### **CLOSURE REPORT**

### LOVINGTON SAN ANDRES UNIT #40 NMOCD 1RP #1228 EPI REF: 200068

UL-H (SE¼ OF THE NE¼) OF SECTION 1, T17S, R36E ~6 MILES SOUTHEAST OF LOVINGTON LEA COUNTY, NEW MEXICO LATITUDE: N 32° 51' 57.45" LONGITUDE: W 103° 18' 05.18"

### **MARCH 2007**

**PREPARED BY:** 

ENVIRONMENTAL PLUS, INC. 2100 AVENUE O EUNICE, NEW MEXICO 88231

**PREPARED FOR:** 



RP#1,223

### **Distribution List**

# Chevron USA – Lovington San Andres Unit #40

### NMOCD 1RP #1228

### EPI Ref. #200068

L					
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Lovington San Andres Unit 440 200068

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### **STANDARD OF CARE**

Site Closure Report Lovington San Andres Unit #40 NMOCD 1RP #1228 EPI Ref. #200068

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills and Releases* (August 13, 1993), the NMOCD *Unlined Surface Impoundment Closure Guidelines* (February, 1993) and Environmental Plus, Inc. (EPI) *Standard Operating Procedures and Quality Assurance/Quality Control Plan.* The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were derived using currently accepted geologic, hydro-geologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered professional with a background in engineering, environmental and/or natural sciences.

Prepared by:

Brandon Farrar Environmental Consultant

Reviewed by:

David P. Duncan Civil Engineer

5/9/07 Date

<u>5 | 09 | 07</u>

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### 1.0 **PROJECT SYNOPSIS**

### Site Specific:

- Company Name: Chevron USA, Inc.
- Facility Name: Lovington San Andres Unit #40
- Project Reference: NMOCD Ref: 1RP #1228; EPI Ref: #200068
- Company Contacts: Larry Williams
- *Site Location:* WGS84 N32° 51' 57.45"; W103° 18' 05.18"
- Legal Description: Unit Letter-H (SE¼ of the NE¼), Section 1, T17S, R36E
- General Description: Approximately 6-miles southeast of Lovington, New Mexico
- *Elevation:* 3,820-ft amsl
- Land Ownership: City of Lovington, New Mexico
- EPI Personnel: Project Consultant –Jason Stegemoller

### Release Specific:

- *Product Released:* Produced water
- Volume Released: ~20-bbls Volume Recovered: None
- *Time of Occurrence:* 12/11/05 @ 10:00AM *Time of Discovery:* 12/11/05 @ 11:30 AM
- *Release Source*: Polypropylene flow line developed a leak
- Initial Surface Area Affected: ~ 5,100-ft<sup>2</sup>

### **Remediation Specific:**

- *Final Vertical extent of contamination:* Unknown
- Depth to Ground Water: ~ 56-ft bgs
- Water wells within 1,000-ft: None
- Private domestic water sources within 200-ft: None
- Surface water bodies within 1,000-ft: None
- NMOCD Site Ranking Index: 10 points
- Remedial goals for Soil: TPH 1,000 mg/Kg; BTEX 50 mg/Kg; Benzene 10 mg/Kg; Chloride residuals may not be capable of impacting groundwater above NMWQCC groundwater standards of 250 mg/L.
- **RCRA Waste Classification:** Exempt
- Remediation Option Selected: a) Excavation and disposal of impacted soil were completed by an independent contractor; b) EPI advanced three (3) soil borings within the perimeter of the release area on 2/08/06; c) upon receipt of Soil Boring Soil Sample Laboratory Analytical Data confirming soil impacted above NMOCD remedial threshold goals were excavated, EPI backfilled the excavation with approximately 160 yds<sup>3</sup> of clean top soil; d) entire disturbed area was contoured for natural drainage; and e) area will be seeded with a blend preferred by the City of Lovington, NM.
- Disposal Facility: Unknown (excavation completed by independent contractor)
- Volume disposed: Unknown (excavation completed by independent contractor)
- Project Completion Date: March 8, 2006

### 2.0 SITE AND RELEASE INFORMATION

- 2.1 Describe the land use and pertinent geographic features within 1,000 feet of the site. Land surrounding the area is rangeland and utilized for livestock grazing as well as oilfield operations.
- 2.2 Identify and describe the source or suspected source(s) of the release. Polypropylene flow line developed a leak
- 2.3 What is the volume of the release? (if known): 20 barrels of: Produced water
- 2.4 What is the volume recovered? (if any): <u>0</u> barrels
- 2.5 When did the release occur? (if known): <u>12/11/05</u>

### 2.6 Geological Description

<u>The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and</u> <u>Ground-water Conditions in Southern Lea County, New Mexico," A. Nicholson and A.</u> <u>Clebsch, 1961</u>, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche that was encountered between 5' and 10' bgs."

### 2.7 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of sandy soil covered with short semi-arid grasses, interspersed with Honey Mesquite and forbs. Mammals represented include Orrd's and Merriam's Kangaroo Rats, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, amphibians and birds are numerous and typical of the area. A survey of Listed, Threatened or Endangered species was not conducted.

### 2.8 Area Groundwater

The unconfined groundwater aquifer at this site is projected to be  $\sim$ 56 feet (ft) bgs based on average water depth data obtained from the New Mexico State Engineers Office and United States Geological Survey data base (reference *Table 1*).

### 2.9 Area Water Wells

No water wells exist within a 1,000-foot radius of the site (reference Figure 2).

### 2.10 Area Surface Water Features

No surface water features exist within a 1,000-foot radius of the site (reference Figure 2).

### 3.0 <u>NMOCD SITE RANKING</u>

TPH

Contaminant delineation and remedial work done at this site indicate chemical parameters of the soil and physical parameters of the groundwater were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- Unlined Surface Impoundment Closure Guidelines (February, 1993)
- ◆ Pit and Below-Grade Tank Guidelines (November, 2004)

Acceptable thresholds for contaminants/constituents of concern (CoC) were determined based on the NMOCD Ranking Criteria as follows:

- Depth to Groundwater (i.e., distance from the lower most acceptable concentration to ground-water);
- Wellhead Protection Area (i.e., distance from fresh water supply wells);
- Distance to Surface Water Body (i.e., horizontal distance to all down gradient surface water bodies).

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to groundwater from the lower most contamination, the NMOCD ranking score for the site is ten (10) points with the soil remedial goals highlighted in the Site Ranking table presented below:

1. Ground Water		2. Wellhead Pro	otection Area	3. Di	stance to Surface Water
Depth to GW <50 20 points	) feet:		ı water source, or; vate domestic	<200	horizontal feet: 20 points
Depth to GW 50 t feet: <i>10 points</i>	to 99	water source:		1	1,000 horizontal feet: <i>oints</i>
Depth to GW >10 0 points	10 feet:		water source, or; vate domestic <i>0 points</i>	>1,00	00 horizontal feet: <i>0 points</i>
Site Rank (1+2+3	3) = 10 + 0 +	- 0 = 10 points			na an the second and the second and the second s
Total Site Rankir	ng Score ai	nd Acceptable R	emedial Goal Conce	ntration	
Ranking Score	ana sa	20 or >	10		0
Benzene <sup>1</sup>		l0 ppm	10 ppm		10 ppm
BTEX <sup>1</sup>		50 ppm	50 ppm		50 ppm

<sup>1</sup> A field soil vapor headspace measurement of 100 ppm can be substituted in lieu of laboratory analyses for benzene and BTEX.

1,000 ppm

100 ppm

5,000 ppm

### 4.0 EXCAVATED SOIL INFORMATION

4.1 Was soil excavated for off-site treatment or disposal? 🛛 🖾 Yes 🗌 No

Date excavated: Unknown (excavation completed by an independent contractor)

Total volume removed: Unknown (excavation completed by an independent contractor)

4.2 Indicated soil treatment type:

	Disposal
	Land Treatement
	Composting/Biopiling
$\boxtimes$	Other (Unknown)

Name and location of treatment/disposal facility:

Unknown (excavation completed by an independent contractor)

### 5.0 <u>SAMPLING INFORMATION</u>

### 5.1 Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil.

Organic Vapor Concentrations – A portion of each soil sample was inserted into a selfsealing polyethylene bag to allow volatilization of organic vapors. After the samples equilibrated to  $\sim 70^{\circ}$  F, they were analyzed for organic vapors utilizing a MiniRae® Photo-ionization Detector (PID) equipped with a 10.6 electron volt (eV) lamp and calibrated for benzene response.

Chloride Concentrations – A La Motte Chloride Test Kit (titration method) was utilized for field chloride concentration analyses.

### 5.2 Briefly describe the soil analytical sampling and handling procedures used.

Soil borings were advanced utilizing a truck-mounted auger with a hollow stem drill to collect soil samples. Soil samples were collected at 2-ft bgs, 5-ft bgs and at 5-foot intervals thereafter to TD of each respective soil boring.

Upon collection of each soil sample, a portion was immediately placed in a laboratory provided container, labeled and set on ice for transport to an independent laboratory for quantification of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and total xylenes (BTEX) and chloride concentrations.

### 5.3 Discuss sample locations and provide rationale for their locations.

On February 8, 2006 three (3) soil borings (SB-1, SB-2 and SB-3) were advanced to depths ranging from 6-ft bgs to 11-ft bgs within the perimeter of the release to delineate vertical extent of impacted soil (reference *Table 2* and *Appendix III, Soil Boring Logs*). Soil boring locations were chosen to provide the best representative examples of contaminated soil within the release area (reference *Figure 4*).

### 6.0 ANALYTICAL RESULTS

### 6.1 Describe the vertical and horizontal extent and magnitude of soil contamination.

Laboratory analyses of the soil samples collected from SB-1 thru SB-3 indicated benzene, BTEX and TPH concentrations were ND at or above laboratory MDL. Chloride concentrations ranged from 9.9 mg/Kg (SB-2 @ 10-11-feet bgs) to 127 mg/Kg (SB-1 @ 10-11-feet bgs). All soil samples were below NMOCD remedial threshold goals of 250 mg/Kg for chloride concentrations (reference *Table 2*).

6.2 Is surface soil contamination present at the site (i.e., soil in the uppermost two feet that is visibly stained, contaminated at greater than 10 ppm (PID) or hydrocarbon saturated)?

yes 🛛 no

If yes, attach a site map identifying extent(s) of surface soil contamination.

### 7.0 <u>DISCUSSION</u>

### 7.1 Discuss the risks associated with the remaining soil contamination:

Benzene, TPH, BTEX and chloride constituent concentrations were ND at or above laboratory MDL. Based on depth to groundwater (~56 ft bgs), chloride contaminants remaining in the soil may not be capable of impacting groundwater above NMWQCC groundwater standards of 250 mg/L.

### 7.2 Discuss the risks associated with the impacted groundwater:

Groundwater is not impacted.

### 7.3 Discuss other concerns not mentioned above:

Not applicable

### 8.0 <u>CONCLUSIONS AND RECOMMENDATIONS</u>

8.1 Recommendation for the site:

Site Closure Additional Groundwater Monitoring Corrective Action

8.2 Base the recommendation above on <u>Guidelines for Remediation of Leaks, Spills and</u> <u>Releases (August 13, 1993)</u>. Describe below how you applied the policy to support your recommendation. If closure is recommended, please summarize significant site investigative events and describe how site specific risk issues have been adequately addressed or minimized to acceptable low risk levels.

Excavation and disposal of impacted soil was completed by an independent contractor. On February 8, 2006 EPI advanced three (3) soil borings within the perimeter of the release area to depths ranging from 6-ft bgs to 11-ft bgs to delineate vertical extent of impacted soil. Upon receipt of Soil Boring Soil Sample Laboratory Analytical Data confirming soil impacted above NMOCD remedial threshold goals were excavated, EPI backfilled the excavation with approximately 160 yds<sup>3</sup> of clean top-soil. Entire disturbed area was contoured for natural drainage and will be seeded with a blend preferred by the City of Lovington, New Mexico.

8.3 If additional groundwater monitoring is recommended, indicate the proposed monitoring schedule and frequency. Conduct quarterly monitoring until the NMOCD responds to this report.

Not Applicable

8.4 If corrective action is recommended, provide a conceptual approach.

Not applicable

**FIGURES** 









TABLES

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## WELL INFORMATION REPORT\*

# Chevron USA - Lovington San Andres #40 - NMOCD 1RP #1228; EPI Ref: 200068

Protection         Description         Constrained         Description         Constrained         Longitude           1         0.0354         3         1.0         1.0         0.031         3.56         01         1.2         N122         3.1.36 <sup>r</sup> W103°         18.1.48 <sup>r</sup> 1         0.031         3         1.0         0.031         3.56         01         4.4         N122°         13.3.40°         N103°         18.1.48 <sup>r</sup> 1         0.031         3         1.0         1.75         3.66         01         4.4         N122°         1.9         1.003°         19.3.6 <sup>r</sup> 1         0.0305         3         1.0         N103°         18.1.48 <sup>r</sup> N103°         18.1.48 <sup>r</sup> 1         0.0305         5         0.1         1.75         3.66         01         4.4         N103°         19.1.46 <sup>r</sup> 1         0.0305         1.0         0.0305         1.0         0.1         18.2.5.90 <sup>r</sup> N103°         19.1.46 <sup>r</sup> 1         0.0305         1.0         1.75         3.66         0.1         4.4         N103°         19.1.47 <sup>r</sup> 1         0.0305         1.0 <td< th=""><th>₽af #</th><th>Wall Number</th><th>V</th><th></th><th></th><th>E</th><th></th><th></th><th>T a titd.a</th><th></th><th>Date</th><th>Surface</th><th>Depth to</th></td<>	₽af #	Wall Number	V			E			T a titd.a		Date	Surface	Depth to
L         01594         3         IEE DRILLING CO.         PRO         175         36E         01         14         N103° [81:148"         0.35-59-53           L         00331         3         J.P. (BUM) GIBBONS INC.         PRO         175         36E         01         44         N32° 517.23.99"         N103° [81:148"         0.35-59-53           L         06335         3         JACK CLAYTON         DOM         175         36E         02         44         N32° 517.23.99"         N103° [81:148"         0.345-53           L         06435         3         JACK CLAYTON         DOM         175         36E         12         N103° [81:148"         0.445-53         0.94-95	L		Diversion	OWIEI	USE .	1 wsp	kug :	sec 4 4 4	Lautude	rouginge	Measured	Elevation <sup>B</sup>	Water
		L 01584	3	LEE DRILLING CO.	PRO	17S	_	1 2	V32° 52' 3.36"	W103° 18' 42.66"	29-Sep-52	3,830	48
	2	L 02331	3		PRO	17S		44	V32° 51' 23.99"	W103° 18' 11.48"	02-Sep-53	3,810	48
	4	L 10633 S3				17S		4	N32° 51' 23.99"	W103° 18' 11.48"	10-May-01	3,810	80
L         03426         3         THE OHLOOL         PRO         175         366         02         24         N32° 517.3410"         W103° 191.371"         17.585-75           L         02367         3         HOWARD DRILLING CO.& HOLMES         PRO         175         366         12.2         N32° 517.950"         W103° 191.371"         17.585-75           L         03495 (E)         0         NCVAY DRILLING CO.& HOLMES         PRO         175         366         12.4         N32° 517.00"         W103° 191.347"         17.55.96"         11-May-05           L         0449         EXPLORE         PRO         175         366         12.4         N32° 517.00"         W103° 17.55.96"         11-May-05           L         0449         EXPLOR         PRO         175         376         06         4         N32° 517.00"         W103° 17.55.96"         11-May-05           L         0449         EXPLOR         PRO         175         376         07         11         N32° 517.00"         W103° 17.55.90"         11-May-05           L         04197         PSO         PSO <td>5</td> <td>L 02413</td> <td>3</td> <td>JACK CLAYTON</td> <td>DOM</td> <td>17S</td> <td></td> <td>44</td> <td>N32° 51' 24.10"</td> <td>W103° 19' 13.63"</td> <td>20-Nov-53</td> <td>3,830</td> <td>90</td>	5	L 02413	3	JACK CLAYTON	DOM	17S		44	N32° 51' 24.10"	W103° 19' 13.63"	20-Nov-53	3,830	90
	9	L 02426	3	THE OHIO OIL CO.	PRO	17S		44	N32° 51' 24.10"	W103° 19' 13.63"	03-Dec-53	3,830	48
L         02205         3         HOWARD DRILLING CO. & HOLMES         PRO         175         36E         12         2         N32° 51' 10.90°         W 103° 18' 11.46°         O1May-53           L         06395 (E)         0         NCVAY DRILLING CO. & HOLMES         PRO         175         37E         06         421         N 103° 17' 25.90°         19.06-68         19.06-68           L         00449 EXPLORE         3         LE DRILLING CO.         PRO         175         37E         06         421         N 33° 51' 35.90°         20-May-05         11.043° 17' 55.90°         11.043° 17' 55.90°         11.043° 17' 55.90°         11.043° 17' 55.91°         11.043° 17' 55.91°         11.043° 17' 55.91°         12.043° 17' 55.91°         10.414-59         11.043° 17' 55.91°         10.414-59         11.043° 17' 55.91°         10.414-59         11.043° 17' 55.91°         10.415°         11.56°         11.043° 17' 55.91°         10.416	7	L 03676	3	JACK CAYTON	DOM	17S		24	V32° 51' 50.31"	W103° 19' 13.71"	17-Sep-57	3,834	68
L         06395 (E)         0         NCVAY DRILLING COMPANY         PRO         17S         36E         12         14         N32° 517 300°         W103° 17 55.90°         19-Oct-68           L         00449         42.8         J. LYNN WALKER         IRR         17S         37E         06         421         N32° 517 300°         W103° 17 55.90°         11-May-05           L         00449         3         LEE DRILLING CO.         PRO         17S         37E         06         31         N32° 517 300°         W103° 17 55.90°         11-May-05           L         02474         3         LEE DRILLING CO.         PRO         17S         37E         07         11         N32° 517 304°         W103° 17 55.90°         11-May-05           L         01603 APPRO         3         SIMMONS DRILLING CO.         PRO         17S         37E         07         11         N32° 511 038°         07-141-59         07-141-59         07-141-59         07-141-59         07-141-59         07-141-59         07-141-59         07-141-59         07-141-59         07-141-50         07-141-59         07-141-50         07-141-50         07-141-50         07-141-50         07-141-50         07-141-50         07-141-50         07-141-60         07-155.80	×	L 02205	3		PRO	17S		22	V32° 51' 10.90"	W103° 18' 11.46"	01-May-53	3,811	45
	6	L 06395 (E)	0		PRO	17S		14	V32° 50' 57.89"	W103° 18' 42.48"	19-Oct-68	3,822	47
L         00449         EXPLORE         M         17S         37E         06         N32° 51'23.92"         W 103° 17' 55.96"         11-May-05           L         02474         3         L         EDRILLING CO.         PRO         17S         37E         06         31         N32° 51'35'51'         N03° 17'55.96"         14-Jan-54           L         01603         APPRO         XP         3         E.D.JR.SHIPP         STK         17S         37E         07'121         N32° 51'10.87"         W 103° 17'10.38"         07-Jan-54           L         04359         3         E.D.JR.SHIPP         DAI         17S         37E         07'121         N32° 51'10.87"         W 103° 17'10.42"         9-Jan-04           L         04359         3         E.D.JR.SHIPP         DOM         17S         37E         07'121         N32° 51'10.81"         W 103° 17'10.42"         9-Jun-65           L         04375         3         E.D.ASTON         DOM         17S         37E         07'221         N32° 51'10.81"         W 103° 17'10.42"         9-Jun-52           L         10021         3         MAKIN DRILLING CO.         DELANEY         PRO         16S         36E         34         N 132° 52'10.81"         W	10	L 00449	442.8	J. LYNN WALKER	IRR	17S	_	421	V32° 51' 37.00"	W103° 17' 25.99"	20-May-05	3,804	101
L         02474         3         LEE DRILLING CO.         PRO         17S         37E         06         31         N32° 51' 37.04"         W103° 17' 55.91"         25.06"         14.Jan.54           L         01603 APPRO         3         SIMMONS DRILLING CO.         PRO         17S         37E         07         11         N32° 51' 10.87"         W103° 17' 55.91"         25.0ct-52           L         04197 APPRO EXP         3         E. D. JR. SHIPP         DM         17S         37E         07         21         N32° 51' 10.87"         W103° 17' 10.38"         07.Jul-59           L         04339 E         D         JELBERT         DOM         17S         37E         07         22         N32° 51' 10.84"         W103° 17' 10.42"         9.Jul-04           L         04712         3         ELBERT D. SHIPP         DOM         17S         37E         07         222         N32° 51' 10.84"         W103° 17' 10.42"         9.Jul-64           L         1056         3         JT         JZ         N2° 52' 10.84"         W103° 17' 10.42"         9.Jul-56           L         10156         3         JT         ZZ         N32° 52' 10.84"         W103° 17' 10.42"         9.Jul-56           L	11	L 00449 EXPLORE				17S		4	V32° 51' 23.92"	W103° 17' 25.96"	11-May-05	3,800	118
L         01603         APPRO         3         SIMMONS DRILLING CO.         PRO         175         37E         07         11         N32° 51' 10.87"         W 103° 17' 55.91"         25.0ct-52           L         04197         APPRO EXP         3         E. D.JR. SHIPP         STK         175         37E         07         1         N13° 51' 10.87"         W 103° 17' 10.38"         07-Jul-59           L         04197         37E         07         1         21         N32° 50' 57.74"         W 103° 17' 10.42"         10-Jul-69           L         04359 B         120         CHARLES WORDEN         DAI         175         37E         07         121         N32° 51' 10.84"         W 103° 17' 10.42"         19-Jul-69           L         10021         3         E. D. ASTON         DOM         175         37E         07         212         N32° 51' 10.84"         W 103° 17' 10.42"         19-Jul-88           L         101056         3         37E         07         212         N32° 51' 10.84"         W 103° 17' 10.42"         09-Jul-52           L         101056         3         35         35         35         35         36         36         37         37         37         30	12	L 02474	3	LEE DRILLING CO.	PRO	17S		3 1	N32° 51' 37.04"	W103° 17' 55.96"	14-Jan-54	3,813	40
L         04197 APPRO EXP         3         E. D. JR. SHIPP         STK         175         37E         07         121         N32° 57'74"         W 103° 17'10.38"         07-Jul-59           L         04359 B         120         CHARLES WORDEN         DAI         175         37E         07         121         N32° 57'10.86"         W 103° 17'11.40"         10-Jan-04           L         04712         3         ELBERT D. SHIPP         DOM         175         37E         07         121         N32° 57'10.86"         W 103° 17'11.40"         10-Jan-04           L         04712         3         E. D. ASTON         DOM         175         37E         07         222         N32° 57'10.81"         W 103° 17'10.42"         19-Jul-88           L         10021         3         KENNETH GOFF         DOM         175         37E         07         222         N32° 57'10.81"         W103° 17'10.42"         19-Jul-88           L         10166         PRO         165         36E         35         43         N32° 52'16.43"         W103° 17'10.42"         19-Jul-88           L         01466 APPRO         DOM         175         36E         35         43         N32° 52'16.43"         W103° 18'10.51" <td< td=""><td>13</td><td>L 01603 APPRO</td><td>3</td><td></td><td>PRO</td><td>17S</td><td></td><td>11</td><td>N32° 51' 10.87"</td><td>17</td><td>25-Oct-52</td><td>3,807</td><td>39</td></td<>	13	L 01603 APPRO	3		PRO	17S		11	N32° 51' 10.87"	17	25-Oct-52	3,807	39
L04359 B120CHARLES WORDENDAI17S37E0712N32° 51' 10.86"W103° 17' 41.40"10-Jan-04L047123ELBERT D. SHIPPDOM17S37E07212N32° 51' 10.84"W103° 17' 10.42"19-Jal-88L047123E. D. ASTONDOM17S37E0722.2N32° 51' 10.84"W103° 17' 10.42"19-Jal-88L100213KENNETH GOFDOM17S37E0722.2N32° 51' 10.81"W103° 17' 10.42"09-May-00L110563KENNETH GOFDOM17S37E0722.2N32° 51' 10.81"W103° 17' 10.42"09-May-00L01466 APPRO3M. J. DRILLING CO. DELANEYPRO16S36E3543N32° 52' 16.43"W103° 19' 19.42"09-Jun-52L01366 APPRO3MAKIN DRILLING CO.PRO16S36E3524N32° 52' 16.43"W103° 19' 13.62"12-Jan-52L031733MAKIN DRILLING CO.PRO16S36E363642N32° 52' 16.34"W103° 18' 27.14"23-Jan-52L01371 APPRO3SHARP DRILLING CO.PRO16S36E363643N103° 18' 27.14"23-Feb-52L01371 APPRO3SHARP DRILLING CO.PRO16S36E3643N103° 18' 27.14"23-Feb-52L01371 APPRO3SHARP DRILLING CO.PRO16S <td< td=""><td>14</td><td>L 04197 APPRO EXP</td><td>3</td><td>E. D. JR. SHIPP</td><td>STK</td><td>17S</td><td></td><td>24</td><td>N32° 50' 57.74"</td><td>W103° 17' 10.38"</td><td>07-Jul-59</td><td>3,796</td><td>45</td></td<>	14	L 04197 APPRO EXP	3	E. D. JR. SHIPP	STK	17S		24	N32° 50' 57.74"	W103° 17' 10.38"	07-Jul-59	3,796	45
L       04712       3       ELBERT D. SHIPP       DOM       175       37E       07       212       N32° 51' 10.84"       W 103° 17' 10.42"       13-Sep-61       1         L       10021       3       KENNETH GOFF       DOM       175       37E       07       222       N32° 51' 10.81"       W 103° 17' 10.42"       19-Jul-88       09-May-00         L       10056       3       KENNETH GOFF       DOM       175       37E       07       222       N32° 51' 10.81"       W 103° 17' 10.42"       09-May-00	15	L 04359 B	120	CHARLES WORDEN	DAI	17S		121	N32° 51' 10.86"	W103° 17' 41.40"	10-Jan-04	3,804	75
It         10021         3         E         D. ASTON         DOM         175         37E         07         22.2         N32° 51' 10.81"         W 103° 17' 10.42"         19-Jul-88           L         11056         3         KENNETH GOFF         DOM         175         37E         07         22.2         N32° 51' 10.81"         W 103° 17' 10.42"         09-May-00           L         01466         APRO         3         M.J. DRILLING CO. DELANEY         PRO         16S         36E         35         43         N32° 52' 16.43"         W 103° 19' 29.35"         09-Jun-52           L         012987         3         MAKIN DRILLING CO.         PRO         16S         36E         35         43         N32° 52' 16.43"         W 103° 19' 13.62"         15-Mat-56           L         03173         3         MAKIN DRILLING CO.         PRO         16S         36E         35         43         N32° 52' 16.43"         W 103° 19' 13.62"         12-Jan-52           L         03173         APRO         16S         36E         35         24         N32° 52' 16.34"         N32° 52' 14"         23-Feb-52           L         01350 APPRO         3         APARP DRILLING CO.         PRO         16S         36	16	L 04712	3	ELBERT D. SHIPP	MOD	17S		212	N32° 51' 10.84"	W103° 17' 25.89"	11-Sep-61	3,800	75
L         11056         3         KENNETH GOFF         DOM         17S         37E         07         22.2         N32° 51' 10.81"         W103° 17' 10.42"         09-May-00           L         01466 APPRO         3         M. J. DRILLING CO. DELANEY         PRO         16S         36E         35         43         N32° 52' 16.43"         W103° 19' 29.35"         09-Jun-52           L         02987         3         MAKIN DRILLING CO.         PRO         16S         36E         35         43         N32° 52' 16.43"         W103° 19' 29.35"         20-Sep-55           L         03173         3         MAKIN DRILLING CO.         PRO         16S         36E         35         43         N32° 52' 16.43"         W103° 19' 13.62"         12-Jan-52           L         03173         APRO         35         36         35         24         N32° 52' 16.34"         W103° 18' 11.51"         12-Jan-52           L         01350 APPRO         3         SE         36         36         36         43         N132° 52' 16.34"         W103° 18' 11.51"         12-Jan-52           L         01350 APPRO         3         SE         36         36         36         36         36         36         36	17	L 10021	3	E. D. ASTON	DOM	17S		222	N32° 51' 10.81"	W103° 17' 10.42"	19-Jul-88	3,797	70
L         01466         APPRO         3         M. J. DRILLING CO. DELANEY         PRO         16S         36E         35         43         N32° 52' 16.43"         W 103° 19' 29.35"         09-Jun-52           L         02987         3         ARROW DRILLING CO.         PRO         16S         36E         35         43         N32° 52' 16.43"         W 103° 19' 29.35"         20-Sep-55           L         03173         3         MAKIN DRILLING CO.         PRO         16S         36E         35         43         N32° 52' 16.43"         W 103° 19' 13.62"         15-Mar-56           L         03173         3         PARKER DRILLING CO.         PRO         16S         36E         35         43         N32° 52' 16.43"         W 103° 18' 11.51"         12-Jan-52           L         01350 APPRO         3         PARKER DRILLING CO.         PRO         16S         36E         36         43         N132° 52' 16.34"         W 103° 18' 11.51"         12-Jan-52           L         01371 APPRO         3         S4         33         52' 16.34"         W 103° 18' 27.14"         23-Feb-52           L         0138 APPRO         0         S5         36         36         36         36         36         36	18	L 11056	3	KENNETH GOFF	DOM	17S		222	N32° 51' 10.81"	W103° 17' 10.42"	09-May-00	3,797	62
L         02987         3         ARROW DRILLING CO.         PRO         16S         36E         3         43         N32° 52' 16.43"         W 103° 19' 29.35"         20-Sep-55         20-Sep-55         20-Sep-55         20-Sep-55         20-Sep-55         20-Sep-55         20-Sep-55         20-Sep-56         2	19	L 01466 APPRO	3	M. J. DRILLING CO. DELANEY	PRO	16S		43	N32° 52' 16.43"	W103° 19' 29.35"	09-Jun-52	3,849	47
L       03173       3       MAKIN DRILLING COMPANY       PRO       16S       36E       35       24       N32° 52' 42.40"       W 103° 19' 13.62"       15-Mar-56         L       01350 APPRO       3       PARKER DRILLING CO.       PRO       16S       36E       36       42       N32° 52' 42.40"       W 103° 18' 11.51"       12-Jan-52         L       01371 APPRO       3       SHARP DRILLING CO.       PRO       16S       36E       36       43       N32° 52' 16.34"       W 103° 18' 11.51"       23-Feb-52         L       01371 APPRO       3       SKELLY OIL CO.       PRO       16S       36E       36       43       N32° 52' 16.34"       W 103° 18' 27.14"       23-Feb-52         L       01438 APPRO       0       SKELLY OIL CO.       PRO       16S       36E       36       34       N32° 52' 16.34"       W 103° 18' 27.14"       26-Aug-52         L       01537 APPRO       0       16S       36E       36       34       N32° 52' 16.34"       W103° 18' 58.25"       26-Aug-52         L       01557 APPRO       3       M 102° 52' 16.34"       W 103° 18' 58.25"       26-Aug-52       26-Aug-52       26-Aug-52       26-Aug-52       26-Aug-52       26-Aug-52       26-Aug-52	20	L 02987	ε		PRO	16S		43	N32° 52' 16.43"	W103° 19' 29.35"	20-Sep-55	3,849	40
L         01350 APPRO         3         PARKER DRILLING CO.         PRO         16S         36E         36         4.2         N32° 52' 29.34"         W103° 18' 11.51"         12-Jan-52           L         01371 APPRO         3         SHARP DRILLING CO.         PRO         16S         36E         36         4.3         N32° 52' 16.34"         W103° 18' 27.14"         23-Feb-52           L         01438 APPRO         0         SKELLY OIL CO.         PRO         16S         36E         36         4.3         N32° 52' 16.34"         W103° 18' 27.14"         23-Feb-52           L         01438 APPRO         0         SKELLY OIL CO.         PRO         16S         36E         36         4.3         N32° 52' 16.34"         W103° 18' 27.14"         08-May-52           L         01438 APPRO         3         36         3.4         32° 52' 16.34"         W103° 18' 27.14"         08-May-52           L         01557 APPRO         3         36         3.4         32° 52' 16.39"         W103° 18' 58.25"         26-Aug-52           L         01557 APPRO         3         M102° 52' 16.39"         W103° 18' 58.25"         26-Aug-52         26-Aug-52           L         01555 APPRO         3         36         3.4	21	L 03173	3		PRO	16S		24	N32° 52' 42.40"		15-Mar-56	3,850	55
L         01371         APPRO         3         SHARP DRILLING CO.         PRO         16S         36E         36         43         N32° 52'         16':34"         W103° 18' 27':14"         23-Feb-52         22           L         01438         APPRO         0         SKELLY OIL CO.         PRO         16S         36E         36         43         N32° 52'         16':34"         W103° 18' 27':14"         23-Feb-52         2           L         01438         APPRO         0         SKELLY OIL CO.         PRO         16S         36E         36         33         N32° 52'         16':34"         W103° 18' 27':14"         08-May-52           L         01557         APPRO         36E         36         33         N32° 52'         16':30"         W103° 18' 58':25"         26-Aug-52           L         01557         APPRO         36E         36         16'         36''''''''''''''''''''''''''''''''''''	22	L 01350 APPRO	3		PRO	16S		42	N32° 52' 29.34"	W103° 18' 11.51"	12-Jan-52	3,825	55
L         01438 APPRO         0         SKELLY OIL CO.         PRO         16S         36E         36         3         N32° 52' 16.34"         W103° 18' 27.14"         08-May-52           L         01557 APPRO         3         W032 18' 58' 25'         26-Aug-52         26-Aug-52           L         01557 APPRO         3         M103° 18' 58' 25'         26-Aug-52         26-Aug-52           L         01557 APPRO         3         M103° 18' 58' 25'         26-Aug-52         26-Aug-52           L         04058 S-24         36         36         1         2         N32° 52' 55.45'         W103° 18' 58.00'         07-Apr-00           L         04058 S-25         36E         36         1         2         N32° 52' 55.45'         W103° 18' 42' 53'''         13-Apr-00           L         04058 S-25         36E         36         1         2         N32° 52' 42.41'''         W103° 18' 42' 53''''         13-Apr-00	23	L 01371 APPRO	3	SHARP DRILLING CO.	PRO	16S		434	N32° 52' 16.34"	W103° 18' 27.14"	23-Feb-52	3,832	45
L         01557         APPRO         3         WARREN BRADSHAW         PRO         16S         36E         36         34         N32° 52'         16' 36''         26-Aug-52           L         04058         S-24         3         1         2         122° 52'         55.45''         W103° 18' 58.00''         07-Apr-00           L         04058         S-24         3         1         2         132° 52' 55.45''         W103° 18' 42.53''         13-Apr-00           L         04058         S-25         36         36''         1         2         132° 52''         58.00''         07-Apr-00	24	L 01438 APPRO	0	SKELLY OIL CO.	PRO	16S		43	N32° 52' 16.34"	W103° 18' 27.14"	08-May-52	3,832	45
IL         04058 S-24         IE         16S         36E         36         11         2         N32° 52' 55.45"         W 103° 18' 58.00"         07-Apr-00           L         04058 S-25         16S         36E         36         1         2         N32° 52' 52.45"         W 103° 18' 58.00"         07-Apr-00	25	L 01557 APPRO	Э		PRO	16S		334	N32° 52' 16.39"	W103° 18' 58.25"	26-Aug-52	3,839	40
L 04058 S-25 [162] 36E [36] 14 2 [N32° 52' 42.41" [W103° 18' 42.53" [13-Apr-00]	26	L 04058 S-24				16S		112	N32° 52' 55.45"	W103° 18' 58.00"	07-Apr-00	3,845	88
	27	L 04058 S-25				16S		142	N32° 52' 42.41"	W103° 18' 42.53"	13-Apr-00	3,835	88

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### WELL INFORMATION REPORT\*

# Chevron USA - Lovington San Andres #40 - NMOCD 1RP #1228; EPI Ref: 200068

Ref.#	Well Number	Diversion <sup>A</sup>	Owner	Use	Twsp		Rng Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation <sup>B</sup>	Depth to Water
28	L 01220 APPRO	3	J.R. SHARP DRILLING CO.	PRO	16S	37E 31	33	N32° 52' 16.29"	W103° 17' 56.04"	18-Sep-51	3.815	55
29	L 02041	3	THE TEXAS COMPANY	PRO	16S	37E 31	11	N32° 52' 55.27"	W103° 17' 55.80"	04-Mar-53	3,833	50
30	L 02078	3	SHARP DRILLING CO.	PRO	16S	37E 3	31 44	N32° 52' 16.32"	W103° 17' 5.86"	25-Mar-53	3,804	50
31	L 02561	3	SKELLY OIL CO.	DOM	16S	37E 31		3 3 3 N32° 52' 16.29"	W103° 17' 56.04"	03-Mar-54	3,815	50
32	L 10652	3	BOC GASES	SAN	16S	37E 31	I 1	3 4 4 N32° 52' 16.30"	W103° 17' 36.89"	10-Apr-97	3,812	72
33	USGS #1				17S	36E 1	112			01-May-92		83
34	USGS #2				17S	36E 2	244			14-Jan-86		62.96
35	USGS #3				17S	36E 2	312			13-Jan-81		53.19
36	USGS #4				17S	36E 2	411			19-Jan-96		57.77
37	USGS #5				17S	36E 1	12 121			27-Feb-76		44.1
38	USGS #6				17S	36E 1	12 2 2 3			19-Jan-96		55.32
39	USGS #7				17S	36E 1	12 123			14-Jan-86		50.87
41	USGS #9				17S	37E 6	411			31-Jan-91		61.64
42	USGS #10				17S	37E 7	243			24-Jan-91		53.44
43	USGS #11				17S	37E 7	211			07-Jan-81		51.09
44	USGS #12				16S	36E 3	35 241			01-Feb-96		75.9
46	USGS #14				16S	37E 31	1 322			17-Mar-76		61.93
3	L. 10633	1643.4	KENNETH IVAN GOFF	IRG	17S	368.40	1 422	N32° 49' 39.48"	W1039-181 26.91"	19-Apr-01	3,810	80
300	USCS #8				SLI	368-1	16E 12 3 2 3			14-lan-86		45.93
45	USGS #13				165	37E 3	1.1.1			17-Mar-76		70.94
												A STATE OF A

\* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nn.us.7001/iWATERS/wr\_RegisServlet1) and USGS Database. Shaded well information indicates well location not shown on Figure 2

 $^{A}$  = in acre feet per annum

 $^{B}$  = Interpolated from USGS Topographical Map

PRO = Production

IRR = Irrigation DOM = Domestic one household STK = Livestock watering

DA1 = Dairy operation (quarters are 1=NW, 2=NE, 3=SW, 4=SE) (quarters are biggest to smallest - X Y are in Feet - UTM are in Meters)

Summary of Soil Boring Field Analyses and Laboratory Analytical Data **TABLE 2** 

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### Chevron USA

## Lovington San Andres #40 - NMOCD 1RP #1228; EPI Ref: 200068

(feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Carbon Ranges C6-C12 (mg/Kg)	Carbon Ranges C12-C28 (mg/Kg)	Carbon Ranges C28-C35 (mg/Kg)	Total Hydrocarbons C6 Chloride C35 (mg/Kg) (mg/Kg)	Chloride (mg/Kg)
2-3	In situ	08-Feb-06	0.5	160	<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.0	<10.0	<30.0	42.2
SB-1 5-6	In situ	08-Feb-06	0.4	160	<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.0	<10.0	<30.0	13.3
10-11	In situ	08-Feb-06	0.4	160	<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.0	<10.0	<30.0	127
2-3	In situ	08-Feb-06	0.3	240	<0.0250	<0.0250	<0.0250	<0:050	<0.125	<10.0	<10.0	<10.0	<30.0	126
SB-2 5-6	In situ	08-Feb-06	0.1	160	<0.0250	<0.0250	<0.0250	<0:050	<0.125	<10.0	<10.0	<10.0	<30.0	30.4
10-11	In situ	08-Feb-06	0.1	160	<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.01>	<10.0	<30.0	6.6
2-3 SB 2	In situ	08-Feb-06	0.1	200	<0.0250	<0.0250	<0.0250	<0:050	<0.125	<10.0	<10.0	<10.0	<30.0	44.5
5-6	In situ	08-Feb-06	0.1	160	<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.0	<10.0	<30.0	37.5
NMOCD Rem	NMOCD Remedial Threshold Goals	Goals	100		10				50				5,000	250 <sup>1</sup>

BOLD values exceed NMOCD Remedial Threshold Goals
1 = Chloride and Sulphare residuals may not be capable of impacting groundwater above NMHQCC Groundwater Standards of 230 mg/Kg and 600 mg/Kg, respectively
- - = Not Analyzed, J = Analyse detected, but below Reporting Limit. Therefore, result is an estimated concentration (CPL J-Flag)

APPENDICES

**APPENDIX I** 

**PROJECT PHOTOGRAPHS** 



Photograph #1 – Lease sign.



Photograph #2 – Looking northwesterly at release site.





Photograph #4 – Remediated site.



Photograph #5 – Remediated site.



Photograph #6 – Remediated site.

### **APPENDIX II**

### LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORM



### Analytical Report

### **Prepared for:**

Iain Olness Environmental Plus, Incorporated P.O. Box 1558 Eunice, NM 88231

Project: Chevron USA/ Lov. San Andres Unit #40 Project Number: 200068 Location: UL-H, Sec. 01, T 17 S, R 36 E

Lab Order Number: 6B09012

Report Date: 02/21/06

Environmental Plus, Incorporated	Project:	Chevron USA/ Lov. San Andres Unit #40	Fax: 505-394-2601
P.O. Box 1558	Project Number:	200068	Reported:
Eunice NM, 88231	Project Manager:	Iain Olness	02/21/06 15:34

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 2'-3'	6B09012-01	Soil	02/08/06 08:45	02/09/06 12:56
SB-1 5'-6'	6B09012-02	Soil	02/08/06 08:51	02/09/06 12:56
SB-1 10'-11'	6B09012-03	Soil	02/08/06 09:03	02/09/06 12:56
SB-2 2'-3'	6B09012-04	Soil	02/08/06 09:15	02/09/06 12:56
SB-2 5'-6'	6B09012-05	Soil	02/08/06 09:19	02/09/06 12:56
SB-2 10'-11'	6B09012-06	Soil	02/08/06 09:28	02/09/06 12:56
SB-3 2'-3'	6B09012-07	Soil	02/08/06 09:35	02/09/06 12:56
SB-3 5'-6'	6B09012-08	Soil	02/08/06 09:40	02/09/06 12:56

Project: Chevron USA/ Lov. San Andres Unit #40 Project Number: 200068 Project Manager: lain Olness

Fax: 505-394-2601

Reported: 02/21/06 15:34

### Organics by GC

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-1 2'-3' (6B09012-01) Soil				Diffusion	Daitin	riepaieu	Analyzeu	wichtu	TNOICE
	ND	0.0250	mg/kg dry	25	EB61503	02/15/06	02/16/06	EPA 8021B	
Benzene Toluene	ND	0.0250 0.0250	mg/kg ury ≝	25	EB01505	02/15/00	02/10/00	UIA 6021D	
	ND				"	"	51	"	
Ethylbenzene V. hung (a fact)	ND	0.0250	11		"		н	"	
Xylene (p/m)	ND	0.0250	н		"	"	н		
Xylene (o)	ND	0.0250					"		
Surrogate: a,a,a-Trifluorotoluene		91.8 %	80-1		"	"	"		
Surrogate: 4-Bromofluorobenzene		82.8 %	80-1						
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61031	02/10/06	02/13/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0			*1	n	R		
Carbon Ranges C28-C35	ND	10.0	н		"				
Total Hydrocarbon C6-C35	ND	10.0							
Surrogate: 1-Chlorooctane		101 %	70-1		"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.2 %	70-1	30	"	"	"	"	
SB-1 5'-6' (6B09012-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61503	02/15/06	02/15/06	EPA 8021B	
Toluene	ND	0.0250	"	"	н	н	"	"	
Ethylbenzene	ND	0.0250	"	"	н	н	**	"	
Xylene (p/m)	ND	0.0250	"	"	н	н	**	"	
Xylene (o)	ND	0.0250	"	"		"	н	"	
Surrogate: a,a,a-Trifluorotoluene		83.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61031	02/10/06	02/13/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0		"	н	"	н	"	
Carbon Ranges C28-C35	ND	10.0	"	"	н	"	н	H	
Total Hydrocarbon C6-C35	ND	10.0	"	"	н	"	"	"	
Surrogate: 1-Chlorooctane		104 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.0 %	70-1	30	"	"	"	"	
SB-1 10'-11' (6B09012-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61503	02/15/06	02/16/06	EPA 8021B	
Toluene	ND	0.0250	"	н	11		н	*1	
Ethylbenzene	ND	0.0250	"	11	"	"	н	"	
Xylene (p/m)	ND	0.0250	"	11	"		н	"	
Xylene (o)	ND	0.0250	"	11	"		н	**	
Surrogate: a,a,a-Trifluorotoluene		98.0 %	80-1	20	"	"		"	
Surrogate: 4-Bromofluorobenzene		80.2 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND		mg/kg dry	1	EB61031	02/10/06	02/13/06	EPA 8015M	
Environmental Lab of Texas								ance with the samp	

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Project: Chevron USA/ Lov. San Andres Unit #40						Fax: 505-394-2601		
	Reported:							
	Project Manager: lain Olness							
	O	rganics b	y GC					
	Environ	mental L	ab of Te	exas				
Dunk	Reporting	11-14-						
Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ND		mg/kg dry		EB61031			EPA 8015M	
		ч		"	"	•*	"	
ND	10.0			••••••••••••••••••••••••••••••••••••••	<b>"</b>	" 		
	99.2 %	70-1	30	"	"	"	"	
	75.0 %	70-1	30	"	"	"	"	
ND	0.0250	mg/kg dry	25	EB61503	02/15/06	02/16/06	EPA 8021B	
ND	0.0250	**	н	"	н		"	
ND	0.0250	*	**	"	"	"	0	
ND	0.0250	*	"	"	"	"	н	
ND	0.0250	"	**	н	"		"	
	91.2 %	80-1	20	"	"	"	"	
	81.0 %	80-1	20	"	"	n	"	
ND	10.0	mg/kg dry	1	EB61031	02/10/06	02/13/06	EPA 8015M	
ND	10.0		"	"	"		11	
ND	10.0	"		"	"	"	11	
ND	10.0			н	н	н	"	
	97.2 %	70-1	30	"	"	"		
	71.8 %			"	"	"	"	
ND	0.0250	mg/kg drv	25	EB61503	02/15/06	02/15/06	EPA 8021B	
		"	"		"		11	
		"					11	
		"			"	"	11	
		"			"	"	н	
		80-1	20	"	"			
				"	"	"	"	
ND				EB61031	02/10/06	02/13/06	EPA 8015M	
		1		"	"	"	"	
		11		"	"		н	
		••	н	"	"		н	
		70.1	30		"	· · · · · · · · · · · · · · · · ·		
	78.0 %							
	ND ND ND ND ND ND ND ND ND ND ND	Project N           Project M           Ch           Environ           Result         Reporting Limit           ND         10.0           ND         10.0           ND         10.0           ND         10.0           ND         10.0           ND         0.0250           ND         10.0           ND         10.0           ND         10.0           ND         10.0           ND         0.0250           ND         10.0           ND         0.0250           ND         10.0 <td>Project Number:         200 Project Manager:         201 Iair           Organics b Environmental L           Result         Reporting Limit         Units           ND         10.0         ""           ND         10.0         ""           ND         10.0         "           ND         10.0         "           ND         10.0         "           ND         0.0250         mg/kg dry           ND         0.0250         "           ND         10.0         "           ND         10.0         "           ND         10.0         "           ND         10.0         "           ND         0.0250         "           ND         10.0         "           ND         0.0250         "           ND         0.0250         "           ND         0</td> <td>Project Number:         200068           Project Manager:         lain Olness           Internet Lab of Telestore           Result         Reporting         Units         Dilution           Result         Reporting         1         1           ND         10.0         mg/kg dry         1           ND         10.0         "         "           ND         10.0         "         "           ND         10.0         "         "           ND         10.0         "         "           ND         0.0250         "         "           ND         10.0         mg/kg dry         1           ND         10.0         "         "           ND         10.0         "         "           ND         0.0250         "         "           ND         0.0250</td> <td>ND         0.0250         mg/kg dry         1         EB61031           ND         10.0         mg/kg dry         1         EB61031           ND         10.0         "         "         "           ND         0.0250         "         "         "           ND         10.0         mg/kg dry         1         EB61031           ND         10.0         "         "         "<!--</td--><td>Project Number:       200068         Project Manager:       lain Olness         Batch Texas         Result       Units       plution       Batch       Prepared         Result       Reporting       Units       plution       Batch       Prepared         ND       10.0       mg/kg dry       1       EB61031       02/10/06         ND       10.0       ""       ""       ""       ""         ND       10.0       """       ""       """       """         ND       0.02       70-130       ""       """       """"         ND       0.0250       """       """       """"       """"         ND       0.0250       """       """       """"       """""         ND       0.0250       """       """"       """""       """"""         ND       0.0250       """       """""""       """"""""""""""""""""""""""""""""""""</td><td>ND       Reporting Limit       Justics       Bach       Prepared       Analyzed         Result       Units       Justicn       Bach       Prepared       Analyzed         ND       10.0       mg/kg dry       1       EB61031       02/10/06       02/13/06         ND       10.0       mg/kg dry       1       EB61031       02/10/06       02/13/06         ND       10.0       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       10.0       mg/kg dry       25       EB61503       02/15/06       02/16/06         ND       0.0250       mg/kg dry       25       EB61503       02/15/06       02/16/06         ND       0.0250       mg/kg dry       25       EB61503       02/15/06       02/15/06         ND       0.0250       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       0.0250       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       0.0250       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       10.0       mg/kg dry       1       EB61031       02/15/06       02/15/06</td><td>ND         Output of Days but readed to the readed to</td></td>	Project Number:         200 Project Manager:         201 Iair           Organics b Environmental L           Result         Reporting Limit         Units           ND         10.0         ""           ND         10.0         ""           ND         10.0         "           ND         10.0         "           ND         10.0         "           ND         0.0250         mg/kg dry           ND         0.0250         "           ND         10.0         "           ND         10.0         "           ND         10.0         "           ND         10.0         "           ND         0.0250         "           ND         10.0         "           ND         0.0250         "           ND         0.0250         "           ND         0	Project Number:         200068           Project Manager:         lain Olness           Internet Lab of Telestore           Result         Reporting         Units         Dilution           Result         Reporting         1         1           ND         10.0         mg/kg dry         1           ND         10.0         "         "           ND         10.0         "         "           ND         10.0         "         "           ND         10.0         "         "           ND         0.0250         "         "           ND         10.0         mg/kg dry         1           ND         10.0         "         "           ND         10.0         "         "           ND         0.0250         "         "           ND         0.0250	ND         0.0250         mg/kg dry         1         EB61031           ND         10.0         mg/kg dry         1         EB61031           ND         10.0         "         "         "           ND         0.0250         "         "         "           ND         10.0         mg/kg dry         1         EB61031           ND         10.0         "         "         " </td <td>Project Number:       200068         Project Manager:       lain Olness         Batch Texas         Result       Units       plution       Batch       Prepared         Result       Reporting       Units       plution       Batch       Prepared         ND       10.0       mg/kg dry       1       EB61031       02/10/06         ND       10.0       ""       ""       ""       ""         ND       10.0       """       ""       """       """         ND       0.02       70-130       ""       """       """"         ND       0.0250       """       """       """"       """"         ND       0.0250       """       """       """"       """""         ND       0.0250       """       """"       """""       """"""         ND       0.0250       """       """""""       """"""""""""""""""""""""""""""""""""</td> <td>ND       Reporting Limit       Justics       Bach       Prepared       Analyzed         Result       Units       Justicn       Bach       Prepared       Analyzed         ND       10.0       mg/kg dry       1       EB61031       02/10/06       02/13/06         ND       10.0       mg/kg dry       1       EB61031       02/10/06       02/13/06         ND       10.0       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       10.0       mg/kg dry       25       EB61503       02/15/06       02/16/06         ND       0.0250       mg/kg dry       25       EB61503       02/15/06       02/16/06         ND       0.0250       mg/kg dry       25       EB61503       02/15/06       02/15/06         ND       0.0250       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       0.0250       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       0.0250       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       10.0       mg/kg dry       1       EB61031       02/15/06       02/15/06</td> <td>ND         Output of Days but readed to the readed to</td>	Project Number:       200068         Project Manager:       lain Olness         Batch Texas         Result       Units       plution       Batch       Prepared         Result       Reporting       Units       plution       Batch       Prepared         ND       10.0       mg/kg dry       1       EB61031       02/10/06         ND       10.0       ""       ""       ""       ""         ND       10.0       """       ""       """       """         ND       0.02       70-130       ""       """       """"         ND       0.0250       """       """       """"       """"         ND       0.0250       """       """       """"       """""         ND       0.0250       """       """"       """""       """"""         ND       0.0250       """       """""""       """"""""""""""""""""""""""""""""""""	ND       Reporting Limit       Justics       Bach       Prepared       Analyzed         Result       Units       Justicn       Bach       Prepared       Analyzed         ND       10.0       mg/kg dry       1       EB61031       02/10/06       02/13/06         ND       10.0       mg/kg dry       1       EB61031       02/10/06       02/13/06         ND       10.0       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       10.0       mg/kg dry       25       EB61503       02/15/06       02/16/06         ND       0.0250       mg/kg dry       25       EB61503       02/15/06       02/16/06         ND       0.0250       mg/kg dry       25       EB61503       02/15/06       02/15/06         ND       0.0250       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       0.0250       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       0.0250       mg/kg dry       1       EB61031       02/15/06       02/15/06         ND       10.0       mg/kg dry       1       EB61031       02/15/06       02/15/06	ND         Output of Days but readed to the readed to

Environmental Lab of Texas

Project: Chevron USA/ Lov. San Andres Unit #40 Project Number: 200068 Project Manager: Iain Olness Fax: 505-394-2601

**Reported:** 02/21/06 15:34

### Organics by GC

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-2 10'-11' (6B09012-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61503	02/15/06	02/15/06	EPA 8021B	
Toluene	ND	0.0250	"	н	•	"	11	**	
Ethylbenzene	ND	0.0250	"	0		"	11	11	
Xylene (p/m)	ND	0.0250	11	"	**	"	**	н	
Xylene (o)	ND	0.0250	н	"	**	"	**	"	
Surrogate: a,a,a-Trifluorotoluene		95.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61031	02/10/06	02/13/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	н	н	11	"	
Carbon Ranges C28-C35	ND	10.0	"	**	"	"	н	"	
Total Hydrocarbon C6-C35	ND	10.0	"	**		н	17		
Surrogate: 1-Chlorooctane		94.4 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.4 %	70-1	30	"	"	"	"	
SB-3 2'-3' (6B09012-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61503	02/15/06	02/15/06	EPA 8021B	
Toluene	ND	0.0250	11	"	н	"	u	"	
Ethylbenzene	ND	0.0250	н	"		11	п	"	
Xylene (p/m)	ND	0.0250	"	"		н	"	11	
Xylene (0)	ND	0.0250	и	"	**	"	"	н	
Surrogate: a,a,a-Trifluorotoluene		93.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61031	02/10/06	02/13/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	**	11		"	"	"	
Carbon Ranges C28-C35	ND	10.0	и	"	•	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	н		*	"	"	"	
Surrogate: 1-Chlorooctane		97.2 %	70-1	30	"	n	"	"	
Surrogate: 1-Chlorooctadecane		70.6 %	70-1	30	"	"	"	"	
SB-3 5'-6' (6B09012-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61508	02/15/06	02/15/06	EPA 8021B	
Toluene	ND	0.0250	"	н	"	"	"	"	
Ethylbenzene	ND	0.0250	"	n		"	"	"	
Xylene (p/m)	ND	0.0250	"	и	"	"	"	11	
Xylene (0)	ND	0.0250	"	11	"		"	"	
Surrogate: a,a,a-Trifluorotoluene		85.8 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.8 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND		mg/kg dry	1	EB61031	02/10/06	02/13/06	EPA 8015M	
Environmental Lab of Texas			The year	ulta in thia u	anout annhi ta	the complete out	alunad in accoud	ance with the same	./

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety,

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Project: Chevron USA/ Lov. San Andres Unit #40 Project Number: 200068 Project Manager: Iain Olness Fax: 505-394-2601 Reported:

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### Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 5'-6' (6B09012-08) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EB61031	02/10/06	02/13/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"		"	"			
Total Hydrocarbon C6-C35	ND	10.0	"	"	11	11	"	11	
Surrogate: 1-Chlorooctane		106 %	70-13	0		"	"	"	
Surrogate: 1-Chlorooctadecane		75.6 %	70-13	0	"	"	n	"	

Environmental Lab of Texas

Environmental Plus, Incorporated	Project:	Chevron USA/ Lov. San Andres Unit #40	Fax: 505-394-2601
P.O. Box 1558	Project Number:	200068	Reported:
Eunice NM, 88231	Project Manager:	Iain Olness	02/21/06 15:34

### General Chemistry Parameters by EPA / Standard Methods

**Environmental Lab of Texas** 

	<b>n</b> 1-	Reporting	77 '-		_	<u>.</u> .			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 2'-3' (6B09012-01) Soil									_
Chloride	42.2	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
% Moisture	0.1	0.1	%	1	EB61305	02/10/06	02/13/06	% calculation	
Sulfate	25.5	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
SB-1 5'-6' (6B09012-02) Soil									
Chloride	13.3	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
% Moisture	0.4	0.1	%	1	EB61305	02/10/06	02/13/06	% calculation	
Sulfate	23.1	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
SB-1 10'-11' (6B09012-03) Soil									
Chloride	127	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
% Moisture	0.3	0.1	%	1	EB61305	02/10/06	02/13/06	% calculation	
Sulfate	42.4	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
SB-2 2'-3' (6B09012-04) Soil						<u> </u>			
Chloride	126	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
% Moisture	ND	0.1	%	1	EB61305	02/10/06	02/13/06	% calculation	
Sulfate	41.0	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
SB-2 5'-6' (6B09012-05) Soil									
Chloride	30.4	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
% Moisture	0.3	0.1	%	1	EB61305	02/10/06	02/13/06	% calculation	
Sulfate	17.6	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
SB-2 10'-11' (6B09012-06) Soil									
Chloride	9.94	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
% Moisture	0.5	0.1	%	1	EB61305	02/10/06	02/13/06	% calculation	
Sulfate	18.5	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
SB-3 2'-3' (6809012-07) Soil			-						
Chloride	44.5	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
% Moisture	0.1	0.1	%	1	EB61305	02/10/06	02/13/06	% calculation	
Sulfate	40.3	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	

Environmental Lab of Texas

Environmental Plus, Incorporated	Project:	Chevron USA/ Lov. San Andres Unit #40	Fax: 505-394-2601
P.O. Box 1558	Project Number:	200068	Reported:
Eunice NM, 88231	Project Manager:	Iain Olness	02/21/06 15:34

### General Chemistry Parameters by EPA / Standard Methods

### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 5'-6' (6B09012-08) Soil									
Chloride	37.5	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	
% Moisture	0.1	0.1	%	1	EB61305	02/10/06	02/13/06	% calculation	
Sulfate	48.8	5.00	mg/kg	10	EB62012	02/20/06	02/20/06	EPA 300.0	

Environmental Lab of Texas

Project: Chevron USA/ Lov. San Andres Unit #40 Project Number: 200068 Project Manager: Iain Olness

### **Reported:** 02/21/06 15:34

### **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61031 - Solvent Extraction (GC										
Blank (EB61031-BLK1)				Prepared: (	)2/10/06 Ai	nalyzed: 02	2/13/06			
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	11							
Total Hydrocarbon C6-C35	ND	10.0	11							
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	70-130			
Surrogate: 1-Chlorooctadecane	35.2		"	50.0		70.4	70-130			
LCS (EB61031-BS1)				Prepared: (	02/10/06 Ai	nalyzed: 02	2/13/06			
Carbon Ranges C6-C12	465	10.0	mg/kg wet	500		93.0	75-125	-		
Carbon Ranges C12-C28	525	10.0	**	500		105	75-125			
Fotal Hydrocarbon C6-C35	990	10.0	"	1000		99.0	75-125			
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	44.9		"	50.0		89.8	70-130			
Calibration Check (EB61031-CCV1)				Prepared: 0	02/10/06 Ai	nalyzed: 02	/13/06			
Carbon Ranges C6-C12	478		mg/kg	500		95.6	80-120			
Carbon Ranges C12-C28	563		"	500		113	80-120			
Total Hydrocarbon C6-C35	1040		11	1000		104	80-120			
Surrogate: 1-Chlorooctane	58.5		"	50.0		- 117	70-130			
Surrogate: 1-Chlorooctadecane	54.4		"	50.0		109	70-130			
Matrix Spike (EB61031-MS1)	Sou	rce: 6B09002	2-08	Prepared: (	02/10/06 Ai	nalyzed: 02	/13/06			
Carbon Ranges C6-C12	578	10.0	mg/kg dry	569	ND	102	75-125			
Carbon Ranges C12-C28	631	10.0	"	569	ND	111	75-125			
Total Hydrocarbon C6-C35	1210	10.0	"	1140	ND	106	75-125			
Surrogate: 1-Chlorooctane	60.4		mg/kg	50.0	· -	121	70-130		·	
Surrogate: 1-Chlorooctadecane	49.6		"	50.0		<i>99.2</i>	70-130			

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 8 of 14
Organics by GC - Quality Control					
Eunice NM, 88231	Project Manager:	Iain Olness	02/21/06 15:34		
P.O. Box 1558	Project Number:	200068	Reported:		
Environmental Plus, Incorporated	Project:	Chevron USA/ Lov. San Andres Unit #40	Fax: 505-394-2601		

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61031 - Solvent Extraction (GC	C)									
Matrix Spike Dup (EB61031-MSD1)	Sour	 ce: 6B09002	-08	Prepared: (	02/10/06 A	nalyzed: 02	/13/06			
Carbon Ranges C6-C12	564	10.0	mg/kg dry	569	ND	99.1	75-125	2.45	20	-
Carbon Ranges C12-C28	640	10.0		569	ND	112	75-125	1.42	20	
Fotal Hydrocarbon C6-C35	1200	10.0	"	1140	ND	105	75-125	0.830	20	
Surrogate: 1-Chlorooctane	59.5	· ·	mg/kg	50.0		119	70-130		·	
hurrogate: 1-Chlorooctadecane	48. I		"	50.0		96.2	70-130			
Batch EB61503 - EPA 5030C (GC)										
				Prepared &	Analyzed:	02/15/06				
Benzene	ND	0.0250	mg/kg wet							
oluene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Sylene (p/m)	ND	0.0250	"							
Sylene (0)	ND	0.0250								
urrogate: a,a,a-Trifluorotoluene	35.4		ug/kg	40.0		88.5	80-120			
urrogate: 4-Bromofluorobenzene	34.9		"	40.0		87.2	80-120			
.CS (EB61503-BS1)				Prepared: 0	)2/15/06 Ai	nalyzed: 02	/16/06			
Benzene	2.59	0.0250	mg/kg wet	2.50		104	80-120			
oluene	2.77	0.0250	"	2.50		111	80-120			
thylbenzene	2.92	0.0250	**	2.50		117	80-120			
Sylene (p/m)	5.28	0.0250		5.00		106	80-120			
(ylene (o)	3.00	0.0250	н	2.50		120	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.6		ug/kg	40.0		104	80-120			
urrogate: 4-Bromofluorobenzene	33.9		"	40.0		84.8	80-120			
Calibration Check (EB61503-CCV1)				Prepared &	Analyzed:	02/15/06				
Benzene	106		ug/kg	100		106	80-120			
oluene	110		и	100		110	80-120			
thylbenzene	102		н	100		102	80-120			
(ylene (p/m)	187		**	200		93.5	80-120			
Tylene (0)	99.8		"	100		99.8	80-120			
urrogate: a,a,a-Trifluorotoluene	41.9		"	40.0		105	80-120			
urrogate: 4-Bromofluorobenzene	33.9		"	40.0		84.8	80-120			

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 9 of 14

Project: Chevron USA/ Lov. San Andres Unit #40 Project Number: 200068 Project Manager: Iain Olness Fax: 505-394-2601 Reported:

02/21/06 15:34

### **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61503 - EPA 5030C (GC)										
Matrix Spike (EB61503-MS1)	Sour	ce: 6B09002	-04	Prepared: (	02/15/06 Ai	nalyzed: 02	/16/06			
Benzene	2.93	0.0250	mg/kg dry	2.96	ND	99.0	80-120			
Toluene	3.46	0.0250	"	2.96	ND	117	80-120			
Ethylbenzene	3.55	0.0250	"	2.96	ND	120	80-120			
Xylene (p/m)	6.50	0.0250	"	5.92	ND	110	80-120			
Kylene (0)	3.55	0.0250	"	2.96	ND	120	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.2		ug/kg	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.5	80-120			
Matrix Spike Dup (EB61503-MSD1)	Sour	ce: 6B09002	-04	Prepared: (	)2/15/06 Ai	nalyzed: 02	/16/06			
Senzene	3.04	0.0250	mg/kg dry	2.96	ND	103	80-120	3.96	20	
Toluene	3.23	0.0250		2.96	ND	109	80-120	7.08	20	
Ethylbenzene	3.32	0.0250	u	2.96	ND	112	80-120	6.90	20	
Kylene (p/m)	5.97	0.0250	**	5.92	ND	101	80-120	8.53	20	
Xylene (0)	3.54	0.0250	"	2.96	ND	120	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	38.4		ug/kg	40.0		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	39.4		"	40.0		98.5	80-120			

#### Batch EB61508 - EPA 5030C (GC)

Blank (EB61508-BLK1)				Prepared & Anal			
Benzene	ND	0.0250	mg/kg wet				
Toluene	ND	0.0250	"				
Ethylbenzene	ND	0.0250	11				
Xylene (p/m)	ND	0.0250					
Xylene (0)	ND	0.0250	н				
Surrogate: a,a,a-Trifluorotoluene	39.1		ug/kg	40.0	97.8	80-120	
Surrogate: 4-Bromofluorobenzene	32.0		"	40.0	80.0	80-120	

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 10 of 14

Project: Chevron USA/ Lov. San Andres Unit #40 Project Number: 200068 Project Manager: Iain Olness Fax: 505-394-2601

**Reported:** 02/21/06 15:34

### **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB61508 - EPA 5030C (GC)										
LCS (EB61508-BS1)				Prepared &	Analyzed:	02/15/06				
Benzene	2.49	0.0250	mg/kg wet	2.50		99.6	80-120			
Toluene	2.90	0.0250	*	2.50		116	80-120			
Ethylbenzene	2.99	0.0250	н	2.50		120	80-120			
Xylene (p/m)	5.34	0.0250	**	5.00		107	80-120			
Xylene (0)	2.99	0.0250	"	2.50		120	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.9		ug/kg	40.0		94.8	80-120			
Surrogate: 4-Bromofluorobenzene	35.1		"	40.0		87.8	80-120			
Calibration Check (EB61508-CCV1)				Prepared: (	02/15/06 A	nalyzed: 02	2/16/06			
Benzene	104		ug/kg	100		104	80-120	··		
Toluene	110		•	100		110	80-120			
Ethylbenzene	108		"	100		108	80-120			
Xylene (p/m)	193		н	200		96.5	80-120			
Xylene (o)	111		"	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.9		"	40.0		102	80-120	-		
Surrogate: 4-Bromofluorobenzene	37.1		"	40.0		92.8	80-120			
Matrix Spike (EB61508-MS1)	Sou	rce: 6B09012	-08	Prepared: (	02/15/06 A	nalyzed: 02	/16/06			
Benzene	2.61	0.0250	mg/kg dry	2.50	ND	104	80-120			
Tolucne	2.78	0.0250	**	2.50	ND	111	80-120			
Ethylbenzene	2.78	0.0250		2.50	ND	111	80-120			
Xylene (p/m)	4.94	0.0250	**	5.01	ND	98.6	80-120			
Xylene (o)	2.80	0.0250	"	2.50	ND	112	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.0		ug/kg	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	36.4		"	40.0		91.0	80-120			
Matrix Spike Dup (EB61508-MSD1)	Sou	rce: 6B09012	-08	Prepared: 0	02/15/06 A	nalyzed: 02	/16/06			
Benzene	2.63	0.0250	mg/kg dry	2.50	ND	105	80-120	0.957	20	
Tolucne	2.81	0.0250	н	2.50	ND	112	80-120	0.897	20	
Ethylbenzene	2.83	0.0250	"	2.50	ND	113	80-120	1.79	20	
Xylene (p/m)	5.05	0.0250		5.01	ND	101	80-120	2.40	20	
Xylene (0)	2.88	0.0250		2.50	ND	115	80-120	2.64	20	
Surrogate: a.a.a-Trifluorotoluene	42.1		ug/kg	40.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	39.5		"	40.0		98.8	80-120			

Environmental Lab of Texas

**Reported:** 02/21/06 15:34

### General Chemistry Parameters by EPA / Standard Methods - Quality Control

### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61305 - General Preparation (I	rep)									
Blank (EB61305-BLK1)				Prepared: (	2/10/06 A	nalyzed: 02	/13/06			
% Solids	100		%							
Duplicate (EB61305-DUP1)	Sou	rce: 6B09009-	01	Prepared: (	02/10/06 A	nalyzed: 02	/13/06			
% Solids	97.2		%		96.6			0.619	20	
Duplicate (EB61305-DUP2)	Sou	rce: 6B09016-	06	Prepared: 0	2/10/06 A	nalyzed: 02	/13/06			
% Solids	90.4	-	%		94.9			4.86	20	
Duplicate (EB61305-DUP3)	Sou	rce: 6B10001-	09	Prepared: 0	2/10/06 A	nalyzed: 02	/13/06			
% Solids	95.1		%		95.4			0.315	20	
Duplicate (EB61305-DUP4)	Sou	rce: 6B10005-	05	Prepared: 0	2/10/06 A	nalyzed: 02	/13/06			
% Solids	73.9		%		75.0			1.48	20	
Batch EB62012 - Water Extraction										
Blank (EB62012-BLK1)				Prepared &	Analyzed:	02/20/06				
Sulfate	ND	0.500	mg/kg							
Chloride	ND	0.500								
LCS (EB62012-BS1)				Prepared &	Analyzed:	02/20/06				
Chloride	8.66	0.500	mg/kg	10.0	-	86.6	80-120			
Sulfate	8.48	0.500	"	10.0		84.8	80-120			
Calibration Check (EB62012-CCV1)				Prepared &	Analyzed:	02/20/06				
Chloride	8.83		mg/L	10.0		88.3	80-120			
Sulfate	8.96		"	10.0		89.6	80-120			

Environmental Lab of Texas

Environmental Plus, Incorporated	Project:	Chevron USA/ Lov. San Andres Unit #40	Fax: 505-394-2601
P.O. Box 1558	Project Number:	200068	Reported:
Eunice NM, 88231	Project Manager:	lain Olness	02/21/06 15:34

### General Chemistry Parameters by EPA / Standard Methods - Quality Control

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB62012 - Water Extraction										
Duplicate (EB62012-DUP1)		ce: 6B09012-		Prepared &						
Chloride	44.7	5.00	mg/kg		42.2			5.75	20	-
Sulfate	26.8	5.00	11		25.5			4.97	20	

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02/21/06 15:34

#### Notes and Definitions

DET	Analyte DETECTED

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Raland K think

Date: 2/21/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

Report Approved By:

	-
Inc.	
Plus,	88231
ental	, Eunice, NM
ronme	renue O, Eu
Envir	100 Aver
	~

33

Chain of Custody Form LAB: ELT

Eunice, NM 88231	FAX: (505) 394-2601
Avenue O, E	394-3481
2100	(205)

WI 8823	
NN	
Eunice,	
1558, E	
Box	
0 O	

(505) 394-3481	FAX: (505) 394-2601																	:				
<b>Company Name</b>	Environmental Plus, Inc	ntal Plus,	ģ								811	Bill To				MM	ANALYSIS REQUEST	SIS	REG	ΞÐ	31	
EPI Project Manager	ager lain Olness																_					
Mailing Address	P.O. BOX 1558	558								i i i i i i i i i i i i i i i i i i i	=					_						
City, State, Zip	Eunice New Mexico 882	v Mexico 8	8231						"	ш Ттт	0. 0.											
EPI Phone#/Fax#	± 505-394-3481 / 505-394-2601	81 / 505-39	)4-2E	5						F	╲	1						-				
Client Company	Chevron USA	A								niningi Tabi												
Facility Name	Lov. San Andres Unit #	ndres Unit	#40											******								
Location	UL-H, Sec. 01, T 17 S, R	01, T 17 S	E E	36 E					A	tt	lain	Attn: Iain Olness										
Project Reference	ce 200068									6	Box	PO Box 1558										
EPI Sampier Name	ne George Blackburn	Ickburn							ш	Inic	S, S	Eunice, NM 88231										
			•			MATRIX	RIX		₽.	PRESERV.	Ч. К	SAMPLING	٨G									
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-02 2	2 SB-1 (5'-6')			- [		X			_	X		08-Feb-06	8:51	X	×	×	X					
-03 3	3 SB-1 (10'-11')			+		×				×		08-Feb-06	9:03	X	×	×	×	_				
-64 4	4 SB-2 (2'-3')			-		×				×		08-Feb-06	9:15	×	×	×	×		_			
5 9 9 9	5 SB-2 (5'-6')			-		×		_		×		08-Feb-06	9:19	X	×	×	×					
-010 G	6 SB-2 (10'-11')		_	-		×				×		08-Feb-06	9:28	×	×	×	×					
-01 7	7 SB-3 (2'-3')			-	_	×				×		08-Feb-06	9:35	×	×	×	×					
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Page 1 of 1

# Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

lient	EPI
)ate/Time:	2 9/06 12:56
Drde: #:	UB09012
nitials:	CK

## Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	2.0	CI
Shipping container/cooler in good condition?	হৈছে ।	No_		
Custody Seals intact on shipping container/cooler?	Yes	No	<u>Mcroresent</u>	
Custody Seals intact on sample bottles?	Yeg	No	Not present	İ
Dhain of custody present?	Xes	No		
Sample Instructions complete on Chain of Custody?	125	No		ļ
Chain of Custody signed when relinguished and received?	(Caling	No		}
Chain of custody agrees with sample label(s)	255	No		
Container labels legible and intact?	Xes	No		
Sample Matrix and properties same as on chain of custody?	(CB)	No		]
Samples in procer container/bottle?	(es	No		· 1
Samples properly preserved?	2555	No		
Sample bottles intact?	(কিয়	No		
Preservations documented on Chain of Custody?	1 KG	No	1	
Containers documented on Chain of Custody?	Xes	No		i
Sufficient sample amount for indicated test?	Es	No		ĺ
All samples received within sufficient hold time?	Kes	Na		
VOC samples have zero headspace?	(es)	No	Not Applicabl	e

\_\_\_\_\_

Other observations:

# **APPENDIX III**

# **SOIL BORING LOGS**

					L	_og	Of Tes	st Borings (NOTE - Page 1 of 1)
_84							Proje	ct Number: 200068
	<u>\</u>	Еnvi		NTAL F	LUS, It	NC.	Proje	ct Name: Lovington San Andres #40
	7	REM	EDIAL	CONSTRU			Locati	on: UL , Section 1, Township 17 South, Range 36 East
			505-3	94-3481	100		Boring	Number: SB-1 Surface Elevation: 3825-feet amsl
Time	Sample Type	Recovery (inches)	Maisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Svmbol	Jepth Jepth (feet)	Start Date: <u>2-08-06</u> Time: <u>0845hrs</u> Completion Date: <u>2-08-06</u> Time: <u>0913hrs</u> Description
0845	22	12		.5	160			
)								2' White Caliche rock
0851	22	12		.4	160		; 	5 5' light brown sand
							1	
0903	22	12		.4	160			10' light brown sand           End of Soil Boring at 11' bgs
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						) 		
								5
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							3	
	[					L		
Date		ie Sa	mple pth	Casing Depth	s (feet Cave-li Depth	nlW	evel -	Drilling Method: HSA 3.5' ID
-	+ -		-		-	+	-	Backfill Method: Bentonite
					<u> </u>			Teld Representative: GB

					L	.09	Of Tes	t Borings (NDTE - Page 1 of 1)
							Projec	t Number: 200068
	5	Еичі			, Lus, Ii	NC.		t Name: Lovington San Andres #40
		REM	EDIAL I	.TING AN CONSTRU NE∀ ME>			Locatio	n: UL , Section 1, Township 17 South, Range 36 East
	r	E	505-39	94-3481	AICU.		Boring I	Number: SB-2 Surface Elevation: 3825-feet amsl
Time	Sample Type	Recovery (inches)	Maisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Jepth (feet)	Start Date: <u>2-08-06</u> Completion Date: <u>2-08-06</u> Time: <u>0938hrs</u> Description
0925	ss	12		.3	240			-
							 	2' White Callche rock
0929	SS	12		.1	160		5	5' Caliche
0928	52	12	<u> </u>	.1	160			10' light brown sand           End of Soil Boring at 11' bgs
-							-	
			]					
							15	
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		<u>}</u>					_ <del> </del> _	-
					s (feet		n.	lling Method: HSA 3.5' ID
Date	Tim	ie So De	mple pth	Casing Depth	Cave-l Depth	n   W		
-	-	·	-					lackfill Methodi Bentonite
							FI	ield Representative: GB

					L	.09	Of Te	st Borings (NOTE - Page 1 of 1	>
	).						Proje	ect Number: 200068	
		Еилі		NTAL F	LUS, IN	VC.	Proje	ct Name: Lovington San Andres #40	
		REM	EDIAL	LTING AN CONSTRU NEW MEX	ICTION		Locat	ion: UL , Section 1, Township 17 South, Range 36 Ed	ast
	r	EL	505-3	94-3481	VICU		Boring	Number: SB-3 Surface Elevation: 3825-feet	amsl
Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Jepth (feet)	Start Date: <u>2-08-06</u> Time: <u>0935hrs</u> Completion Date: <u>2-08-06</u> Time: <u>0950k</u> Description	nrs
0945	52	12		.1	200				_
								2' White Callche rock	/ 
0950	52	12		.1	160			5 5' Caliche End of Soil Boring at 6' bgs	/_
							1	0	
					i				_
			1					5 —	
							E		_
							2	.0	
									_ _
									_
							3	0	
					s (feet			 Drilling Method: HSA 3.5' ID	
Date	Tim	De	mple pth	Casing Depth	Cave-1 Depth		evel	Backfill Methodi Bentonite	
-			-	-	-		-		
								Fleld Representative: GB	

# **APPENDIX IV**

# INFORMATION AND METRICS FORM INITIAL NMOCD FORM C-141 FINAL NMOCD FORM C-141

	Chevron	Incident	Date:	NMOCD N	lotified
		12/11/05 @		12/11/05 @	
			10.007 101	12/11/05 @	11.007.001
Informat	ion and Metrics				
	n San Andres Unit #40		Assigned Site	Reference : NM	IOCD 1RP#1228; EPI #200068
	Chevron USA, Inc.				
	s: 2401 Avenue 'O'				
Mailing Addro	ess: P.O. Box 1949				
	<b>p:</b> Eunice, New Mexico	o 88231			
	e: Larry Williams				
Representativ	e Telephone: (505) 396-4	414, ext. 128			
Telephone:					
Fluid volume	released (bbls): 20-bbls		Recov	ered (bbls): Ze	ro (0)
	>25 bbls: Notify NM		within 24 hrs and 10rized releases >		
<u>5 25</u>	· · · · ·				Gas) ies of 50-500 mcf Natural Gas)
	Pit (LSP) Name: Lovin			autionizeu releas	to or 30-300 mer reatural Gasj
	tamination: Injection wel		5 UIII #40		
	i.e., BLM, ST, Fee, Other		naton	·····	
Land Owner, LSP Dimensio		City of Lovi	Igton		
LSP Dimensio LSP Area: ~5.					
	eference Point (RP):				
	ince and direction from F	)p.			
Latitude: N 3		<u>u.</u>		<u></u>	
	/ 103° 18' 05.18"				
	ve mean sea level: 3,820	-feet			
	th Section Line:	1001			
	t Section Line:			a	
	t or 1/41/4: SE1/4 of the NE	1/4	Unit Letter:	: H	
Location-Sect					······
Location- Tow	vnship: 17 South				
Location- Ran					
·					
Surface water	body within 1000 ' radiu	is of site: non	e		
Domestic wate	er wells within 1000' radi	us of site: non	ie		
Agricultural w	vater wells within 1000' r	adius of site:	one		
Public water s	upply wells within 1000'	radius of site:	none		
	nd surface to groundwat		feet		
	mination (DC): unknow				
	ndwater (DG – DC = DtC				· · · · · · · · · · · · · · · · · · ·
	Groundwater		ellhead Protection		3. Distance to Surface Water Body
	<50 feet: 20 points		m water source,		<200 horizontal feet: 20 points
f Depth to GW	7 50 to 99 feet: 10 points		stic water source		200-1000 horizontal feet: 10 point:
f Depth to GW	<pre>&gt;100 feet: 0 points</pre>		m water source, stic water source	,	>1000 horizontal feet: 0 points
Site Rank $(1+2)$	+3) = 10 + 0 + 0 = 10				1
<u>_</u>		ite Ranking So	core and Accept	table Concentra	tions
Parameter	>19		10-19		0-9
Benzene <sup>1</sup>	10 ppm		10 ppm		10 ppm
	50 ppm		50 ppm		50 ppm
BLEX.	L. Contract				
BTEX <sup>1</sup>	100 ppm		1,000 ppn	n	5,000 ppm

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>	State of New Mexico Energy Minerals and Natural Resources	Form C-141 Revised October 10, 2003
<ul> <li>1301 W. Grand Avenue, Artesia, NM 88210</li> <li><u>District III</u></li> <li>1000 Rio Brazos Road, Aztec, NM 87410</li> <li><u>District IV</u></li> <li>1220 S. St. Francis Dr., Santa Fe, NM 87505</li> </ul>	Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form
Releas	e Notification and Corrective Action	

OPERA	TOR 🛛 🛛 Initial Report 🗍 Final Report
Name of Company: Pure Resources, LP	Contact: Wayne Minchew
Address: 500 W. Illinois Ave., Midland Texas 79702	<b>Telephone No.:</b> (505) 396-4414
Facility Name: Lovington San Andres Unit #40	Facility Type: Injection well
Surface Owner: City of Lovington, NM Mineral O	wner: State of New Mexico API No.: 30-025-05360
Burrace Owner. City of Lovington, Ivivi Infineral O	ALT 110 50-025-05500

				LOCATION	OF RELEASE			
Unit Letter H	Section 1	Township 17S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea

NATURE OF	RELEASE		
Type of Release: Produced water	Volume of Release: 20-bbls	Volume R	ecovered: none
Source of Release: Poly flow line froze and burst	Date and Hour of Occurrence:		Hour of Discovery:
	12/11/05 @ 10:00 AM	12/11/05 @	) 11:30 AM
Was Immediate Notice Given?	If YES, To Whom?		
🛛 Yes 🗌 No 🗌 Not Required	Sylvia Dickey		
By Whom? Wayne Minchew	Date and Hour: 12/12/05 @1:00	PM	
Was a Watercourse Reached?	If YES, Volume Impacting the V	Vatercourse:	-
🗌 Yes 🖾 No	Not Applicable		
If a Watercourse was Impacted, Describe Fully,* Not Applicable			·
Depth to Groundwater: ~56 feet Describe Cause of Problem and Remedial Action Taken.* Approxima	tal. 20 handle of an hand water we		en e note Gen l'e e
froze and burst (used to flow back well prior to pulling). Zero (0) barrels			
Approximately 5,100 square feet of surface area was affected by the rele			
disposal facility.	ase. Impleted son was excurated and	onsposed at a	orate approved faile
Describe Area Affected and Cleanup Action Taken.* Release area is t	o be delineated and impacted soil rem	oved as neces	sarv.
I hereby certify that the information given above is true and complete to			
and regulations all operators are required to report and/or file certain re			
endanger public health or the environment. The acceptance of a C-14			
operator of liability should their operations have failed to adequately in			
surface water, human health or the environment. In addition, NMOCD		relieve the op	perator of responsibility
for compliance with any other federal, state, or local laws and/or regulati		TION DIV	TEION
	OIL CONSERVA	TION DIV	1310IN
Signature: any hallem	/		
	Approved by District Supervisor:		
Printed Name: Larry Williams			
Title: HES Champion	Approval Date:	Expiration )	Date:
E-mail Address: lcwl@chevron.com	Conditions of Approval:		
Lorman Audi css. ICWR@ChCVIOB.COM	Conomons of Approval:		Attached
<b>Date:</b> 12/12/2005 <b>Phone:</b> (505) 396-4414			
Ext. 128			

\* Attach Additional Sheets If Necessary

## MATHDE GEDELEASE

# 

<u>District I</u> 1625 N. French D	r., Hobbs, NM	88240				New Mexico and Natural Re			Form C-141 Revised October 10, 2003
<u>District II</u> 1301 W. Grand A	venue, Artesia	, NM 88210		0.				Cubmit	2 Copies to appropriate
<u>District III</u> 1000 Rio Brazos I	Road, Aztec, N	IM 87410				vation Divisi			ct Office in accordance
<u>District IV</u> 1220 S. St. Franci	is Dr., Santa Fo	e. NM 87505				e, NM 87505	J1.		with Rule 116 on back side of form
		<u> </u>	Istanti	Section attace					
		4, 49, 11	75 88 CM ( )	OPERA				Report	Final Report
Name of Co	ompany: (	Chevron		UI ERA		Contact: Larr		Kepon 2	That Report
Address: P			, NM 88	8231		Telephone N	· · · · · · · · · · · · · · · · · · ·		
Facility Na	me: Lovin	gton San A	Andres I	Jnit #40		Facility Type	: Injection well		
Surface Ov	vner: City	of Loving	ton	Mineral O	wne	r: City of Lov	rington	API No.	: 30-025-03813
		0		COCATION					
Unit Letter H	Section 1	Township 17S	Range 36E	Feet from the		rth/South Line	Feet from the	East/West Li	ne County Lea
	L		L	<u> </u>		· · · · · · · · · · · · · · · · · · ·	L I	<u> </u>	······································
		Lat	itude: <u>N</u>	<u>1 32° 51' 57.45"</u>					
Type of Relea			·····			Volume of Re	lease: unknown		ecovered: none
Source of Rel	ease: Injectio	on well				Date and Hou unknown	r of Occurrence:	Date and I unknown	Hour of Discovery:
Was Immedia	ate Notice Gi					If YES, To W			
		X	Yes	No 🗌 Not Requ	ired	Pat Caperton,			
By Whom? Was a Water	course Reac	hed?		- <u></u>		Date and Hou	r: unknown ne Impacting the	Watercourse:	
was a water	course Reac		Yes 🛛	No		Not Applicable		water course.	
If a Watercou	arse was Imp	pacted, Desc	ribe Full	y.* Not Applicable		l			
Depth to Gro									
				ion Taken.* An un as completed by an			luced water was re	leased when a f	low-line failed. Zero
Describe Are	a Affected a	nd Cleanup	Action <b>T</b>	aken.* Approxima	ately :	5,100 square feet			ne release. On February
									to delineate the vertical ove NMOCD remedial
threshold goal	ls were excav	ated. EPI ba	ckfilled t	he excavation with	appro	oximately 160 ye	ls <sup>3</sup> of clean top soi	<ol> <li>Entire disturb</li> </ol>	bed area was graded for
				preferred by the NN			nowledge and und	erstand that pur	suant to NMOCD rules
									for releases which may
									rt" does not relieve the threat to ground water,
									perator of responsibility
for compliance	e with any ot	her federal, s	state, or lo	ocal laws and/or reg	ulatio		U. COMERN		
$\frown$	$\checkmark$	/	<u> </u>	10:		<u> </u>	<u>OIL CONSERV</u>	ATION DIV	ISION
Signature:	K.C.L	-12	/ k	Al-com	eg	1	Erturke (	AGR	
Printed Name	e: Larry Will	iams				Approved by Di	strict Supervisor	-3 Li	<u>132-</u>
Title: HES C	hampion					Approval Date:	5.15.07	Expiration	Date: 6.1507
E-mail Addre	ess: larry.will	liams@chev1	on.com			Conditions of A	pprovai:		Attached 🔲
Date: 3 1	2.07	Phone:							
Attach Add			cessary	<u> </u>		·····	<u> </u>		
			· J						
									a attern
									RP#R