-D	AIR	13:15 HRS	TEDLAR	NONE			XXX	XXXX		
	PRUBE	0	981-126-6								
	205 R-E	FIK	13:20 HRS	TEDLAR	NONE			メメメ	イベイズ		
NOTES:						1			SAMPLE CONDITION UPON RECEIPT:	TION UPON R	ECEIPT:
				8	0						
COMPANY:	TIME	N S	ACCEPTED BY:	DONE	RELINGUIS	HED BY:	DATE:	ACCEPTED B.		P-28-17	477
FORM NO. 107 REV. 3/14 TWIN CONCEPTS	TWIN CONCEPTS	0	1					SOMPANY M	Grant.	TIME:	WE: // 150

# ATTACHMENT D DOGGR WELL RECORDS

## PROPERTY/WELL TRANSFER OR ACQUISTION

**TEXACO E. & P. INC. - T1600** 

TO

CHEVRONTEXACO EXPL. & PROD., CO. – C5680

TRANSFER EFFECTIVE AUGUST 22, 2002

CHEVRONTEXACO EXPL. & PROD., CO. - C5680

TO

CHEVRON U.S.A. INC. – C5640
TRANSFER EFFECTIVE JULY 11, 2005

# ESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS

### REPORT OF WELL PLUGGING AND RE-ABANDONMENT

Ventura,	California
July 8, 1	997

Cheryl S. Grayson Grayson Services, Inc.					
4004 S. Enos Lane					
Bakersfield, CA 93312					
Your report of the plugging and re	-abandonment o		Γexaco, Ir Eadie"1	OC.	
A.P.I. No. <u>037-06077</u>	, Section	2 <b>3</b> ,T	<u>3N</u> ,R	16W ,	<u>SB</u> B.& M.,
	fie	eld, <u>Lo</u>	s Angeles		_ County,
dated <u>June 23, 1997</u> ,	eceived <u>June</u>	<b>2</b> 5, <b>1</b> 997	, has bee	n examined in	conjunction
with records filed in this office. V	Ve have determir	ned that all	of the requir	ements of this	Division have
been fulfilled relative to plugging a	and abandonmen	t of the we	ll, removal o	f well equipme	nt and junk,
and the filing of well records.					
				William F. Gue	
tkc			ву/	tate Oil and Gas Si	upervisor
				Patrick J. Kinne	ear
				Deputy Supervisor	

cc: Update

	<u>.</u>	
OPERATOR FEXACO" WELL NO. "Egdie"	A.:	P.I.037_06077 3 N, R. 14 W
WELL NO "Factor" I	SECTION 23. T	3 N, R. 10 W
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INTENTION Abd. Abd.	\\\ \d \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
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P-REPORT NUMBER 393.048 393.349	2011-097-	
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ENGIN	EERING CHECK	
T-REPORTS	<u> </u>	
OPERATOR'S NAME		
WELL NO.	~ .	
LOC & ELEV		
SIGNATURE		
SURFACE INSP.	gh	
DRILL CARD	<del></del>	
RECORD'S COMPLETE	<u> </u>	FINAL LETTER OK
·		MATIED
INJECTION BOOK REMARKS: * COORDINATION BOOK R	ES NOT COLUMNIACE	RELEASED BOND
IDLE WELL LIST WITH MAP GRID.		
SURFACE INSP. CARD		
OK TO RELEASE FROM CONFIDENTIAL		
ABANDONED-REMOVED FROM E.D.P.		· · · · · · · · · · · · · · · · · · ·
·		

#### **Report on Operations**

Cheryl S. Grayson GRAYSON SERVICES, INC.		<u>Ventura</u> , California <u>July</u> 8, 1997
4004 S. Enos Lane Bakersfield, CA 93312		July 8, 1997
Your operations at well	Texaco, Inc. "Eadie" 1 , API No	o
were witnessed on $6-10-97$ the supervisor, was present from	Bob Gravson, Jr.	, representative of There were also present
Present condition of well: 11 3/530'-400' & 200'-5'.	4" cem 500'. TD 8011'. Plugged w	// cem 850'-766',
The operations were performed fo	r the purpose of re-abandonment.	
DECISION:		
The plugging operations as witne	ssed and reported are approved.	
tkc		

Patrick J. Kinnear Deputy Supervisor

Gas Supervisor

William F./Guerard, Jr. State Oil and Gas Super

By.

OG109 (Modified 1993)

## TIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCE

5 7 129
Texaco, Inc.

#### **CEMENTING/PLUGGING MEMO**

Operator	GRA	YSON	SERV	UCES	3, INC	•		Well No.	<u>"E</u>	idie"	1	<i>C 0</i> 5014	
API No	03	<u> </u>	6077			Count	100	Sec	<u>~/タ</u> ,!	<u>.5/\/.,</u> H.	10 - 9	54 B&M	
Held	\$7F	ZE M	CHOWE	6人/		represent	ative of the	supervisor	r. was prese	ent from /	000 to	1300 .	
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520'-	- 40	) ( )	ب ما م	OO ^-	~ '							-	
			, ,		<u> </u>							•	
The operatio	ns wer	e performe	ed for the	purpos	e of	RE 1	934NDO	NMENT					
	-					sed and re			are approve	d.			
Hole size: _													
		Casing				Cemented		Top	of Fill				
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#### SUBMIT IN DUPLICATE

#### RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

#### DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

#### HISTORY OF OIL OR GAS WELL

Newha11

Los Angeles

Operator_	Grayson	Service	inc.	_Field_		патт	County		ngeles
Well	Eadie				, Se	oc. <u>23</u> , T	<u>3N</u> , <u>R</u> 1	L6W MD	B. & M.
A.P.I. No.		077	Name	Bob			TitleV	Pres.	
Date	6/23/97	, 19		(F	Person submittin	g report)	(Pre	sident, Secretary,	or Agent)
					Signatu	re Bol	Diay	sn-	
400	)4 S. Enos	Lane Ba	kersfie	eld, (	Calif.	93312	(805)	589-54	4 4
		(Addres	s)				(	Telephone Numbe	er)
the casing used, top a	stbecompletein all , plugging, or aband and bottom of plugs (e Locatio	donment with the c , perforation deta	dates thereof. lls, sidetracke	include s d junk, ba	such items a ailing tests, a	s hole size, forma and initial produc	ation test deta tion data.	ails, amounts	or altering of cement
Dri Clea	lled with aned out m	6" bit 2' ud 12' to	to 12' 40'. F	in ce	ement,	broke th	ru ceme	ent.	
	nged out to sed well i		bit. (	Clean	out to	o 40'.			
	.H. and cl	_		•					

Mix and pump 140 cubic feet of neat cement with returns to surface.

Cut off casing @ 5' 6/10/97

Drill pipe @ 200'.

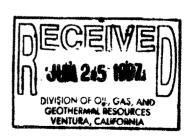
Date

6/6/97

6/9/97

Weld on steel plate and back fill.

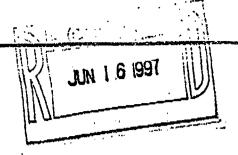
Grayson Service Inc.



### Kenyon Engineering, Inc.

ENGINEERING . PLANNING . SURVEYING ...

12138 INDUSTRIAL BLVD., SUITE 240 VICTORVILLE, CA 92392 (619) 241-6146 FAX: (619) 241-0568



June 12, 1997

BROWNING FERRIS INDUSTRIES ATTN: BRAD COOLEY 14747 San Fernando Road Sylmar, CA 91342

RE: OIL WELLS

Dear Brad:

Pursuant to our conversation here are the coordinates and elevations for the capped oil wells.

٠.	ACADIM TT	- P.E		
	OIL WELL IN NORTH CANYON	PAdua	OIL WELL AT TOP OF CUT	EADIE
	N 33534.11	<u>#</u>	N 33093.26	#
	£ 32508.41		E 29181.64	1
	EL: 1686.10		EL 2132.46	

If you should have any questions pertaining to the above please feel free to contact our office.

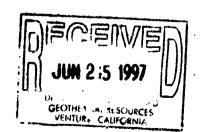
Thank you!

Sincerely,

KENYON ENGINEERING, INC.

Craig L. Johnson Project Manager

CLJ:cb



#### PERMIT TO CONDUCT WELL OPERATIONS

							(neid code)
							(area code)
							(new pool code
							(old pool code)
	. Grayson	_					
	Services, Inc. Enos Lane	<del></del>				Ventura	, California
	eld, CA. 93312	<del></del>				June 13	1997
_					Texaco Inc.	4	
A.P.I. No	plementary propos 0. 037-06077	, Se	ction 23	,T. 3N	ll <u>"Eadie"</u> ,R. <u>16</u> W	, S.B.	B.&M.,
	les Count	field,		are	6/11/97 .	has been	pool, examined in
conjunct	ion with records	filed in	this office				
THE	PROPOSAL IS APPR	OVED PROVI	DED THAT:				
1.	THIS DIVISION S						
	4. 10 #2011055	Joines. 02.19	operacaono.				
				•			
	,						
SAF:	sf						
_					/ /		
Engineer	Steven A. Field	<u> </u>			-	Gyerard, J nd Gas Sup	r. ervisor
Phone	(805) 654-4761		,		By 1	tens	
HOHE	70001 004-4101					1	
						trick J. K puty Super	

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

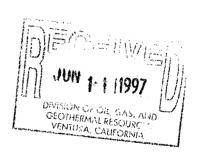
OG111 (Modified 1993)

# RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS

## **SUPPLEMENTARY NOTICE**

F	OR DIVISI	ON USE O	NLY
BOND	FOF	RMS	EDP WELL
	OGD114	OGD121	FILE
		<b>V</b>	

A notice to the Division of Oil and Ga	is datedFEI	B 28	, 19	$\frac{92}{}$ , stating the	e intention to
ABANDON well TEXACO	) INC. EA	ADIE #1		, API No. <u>037-0</u>	6077
Sec. 23 , T. 3N , R. 16W					
LOS ANGELES		County	, should be amended l	pecause of change	d conditions.
1. The complete casing record of the	well (present	hole), inclu	ding plugs and perfor	ations, is as follow	's:
11 3/4" CASING TO 500	† †				
PLUGGED WITH CEMENT 8	50'-766'	, 530'-	400', 15'-5'		
2. The total depth is: 8011	feet.		The effective dep	th is:	feet.
3. Present completion zone (s):	(Name)	Anticip	ated completion zone	(s):	ne)
4. Present zone pressure:					
We now propose: (A complete prog	gram is preferr	red and may	y be attached.)		
1. M.I.R.U.					
2. DRILL OUT SURFACE	PLUG FRO	OM 15'-	5'.		
3. PLUG WITH CEMENT	FROM 200	' TO SUI	RFACE.		
4. WELD ON STEEL PLA	TE.				



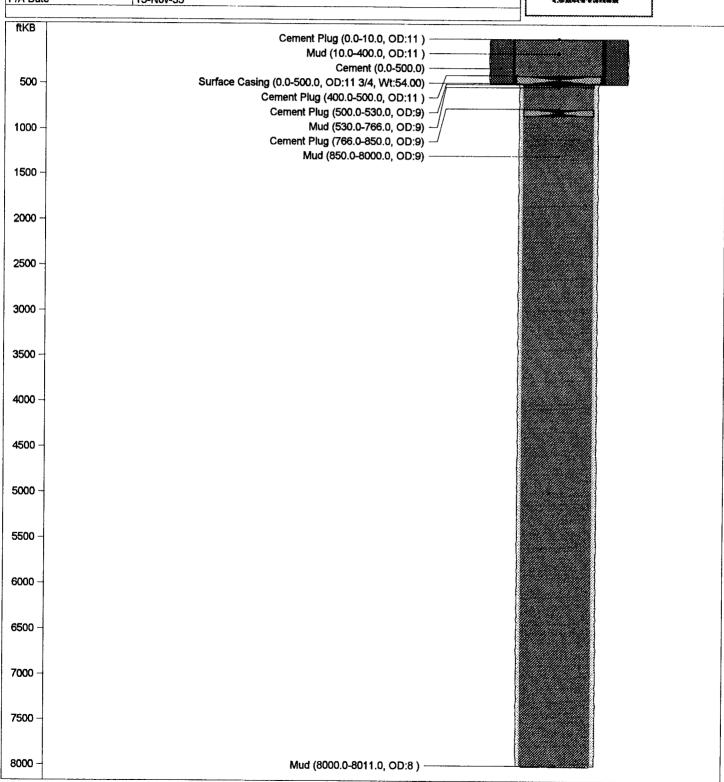
Note: if the well is to be redrilled, show proposed bottom-hole coordinates and estimated true vertical depth. The Division must be notified if changes to this plan become necessary.

Name of Operator	Telephone Number	
GRAYSON SERVICE INC.	(805) 399-6300	
Address	City	Zip Code
4004 S. ENOS LANE	BAKERSFIELD	93312
Name of Person Filing Notice	Signature	Date
BOB GRAYSON	Both Knayson	6-2-97

File In Duplicate

04037060770000		
Well Name	EADIE 1	200000
Operator	TEXACO E & P INC	
Field Name	ANY FIELD	
TD	8011.0 ftKB	
PBTD	0.0 ftKB	• • • • • • • • • • • • • • • • • • • •
Approval Date	22-Jul-53	 
Spud Date	16-Aug-53	
TD Date	13-Nov-53	
Production Date		·
Injection Date		
P/A Date	13-Nov-53	 





# RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

### REPORT OF CORRECTION OR CANCELLATION

<u>Ventura</u>, California <u>October 24, 1996</u>

PRA G	
	Industrial Parkway West_
<u>Haywa</u>	rd, CA 94545
In acc	cordance with <u>Division 3 of the Public Resources Code</u> , Section 3202 -
If ope	erations have not commenced within one year of receipt of the notice, the
notice	e will be considered canceled.
the fo	ollowing changes pertaining to your well <u>Texaco Inc. "Eadie" 1</u>
	(Well Designation)
	field, Los Angeles County,
Sec	23, T. 3N , R. 16W , S.B. B. &M., is being made in our records:
	The corrected location is
	The corrected elevation
	Demont No.
	Report No, dated, has been corrected as follows:
<u>xx</u>	Your notice to <u>abandon</u> dated <u>September 16, 1993</u>
	(Drill, abandon, etc.)
	and our report No. P293-349 issued in answer thereto, are hereby canceled
	inasmuch as the work will not be done. If you have a drilling bond on file
	covering this notice it will be returned. No request for such return is necessary.
	Other:
+1- m	

William F Guerard Jr. State Oil and Cas Supervisor

Patrick . Kinnear

Deputy Supervisor

Brand Burfield

# DEPARTMENT OF CONSERVATION OF OIL, GAS AND GEOTHERMAL RESOURCES

#### **WELL STATUS INQUIRY**

	.27	Contract Con		<u>Ventura</u> ,	Califo	ornia
		N.	A STATE OF THE STA	_ )		
	<i>;</i>	Ž,	-4 . "	September	28,	1994
Brand Burfield	$   \vec{j} $			A. C. C.		
PRA Group	!	Article Control		Š.		
2495 Industrial Parkway West		i d		j		
Hayward, CA 94545	" Marine Committee and the	N. J.		Į.		
		<b>4</b> '	Ź			
			L. L.			
In a notice dated September 16, 1	003 ron prop	ma to =	handor			
		* > 5				
well	Texaco, Inc	.   Eadie 1	, 2 <sup>2</sup>	(037-060	)77)	
Sec. 23, T. 3N, R. 16W, S.B.	в. & М.,	ੈLos Angeles	County			
	3,7,		<del> </del>			
ma			. do-			. +
Please indicate below, conditions	or incentions	regarding to	ire brobe	sed work	and re	ecuri
the completed form to this office	MICHIN TO GOM	s.	V			
svl		y karan				
871	· W	illiam F. Gue	rard Tr	. ,		
		ite Oil and Gas Superv		. /		
	No. Com			//		
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		Pa Pa	trick J. Kinne	ır		
	is I	Ä De	puty Supervise	51		
30 Paris No.	The same of the sa	el e	- · · ·			
	100 100 100	*				
		्री अ				
proposed work has been bo	NE . (If you check this	space please file the r	equired well re	cords on this wo	ork in dupl	icate
within 60 days after work was completed (*)	7	, if				
A. Carrier and A. Car	The state of the s	, and the second				
PROPOSED WORK IS IN PROGR	ESS AND SHOUL	D BE COMPLETI	ED ABOUT			19
	<u>```</u>	<i>A</i>				
PROPOSED WORK HAS NOT SEE	N DONE, BUT W	E STILL INTER	ND TO DO	THE WORK	.**	
		221 3446-3	,			
SUPPLEMENTARY NOT	CE (FOIM OG	.23) Attached	, .			
PLEASE CONSIDER TH	TO PODM AC A	CITODI.EMENTIAD	V NOTTCE			
PLEASE CONSIDER II	TO FORM AS A	BOFFHEMENIAK	1 MOTICE	•		
WE DO NOT INTEND TO DO TH	E PROPOSED WO	RK Please cancel o	our notice to			
— WE DO NOT INTERD TO DO IT	, dated		MI HOUSE TO _			
OTHER:	*					
		·	•			
N. C.						
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No.						
and the second s	· · · ·		(Signature	:)		
The state of the s						
The same of the sa	<del></del>					
		(Nome and Ti	da)	(Date	-1	

<sup>\*</sup> Division 3 of the Public Resources Code states in part: Section 3215...Well records shall be filed 60 days after completion or suspension of proposed work.

<sup>\*\*</sup> Section 3203...If operations have not commenced within one year or receipt of the notice, the notice will be considered canceled. (To prevent cancellation, file a Supplementary Notice with the division)

#### PERMIT TO CONDUCT WELL OPERATIONS

		(field code)  (area code)  (new pool code
Brand Burfield PRA GROUP 2495 Industrial Parkway West Hayward, CA. 94545		Ventura, California September 22, 1993
Your supplementary proposal to A.P.I. No. 037-06077 field, Los Angeles County, dated conjunction with records filed i	Section 23 ,T. 3N area d 9/16/93 , received	
THE PROPOSAL IS APPROVED PRO	VIDED THAT:	
cc: Texaco, Inc.  NO BOND REQUIRED	in permit No. P292-068,	, dated March 11, 1992 shall
Engineer Steven A. Fields  Phone (805) 654-4761		William F Gueraro Jr. State Ol and Gas Supervisor  By Patrick J. Kinnear Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111 (Modified 1993)

294

# DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

#### **WELL STATUS INQUIRY**

				<u>Ventura,</u>	Califor	nia
			Marie Company of Section 18 1	Septembei	c 14. 19	93
Brand Burfield PRA GROUP 2495 Industrial Parkway West Hayward, CA. 94545		and the same of th	and the same of th			
In a notice not dated, you prop	nose to reabi	ander	a de			
Texaco E&P Inc. "Edie" 1		4	3N .R. 16	W . S.B.	B.& M.	_
	(037-00077)	- 5 <u>-0</u>	<u> </u>	····/		
Los Angeles County		<del></del>	<i>J</i> *			
Please indicate below, conditithe the completed form to this off	ons or intenticion of the original of the original of the original of the original o	ons regarding	this propo	sed work	and ret	urn
	ST STATE OF THE ST	William F. G State Oil and Gas Su	uerard, Jr	•		
	Company of the Control of the Contro	Ву / (-)	Patrick J. Kinnea Deputy Superviso			
	Consolination 1					
PROPOSED WORK HAS BEE		k this space, please file t	he required well re	cords on this w	ork in duplica	ate
PROPOSED WORK IS IN F		OULD BE COMPL	ETED ABOUT		19	9
PROPOSED WORK HAS NOT	BEEN DONE, BU	T WE STILL IN	TEND TO DO	THE WORK	.**	
SUPPLEMENTARY	NOTICE (Form	OG 123) Attach	ed).			
X PLEASE CONSID	ER THIS FORM AS	S A SUPPLEMENT	ARY NOTICE	•		
WE DO NOT INTEND TO	ю THE PROPOSED	WORK . Please can	cel our notice to _			
OTHER:	, 64100					
	المادة متراريق الأركام الكاسم والعالم الكاسم	M	2). <i>[5]</i>	M	/	
	***	<b></b>	(Signatur		9/16	100
		BRAND BURFI (Name a	and Title) DIVISION	GEOLOGIST OF OIL AD	ID GAS	<u>72</u>

SEP 2 0 1975

RECEIVED

VENTURA, CALIFORNIA

- \* Division 3 of the Public Resources Code states in part:
  Section 3215...Well records shall be filed 60 days after completion or suspension of proposed work.
- \*\* Section 3203...If operations have not commenced within one year or receipt of the notice, the notice will be considered canceled. (To prevent cancellation, file a Supplementary Notice with the division)



No. GB-100/G202-07 September 17, 1993

State of California-Resources Agency Department of Conservation Division of Oil and Gas 1000 S. Hill Road, Ste. 116 Ventura, CA 93003-4458

Attention:

Mr. Steve Fields

SUBJECT:

Transmittal of Well Status Inquiry Forms for Proposed Oil Well

Abandonment at the Sunshine Canyon Sanitary Landfill, Sylmar,

California.

Dear Mr. Fields:

We have received the Well Status Inquiry forms sent to us by your office, dated September 14, 1993. It is still our intention to abandon the oil wells prior to construction of the proposed landfill expansion at the subject site. Due to unforeseen delays in the construction schedule, it has been necessary to postpone the proposed oil well abandonment program. Enclosed with this letter are the completed well status inquiry forms for the proposed oil well abandonment at the subject site. We will notify you as soon as a tentative schedule for well abandonment is set up.

Thank you for your consideration. If you have any questions, please contact this office.

Very truly yours,

THE PRA GROUP, INC.

Brand W. Burtield

Staff Geologist

DIVISION OF OIL AND GAS

SEP 20 65

VENTURA, CALIFORNIA

bwb/G20207.1

**Principal** 

Kving D. Afféldt

enclosures:

Well Status Inquiry forms (10 total)

#### RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS

No.P292-068

Field Code \_\_\_

Area Code \_\_\_

New Pool Code \_\_\_

Old Pool Code \_\_\_

### PERMIT TO CONDUCT WELL OPERATIONS

PRA	GROU	P, CO	NSUL	. EN	GIN	EERS
		<u>ıstri</u>				
		Cali				

Ventura California March 11, 1992

Your supplementary proposal to abandon well TEPI/"Eadie" 1	
A.P.I. No. 037-06077 , Section 23 , T. 3N , R. 16W , S.B. B.&M	
field, area. 4 poor	1
LOS Angeles County, dated Preceived 3/6//02 has been	•
examined in conjunction with records filed in this office.	

THE PROPOSAL IS APPROVED PROVIDED THAT:

- 1. Blowout prevention equipment conforming to DOG Class I 1M requirements shall be installed and maintained in operating condition at all times.
- 2. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
- 3. This office shall be consulted before deviating from the proposed abandonment program.
- 4. THIS DIVISION SHALL BE NOTIFIED:
  - a. To witness the placing of the surface plug or to verify its location.

NOTE: Please have well surveyed by a licensed surveyor and submit results to this office.

SF:tkc

cc: Texaco E. & P. Inc.

Rngineer Steve Fields

Phone (805) 654-4761

K.P. HENDERSON, Agting Chief

Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OGIII

#### RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL AND GAS

## SUPPLEMENTARY NOTICE

FOR DIVISION USE ONLY					
BOND	FOF	EDP WELL			
	OGD114	OGD121	FILE		
		V			

		<u> </u>	
A notice to the Division of Oil and Gas dated Febr	cuary 28th	_, 19 <u>92</u>	, stating the intention to
abandon well "Eadie" #1		. API N	lo. 037-06077
(Drill, rework, abandon) (Well de	signation) LOS	Angele	
Sec. 23 , T. 3 N , R. 16 W , S.B.	_B.& M., <del>Neeb</del>	<u> </u>	Field,
Los Angeles	Oounty, should be amend	ded because	e of changed conditions
	The second secon	A	es, _
1. The complete casing record of the well (present h	nole), including plugs and pe	erforations, i	s as follows:
11-3/4" casing to 500°.		a property of the second	
Plugged with cement from 850'-766'	, 530'-400', and 15'-	-5'	
		and the second second	
	y de la companya de	<i>f</i> .	
	green and the second		
2. The total depth is: 8011 feet.	The effective	depth is:	feet.
3. Present completion zone (s):	Anticipated completion z	one (s):	
(Name)			(Name)
4. Present zone pressure: psi.	Anticipated/existing new	zone pressu	ıre: psi.
We now propose: (A complete program is preferre	d and may be attached )		
The proposed work program is attached	·	7 to 1 and 2 7 of	
proposed norm program is decident	to this permit.		V OF OR AND GAS
		ž	RECEIVED
		14	MR 0 6 1992
	j.	VENTU	ia. California
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i de la companya de l			
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The many many	ļ		
	,		
Note: If the well is to be redrilled, show proposed bo	ttom-hole coordinates and e	estimated tru	ie vertical depth.
The Division must be notified if changes to this	plan become necessary.		
Name of Operator	Telephone Number		
PRA Group	(510) 732-9890		
Address	City		Zip Code
2495 Industrial Parkway West	Hayward		94 54 5

File In Duplicate

Signature

Name of Person Filing Notice

# DIVISION OF OIL AND GAS

HAR 0 6 1992

No. GB-100/G102-23 February 28, 1992

VENTURA, CAUFORNIA

#### **Proposed Work Program**

- 1. Locate oil wells.
- 2. Drill out existing surface seal and drilling mud from each oil well casing to a depth of approximately 60 feet below existing grade.
- 3. Reabandon each oil well by installing a new surface seal of tremied cement grout into the upper 60 feet of each oil well casing.



## DIVISION OF OIL AND GAS

MAR 0 6 1992

#### VENTURA, CALIFORNIA

No. GB-100/G102-23 February 28, 1992

Department Of Conservation Division Of Oil And Gas 1000 S. Hill Road, Suite 116 Ventura, CA 93003-4468

Attention:

Mr. Steve Fields

SUBJECT:

Confirmation of Telephone Conversation Regarding Abandonment of Oil Wells at the Proposed Sunshine Canyon Sanitary Landfill

County Extension, Los Angeles County, California.

Dear Mr. Fields:

With regards to our telephone conversation of February 7, 1992, I would like to confirm in writing our discussion regarding the procedure to be followed during oil well abandonment. Construction is scheduled to begin at the landfill extension site very soon and it is important to us that our oil well abandonment program run as smoothly as possible.

It is our understanding that the current standards for the abandonment of oil wells approved by the Division of Oil and Gas (DOG) state that the well must have neat cement grout seals across the producing interval, the saltwater/freshwater interface (if applicable), and at the surface. During our phone conversation, we also discussed the available DOG abandonment records and concluded that six of the eight wells at the subject site (Newhall Field, well nos. 53, 54, 55, 56, 57 and 61) were abandoned to current DOG standards. The abandonment records for the other two wells (Newhall Field, well nos. 59 and 63) are incomplete.

It is proposed to replace the existing surface seals in all of the oil wells with new seals deep enough not to be undercut by the proposed earthwork. In our conversation, I confirmed that it would be acceptable to the DOG if the well casing was drilled out to a depth of 60 feet below grade and a new neat cement surface seal was installed. It is our understanding that it will not be necessary for DOG personnel to perform leak testing since our plan is to replace the surface seals.

Enclosed with this letter are permit applications for the proposed work at the subject site. Thank you for your prompt consideration. If you have any questions, please contact this office.

Very truly yours,

THE PRA GROUP, INC.

Brand Burfield Staff Geologist

Irving D Affeldt, CEG 1108 Principal

bwb/G10223.DOG

enclosures: Permit applications for oil well abandonment

# STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS

### REPORT OF WELL ABANDONMENT

	-los Angales 15	, California, January 27	, 19 <u>5</u> 4
Mr 3 L Jackson The Texas Co P C Box 320 Long Beach 1 C	alifornie		<del>)</del>
Dear Sir			
Your report of	abandonment of Well No.	"Radie" 1	
		M., Newhell	
		ed December 16, 1953	
	unction with records filed in		·
	reports and records shows the formation filed with it, has	nat the requirements of this Div	ision, which
	Mary Prince	OK CARD: SONO 116	C3 #* 109 @3
oc Mr H D Bush Company	_	OK CARD SONO 116  Washing D. Bush	J.

68

By M. Mallery Debits Supervision

State Oil and Gas Supervisor

82601 7-53 6700 SPO

orig Mr R F Cory

Conservation Committee

#### SUBMIT LOG IN DUPLICATE FILL THIS .ANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PAPER ONLY

DIVISION OF OIL AND GAS RECEIVE

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

JAN 7 1954

### DIVISION OF OIL AND GAS

LOS ANCRES. CALIFORNIA

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	mb a	Maria a		LL SUMM	ARY REPO			A.	
Operator	Tite	Texas Cor	npany		Field	Weldon (	Canyon)	Marketin.	i di
Well No	Eadi	e #1		Sad	E. 23 T.	3.M	7 6187	C 13	
Location	2/125.28	! S alons	7 002		Elevation above	sea level,	R. 2137.	<u>j</u> , <u>S.B.</u>	_В. & М.
1482.21	. Watr	t. angles	to sai	d line	Elevation above All depth measu which is	rements taken	from top o	Kelly B	ushing
									ve ground.
record of	the present co	ndition of the	well and all v	vork done there	which is BB&M ites of 1939, the i	nformation of be determined	frencherewith	is a complete a	nd correct
Date_D	ecember	16, 1953				gned	Tetto	mable records.	
	Engineer or Geolog		R. T.	. Patter.					
				(Superintendent)			uperint.	.:1 c	
Comme	nced drilling	8-16-5	3	Complet	ed drilling	772 12	(410	sident, Secretary or	<u>-</u>
Total de	epth 8011	t Di	1 1 1	O	ed drilling	<u></u>	D	rilling tools R	a <b>ss</b> otary
Tunk	P	Plugg	ged depth		GE	OLOGICAL MA	ARKERS		PTH
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Commer	iced producing	Abanc	loned (date)		Flowing/gas lift	/pumping			
	:		Clean Oil		(Cross out unnecess	ary words)			
			bbl, per day	Gravity Clean O	Per Cent Water including emulsion	Gas Mcf. per d	day	Tubing Pressure	Casing Pressure
	Initial p	roduction							
p	roduction after								
_	- ou de ctort at cet	Ju days				·			
ize of Casino	1	r i		ASING RECORD	(Present Hole)				
ize of Casing '(A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Scamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks	Depth of Cementin
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ize of Casing	From	To		Perfor					
		-	5126	of Perforations	Number of Rows	Distance Between Cent	ers	Method of Perfo	rations
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	ectrical Log De	,,	00' to 8			·			

#### SUBMIT IN DUPLICATE STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS RECEIVES

#### DIVISION OF OIL AND GAS

JAN 7 1954

History of Oil or Gas Well

LOS ANGELES, CALIFORNIA

OPERATOR	The Texas	Company	Firin	( Woldo	n Canyon	Marchaelle
Well No	Endie #1		Sec. 23	т 311	- 1 <b>6</b> 11	, <u>\$ *В «</u> В. & М.
				' (	X-El,	,
			Sign	$_{ m ed}$	Setton	
			~~ <b>~</b>			
DateDec	omber 16,	1953		Title	Superinter	ıd <b>e</b> nt
		요하면 이 폭발하다 보이다다.	보이 되게 하하다는 그들은 날씨	<b>-</b> - <b>-</b> - <b>-</b>		sident Secretary or A

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of coment used in the plugging, number of sacks or number of feet of cement drilled.

out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing. Date

#### 1953 DRILLING CONTRACTOR - FOWLER DRILLING CO. 8-15 Spudded in at 11:00 P.M. in 11" hole.

- 8-17 Lost circulation at 114', regained circulation at 130'. Drilled ahead with partial circulation.
- Drilled 11" hole to 496' opened 11" hole to 172" from 0 to 267'. Lost 8=18 circulation at 175'. Mixed lost circulation material and regained circulation at 2050.
- Opened hole to  $17\frac{1}{9}$ " to 496' and drilled to 500'. Ran 12 joints,  $11\frac{1}{9}$ ", 54#, casing, 503' overall including Baker Float shoe. Cemented at 8-19 500 K.B. with 450 sacks Construction cament mixed with 3% gel. Used 1 top rubber plug. Displaced with 322 cu. ft. of mud. Did not bump plug. No cement return to surface. Cement in place at 11:15 P.M. B. J. Equipment.
- 8-20 Cement set 2 hours. Ran 200 feet of 2" pipe on outside of the casing to top of cement. Pumped in 80 sacks cement. Set 2 hours then pumped in 70 sacks. Got cement returns to surface. In place 4:30 A.M.
- 8=22 Installed blowout prevention equipment and tested at 1500 psi. Drilled 9-7/8" hole shead. Mud weight, 73; viscosity, 43; send, 2%; weter loss, 9 cc.
- Drilled 9-7/8" hole to 1446'. Cored with  $8\frac{1}{2}$ " core barrel from 1446 to 1462'. Recovered 3'. Drilled  $8\frac{1}{2}$ " hole to 1568'. 8-25
- Opened  $8\frac{1}{2}$ " hole to 9-7/8" from 1446: to 1568: and drilled to 1900:. 8-26
- Circulated and conditioned mud for electric log. Drilled 9-7/8" hole 8-27 ahead to 2075 ..
- Cored 81" hole from 2075' to 2166'. Mud weight, 76; viscosity, 48; 8-29 sand, 1.5%; water loss 4.5 cc.
- Drilled 81" hole to 2435', cored 81" hole from 2435' to 2455' then 9-1 drilled 81" hole shead to 2601; .

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### . OB SMIRETRE RELEASY - MOTORNERS CO ONLURING

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Trakailed blosons provouchen outgement and sected of 1500 pet. Dulling 9-7/5" bels anest ind molgas, 75; crasosiby, kty send, 25; weter loss, 9 co.

Drillad Pel/3" hole to light . Caret with 88° nors harred from this to the factors of the solution of the factors of the facto

Opened Of bile to 9.7/3" from this: to 1558's and delited to 1999's

Cironiased and suddistioned and for electric logs orilled 9-7/8 bold absence to 20755.

Cored 64° bole from 2072' to 2166'. Was weight, 76; viscosity 68;

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### JAN 7 1954

(Weldon Canyon)

COS AMEELES, CALIFORNIA

Section 23, 7302-Ride

- $9^{\circ}$ 2 Opened 85" hale to  $9^{\circ}7/8^{\circ}$  from 2075' to 2298'. Ren electric log.
- 9-4: Drilled 9-7/8" hals to 2806' changed to 8%" Reed core barrel and ecres
- 9-5 Non clastric log and hole callpor. Mud welfat, 77; viscosity, 45; sand, 3° mator loss b et.
  Non APT fl. Set packer et 2315; tail to 2602). Define blow for l
  hour. Sen in 15 minutes. Secovered 310; of gazay thin mud. Selinaty
  2020 mgs. U. 1.F.P. 200 psi B.H.S.P. 200 psi.
- 3. Observe to the set 9.7/0° from 2006; to 2007; the little to 3005;
- 9-7 New Fiechtic log and hole cellpop.

  That N.F.T. #2, set cooker 2955; tell to 3005, dpen % concess medical blow declined shoulding. Gas in 25 nimutes. "secreted 1,50° of passy middly waker. Selimity 1110 apg. D.H.P.P. 200 yet D.H.B.P. 180 yet.
- 9-3 Opened 65" bole to 9-7/8" from 2950; to 3005;.
- 9-li Drillel 9-7/0" bole to 3490; changed to 85" Reed corcheed and cored 2001 3490; to 3523; changed to 9-7/5" bit and drilled aboad.
- 9-12 Mud weight, 79; viscosity, 43; send, 3%; water loss, 6 ec.
- 9--15 Drilled 9--7/6" hold to 38567 changed to 65" coretarnol and cored to  $3673^\circ$  changed to 9--7/6" bit and drilled cheed.
- 9-19 End weight, 81; viscosity, 45; send, 3%; water lose, 6.6 oc.
- 9-22 Coros 9-7/8" hale from 4643, to 4653.
- 9-26 Mud weight, 81; viscosity, 48; sand, 4%; water loss, 7 oc.
- 9-27 Reamed from 5286' bo 5316'.
- 9-30 Drilled to 5526' and cared 9-7/8" halo from 5526' to 55///.
- 10-3 Mud weight, St; viscosity, UB; send, UX; water loss 6 ec.
- 20-4 Drilled to 60541, cored from 60541 to 60731 in 9-7/8" hole.
- 10-10 Drilled 9-7/8" hole to 6508:. Cored from 6508: to 6514: in 9-7/8" hole. Mud woight, 82; viscosity, 45; sand, 4%; water lass, 6 cc.
- 30-13 Prilled to  $6660^\circ$ , cored  $9-7/8^\circ$  halo from  $6660^\circ$  to  $6668^\circ$ , drilled abset in  $9-7/8^\circ$  halo.
- 10-17 Mud weight, 82; viecesity, 46; send, 4%; vator less, 7 cal

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Weldon Canyon

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Section 23, T3N-R16W

- 10-18 Cored from 6990' to 7000' with 9-7/8" bit. Ran Schlumberger electric log, side well sampler and dip meter.
- 10-19 Drilled 8-1/2" hole to 7042; opened hole to 9-7/8" from 7000; to 7042;
- 10-24 Mud weight, 82; viscosity, 47; sand, 2%; water loss, 6 cc. Drilled 9-7/8" hole to 7367.
- 10-28 Drilled 9-7/8" hole to 7606.
- 10-29 Cleaned out 50' cavings. Hole filling with fractured shale. Reised mud weight to 90# per ou. ft.
- 10-31 Drilled 9-7/8" hole to 7716. Tight hole from 7600 to 7500. Pulled up to 5000 to circulate and lost circulation. Ran in hole and circulated at intervals, lowered mud weight from 88 to 80 lbs per cu. ft. Regained circulation. Shale running at 7200 to 7400. Lowered water loss of the mud.
- 11-1 Reamed from 7290' to 7450'. Tried to stop shale from coming in 7430' to 7450'. Mud weight, 80; viscosity, 62; sand, 2%; water loss, 5 cc. Changed to emulsion type mud.
- 11-2 Conditioned hole, shale running. Mud weight 80#; viscosity 65 to 90 seconds, sand 2%; water loss 3.3 cc in 30 minutes.
- 11-3 Conditioned mud and hole. Shale stopped running. Rud weight 80 to 81#; viscosity 80 to 95 seconds; sand. 2%; water loss 2.0 cc in 30 minutes.
- 11-4 Drilled 9-7/8" hole ahead.
- 11-7 Drilled 9-7/3" hole to 7879. Ran Schlumberger electric log and side wall sampler. Sidewall sampler stuck at 2009. Ran socket as drill pipe and released sampler.
- 11-8 Drilled 9-7/8" hole to 7905. Cored 82 hole from 7905. to 7913. Stud weight, 80; viscosity, 115; sand, 2%; water loss, 3 cc.
- 11-9 Cored from 7913' to 7923'. Opened 82" rat hole to 9-7/8" from 7905' to 7923'.
- 11-11 Drilled 9-7/8" hole to 8000' changed to  $8\frac{1}{3}$ " corehead and cored from 8000' to 8011'.
- Ran Schlumberger electric log. Hung 4th drill pipe at 850. Pumped in 75 sacks Construction cement with 2% calcium chloride. Cement in place 11:10 A.M. Cement set 6 hours. Top of plug 766. Approved by D.O.G. Plug job #2: Hung pipe at 530. Pumped in 75 sacks cement. In place at 8:00 P.M.
- Located top of plug #2 at 400. Placed 10 lineal feet of cement in 113 casing at surface and welded on steel plate. Rig released at 9:00 A.M. Well abandoned.

Pirk Kirri

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### INCLINATIONS

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화되는 집, 그리고 그릇을 하려면 하면 하셨다.			
고, 얼룩하면 하면 중요한 하지 않아요? 이라는			
한다는 소설을 하고 있다는 그는 것이 없다고 있다.			
그는 하시를 모든 사람들이 말이는 하는 것이다.			
등 하면 하다가 보냈다. 중에는 사이를 잃어 걸었다.			
로마 본 이 말을 관련 이 물론을 하고 있는?			
이번 이번 : 이번 이번 하는 아이트를 살고 했다.			
방이 내고, 사기가 많은 채 골략 현기 다			
	아이라 유수있는 이 기계를 하는 것이 되었다. 사용하다 경기가 있는 기계를 하는 것이다.		
병사 이 사는 사람들은 생활을 가게 들었다.			
하다는 사람들이 사용하는 것이 되는 것을 받았다. 그런 이 경험에 되었다. 그런 사람들이 보고 있다면 보고 있는 것이 되었다. 생각하는 것이 되었다.			
그리는 그 회사님이 사라고 그렇게 살이라고 !			
그는 사고 하는데 사람이 목록하는 일하다			
연락 인경 여명은 목사와 이번 경험을 잃었다.			
그는 사람은 사라로 많이 많아 많아 가지 하는 이렇게 되었다. "지나는 아이들 것 같아 하는 것이 되는 것 모르고 사람들이 되었다.			
		고려를 풀는 그림.	
되는 그는 이 문제를 하다고 못했다.			
하는 그는 이 네이들이는 이번째를 보였다.			
사이트 : 사람이 가는 사이를 받았다. 사이트 시아들은 사람들은 사람들은 사람들은 다른 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은			
하게 하는 경기 함께 가는 얼굴을 제상되는 것이다.			
가는 하는 것이 되는 것으로 하는 것이다. 그런 전환한 작년 경험을 받으면 되는 것으로 발표하는 것이 되는 것이다. 그는 것이 하는 것이 없는 것이다.			
그렇게 되는 경기 없다. 그는 그 가는 그 것 같아. 그 것은		얼룩 현황을 생겨되다.	
그리고 있다면 말을 하는데 보는데 사람이 있다. 사고 있는 사람들은 사람들이 가장 살아 되었다.			
경영 등 경우 수십시간 기계 기계 기계 등 경기 기계			
하다는 이 문제와 물이 되는 사람들은 기가 없었다.			
하면 송란 (프로그램) 병화 경기로 하다.			
어마는 하늘 사용하다 하고 나는 경기로 되었다.			
사람들의 강고를 가는 것을 하는 것은 것은			
는 마루바이 다른 사람들이 되었다. 그들은 모든 하는 환경을 하는 사용 통해 보다 하는 사람들이 되었다.			
존중할 때를 하셨다. 전기 등 등에 가지 않는			
용적 : () 발표 전 : () 보고 보고 보고 있다. () 보고 보고 있다.			
않아 나는 아내가 하는 다른 하는 사람이 들었다.			

The Perms Company. Senie #1 (Weldon Canyon) Saction 23-3N-16W

### SCHLUMUSACER SIDS-VALA SAMPLAS Described by W. S. King 10-23-59

Dayler	Rederery	크림(Barting) : 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
30(3)		Cand, moitled ten to light green gray, firm, frietho, Constant tie, with subrounced pebbles to l/h' diemeter, natrix is common grained, bliby, tight, paichy faint til stain, frint othe, very passby fluoroscense, faint
7.0		Jene, Aight gray to ten stained, frieble, fine grained, Info corting wite reve pubbles to 1/1°, silly, fair to Proceeding and parmachility, mobiled to all stain, Totaled yo <b>llow fluoresc</b> once, fair edon, light onlog cut.
39.61		iand, natoby light oil abon to medium gray, friable, Tind to vary <b>coarse greined, postly sort</b> ed, tight, felat those theren <b>yellow il</b> ucrescence where stained, remainds is gray, l <b>ight atraw o</b> ut.
3 <b>59</b> 56		Sind, mottled grown grey to termish gray, frishle, sppea condital, conglowerable with rounded pashles to 1/4° dismover, matrix coerse grained, very poorly sorted. silly, arkosio, uneven light ten staining, apotty yellow fluorosconce, faint odor, very pale stress out.
39 <b>1</b> 10		Serd, medi <b>um gray, be</b> dly broken and and injected, Appears conglomeratio, metrix silty and tight, no edor, at Visible stein, rare spots yellow fluoresconce.
3967*		isusous vebble with light gray coarse grained, same slong the Calls. Pobble dark gray to black, very kand, common pyritisction, micromicaceous. Cocsaional spots yedios sinorescence in same.
4026		Sand, light gray with greenish and ten epote frieble. Nadium to coarse grained, with race publics to 1/19 district and 2 1/0" statets fire grained, sling, bil stained Sand which have patchy yellow fluorescence. Faint odor, remainder of core is gray.
		Sand. congloweratio. light gray, occasional faint can specio cil stain, frieble, coarse grained with sub-rounded pebbles to 1/4" dismeter, quartzose, arkesio, astiva very poerly sexted, silty, tight, no odor, patchy dull yellow fluorescence, reak spetty stain. extremely light yellow stran out.
· 14.10 (14.10)		그것 그 하면 회장은 우리 생각하면 하는데 가지는 사람이 하는 사람들은 이 집중점점점 그 생각이 되면 된 사람들이 되는 것 때문에 된 것 같아. 하지만 말았다. 하는 것은 사람들이 되었다.

경기 사용하는 사용하는 것이 되었습니다. 경기 기계		
		하다 하는데 하는 이번 사람들이 하셨다.
물통하다 물로 가게 되다면 하다면 하는데 되어 하는데 되어 되었다.		에 가장하는 그 등을 당하실 수 있는 다음을 받는 것이다. 이 기술을 하는 것들은 기술 기술 기술을 다시고 하고 있다.
해 되는 것이 되었다. 그는 것이 되었다고 있는 것은 것이 되었다. 그런 것이 되었다. 		할 때 프로시아를 하는데 다시다.
항공 경기 이 경험을 통하게 하고 하는 것이 되었다. 이 나이 되는 것		경찰 여전 강화 승규는 경험 하는 말을
김 회원의 발문에 불안하고 한다면 그렇게 하는 말이 되었다. 하고 하는		
보인 그리 바람은 교육 기본, 학생 회에 그들인 이 밖에 되는 것 같다.		
하는 것이 되었다. 그 사람들은 사람들이 되었다. 그 사람들이 되었다. 그 사람들이 되었다. 그런 그 사람들이 되었다. 그런 사람들이 되었다. 그 사람들이 사람들이 되었다.		
일반하고 만든 그렇게 되는 그리는 그리고 만든 바꾸셨다.		
		그를 많을 이 기계를 잃어 있다. 이
어스레이 남편이 되어서 하나 모든데 이렇다는 비를 통해 살다.		
[1] - 이번 그램 - 그렇게 하시다는 다음이 물리되었다. 하나말		
가는 이번 시간에 되는 것도 보고 있다. 그는 사람들이 되는 것이 되었다는 것 같아. 전에 가는 이 통점을 함께 되었다. 그는 그들은 그는 것은 사람들이 되는 것이 되었다. 그는 사람들이 가는 것이 되었다. 것이 되었다는 것이 되었다. 것이		
[편안화물 시간을 만큼하늘 뭐 그렇게 보는 것이 되는 것 같은 것.		
병원 보이 살아왔다. 나는 생활한 보면 어느 모양이 살아갔다.		
그 사용하다 생생이 있는 것이 하는 것이 되었다. 경기에 가장 사용하는 것이 되었다. 한 일 사람들은 사용하는 것이 되었다면 하는 것이 되었다.	esta nationale de la companya de la Esta de la companya	
생기 보고하는 눈도 가입하게 하는데 말했습니다 보여 점심이를 가셨다면		
그러일 하다 이 등 하는 돈 보고 되었다면 보면 되어 있다고 말했다. 이 후		
그는 강이 이 이 이 그들은 하는 사람이 보고 있었습니다.		
기가 전통되는 아이들이 하는 그 사람들은 사람들은		
사람들은 사람들이 되는 것이 되었다. 그는 사람들에 가장 함께 하는 것이 되는 것이 되었다. 그들은 사람들이 되었다는 것이 되었다. 그렇게 함께 함께 함께 함께 함께 되었다. 그렇게 되었다. 그렇게 그렇게 하는 사람들이 되었다. 그렇게 되었다. 그 그렇게 되었다. 그 그들은 그들은 사람들이 그렇게 되었다. 그 그렇게 되었다. 그 것이 하는 것이 되었다. 그렇게 되었다. 그렇게 되었다. 그렇게		
그렇는 그 그 그에 가는 사람들에 하는 것이 되었다. 그런 그런 말이 되었다는 것이 되었다. 		
	lips like introduce	
- 등이 보는 그는 사이의 보면 하는 사람이라는 것이 되었다는 이 경기 등에 가능을 받았다. 		
. 하는 하는 이 그는 어떻게 되는 하는 것이 되었다. 그는 사람이 되는 것이 되는 것이 되었다. 그 그 모든 그런 사람들은 사람들이 하는 것이 되었다. 사람들이 들어 가장 그런 그렇게 되었다. 그 중에 가를 보고 있다.		
생물 그 그는 사람들이 가입니 집에 발표 나고 말을 보고 있다. 내려 버렸다		
불어 지하는 사람이 하나라는 이 아이들을 하다는 그들이 없다.		
못 돌아왔다. 그는 이번 것을 하는 것이다. 하는 중 다음에 들어 힘들어 보다 하는		선지 경험 시험은 기가 있는 다.
		그리고 시작들을 보았다면 보다
많아 아들까게 하다 하게 하고 남은 경상에는 그 항상하는 이 위에 다른 날아야.		

(Roldon Carryge)

Section 23-35-167

#### SCHLUBBIGGER STON-VALL CAMPARS Described by G. V. Boason 12-8-53

Capth		는 사용 할수 있다면 하는 것이 사용을 받아 있다는 것이 되었다. 그는 것은 사용을 보고 있는 것이 없는 것이 되었다. 그는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 
7091		Siliy brown chai <b>t</b> with accostoned thin stringers of Fine grained <b>said.</b> Shale brown up. Ample brown up. No cil shows.
		tilly loom on a green of the constant of the c
		Greg and brown mility shale as at 72800 above. To
70,231		brown allly shale on at 7302) above and light ency mandy shale. Sand is very fine grained. Only shale to singlify micacooms, sinckensided. No oil shows.
<i>*</i>	1000 100	
7600	<b>,</b>	Groy, alight <b>iy sand <u>ahslo</u> as at 7322</b> 1 above. No oil Above.
7.00	2/2/	Grey, caudy shels as at 7500% above. One patch yellow
7687		Hari, brown-gray, sandy Minio, broken up. Few petabes yetlow finorescence.
77864		is the confidence of the second $768\%$ there is a confidence of the confidence of t
78084	<i>yu</i> *	Gray vendy spa <b>le vith o</b> ccesional process of gray, fine Eralsed Scho <del>l O</del> ccasional abreaks yellow fluorescence.
75201	Het. (.	ist.) 3/10 Hard, light and Gark gray chale. Dank gray shale is eliphbly missonous. Dioloin up.

Bullet with sample was resevered with cavings in Core #25.

마음 사람이 생각하는 사람들은 가는 사람들이 있는 것이 되었다. 그들은 사람들은 사람들은 사람들이 되었다. 		
마르크 사용 사용 전에 있는 것이 되는 것이 되었다. 그런 사용		
하는 경기에 가장 한 생각이다. 이 명을 하는 이 사람이 생활하면 생이다. 그는 그 성장에 하는 것 같아 이 생기는 것으로 모르고 있습니다. 이 사람이 되는 것으로 살아보는 것이다. 그런 그는 것 한 것 같아 많은 생활하는 일을 사용하면 생각하는 것으로 전한 것을 하는 것을 하는 것을 하는 것을 받았다. 그리는 것 같아 하는 것 같아 있다는 것이다.		
그렇게 되는 이 전혀 500 시간 사람들이 되었다. 이 경우는 그 전에 보는 이 사람들이 되는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다. 보다 이 생물은 사람들이 있는 것이 있는 것이 없는 것이 없는 것이 없는 것이 되었다. 그는 것이 없는 것이 되었다. 그는 것이 없는 것이 되었다. 그 것이 없는 것이 없는 것이 없는 것이 없다.		
골은 사람들 가게 되면 하게 되었다. 사용은 사람들은 하면 가능을 보이 만들는 것으로 가장 되었다.		
· 사람들은 그리아 아이들이 되는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은		
하는 사람들은 마음을 받는 것이 되었다. 그 사람들은 사람들이 되는 것이 되었다. 그 사람들이 되었다면 되었다. 그 사람들이 되었다면 되었다. 그 사람들이 되었다면 되었다면 되었다. 그 사람들이 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면		
요하는 이 하고 있는데 그는 그런 그는 그는 그들이 그리지 않는 그는 그런 나를 보고 이 물리가 되었다. 그는 그는 그를 받는 것을 받는 것을 받는 것이다. 그는 그는 그는 그를 보고 있는 것이다. 19 그리고 하는 그를 보고 있는 것이 없는 그는 것이 되었다. 그는 그를 보고 있는 것이다. 그를 보고 있는 것이다. 그를 보고 있는 것이다. 그는 것이다. 그는 것이다.		a constant
[설레트램 ] T		9
사고 있는 회사들은 사람의 것은 강화는 속이 사고하는 사람이 하고 있다.		· Addison
발매하다. 호면 보면 그렇게 많이 어떻게 되는 사건 연락되는 회문을 만든 이 목표		
		******
그들은 그들이 돌아 있다면 하시다면 하는 사람들은 그 사람들은 기를 모양하는 것을 들었다.		
		- Anna
그 학교는 도망 교육이 아름답은 사람들이 되었다. 등을 본러 관련을 다 가게 들어 보다는		******
		- 000
사용하는 것이 되는 것이 되는 것이 되었다. 그는 것이 되는 것이 되었다. 그는 것이 되었다. 		and and
		Section 1
맞이 많이 하셨습니요 방문이는 그를 많은 수 없이 얼마를 하는 말이 있었다. 그 생각이 하는 것으로		constant
그리고 있다는 사람들은 사람들은 사람들은 전혀 있는 이 사람들은 1000명이 생각하는 것이 되었다는 것이 되었다. 그렇게 하는 것은 사람들은 것이 사람들은 사람들은 사람들이 가는 것이 되는 것이 되었다. 그렇게 하는 모양을 가지 않는 것이 되었다.		******
		200000
		200000
경기 등 기계 등 기계 기계 등 기계 등 기계 등 기계 등 기계 등 기계		***************************************
그렇게 하는 그는 그는 가는 하는 것 같은 사람들이 가는 것 같은 그리고의 그는 그는 그와 가게 들었다.		000000
등에 불통하면 하다 하는 눈이들이 눈이를 받는데 아이들이 불어 있는데 하는데 없었다. 그렇게 []		Colonia
회사 회사는 보고 하는 보고 하는 사람들이 되는 사람들이 되는 사람들이 하는 사람들이 되었다.		
성기 하는 하고 있는데 하는 사람들이 모든 물리를 하는데 모든 사람들은 모든 사람들은 모든 사람들은 것이다.		
# : [발발] : [[[[[[[[] [ [] [ [] [ [ [] [ [ [ [ [		1000
어마는 이번에 가장 아들인이 들어가는 이라는 이라는 아이를 하지만 하다는 것을 하는 것을 다쳤다.		
그러나를 하는 것이 하는 사람들이 되었다는 것이 하다는 것은 그는 그들이 되었다. 그리다 그리다		
이는 그리트의 회에서는 학자를 가는 것이 되었습니다. 그들은 그렇게 되었을까요? 그림이었다.		
있으면 하는 사람들이 하는 이 사람들은 사람들에 가야 중심하다는 그는 남편 학생들이 했다.		
[1] 20 1 House 18 1 1 1 1 전 18 1 1 1 1 1 1 1 1 1 1 1 1		
근통하고 있는 대통령은 시간 하는 항상 중심장 환경 전투 등록 한 전환 경험을 받아 들어 있는 것이다.		
[발발] 그는 이 그들이 그는 것으로 되었다. 그리고 가장 소리를 보고 있는 것으로 가장 보고 있다. 그는 사람들이 그들은 사람들은 것을 보고 있는 것을 수 있다. 그는 것을 보고 있다.		
- 스탠드 - 10 - 12 - 12 - 12 - 12 - 12 - 13 - 13 - 13		-
12 10년 10 10년 12년 12년 12년 12년 12일 12년		
당으로 [10] 이 일본 다른 사이라는 이 마음이 되었다. 이 생각을 들어올라면 하는 것은 것		
얼굴일일 경험성 나는 전환 교회에 가는 사람들이 가득하는 것 같습니다.		j
사용 경기 등 경기를 보고 있다. 그는 그리고 있는 것이라고 있는 것이라고 있는 것이라고 있다. 사용 경기 등 경기를 보고 있는 것이라고 있는 것이라고 있는 것이라고 있는 것이라고 있다.		
맞을 살아보다 이번 살은 사람들은 이 없다. 그는 말에 들어 하는 사람들이 나는 살아 다		
#		
성사, 뭐하는 것 같은 사람이 되었습니다. 그는 사람들은 그는 가장 보고 있는 것이 되었다.		
지수는 하는 사람들은 가는 이 나가 있는 사람들은 살을 때마는 그는 것이 되었다. 나는 사람들은 사람들은 사람들은 사람들이 되었다.		
아일 5명 - 얼마, 그리스 등로 15. 2명 및 함께 모아되어 된다. 그는 말이 얼마나 되어 있다.		

Miller

The Texas Company

Kadio #1.

Weldon Canyon

Section 23-3N-16W

# CORE DESCRIPTION Described by L. B. Freeman 8~25-53

Gore #1 1446-1462: Rec. 3:

- Oil stained sandstone, fine to madium grained, coarse, material scattered throughout, rounded to subsequier, ecknosic, poor 
  to fair scating, disty, very ellty, bight 
  to poor porosity and permeability, massive 
  to poorly bedded, 35° dips; sharp gassy eder, 
  weak straw cut at top of recovery to very 
  faint out at base -- core looks slightly 
  more permeable at top than at bottom, fair 
  but even staining, wook pale yellow fluorescence,
- b Interbedded derk gray, sandy silkstope and tight oil stained asnd so above in I = 15° interbeds, good 30-35° dips.

Core #2 2075-2093' Res. 14:

- Described by R. M. Grivetti
  So Very fine grained silty oil sand lo
  fraible then 20 hard then 50 Triable,
  mediem brown oil stained. Locally clayey,
  tight to low porcesity and permeability,
  messive to vaguely bedded with 15-55
  dips strong gasoline oder, even
  staining and gravity oil fluorescence.
  Dark brown out.
- 3' Shels well bedded, silby to sendy with lamines of cil saturated very fine sand, near center of interval is tight pubble conglemorate. Dips 55-57° on shale partings.
- J' Very fine grained silty oil sand a firm to firm friable, fairly well bedded (dips 56°). Hedium brown, well saturated, strong gasoline eder, even bright yellow (hi gravity oil) fluorescence. Grains angular. Low perosity and permeability to tight. Dark brown cuts mostly ground up in removing from core barrel as core stuck (Core washed over with water during removal).

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Weldon Canyon

Section 23-3N-16W

Core #3 2093-2113: Rec. 5:

Described by I. B. Freeman
Interbedded oil stained sand and gray siltstone;
sand is light tan, fine grained silty, quartzose,
finely missecous, fair sorting, tight due to
silty character, one 4" bed of coarse grained
oil stained send, but still silty and tight,
good sharp high gravity oil odor, good even
staining, yellow fluorescence, fair straw cut,
cas bubbles in mud sheath; interbedded shales
are dark gray, finely micaceous, locally sandy,
no shows in siltstone; excellent 60° dips,
upper 3' is about 40% siltstone and 60% sand.

- 2' Siltatone, fragments of massive siltatone, dark medium gray, finaly micaceous, occasionally sandy, no shows except for some free oil along fracture planes and gas bubbles in mud sheath.
- Core #4 2112-31 Rec. 18: 18:

Siltatons, bended dark gray and brown, predominantly well and thinly bodded, almost a "poker-chip" parting, firm, generally candy throughout with very fine grained quartistic sand; siltatons is interbedded with very thin beds (1/8"-1") of very fine grained tan, quartistic oil stained sand, allty, tight, estimate total of 2½ of oil stained sand in recovery. All having good cdor, fair straw cut, even scaining and even yellow fluorescense; siltatons has free oil along rare fracture plane, excellent 30" dips.

Core #5 2131-2150\*

No Recovery

Core #6 2150-2166

Rec. 20' 20'

(h' pickup from core #5 (?))
Siltstone, medium gray to brown banded, firm,
well and tainly bedded, gritty throughout but
very impermeable, rare thin interbed to #"
of very fine grained light gray to tan, silty,
tight quertaitic sand, occasionally a thin
streak of sand is faintly oil stained having
a faint odor and no cut; excellent 80-90°
dips (not overturned).

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Weldon Canyon

Section 23-3N-16W

Core i

Roc. 167

Described by L. B. Freeman 637 .

Fragments of medium gray, tight, sandy siltatione, no shows, and fine grained, silty, dirty, tight, quartzitose, ten oil stained sand, good odor, out and fluorescence.

 $15^{1}_{0}$ ' Siltstone, banded medium gray and brown in  $\frac{1}{2}$ " bods, well bedded, brown siltstone is finely sandy and very foreminiferal; several 1/16" laminae of very fine grained, very tight, pilty, oil stained sand, faint odor, faint out, good fluorescence, excellent 75° dies.

Coro #6 ZU05~28161 Rec. 91

01 Silbstone, banded and interbedded dark medium gray and dark brown, excellent 45° dips, firm, breaks easily along bedding planes, local slickensides along bedding planes, occasionally siltatona is finely sendy, abundant forams especially in brown beds, occasional broken shell fragment and fish remain; siltstone is interbedded with thin stringers of oil stained sand generally &" thick but as thick as 2", Tine grained, well sorted, angular to subangular, firm, micaceous, fairly clean, poor permeability, fair friability, sharp high gravity oil odor, good tan staining, strong dark brown cut, even yellow fluorescence, abundant gas bubbles in mud sheath, estimate total of 1: oil stained sand in core.

Core #9 2816-28311

Rec. 71

78

Interbedded siltstone and oil stained sand; siltstone is banded gray and brown as In Core #8, excellent 45° dips; oil stained sand is fine to medium grained, subangular, slightly silty, fair permeability, predominantly quartz with some feldspar and biotite, occasional pink and rust colored grains, occurs generally as 2" interbeds, maximum 2" beda, estimate total 4 sand in core, unevenly and weakly oil stained, medium gray to faintly ten where stained, faint sour gassy odor, weak spotty pale yellow fluorescense, weak straw cut, looks wet.

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Section 23-3N-16W

<u>Core #10</u> 2831-2851 Rec. 16, 16, Interbedded oil stained sand & snale
Shale, brown gray and light to medium gray,
banded, 1/8" to \$" thick, firm, laminated,
easily broken, silty, abundant forams.
Oil stained sand, common streaks or stringers
1/8" to \$" thick, (two atks to 1" thick), it
gry w/ silt brown cast, frisble, fine grained,
slightly silty, fair sorting, apparent fair
1 & ". Good high gravity oil odor, amber out,
dull yellow to bright yellow fluorescence.
Out (CGL) fluoresces bright milky yellow.
30 second flash, Approx 10% of core is cil
st. sand. Siltstone shells at 2833; and 2840;
are med gry, hd., & dense, calcareous. Good
37°-42° dips.

Core #11 2351-2871 Hec. 10: 10:

Interbedded oil stained sand & shale as in core No. 10. Shale, brown gray to med gray, banded, firm, silty, laminated, abun forams, occ slicked bedding surface. Send in thins streaks from paper thin to in thick, it gry w/brn cast, friable fine grained, silty; subangular grains, apparent fair to poor P & P, good high gravity odor, amber cut, med to bright yellow fluorescence, cut (CCI), fluoresces bright milky yellow. About 20% of core is oil stained sand. Good gas flash from core barrel. Excellent 37° dips.

Core #12 2071-2001 Rec. 10' 10'

Interbedded oil steined sand & shale as in core last above. Thale, as above, firm to hard, occ broken & slightly elicked Sand, as above, in streaks & very thin to }" thick partings. Good oder, amber cut, med yellow fluorescence, cut fluoresces milky yellow. No barrel flash. Approx 20% is oil steined sand. Excellent 40-41° dips.

Core #13 295012955 Rec. 2½° ½° Described by W. S. King
Oil Stained Sand as in cores above, med gray
with light tan cast, friable fair bedding,
fine grained, silty, fair scrting, fair P & P,
micromicaceous, common fragments & disseminated
carbonaceous material. Good odor, dk brown
cut, med yellow fluorescence, CCL, cut
fluoresces med yellow w/ faint green east.

The Texas Company Weldon Canyon Eadio #1 Section 23,-3W-16W Core #13 cont d Interbedded skele end oil stained gand, as in cores above, w/common streaks carbonsceous material. Approx. 20% oil std. sd. Oil atd sand, med gry, w/lt tan case, hard med-crae grained, conglomeratic, silty, very poorly sorted. Pebbles to !" inch diam are subrounded. Poor P&P. Good odor dark brown COL cut. Med yellow fluorescence, which shows few brighter patches. Out fluorosces med yollow w/faint green cost. good 51° dips. Core #14 **29**55-2975 1.48 Rec let Conglomeritic oil stained sand. fair staining, triable but w/hard streeks, med crse grained, silty, v poorly sorted, subrounded pebbles ranging to in diam, fair to poor P&P. Priable sand appears to have better P&P than hd sd. Fossil shell frags noted. Good odor, amber cut, bright yellow fluorescence, cut fluoresces bright yellow w/ slight green cast. One 2" piece siltstone, brown gry, vy hd, well bedded, locally sandy, common forams, slicked on one surface. Core #15 nec. 128 121 011 Sand, it bra gry, friable to loose, mad cree grained, poorly sorted, siliy, locally gradding to peobly coarse sand, rare streaks dark gry siltatone 1/8" to \$5" thick. Pebbles are subradd, range to 12 diam. Entire core shows easy flat parting. Fair to poor P&P Good odor, dk brown cut, dull yellow to bright yellow fluor, cut fluoresces bright

Core #16

yellow, Locally fluorescence is uneven but no gray patches. Possibly wet. Fair dips 45°

Conclomeritic Oil Sand - tan gray, loose to easily friable, poorly sorted, med to coarse sand studded with grits and pubbles to 2" in diameter. Recovered one fragment metamorphic boulder over 4" in diameter. Sand has fair to excellent P&P in few firm pieces recovered. (Core blew out of barrel when pumped out and is mostly loose sand and gravel). Pebbles are well rounded and polished - mostly metamorphic types but w/ some partially decomposed granites. Strong gasoline odor, weak but even fluores-

Described by R. H. Grivetti

cence, good derk brown CCLL cuts.

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Weldon Canyon

Section 23-3N-16W

<u>Core #17</u> 3490-3505 R

Rec. 15° 3%

Described by L.B. Freeman 9-11-53

Oil Stained Saud - light ten to medium gray. Time grained w/ local scattered coarse grits and rare rounded petbles arkoslo. finely missceous, fair sorting. silty. low p & p. fair frisbillty, occ. thininterbeds to 2" of dark gray-brown foreminiferal siltstone. excellent 53" dips. week spotty staining, very faint petroleum oder with strong bracksish water oder, pale straw cut where weakly stained to dark brown cut, weak spotty pale yellow fluorescence looks tight & wet.

- 1° Oil stained Sandstone lithology as above but w/ more coarse grained material and fairly well comented, firm to hard, massive, shows as above, looks tight & met.
- Interbedded Oil Stained Sand & Siltatone.

  AS IN TOP 3', ad & sitath in alternating
  to interbeds, good 55-60° dips, shows
  as above.
- 5. Oil Stained Sand, light ten to light med gray, mad grained w/much fine material and some scattered coarse angular grits, poor to very poor sorting, firm to hard, massive, arkosic, angular to subangular, some silt, tight, shows as in top 32 with weaker staining.
- 5' Interbedded siltstone & Oil stained gand as in top 3g' top 2' of this recovery has 70-90° contorted dips; bottom 3' has good 60° dips.

estimated total  $8^{o+}$  oil stained sand in core.

Weldon Can**yon** 

Section 23-3N-16W

Gore #18 3505=3524

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Rec. 90

Oil Stained Sand, med to orse. grained top b" grading downward into fine grained, massive, arkosic, subangular grains, hard at top where well cemented to firm at bottom, silty throughout, tight at top to low P & P on bottom, fairly friability, light tan where stained to med gray, vy faint pet odor, weak uneven staining, pale straw cut, week pale yellow patchy fluorescence, looks & smells wet, rare \frac{1}{2}" silt streaks.

- Interbedded gray brown foreminiferel siltstone and tight fine Grained oil stained sand, lith and shows as in top 3' (\* to \* interbeds)
- Oil Stained Send, conglomeratic, medium to coarse grained, locally petbly, very poorly sorted, angular to subrounded grains, tight firm at top to hard in bottom 3", massive to poorly bedded, locally silty, arkesic, finely micaceous w/coas large biotite flakes, rare 4" gray brown foraminiferal sitath beds giving good 55-60° dips; shows as in upper 3' but w/amber cuts, locks & smells wet.

Core #19 3056-3673' Nec. 12' 12'

Oil Stained Sand, medium gray to light graytan where patchily stained, predominantly
coarse grained with local grading at bottom
to medium and fine grained, occasionally
pebbly, subangular, massive to poorly bedded,
firm to soft, where soft is easily frisble,
silty, tite to low p & p, predominantly
quartz with scattered feldspar and biotite,
occasional 1/8 - 1" streak of gray-brown
gritty siltstone in top 10° of recovery,
bottom 10° has one 2" interbed of dark gray
siltstone, good 55-60° dips; very faint
petroleum odor, weak and patchy dark brown
to lite tan oil staining, bright to dull
yellow spotty fluorescense, pale straw
cut to fair dark brown cut where better
stained, looks wet.

The Texas Company Radio #1

728 es

Veldon Canyon) Section 23-3N-16W

Described by L. B. Freeman 9-22-53

Jour-53 Rec. 7 6 Siltstone, dark gray-brown, gritty with very

Time grained rounded quarts sand, finely

micacous, locally slickensided along bedding

planes, impermeable, contains laminae up to

4" of oil stained sand, predominantly arkosic,

silty, Tirm, tight, laminae are mainly fine

and subangular grained but occasionally ere

coarse grained and angular containing

acattered green mineral fragence (apatite),

good 45-50 dips. weakly oil stained, faint

odor, weak to fair strew cut, uneven yellow

19 Sandstone, light gray, medium grained, angular to subrounded, poorly sorted in rounding hard, well comented, tight, arkesic, rare fine biotite, no slows.

fluorescence, looks tight and wet.

Described by G. T. Benson 9-30-53

Silbstone. Dark brown with slight greenish
tint, soft, finely miceceous. Contains
occasional rounded pieces dark gray siltstone
to medium sand grain size. Much drilling
mud intermetxed.

Sandstone. Light gray to white. Fine grained, fairly poorly sorted, well comented, silty arkose. Grains are subrounded. Priable. Contains about 10% gray siltatione intercalated in very thin to 1/8" thick beds. Send contains considerable amount of clay. No out color. No fluorescence.

Described by L. B. Freeman ~ 10-5-53
Sand, medium gray, fine to medium grained,
aubfounded to occasionally angular, quartzose
some feldspar and occasional blotite, massive,
firm to locally soft and easily friable,
silty, and clayey with kaolinitic material,
pebbly throughout with well rounded pebbles
to 1/4" of dark gray igneous material, very
crumbly at 6065; where sand contains several
rounded medium gray siltstone pebbles to
2", no dips noted, low permesbility to
tight, no shows.

Sandatone, lithology as above, less pebbly, very well comented, hard, tight, no shows.

Care (21 5526-5544' Rec. 1'

Ž.

Core #22 5090-793

Rec. 18: 12:

Gestion 23.jw-low

g.c. //2 6505-8511: neg. /i: /i.c

Described by G. T. Bempor 10.0003

Claim. Deric provend black incompany on Tark provention.

Tark force deminated. Contains and the contains a second second

Tobact of a control of the product of the control o

Jens 425 6090-7000: Rae, 18:

Interbooked at the constant of the constant of

Core #25 No Hecovery

Described by G. T. Rondon 11-0-53 <u>Gavings</u> in drilling and. Cavings to 5° dismeter consisting of herd, gray, alightly sendy shale, and hard, brown, very well semented, line grained, calcareous cand with occasions; patches of gray, line grained cand. No old shows.

	수의 항공원 기계를 보고 있는데 보고 있는데 그를 보고 있다. 
선생님이 되었다. 그는 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들이 되었다.	[2017] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
들이 하고 한 10년 1일 등이 있는 것이라고 있습니다. 그 사람들은 사람들은 사람들이 되었다. 그는 사람들이 되었다. 196일 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 -	다른 사람은 보상 하는 사람들은 사람들이 되었다.
[생명] : [18] : [1	교회 내가 보고 하는 것으로 모르는 사람들은 장이가 되면 흙
등의 등로 경기를 받는 사람들이 되는 것이 되는 것이 되었다. 그는 바다는 것은 말을	장마의 하고싶은 장면에 얼마나의 얼마나 그리고 살았다.
물 내 로그램 시작 사고를 하다 하고를 하고 보면 살고 살아가 있다.	김양이 젖은 마이스로 살이 악하는 그는 동네는 그들만 되어 못했다.
등사람은 하다면 하는 아들이 모습니다. 그런 얼마나 맞아 하다 모양을 못	실었다는 날이 작고 회사 시간의 인트랑 경험이다. [17]
고로 하다 하는 경기를 가장 맞은 가는 그리고 있다.	싫어한 사람이 하고 하는 이 중약한 중요한 이다.
말 다들이 말았다면서 내 하를 하시겠다면 말을 통했다고 하는데 있다.	
하고 하시는 이 나는 말이 다녔다는 것은 말이 얼마를 만든 것이다.	
즐러워 되는 등학생들 말로 마실 하는 모르살 때 네트 등학생들도 된다.	맞은 보이 그 보스에 불통되는 이번째 []
하는 사람이 되는 하는 사람들이 되었다. 그들은 사람들이 함께 보고 있는 것이 되었다. - 이 경기를 하는 사람들이 되었다. 이 사람들이 가능하는 것이 되었습니다. - 이 기가 하고 있습니다. 이 사람들이 되었습니다. 이 중요를 하는 것을 하는 것이 되었다.	
2. 이 마음 그림 이 강에 들었다. 그는 사람이 나라지 않는 사람들이 되었다. 이 아이는 아이들 것을 하는 사람들이 말했습니다. 이 사람들은 이 전쟁을 하게 되었다.	그렇게 얼마나 하는데 어린 그를 내가 되는데 그렇
오늘 보고 아래에 다시한 모양되어 들어 되는데 가는 사람들은 모	
보고 보통적으로 가는 다른 사람들이 되었다. 등 전 12 시간에 가는 것이 되었다. - 12 시간에 보고 있는 것이 말로 보고 있다. 그 것이 되었다. 그런 것이 되었다.	
마스 보고 있는 것이 되었다. 그 그 그 그래요 그 사람들은 그 그를 받는 것이 되었다. 그런 그를 가는 것이 되었다. 그 가는 사람들 수 있는 것이 되었다. 그는 것이 되었다. 그 그를 보고 있는 것이 그리고 있다.	호텔 : 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
하는 물론 보고 있는 것 하다고 모바를 모든 사는 물리에 모든 것 같아. 되어 있다고 싶어 들었다는 것 같아. 하는 것 같아 보고 하다고 있다면 모든 말로 하는 소리를 걸는 것 같아. 물리를 받아 살아 있는 것 같아.	
이 이 이 집은 마음이 되었다. 본 경에 대한 수 이 나는 사용을 하라고 되었다면 수 있는데 가능한다. 한 이 이 마음이 되었다. 아이들은 이 동안에는 보고 있습니다. 등록 하는데 하는데 되었다. 그는 이 이 전에 하지 않는 사람들은 사람들이 되었다는데 하는데 함께 하는데 하는 것을 하는데,	
그 이 대통하여 동교장들이 되었다는 이 스른 동호를 한 점점점이다.	
다는 사람들이 하고 있다면 생각하다. 생각이 들어지 않는 경영에 되지 않는 사람들이 되는 것이 되었다. 그는 사람들이 하고 있는 사람들이 되는 생각을 하고 있는 것이 하는 것이 되었다. 그 사람들이 되었다.	
마이크리스(II) 사람들은 사람들이 되었다. 그 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 	
들이 모든 불편말을 사람이다고 몰라고 불리 말이 모든 생각을 받다.	
원리 2015년 원리 12일 20일 20일 12일 20일 20일 20일 20일 20일	
어린 사람이 마이트 아이들은 사람이 하고 있다면 하나를 하는 살아 있다.	
[마이트 사람 기계 전 기급 전기에게 되어난 기교 시간 기회에게 항공적 전 못하고 생물 학기 없습니다.	보통하다 그리는 그 사람들은 사람들은 사람들이 가지 않는 사람들이 되었다. 그 사람들이 가지 않는 사람들이 나를 받는 것이다.
그런 물병이 가장 그는 것이 하는 것이 없는 것이 없는 것이 되었다. 그 가는 그 가장 이렇게 되었다. 그 가장 그렇게 되었다. 그 그 그 것이 없는 것이 없는 것이 없는 것이 없다. 그 그 없는 얼마를 걸었다.	
마이 그는 데 그리고 하는 말로 보고 있는 것이 되었습니다. 보고 있는 그 시간 100mm (2000 ) 전 100mm (2000 )	

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00:0 #27 7915-7923) - Nec. 10:1 - 85: Lescribed by G. T. Benson
Shalo. Mard, dark gray-brown, pilty, massive
So poorly leminated, fractured and locally
broken up. Fracture surfaces show alickensides.
Seasured dips 70° and 83°, usually near 85°.

1.40

Process-Conglonerate. Grantric and metamorphic pattics and granties of to 2" diameter in dark craying crown chair matrix. Publics angular to subscituded. For the three news all beauties, you all beauties.

Cese #20 8000-80110 | 900, 110 Described by ". C. King
Silty engls; modime to dark gang with brown
cast, Tirm to very bord, well bedood, canded
with very thin to 1/0" thick educates redium
and dark gray. Locally very silty, decaber
portion of core broken into leage angular
fragments with slickensided acresces. Occaslogal alloked fracture auxilians (); into a
catelog. One fracture decision (); into a
cone of black crumbly gares
lossil fragments, very mare microscopius ().
Cood 79" to Oh; dips. No shows

게 되면 함께 가는 사람이 있는 그들은 사람이 사람들이 생각하게 되는 것이 되었다. 그는 것은 사람들은 사람들은 사람들이 되었다. 그는 것은 사람들은 것은 사람들이 되었다. 그는 것은 것은 사람들이 사람들은 사람들이 되었다.	
발표를 존대하는데 그런 그는 사람들이 있는 사람들이 되고 있다. 그는 사람들이 되는데 그는 사람들이 모든데 되는데 되는데 되는데 되는데 되는데 되는데 되는데 되는데 되는데 되는	Ŝ.
마음이다. 그 사용 클릭이다. 경기 가는 경기를 보는 것을 하는 것이 되었다. 그는 것이 되었다. 그리고 살 보는 것이다. 공사 회사에 있는 것이 되었다. 그런 사람들은 사용을 보고 있다. 그는 것이 되었다.	Ö
사이라면 보고 프로그램을 보고 있는데 되는데 가는데 하는데 보고 있는데 사람들이 되었다. 그런데 그런데 보고 있는데 보고 있는데 그런데 되었다. 사이가 이 사람들은 사람들은 사람들이 되었다. 나는데 하는데 되었다면 하는데 되었다면 하는데 보고 있는데 보고 있는데 하는데 보고 있는데 되었다. 그런데 되었다.	
사람이 그는 사람은 사람들은 경험을 가득하는 것이 하는 것이 되었다. 그 사람이 있는 사람들이 살아 있는 것은 그는 것이 없는 것이 없는 것이 없는 것이 없는 것이다. 그는 것이 없는 것이 없는 것	
DESEMBLE AND THE STATE OF THE PROPERTY OF THE HEAD PROPERTY OF THE PROPERTY O	
물리 사람이 사용하는 사람이 가는 것을 하는 것이 되었다. 사람들은 아이트를 하는 것을 하는 것을 하는 것을 하는 것을 가는 것을 하는 것을 하는 것을 하는 것을 하는 것을 하는 것을 하는 것을 하는 물리사람들은 사용하는 것을 하는 것을	
왕이들이 하는 말을 들었다. 그리고 하는 이번도 되는 사람들은 사람들이 가득하는 것이 하는 것이 얼마를 하는 것이다.	
요. 보통하는 경에 마르크를 살아서 하는 말에 이번에 전환하면 발표하다고 한다고 목하게 되는 것을 보고 있는 데이터를 보고 있는데 되었다. 그는 것이다. 그런 그런 것은 것을 모르는데 그를 참고하는 것이라는 그들은 그들은 이렇지는 그는 것은 것을 보고 있다면 되었습니다. 그렇게 하는데 그를 보고 있는데 되었습니다. 그는 것은 이를 하는데 그를 모르는데 그를 가지 않는데 그를 했다고 살	
는 하고 있는 바람들은 경기 기계를 되는 것이다. 그는 이 아이들은 회사하고 있는 것이라는 것을 받았다는 것으로 보는 것으로 보는 것이다. 그런데 그렇게 되는 것은 것이다는 것이 그렇게 하는 것은 것이 있는 것이 사용이라는 것을 가장 하는 것이라면 그런데 그런데 그런데 그렇게 되었다. 그런데	A Care
된 것은 그래 일은 여자 (1982년 - 1일) 전환 전한 원호는 사람들이 가장을 보고 함께 보고 있다면 하는데	
3. [11] : [12] 전투, 루이션전 (12] : [2] : [2] : [2] (12] : [2] : [2] : [2] : [2] : [2] : [2] : [2] : [2] : [2] : [2	· Contraction
는 마을 하는 것이 되었다. 그들의 전에 가입하는 것이 되었다. 그리고 있는 물건이 되었습니다. 등 등 등 등에 되었습니다. 물건 한 경쟁 이 발전 물건이 물건이 많은 것이 되었습니다. 전 점점 전에 되어 주었다. 그 목표를 보고 있는 것이 되었습니다. 그는 것이 되었습니다. 그는 것이 되었습니다. 그는 것이 되었습니다.	
진 보험님이 보고 있다면 모양이 불어보는 사람들이 살아보는 그는 사람들이 되었다. 그는 그는 그는 사람들이 되었다는 이 이 사람들이 되었다. 그는 그는	Services:
물문 하는 통한 물론 전문에 한 장말로 보는 사람들이 하는 물로 보는 사람들이 살 수 있다. 그는 그는 그를 하는 것이 되는 사람이고 되었다. 하는 것	0000000
한 통료를 하는 본 어떻게 되어 있었다. 그는 네가는 이 가족에 발하는 후도 통로 되어 되는 네 얼마나 아니라 되었다. 아니라 되었다.	600000
내 가는 것이 되는 그는 그를 가는 이 전화를 살았다고 그릇을 중요한 물을 하는데 그 없는 그는 이번 이 사람이 다양한 살았다. 이 전	******
현실하다 모양을 하는 아니는 회사에 보는데 아름이 불어보고 있다. 그렇게 되었다는 그 사람들은 사람들이 아니라 하는데 하다.	
맞는 가는 병 경투를 들는 경찰을 맞았다. 이 중요 얼마를 하는데 맞아 얼마를 하는데 그리고 그리고 있다. 그는 그는 그는 그들은	200000
이 있는 것들이 많아 있는 사람들은 사람들이 보고 있다. 그는 것이 되는 것이 없는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다. 사람들은 사람들이 있는 것이 되었다. 그는 것이 되었다.	200000
마는 마음에 가장 그렇게 되었다. 그는 사람들이 되었다. 보는 사람들이 들었다. 그는 사람들이 되었다. 그는 사람들이 되었습니다. 그는 사람들이 가장 그는 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 모르는 사람들이 되었다. 그는 사람들이 들었습니다. 그는 사람들이 나를 하는 것들이 보고 있는 것들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다.	2000000
- 레스 464 이쪽 시계를 되었다는 그 경우 동안에 가는 집에는 동안에 들었다는 다음이다는 것이다는 것이다는 것을 모임했다.	Stations
() - 소리 경쟁 () - 일에 발생으로 경제 경쟁 회장에 대한 경쟁 () - 설명 () - 설명 () - 보이는 사람이 되었다. 그는 사람이 함께 함께 함께 함께 함께 함께 함께 함께 함께 함께 - 소통하는 사람이 되었다 전쟁 () - 전쟁 (	200000
가능이 하는 사고 있어요. 그런 100명에 가는 이러 보고 있어 하는 하는 것이 없는 100명에 하는 100명에 하는 하는데 보고 있는데 하는데 보고 보고 있다. 그는 사고 있는데 보고 있다. 1945년 200명에 하는 1945년 1950년 1950년 1일 전문 전문 1950년 1	20000000
[[요마] 중요요요 프랑부터 보다는 사람이 하고 있다고 말하고 있다면 하는 사람들이 되는 것이 되는 것이 되었다. 그 사람들이 다 되었다.	0000000
물일에 불합하다는 일반 강흥하다 물에 하여 보는 사람들에게 한다. 원화에게 만난 그는 것이 그리고 그렇게 그렇게 한 번째 하다 때	00/00/00
사람들이는 아니라 이 나무 주는 아니라는 말이 그 아니는 아니라 하는데 하는데 아니라 가는데 하는데 하는데 되었다.	*******
어마니 후에 되는 그 이 집안들은 그 사람은 소리하다 하는 이 눈을 들었다. 그들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들이 되었다.	00000000
속에 먹어보는 이 통점은 그리고 하는 것이 하는 것이 하는 것이 되었다. 되었다는 사람은 살이 되었다면 하는 수 없는 것이 없는 것이 없다면 하는 것이 없다면 하는 것이 없다면 하는 것이다.	90000000
마르게 하는데 되는 사람이 하는 아마들은 이 그들은 때 불다 하는 그 날아라는 그들은 사람들에 하다. 본 시간 모든 사람이다.	O.N.OO.N.
보통 하는 회에 문문 회사인 보고하실 되었다. 그 이번 현재가 얼마를 회원이 있으면 하는 경험 전에 있다고 함께 되었다.	1000
있는 경기 사람이 있는 사람들이 가려면 되었다. 그 사람들은 그리고 하는 다른 사람들이 모르는 사람들이 되는 사람들이 되었다. 그리고 있는 사람들이 되었다. 	
지도하는 얼마를 하다 하다 하는 것은 말이 얼마를 하는데 하는데 하는데 하는데 하는데 하는데 얼마를 하는데 되었다.	
물건 생물을 보고 있는 것들이 되는 사람들을 모르는 것들이 되는 것들이 되었다. 그런 사람들은 그렇게 되었다면 사람들이 되었다. 그런 사람들은 사람들이 되었다.	
대원인 경험을 가는 입사한 경에 하는 생생님 소비를 하면 하게 하는 이 그는 이 희생님은 대학생은 말했다. 그렇게	
불통하게 불렀다. 동생인 동안은 이렇게요요 이 이번 사람이 아들들만 이용하다. 이 사이를 하고 말을 보고 말을 하는데 모음했	
[19] [18] 이 [18] 이 [18] [18] [18] [18] [18] [18] [18] [18]	
불리고 있는데, 그는 사람들은 이 그리는 아내는 소식을 하셨다면 살이 하는데, 그는데 모든데 다른데 되는데 그 그리고	
[19] - 그는 그는 나는 하는 그는 나는 사람이 되었다. 그는	
그리아 보고 하는 사람들은 그는 이 살을 가셨다는 그 중국에 그렇게 하는 사람들이 하는 사람들이 되었다. 그는 사람들이 살아 되었다.	
어느 보통한다면서 아이들은 사는 그들만만 그렇지 않는데, 아이들이 지수는 수 없었다면 하는 것은 바다 나는 것이다.	
어느 병생이 아내는데, 그들은 함께 하는데, 그는데, 그리고 하는데, 그들은 그 그를 하는데 그를 하는데 이렇게 되었다. 그 그	
공료 가장 하는 것이 하고 있는 것이 가장 하는 것들이 모든 사람들이 가장 모든 사람들이 되었다. 그런 그렇게 하게 되었다면 하는 것이 없다.	ď
등이 가장이 가는 이렇게 된 일을 하는 것이 들어 하다. 사람들은 그리고 하는 바로 하는 것이 되는 것이 되는 것이 없는데 그렇게 되었다.	
로마그리는 이 그는 그리고 하는 사람들이 들어 가는 말을 사실하는 사람들이 가는 사람들이 되었다. 그는 사람들이 가는 사람들이 되었다.	
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물론자의 물론 시간을 있었다. 전경환자는 이 그는 사람들은 학생들이 얼마나 얼마를 하는 것이 되었다. 그렇게 되었다는 것이 되었다.	
#####################################	
어릴 것 하는 것도 되었다. 다양하고 그 전에 사용을 가면 하게 하고 있다. 그렇게 가지 않는 것이 하는 것이 하는 사람들이 되었다. 그렇게 되었다. 그렇게 되었다. 그렇게 되었다. 그렇게 되었다.	

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#### STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

### DIVISION OF OIL AND GAS

### Special Report on Operations Witnessed

No. T 153-1360 Los Angeles 15 Calif. November 18 1953 Mr. R L Jackson Long Beach 1 Calif. THE TEXAS CO Agent for\_\_\_ DEAR SIR: Operations at your well No. "Badie" 1 Sec. 23 , T. 3 5 , R. 16 W , S B B. & M., Newhall Field, in Los Angeles County, were witnessed by J. V. Fogter, Inspector, representative of the supervisor, Movember 13, 1953. There was also present 3. Bullard, Drilling Foremen: M. Moneyoutt, Drilling Foremen. Casing Record 11-3/4" cem. 500'. T.D. 8011', plugged Junk None with cement 850'-766', 520'-400', and 15'-5' The operations were performed for the purpose of witnessing the plugging operations in the process of abandonment. The inspector arrived at the well at \*\*\*\* and Mr. \*\*\*\*\* reported: INSPECTOR G. J. BORKOVICH VISITED THE TELL FROM 7:50 - 8:20 P.M., NOVEHEER 12. 1953. AND MR. BALLARD REPORTED: 1. A 9-7/8" rotary hole was drilled from 500' to 8000'; an 8-1/2" rotary hole. 8000'-8011'. On November 12, 1953. 75 sacks of coment was pumped into the hole through 4-1/2" drill pipe hanging at 850°, filling to 766°. THE INSPECTOR NOTED: 1. The cement plug at the reported depth of 766' supported 7 points of the weight of 2. The driller's tally showed 766' of drill pipe in the hole. THE INSPECTOR ARRIVED AT THE WELL AT 1:30 P.M. AND MR. BALLARD REPORTED: 1. On November 13. 1953. 75 sacks of cement was pumped into the hole through 4-1/2" drill 2. The top of the cement was found at 400. 3. A bridging plug of paper sacks was placed 10° below the top of the 11-3/4" casing. 4. On November 13. 1953. 7 sacks of cement was poured into the hole. THE INSPECTOR NOTED THAT the top of the cement filled to the top of the 11-3/4" casing. which is 5' below the surface of the ground. The test was completed at 1:45 p.m. THE PLUGGING OF TRATIOES AS WITNESSED AND REPORTED ARE APPROVED. JFF:OH cc Company Orig Mr R F Cory R. D. BUSH State Oil and Gas Supervisor

T. Malling Deputy

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#### STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

### DIVISION OF OIL AND GAS

### REPORT ON PROPOSED OPERATIONS

				No. P	153-1402
	I	os Angeles 15	Calif	November	18 19 53
Mr. R L Jackson				0.1.25	and the second s
				\$7.70.00 B	
Long Beach		Calif.		A V	
Agent for THE THE	las do			When the second	
Dear Sir:					
Your	proposal to	abandon		No. "Eadie" 1	
Section 23, T. 3 , R16 ,	<u> 5 в</u> В. & М.,	Wewhall	Field,	Los Angeles	County
dated Mov. 16 19 53, received	Nov. 17 10 5	3			Gountry,
Present conditions as shown be RECORDS IN ADDITION TO. OR The base of the fresh	AT VARIANCE	WITH THOSE OF	Charles The Co	HE MOTICE : log is at 800	)† <u> </u>
THE NOTICE STATES	•				y
The present condition of	the well to .				
1. Total depth.		sa Tülfoma!			
2. Complete casing record.	•				
11-3/4", 54#, J-55 cas	ing cemented	solid at 500'.			
3. Last produced. Prospec	et well, no c	ommercial show	ings."		
PROPOSAL					
The proposed work is as fo	llows:				
L. Flace coment plug 850	to 7661. Div	ision of Oil ar	nd Gas to	) witness tan	
9. Place 10 lineal feet of and Gas to witness.	cement at s	urface in the I	$1-3/4^{n}$	nasing. Divisi	lon of Oil
t. Cap with steel plate an					
Decision					
THE PROPOSAL, COVERING WORK PPROVED.	ALKEADY COM	PLETED IN ACCOR	DANCE AI	TH PRIOR AGREE	ment. Is
RO: NA					
g Mr R F Cory			·		
c Company					

R. D. BUSH

Blanket bond.

State Oil and Gas Supervisor

By J. Malling

#### STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

### DIVISION OF OIL AND GAS

NOV 18 1953

### Notice of Intention to Abandon Well

LOS ANGELES, CALIFORNIA

This notice must be given at least five days before work is to begin; one copy only

		Calif. November	61. TO 10
DIVISION OF OIL AND GAS			
Los Angeles,	Calif.		
In compliance with S.		1	
		and 3232, Ch. 93, Stat. 1939,	notice is hereby g
that it is our intention to abandon well No.			
Sec. 23 , T. 3N , R. 16W	,S • B • B. & M	(Weldon Canyon	)F
Los Angeles	County, co	mmencing work on the	12th
of November	ər 19 53		
The present condition of the well is as follow	7s:		
1. Total depth.			
8011			
2. Complete casing record.			
113" 51# 7_55	casing cemented	143 -+ Coo.	
3 Last produced Prospect	well. no commer	cial showings	
3. Last produced. Prospect	well, no commer	cial showings	Cut
The proposed work is as follows:	Net oil	Gravity	
The proposed work is as follows:  1. Place cement plug	Net oil	Gravity	
The proposed work is as follows:  1. Place cement plug witness top. 2. Place cement plug	Nervil 850' to 766', D	Gravity  ivision of Oil an	d Gas to
The proposed work is as follows:  1. Place cement plug witness top. 2. Place cement plug 3. Place 10 lineal form	Nervil  850' to 766', D  530' to 400'.  eet of cement at	ivision of Oil an	d Gas to
The proposed work is as follows:  1. Place cement plug witness top. 2. Place cement plug	Nervil  850' to 766', D  530' to 400'.  eet of cement at  nd Gas to witness	ivision of Oil an	d Gas to
The proposed work is as follows:  1. Place cement plug witness top.  2. Place cement plug 3. Place 10 lineal for Division of Oil as 4. Cap with steel place.	Nervil  850' to 766', D  530' to 400'.  eet of cement at and Gas to witness ate and abandon.	ivision of Oil an	d Gas to
The proposed work is as follows:  1. Place cement plug witness top.  2. Place cement plug 3. Place 10 lineal for Division of Oil as 4. Cap with steel place.	Nervil  850' to 766', D  530' to 400'.  eet of cement at and Gas to witness ate and abandon.	ivision of Oil an	d Gas to
The proposed work is as follows:  1. Place cement plug witness top.  2. Place cement plug 3. Place 10 lineal for Division of Oil as 4. Cap with steel place.	Nervil  850' to 766', D  530' to 400'.  eet of cement at and Gas to witness ate and abandon.	ivision of Oil an	d Gas to
The proposed work is as follows:  1. Place cement plug witness top.  2. Place cement plug 3. Place 10 lineal for Division of Oil as 4. Cap with steel place.	Nervil  850' to 766', D  530' to 400'.  eet of cement at and Gas to witness ate and abandon.	ivision of Oil an surface in the 1	d Gas to l춫 <sup>n</sup> casing
The proposed work is as follows:  1. Place cement plug witness top.  2. Place cement plug 3. Place 10 lineal for Division of Oil as 4. Cap with steel place.	Nervil  850' to 766', D  530' to 400'.  eet of cement at and Gas to witness ate and abandon.	ivision of Oil an	d Gas to l춫 <sup>n</sup> casing
The proposed work is as follows:  1. Place cement plug witness top.  2. Place cement plug 3. Place 10 lineal for Division of Oil as 4. Cap with steel place.	Nervil  850' to 766', D  530' to 400'.  eet of cement at and Gas to witness ate and abandon.	ivision of Oil an surface in the l	d Gas to l춫 <sup>n</sup> casing

#### STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

## Special Report on Operations Witnessed

	Nt. m 153-1105
Mr R L Jackson	Los Angeles 15 No. T 153-1105
Max P O Box 320	Calif. September 16 19 53
Long Beach	The second secon
Agent for THE TEXAS CO Calif.	PROSPECT
Dear Sir:	WELL
Operations at your well No. "Eadle" 1 Sec. 23  Newhall Field in Los	~ 2 W
Newhall Field in Los	Angeles County, were witnessed by
G. J. Borkovich, Inspec	ctor, representative of the supervisor,
on September 8, 19 53 There was also present E. Ball H. R. D	ard. Drilling Forement
H. R. D	Dixon, Driller,
Casing Record 11-3/4" cem. 503°. T.D. 3035°.	lunk None
	J The same of the
The	
The operations were performed for the purpose of inspecting installation.	blowout prevention equipment and
The inspector arrived at the well at 12:45 p.m. and Mr. I	Ballard reported:
	face to 503°.
2. On August 19. 1953. 11-3/4". 54 1b. casing was  4. On August 19. 1953. 11-3/4". 54 1b. casing was  4. On August 10. 1953. 11-3/4". 54 1b. casing was	cemented at 503° with 450 sacks of coment
4. On Angust 19, 1953 750 makes	s in the state of dement,
4. On August 19. 1953. 150 sacks of cement was pum 2" pipe hanging at 200'.	med down around the 11-3/4" anding the
5. A 9-7/8" rotery hole	and the property of the post o
5. A 9-7/8" rotary hole was drilled from 503' to 3	103 <b>5¹</b> .
THE INSPECTOR NOTED THAT THE WALL TO	
THE INSPECTOR NOTED THAT THE WELL WAS EQUIPPED WITH EQUIPMENT:	THE FOLLOWING BLOWOUT PREVENTION
1. A Shaffer double cellar control gate for closing of the hole, and for closing around the 4-1/2"	
of the hole, and for closing around the 4-1/2"	g in the well with the drill pipe out
4. A Hydril blowant preventant se	errit hithe
2. A Hydril blowout preventer for closing around the 4-1/2" (3. The controls for the above equipment were located. A 2" mud fill-up line with a 2" high preserves at	he 4-1/2" drill pipe.
4. A 2" mud fill-up line with a 2" high and all the	ed outside the derrick.
the above couldment	topcock into the 11-3/4" casing below
5. A high pressure stopcock on the kelly.	<b>0</b>
•	mldle de de
The inspection was completed at 1:15 p.m.	10/15/53 Kersfer-Banger
	man of the second
THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION AR	
	RE APPROVED. Bose fresh condecions
GJB:OH	Shele Goo-2900'
dia	1 St. Brack Il sel 2900
cc The Texas Co (Attn Mr T W Bell)	No shows so fam.
yzy poutn broadway	Toucherd.
Los angeles 15	850-750 Dies Sharten Sis
0.1	570-490 C
Orig Mr R F Cory Dist Engineer	
The Texas Co	to be a first the second
Box 510 R. D. BUSH	Supervisor
Santa Paula California State Oil and Ga	5 Jupervisor
By	P. M. Walling

### END CHA HO TO SOFEIVIO

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Joseph March 1990 and 19			r i si s	eren eren. Romaniskell	j'	ç <del></del>	1	:0
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#### STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

### DIVISION OF OIL AND GAS

## REPORT ON PROPOSED OPERATIONS

				No. P	177-741
		Los Ange	les 15 Calif.	Jul.y 22	153
Mr. B L Jackson					
* A ROX DEG			į		
Long Beach	~~~~~	Calif	12)	STEEL L	a chance expl
	TEXAS CO		2	and the second s	राज्यकुष्य स्वयम्ब्रिस् <b>भ</b> िक्षा अस्तरमञ्जूष
Dear Sir:					
Your	nronosal to	42511			
Santian 23 773 W = 36	w s	V	Well	No. "********** 1	
Section 23 , T.3 N , R. 16	и, <u>э</u> В. & М.,	<u> Wewhall</u>	Field,	Los Angeles	County,
dated July 14 19 53, receiv	ed July 15 19	53, has been exar	nined in conjunct	ion with records filed i	n this office
Present conditions as shorthe NOTICE STATES	wn by the records and	d the proposal are	as follows:		
"Location of well: 242 right angles to said 11	5.28 feet Sout	h along sect	ion line and	71180 07 Fact W	
right angles to said 11. S.B.B. &M.	ne from the No:	rtheast corn	er of section	n 23. T. 3 N.	R. 16 W.
Elevation of ground about	TE COS TOTAL	10 8 X	_		
All depth messurements	taken from top	of Kally Bu	und datum.	(Topo)	
PROPOSAL	J		amme aurcii	is 12 leet above	a ground, a
"PROPOSED CASING PROGRAM					
Size of Casing	<b>X</b>		÷		
Inches A.P.I. Weight	ten about 1	FT			
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	.15.5	Type	P Bottom		ep tha
intended zone or zones c	f asmallada		ce 500		acks
re is understood that if	changes in th	is blan hecc	INO MARARA		_
before running casing."	•		www necessary	we are to noti	fy you
DECISION					
THE PROPOSAL IS APPROVED	DDATT THE MELAN				
1. A supplementary prop	Casi chail ya	Ø49 . 5 . 4		•	
<ol> <li>A supplementary prop additional casing, o specified at that ti</li> </ol>	Tillacing age	illed with t	his Division	prior to runni	ng any
specified at that ti	me.	comore litteral	. Additiona	l requirements	will be
Diowout prevention e	automont ameri	icient to mr	oveida a com	1 a h a - 2 4	
under pressure at an 3. THIS DIVISION SHALL I	y time, shall 1	e installed	and approve	d by this simin	f the well
B. THIS DIVISION SHALL I before drilling below	OF CHILICON 28	INSPECT the	installed b	lowout prevention	on. In equipmen
	4 TOOO."				adwzbact
ERMA:OĦ					
The Texas Co (Attenti	on Mr T W Bell	١			
929 South Broadway LOS ANGULUS 15		•			
rig Mr R F Cory Dist En	gi neer				
The Pexes Co	w				
Box 510	R.	D. BUSH			

R. D. BUSH

State Oil and Gas Supervisor

Musser Deputy

Santa Paula California

Blanket bond.

#### STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

### DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS

037-06077

### Notice of Intention to Drill New Well

This notice and surety bond must be filed before drilling begins

JUL 15 1053

LUS ANGLLES, CAUFORNIA

		• .	Santa P	aula	Calif. July 14 1953
DIVISION OF	OIL AND	GAS			
. In cor	npliance wit	h Section 3203, Di	vision III, Article	4, Public Res	sources Code, notice is hereby given that it is
our intention to	commence	the work of drillin	g well No.	Eadie"#1	, Sec. 23 , T. 3 N ,
					ld, Los Angeles County.
			Attach map or plat to scale	c)	
Location of Wel	: 2l125.	28 feet So			and 1482.21 feet West
					corner of section 23,
					Corner of section
			•		
			feet	Groun	d datum. (Topo)
All depth measure	ements taker	from top of	Kelly Bush Perrick Floor, Rotary Table	ing e or Kelly Bushing)	which is 12 feet above ground.
		PROPO	SED CASIN	G PROGE	RAM
SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	ТОР	воттом	CEMENTING DEPTHS
11 3/4"	47#	J <del>-</del> 55	Surface	500	500' W/500 sacks
•					: :
			.		
Intended zone or	zones of co	mpletion:	Prospect	Well	
				ide .	Non and Lord - Cons
				,	121 W34
It is unde	erstood that	if changes in this p	lan become necess	ary we are to 1	notify you before running casing.
Address P. 0	Box 5.	10		The T	exas Company _(Name of Operator)
Геlephone Number		7F	Ву		Core
	SEND ONE	COPY OF NOTICE TO	DIVISION OFFICE	IN DISTRICT W	y District Pet. Engineer

N.E. Cor. Sec. 23

T. 3 N. R. 16 W.

ESTELLE M. EADIE

EADIE #1

WELL

Eadie # 1 F.B. C.B.

DESCRIPTION

2425.28 ft. S'ly along the E. line of Sec. 23, T. 3N., R. 16 W. S.B. & M., from the N.E. cor. thereof, thence W'ly at right angles thereto 1482.21 ft.

> MINISTRY OF OUR AND SAUD JUL 2 81953

SANTA PAULA, CALIFORNIA

REVISED TO Weldon Can Ares Ventura DISTRICT



•	TEACO

APPROVED:

DATE 7-15-53

W.E.K. DR. BY

TR. BY

CH, BY SCALE: /"= 500

20-271-7197

DWG. NO.

LOCATION EADIE #1 L.A. COUNTY