

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
NM-98173

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
Devon Energy Production Company, LP

3a. Address  
20 N. Broadway, Ste 1500, Oklahoma City, OK 73102

3b. Phone No (include area code)  
405-235-3611

7. If Unit of CA/Agreement, Name and/or No.

NM-101348

8. Well Name and No  
Millman SE Federal #1

9. API Well No.  
30-015-30376

10. Field and Pool or Exploratory Area  
Parkway Morrow West

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2310' FNL & 660' FWL; UL E-33-T19S-R29E

11. Country or Parish, State  
EDDY

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Reclamation of
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Pit
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

1. Talon/LPE was retained by Devon Energy Corporation to address BLM requirements in the reclamation of the closed drilling pit at the Millman SE Federal #1. A total of 3,014.01 cubic yards of impacted soil from the former drilling pit was excavated and transported to Lea Land, LLC.

2. In June 2011, Talon/LPE remobilized to the location to continue the excavation as per BLM requirements. The impacted area of the location was subsequently excavated to prepare for the liner installation. The impacted area measured to be 370-feet long by 240-feet wide to a depth ranging from 3-7 feet deep. A total of 11,376 cubic yards of impacted soil was transported to CRI for disposal.

3. A trench was excavated on the boundaries of the closed drilling pit area and on September 20, 2011, upon approval from the BLM, a 36,000 square foot 20 Mil. liner was installed over the location. The edges of the liner was keyed into the ground a minimum of 3-feet below ground surface.

4. Native soil from Lea Land, LLC and a local borrow pit was transported to the location and placed over the top of the liner in a minimum of 3-feet. The soil lift was contoured to match the surrounding terrain and wind rows were installed over the location for erosion control.

5. The location will be seeded using the BLM approved seed mixture # 3 and 4.

**RECEIVED**

DEC 09 2011

**NMOCD ARTESIA**

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Roy White

Title Production Foreman

Signature

Date 11/15/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**Accepted for record**  
**NMOCD**



November 15, 2011

**Bureau of Land Management**

620 E. Green Street  
Carlsbad, NM 88220

Attention: Ms. Terry Gregston  
Environmental Protection Specialist

Subject: **Remediation and Closure Report**  
Devon Energy Corporation  
Millman SE Federal No. 1  
API# 30-015-30376

**AMARILLO**

921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

**ARTESIA**

408 West Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 575.746.8905

**AUSTIN**

911 West Anderson Lane  
Suite 202  
Austin, Texas 78757  
Phone 512.989.3428  
Fax 512.989.3487

**HOBBS**

318 East Taylor Street  
Hobbs, New Mexico 88240  
Phone 575.393.4261  
Fax 575.393.4658

**MIDLAND**

2901 State Hwy 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

**SAN ANTONIO**

11 Commercial Place  
Schertz, Texas 78154  
Phone 210.265.8025  
Fax 210.568.2191

**TULSA**

525 South Main Street  
Suite 535  
Tulsa, Oklahoma 74103  
Phone 918.742.0871  
Fax 918.382.0232

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

Dear Ms. Gregston,

Devon Energy Corporation has contracted Talon/LPE (Talon) to perform soil assessment and closure activities for the drilling pit located at the Millman SE Federal No. 1. The incident description, soil assessment, remediation activities and closure request are submitted herein.

**Background Information**

The Millman SE Federal No. 1 is located approximately thirty-two (32) miles southeast of Artesia, New Mexico. The legal location for the site is Section 33, Township 19 South and Range 29 East in Eddy County, New Mexico. More Specifically the latitude and longitude are 32.61818 North and -104.08634 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services the soil in this area is made up of Reeves-Gypsum land complex soils with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils underlain by gypsum and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S34-T19S-R29E. The depth to ground water in the area is reported to range from 60-feet to 115-feet deep with an average depth to water of 95' below ground surface (bgs). A copy of the referenced groundwater data obtained from the New Mexico State database is attached as Appendix I.

The ranking for this site is 10 based on the as following:

Depth to ground water	50'- 100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Toll Free: 866.742.0742  
www.talonlpe.com

The former drilling pit area was originally excavated to a depth of approximately 2-feet below land surface for this project. A total of 3,014.01 cubic yards of soil were excavated and transported to Lea Land, LLC for disposal at that time. Closure was then requested from the BLM. At BLM's request, the excavated drilling pit was subsequently divided into 14 grid sections, each 50-feet long by 50-feet wide. Samples from each grid section were obtained and sent to Cardinal Laboratories for analysis of total chlorides. Following a meeting with the client and BLM, a revised work plan was generated and submitted for approval.

On June 8, 2011 Ms. Terry Gregston of the BLM Carlsbad field office approved the revised work plan with stipulations. The referenced BLM stipulations and grid section site map of the drilling pit provided by the BLM are presented in Appendix II.

### **Groundwater Sampling Results**

On March 27, 2011 the Skylight Cave was entered and duplicate water samples were obtained for analytical testing and quality control purposes at the BLM's direction. The samples were transported the same day to Cardinal Laboratories for analysis of volatile organics (BTEX) per EPA Method 8021B; total Petroleum Hydrocarbons (TPH) per EPA Method 8015M; total dissolved solids (TDS) per Method 160.1; and total chlorides via Method SM 4500Cl-B. Complete copies of both lab reports, dated March 23, 2011, are attached hereto and are summarized in the following data table.

<u>Sample Location</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TDS</u>	<u>TPH</u> (mg/L)
Skylight Cave 1	ND*	1,550	5,570	ND
Skylight Cave 2	ND	1,600	5,520	ND

\*Not Detected within laboratory method detection limits

It is not unusual for shallow or perched groundwater in this area to have elevated indications of Total Dissolved Solids and Chlorides.

### **Actions Taken**

In June, 2011 Talon personnel mobilized to the site again to continue excavation on the closed drilling pit, per the BLM stipulations.

Multiple sampling and field testing events for chlorides using field titration methods were conducted during the excavation process. The excavation was expanded and then re-sampled several times based on the field testing results and BLM site inspections.

A buried trash pit was encountered in the sidewall of the excavation adjacent to the well location. At BLM's direction and upon client approval, the trash pit was excavated and transported to CRI, Inc. for disposal.

On August 18, 2011 Talon personnel mobilized to the site again for closure soil sampling activities on the sidewalls and bottom of the excavation per BLM requirements. Grab soil samples were collected and submitted for laboratory analysis. Based upon laboratory results and BLM direction, additional excavation was required.

On September 1, 2011 Talon personnel returned to the site for additional soil sampling activities on the remaining sidewalls of the excavation per BLM requirements. Grab soil samples were collected utilizing a hand auger and submitted for laboratory analysis.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided glassware and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for Total Chlorides via Method SM4500Cl-B. The complete laboratory reports are attached as Appendix III.

### **Analytical Results**

Analytical results received from Cardinal Laboratories are summarized below:

Sample date: August 18, 2011

<u>Sample</u>	<u>Location</u>	<u>Chlorides</u>
A-1	North-side wall	128 mg/kg
	East-side wall	32
A-2	North-side wall	272
	South-side wall	208
A-3	North-side wall	10,000
A-4	North-side wall	2,960
A-5	North-side wall	608
	West-side wall	64
	East-side wall	1,390
	Bottom	928

<u>Sample</u>	<u>Location</u>	<u>Chlorides</u>
B-1	North-side wall	4,960 mg/kg
	East-side wall	9,100
	South-side wall	14,400
	Bottom	304
B-2	West-side wall	304
	East-side wall	8,100
	South-side wall	432
	Bottom	160
B-5	East-side wall	80
	West-side wall	160
	Bottom	432
C-2	East-side wall	1,070
	South-side wall	3,800
	Bottom	1,570
C-3	South-side wall	2,680
	North-side wall	288
	Bottom	96
C-4	North-side wall	144
	South-side wall	64
	Bottom	80
C-5	South-side wall	64
	West-side wall	144
	Bottom	160

Sample date: September 1, 2011

<u>Sample</u>	<u>Location</u>	<u>Chlorides</u>
A-3	North-side wall	1,250
A-4	North-side wall	656
A-5	East-side wall	144

<u>Sample</u>	<u>Location</u>	<u>Chlorides</u>
B-1	North-side wall	96 mg/kg
	East-side wall	<16
	South-side wall	<16
B-2	East-side wall	208
C-2	East-side wall	208
	South-side wall	112
	Bottom	80
C-3	South-side wall	96

### **Remedial Actions**

In June, 2011 Talon personnel mobilized to the site to resume excavation of the closed drilling pit and downsizing of the location as previously described. The impacted soil was excavated to a depth of 3-7 feet below land surface in specific grid sections and transported to CRI for disposal in stages based upon resulting laboratory results. An approximate total of 11,376 cubic yards of contaminated soil were excavated and transported to CRI for disposal. The excavated area was left open until an approval from the BLM was granted to begin installation of the liner.

On September 20, 2011 Talon personnel began installing a composite 20 millimeter liner over the excavated area. The edges of the liner were keyed a minimum of 3-feet deep into a trench excavated at the boundaries of the former drilling pit.

The excavated area was subsequently backfilled to grade using new material backhauled from Lea Land, LLC and with material obtained from a local pit. This new fill material was placed over the top of the 20 millimeter liner in a 3-foot soil lift. The soil lift was contoured to match the surrounding terrain and wind rows were installed over location for erosion control. The location will be seeded using the recommended seed mixture for the area (BLM #4).

### **Conclusions and Recommendations**

- Ground water in the project vicinity is approximately 95-feet below land surface per the New Mexico State Engineer Database.
- Based on the depth to groundwater and the remedial actions as described herein, it is unlikely that the impacts identified from this former drilling pit will pose a threat to groundwater.

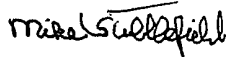
- The impacted area has been excavated to varying depths of 3-feet to 7-feet deep below land surface.
- The results of the sampling and analytical program were approved by the BLM prior to completion of field activities.
- Based upon the results of the sampling and analytical program, all chemical parameters tested for are reported to be less than their respective Recommended Remedial Action Levels (RRALs).

Therefore, on behalf of Devon Energy Corporation, we respectfully request that no further actions be required and that closure with respect to this release be granted.

Should you have any questions or if further information is required, please do not hesitate to contact us at 575.746.8768.

Respectfully submitted,

TALON/LPE



Mike Stubblefield  
Project Manager



David J. Adkins  
District Manager

**APPENDIX I**  
**GROUNDWATER DATA**





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Sub basin	Use	County	Q1	Q2	Q3	Q4	Sec	Tws	Rng	X	Y	Well	Depth Water	Depth Column
CP 00646		PRO	ED	1	1	4	07	19S	29E		583155	3615552*	199		
CP 00681		PRO	ED	1	1	3	34	19S	29E		587230	3609127*			
CP 00703		PRO	ED		4	1	36	19S	29E		590945	3609441*	200	115	85
CP 00739		PRO	ED	3	4	4	35	19S	29E		590046	3608532*	200	110	90
CP 00741		PRO	ED	1	3	2	34	19S	29E		588030	3609533*	230	60	170
CP 00820		STK	LE		2	4	13	19S	29E		591713	3613870*	120		
CP 00821		STK	LE		4	4	25	19S	29E		591743	3610248*	120		

Average Depth to Water: 95 feet

Minimum Depth: 60 feet

Maximum Depth: 115 feet

Record Count: 7

PLSS Search:

Township: 19S

Range: 29E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/3/10 7:20 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

**APPENDIX II**

**BLM STIPULATION OF APPROVAL**

**BLM GRID SECTION SITE MAP**

## David Adkins

---

**From:** Kuhnert, Nathan [Nathan.Kuhnert@dvni.com]  
**Sent:** Friday, June 10, 2011 3:15 PM  
**To:** David Adkins  
**Subject:** Fw: Millman 33 Federal #1.  
**Attachments:** Millman SE Federal 1-BLM pit closure schematics-060711.pdf

Hi David,

Let's try to find some time early next week to talk.

Thanks,

Nathan

---

**From:** tgregsto@blm.gov [mailto:tgregsto@blm.gov]  
**Sent:** Wednesday, June 08, 2011 02:32 PM  
**To:** Kuhnert, Nathan  
**Subject:** RE: Millman 33 Federal #1.

Mr. Kuhnert,

Attached you will find a pdf file with two schematics:

1. The first shows the sample points and the minimum depth at which chloride levels drop below 1,000ppm OR a depth of 4 feet and chloride levels remain elevated (whichever comes first).
2. Based on the above, a second schematic shows areas that need to be excavated to 0', 1', 2', or 4'. At 4', several of the areas remain too elevated in chlorides to close. In these areas, a dotted outline shows where a liner/clay cap installation should be placed.

As you can see from the submitted drawings, 3 areas do not need any further excavation to reach closure. 2 areas require only a 1 foot excavation. 3 areas require a 2 foot excavation. 6 areas require a 4 foot excavation and a liner installation.

The areas outlined on the schematics are "general". More surgical excavation on all the above areas can be conducted out in the field by running field titrations as the work progresses. Each area may be smaller or larger depending upon the field titrations and when those titrations indicate that areas of higher or lower chloride levels have been reached on a horizontal and vertical level. Sidewalls in the 4' foot excavation area should all be at 1,000ppm or less. Sidewalls in the 2' excavation area should be 1,000ppm or less. And so on.

The goal is to get all soils in the 0, 1, and 2 foot excavation areas down to closure levels or below and to extend the sidewalls of the 4 foot excavation area out until closure levels are reached in the side walls. At this point, the only area that should be 'hot' is the bottom of the 4 foot excavation. And that is what we want capped. It would probably be wise to extend the excavation at the 4 foot level out beyond the 4' foot "hot area" to be capped--in effect, you will want to make your cap slightly larger than the area to be capped so that the hottest areas are well covered by the cap. The BLM will need witnessed confirmation sampling of the sidewalls sent to a third party lab prior to closure of the excavation.

In this particular case, the liner should be slightly domed and the edges of the liner "keyed in". In other words, the edges of the liner installation should be trenched deeper than the surface of the cap so that the liner/clay cap is "tucked in" on all sides. The deeper you can make these side trenches, the better--because it prevents horizontal migration of moisture from flowing under the cap. The 'doming' of the cap enables moisture to migrate off the cap, rather than sitting and pooling atop it. In the event that a liner failure is developed (a crack or a root puncture of the liner), the doming ensures that the majority of the function of the cap is still intact. (As opposed to creating a water tight "pool" or sump area with the liner installation in which any crack or puncture of the liner would then serve as a "drain" of the water pool/sump directly into the contaminated soils underneath...which we most definitely do not want.)

Those are our thought processes so far on this site. If you have any questions, feel free to give me a call on my cell.

Terry Gregston  
Environmental Protection Specialist  
Bureau of Land Management  
620 E. Greene St.  
Carlsbad, NM 88220  
Office (575) 234-5958  
Cell (575) 361-2635  
Fax (575) 234-5927

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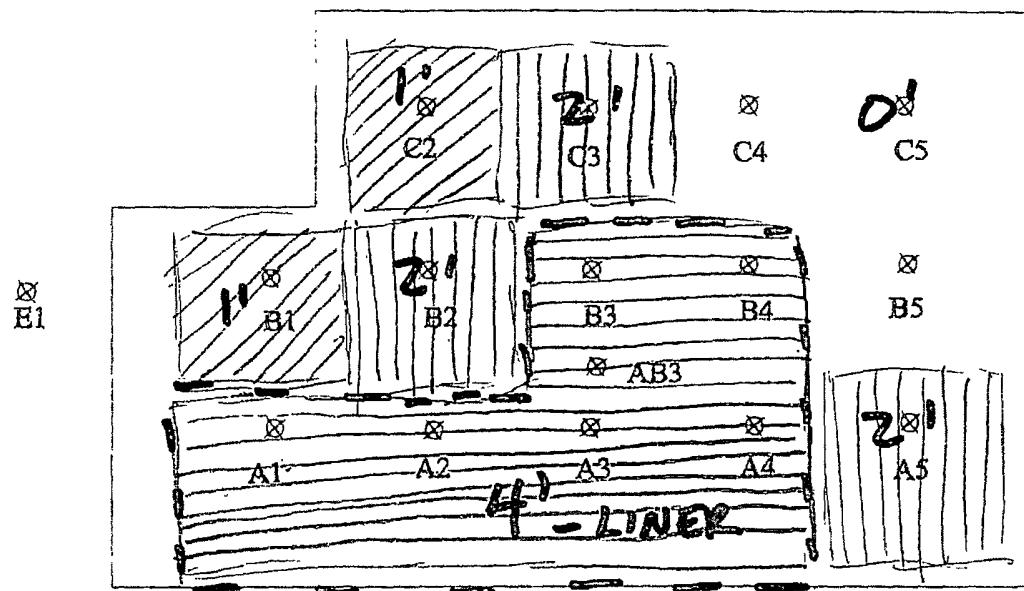
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Drilling Pit  
Boundary



0 25 50  
Scale in Feet



Legend

- X - Soil Sample Location
- A3 - Sample ID

**TALON**  
**LPE**

Date: 01/06/2011

Scale: 1" = 50'

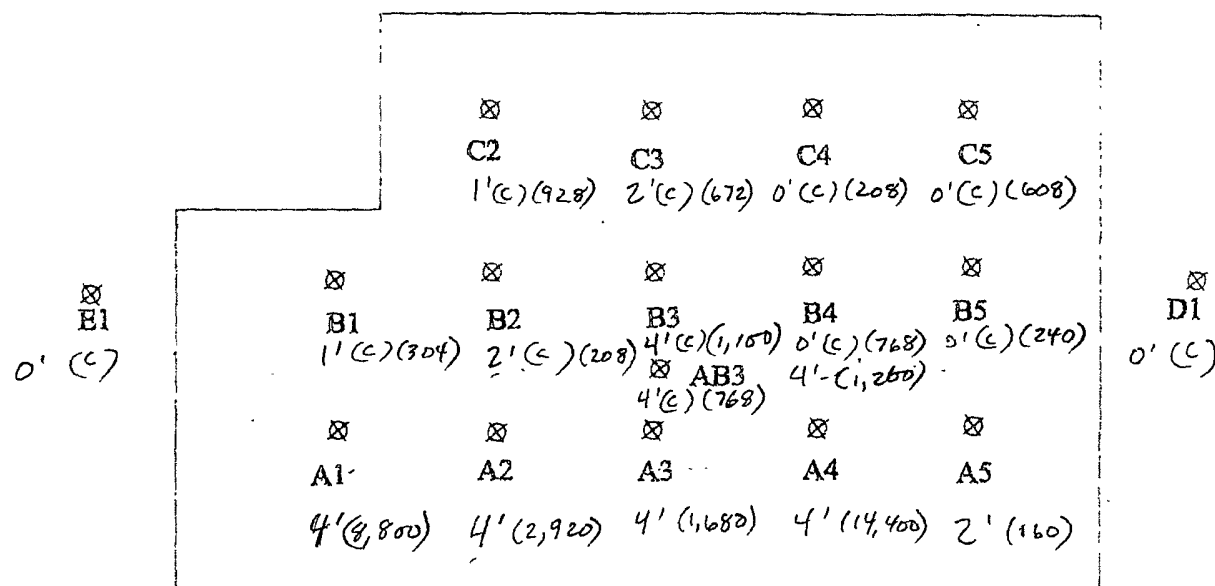
Drawn By: TJS

Millman SE Fed No. 1  
Eddy County  
Artesia, New Mexico  
Figure 1 - Site Plan

Drilling Pit  
Boundary



0 25 50  
Scale in Feet



Legend

- ⊗ - Soil Sample Location
- A3 - Sample ID

**TALON**  
**LPE**

Date: 01/06/2011

Scale: 1" = 50'

Drawn By: TJS

Millman SE Fed No. 1  
Eddy County  
Artesia, New Mexico  
Figure 1 - Site Plan

**APPENDIX III**  
**LABORATORY RESULTS**

March 23, 2011

CAROLYN MOORES

BLM

620 E. Greene

Carlsbad, NM 88220

RE: DEVON-MILLMAN

Enclosed are the results of analyses for samples received by the laboratory on 03/17/11 13:20.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

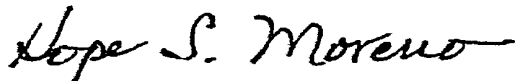
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Hope Moreno

Inorganic Technical Director



**Analytical Results For:**

BLM  
CAROLYN MOORES  
620 E. Greene  
Carlsbad NM, 88220  
Fax To: None

Received: 03/17/2011  
Reported: 03/23/2011  
Project Name: DEVON-MILLMAN  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/17/2011  
Sampling Type: Water  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SKYLIGHT CAVE 1 (H100514-01)**

BTEX 8260B			mg/L							Analyzed By: CMS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.001	0.001	03/18/2011	ND	0.023	114	0.0200	0.308			
Toluene*	<0.001	0.001	03/18/2011	ND	0.020	99.0	0.0200	2.25			
Ethylbenzene*	<0.001	0.001	03/18/2011	ND	0.020	100	0.0200	1.25			
Total Xylenes*	<0.003	0.003	03/18/2011	ND	0.062	103	0.0600	1.79			

Surrogate: Dibromofluoromethane 114 % 80-120

Surrogate: Toluene-d8 85.5 % 80-120

Surrogate: 4-Bromofluorobenzene 94.5 % 80-120

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	4.00	03/18/2011	ND	104	104	100	0.00		

TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	5570	5.00	03/22/2011	ND				4.60		

TPH 8015M			mg/L		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<1.00	1.00	03/18/2011	ND	25.0	100	25.0	1.87		
DRO >C10-C28	<1.00	1.00	03/18/2011	ND	26.7	107	25.0	0.221		

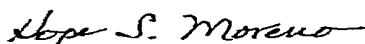
Surrogate: 1-Chlorooctane 97.3 % 70-130

Surrogate: 1-Chlorooctadecane 101 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Hope Moreno, Inorganic Technical Director

**Notes and Definitions**

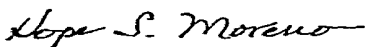
S-LOW	Low surrogate recovery confirmed as a matrix effect by a second analysis.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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Hope Moreno, Inorganic Technical Director

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

<b>Company Name:</b> TALON / LPE <b>Project Manager:</b> D. ADKINS <b>Address:</b> 400 W. TEXAS AVE <b>City:</b> Artesia NM <b>State:</b> <b>Zip:</b> <b>Phone #:</b> 575.441.4835 <b>Fax #:</b> <b>Project #:</b> <b>Project Owner:</b> <b>Project Name:</b> Devon - Millman <b>Project Location:</b> <b>Sampler Name:</b> Carolyn Moores + Aaron Stockton				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>													
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	BTEX	TPH	CI				
H000041	A-6 Skylight Cave 1	G	7	X						X			3/17/11	10:30	3	3	1				

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<b>Relinquished By:</b> Carolyn F. Moore <b>Relinquished By:</b> Delivered By: (Circle One) Sampler UPS - Bus - Other:	<b>Date:</b> 3/17/11 <b>Time:</b> 1:25 <b>Received By:</b> Andi Benson <b>Date:</b> <b>Time:</b>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>REMARKS:</b>	<b>Add'l Phone #:</b> <b>Add'l Fax #:</b>
<b>Sample Condition:</b> Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>CHECKED BY:</b> (Initials)	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

2 March 23, 2011

CAROLYN MOORES

BLM

620 E. Greene

Carlsbad, NM 88220

RE: DEVON-MILLMAN

Enclosed are the results of analyses for samples received by the laboratory on 03/17/11 13:05.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

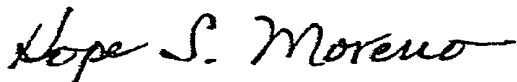
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Hope Moreno

Inorganic Technical Director

**Analytical Results For:**

BLM  
CAROLYN MOORES  
620 E. Greene  
Carlsbad NM, 88220  
Fax To: None

Received: 03/17/2011  
Reported: 03/23/2011  
Project Name: DEVON-MILLMAN  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/17/2011  
Sampling Type: Water  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SKYLIGHT CAVE 2 (H100515-01)**

BTX 8260B			mg/L							Analyzed By: CMS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.001	0.001	03/18/2011	ND	0.023	114	0.0200	0.308			
Toluene*	<0.001	0.001	03/18/2011	ND	0.020	99.0	0.0200	2.25			
Ethylbenzene*	<0.001	0.001	03/18/2011	ND	0.020	100	0.0200	1.25			
Total Xylenes*	<0.003	0.003	03/18/2011	ND	0.062	103	0.0600	1.79			

Surrogate: Dibromofluoromethane 115 % 80-120

Surrogate: Toluene-d8 85.9 % 80-120

Surrogate: 4-Bromofluorobenzene 93.3 % 80-120

Chloride, SM4500Cl-B			mg/L							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1600	4.00	03/18/2011	ND	104	104	100	0.00			

TDS 160.1			mg/L							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
TDS	5520	5.00	03/22/2011	ND				4.60			

TPH 8015M			mg/L							Analyzed By: CK/	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<1.00	1.00	03/18/2011	ND	25.0	100	25.0	1.87			
DRO >C10-C28	<1.00	1.00	03/18/2011	ND	26.7	107	25.0	0.221			

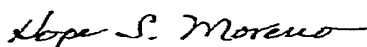
Surrogate: 1-Chlorooctane 116 % 70-130

Surrogate: 1-Chlorooctadecane 124 % 70-130

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Hope Moreno, Inorganic Technical Director

**Notes and Definitions**

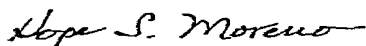
S-LOW	Low surrogate recovery confirmed as a matrix effect by a second analysis.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Hope Moreno, Inorganic Technical Director



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

August 22, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MILLMAN 33 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 08/19/11 12:44.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/19/2011	Sampling Date:	08/18/2011
Reported:	08/22/2011	Sampling Type:	Soil
Project Name:	MILLMAN 33 FEDERAL #1	Sampling Condition:	** (See Notes)
Project Number:	700794.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC.33-19S-29E		

**Sample ID: S - 1 A - 1 NORTHSIDE WALL (H101763-01)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/22/2011	ND	416	104	400	7.41	

**Sample ID: S - 2 A - 1 EASTSIDE WALL (H101763-02)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/22/2011	ND	416	104	400	7.41	

**Sample ID: S - 3 B - 1 NORTHSIDE WALL (H101763-03)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	08/22/2011	ND	416	104	400	7.41	

**Sample ID: S - 4 B - 1 EASTSIDE WALL (H101763-04)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9100	16.0	08/22/2011	ND	416	104	400	7.41	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/19/2011	Sampling Date:	08/18/2011
Reported:	08/22/2011	Sampling Type:	Soil
Project Name:	MILLMAN 33 FEDERAL #1	Sampling Condition:	** (See Notes)
Project Number:	700794.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC.33-19S-29E		

**Sample ID: S - 5 B - 1 SOUTHSIDE WALL (H101763-05) ✓**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	08/22/2011	ND	416	104	400	7.41	

**Sample ID: S - 6 B - 1 BOTTOM (H101763-06) ✓**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/22/2011	ND	416	104	400	7.41	

**Sample ID: S - 7 B - 2 WESTSIDE WALL (H101763-07) ✓**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/22/2011	ND	416	104	400	7.41	

**Sample ID: S - 8 B - 2 EASTSIDE WALL (H101763-08) ✓**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8100	16.0	08/22/2011	ND	416	104	400	7.41	

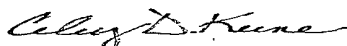
**Sample ID: S - 9 B - 2 SOUTHSIDE WALL (H101763-09) ✓**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/22/2011	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/19/2011	Sampling Date:	08/18/2011
Reported:	08/22/2011	Sampling Type:	Soil
Project Name:	MILLMAN 33 FEDERAL #1	Sampling Condition:	** (See Notes)
Project Number:	700794.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC.33-19S-29E		

**Sample ID: S - 10 B - 2 BOTTOM (H101763-10) ✓**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/22/2011	ND	448	112	400	0.00	

**Sample ID: S - 11 A - 2 NORTHSIDE WALL (H101763-11) ✓**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/22/2011	ND	448	112	400	0.00	

**Sample ID: S - 12 A - 2 SOUTHSIDE WALL (H101763-12) ✓**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/22/2011	ND	448	112	400	0.00	

**Sample ID: S - 13 C - 2 BOTTOM (H101763-13) ✓**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	08/22/2011	ND	448	112	400	0.00	

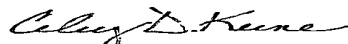
**Sample ID: S - 14 C - 2 EASTSIDE WALL (H101763-14) ✓**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	08/22/2011	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/19/2011	Sampling Date:	08/18/2011
Reported:	08/22/2011	Sampling Type:	Soil
Project Name:	MILLMAN 33 FEDERAL #1	Sampling Condition:	** (See Notes)
Project Number:	700794.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC.33-19S-29E		

**Sample ID: S - 15 C - 2 SOUTHSIDE WALL (H101763-15)** ✓

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	08/22/2011	ND	448	112	400	0.00		

**Sample ID: S - 16 C - 3 SOUTHSIDE WALL (H101763-16)** ✓

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	08/22/2011	ND	448	112	400	0.00	.	

**Sample ID: S - 17 C - 3 BOTTOM (H101763-17)** ✓

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/22/2011	ND	448	112	400	0.00	

**Sample ID: S - 18 C - 3 NORTHSIDE WALL (H101763-18)** ✓

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/22/2011	ND	448	112	400	0.00	


**Sample ID: S - 19 A - 3 NORTHSIDE WALL (H101763-19)** ✓

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	08/22/2011	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/19/2011	Sampling Date:	08/18/2011
Reported:	08/22/2011	Sampling Type:	Soil
Project Name:	MILLMAN 33 FEDERAL #1	Sampling Condition:	** (See Notes)
Project Number:	700794.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC.33-19S-29E		

**Sample ID: S - 20 C - 4 SOUTHSIDE WALL (H101763-20)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/22/2011	ND	448	112	400	0.00	

**Sample ID: S - 21 C - 4 BOTTOM (H101763-21)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/22/2011	ND	448	112	400	0.00	

**Sample ID: S - 22 C - 4 NORTHSIDE WALL (H101763-22)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/22/2011	ND	448	112	400	0.00	

**Sample ID: S - 23 A - 4 NORTHSIDE WALL (H101763-23)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	08/22/2011	ND	448	112	400	0.00	

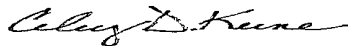
**Sample ID: S - 24 C - 5 SOUTHSIDE WALL (H101763-24)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/22/2011	ND	448	112	400	3.64	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/19/2011	Sampling Date:	08/18/2011
Reported:	08/22/2011	Sampling Type:	Soil
Project Name:	MILLMAN 33 FEDERAL #1	Sampling Condition:	** (See Notes)
Project Number:	700794.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC.33-19S-29E		

**Sample ID: S - 25 C - 5 BOTTOM (H101763-25) ✓**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/22/2011	ND	448	112	400	3.64	

**Sample ID: S - 26 C - 5 WESTSIDE WALL (H101763-26) ✓**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/22/2011	ND	448	112	400	3.64	

**Sample ID: S - 27 A - 5 BOTTOM (H101763-27) ✓**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	08/22/2011	ND	448	112	400	3.64	

**Sample ID: S - 28 A - 5 WESTSIDE WALL (H101763-28) ✓**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/22/2011	ND	448	112	400	3.64	

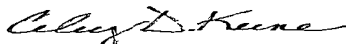
**Sample ID: S - 29 A - 5 NORTHSIDE WALL (H101763-29) ✓**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/22/2011	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	08/19/2011	Sampling Date:	08/18/2011
Reported:	08/22/2011	Sampling Type:	Soil
Project Name:	MILLMAN 33 FEDERAL #1	Sampling Condition:	** (See Notes)
Project Number:	700794.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC.33-19S-29E		


**Sample ID: S - 30 A - 5 EASTSIDE WALL (H101763-30)** ✓

Chloride, SM4500Cl-B	mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	08/22/2011	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

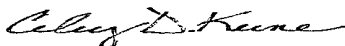
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



# Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2396 FAX (575) 393-2478

1-3

Company Name: <u>Talon / LPE</u>		P.O. #:		ANALYSIS REQUEST														
Project Manager: <u>Mike Stubblefield</u>		Company: <u>Talon / LPE</u>																
Address: <u>408 West Texas Ave.</u>		Alt:																
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Address:																
Phone #: <u>575-441-2254</u> Fax #: <u>575-446-8565</u>		City:																
Project #: <u>700794.002.01</u> Project Owner: <u>Devon Energy Corp.</u>		State: Zip:																
Project Name: <u>Millman 33 Federal No 1</u>		Phone #:																
Project Location: <u>sec. 33-195-29c</u>		Fax #:																
Sampler Name: <u>Mike Stubblefield</u>																		
FOR LAB USE ONLY																		
Lab I.D.	Sample I.D.	MATRIX	PRESERV.	SAMPLING														
		(GRAB OR COMPOUND CONTAINERS)	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	ACID/BASE ICE/COOL OTHER	DATE	TIME	Total Chloride											
<u>H101763</u>																		
1	S-1 A-1 Northside Wall	G	✓	✓	8/18/11	11:22A	✓											
2	S-2 A-1 Eastside Wall	G	✓	✓	8/18/11	11:24A	✓											
3	S-3 B-1 Northside Wall	G	✓	✓	8/18/11	11:42A	✓											
4	S-4 B1 eastside Wall	G	✓	✓	8/18/11	11:49A	✓											
5	S-5 B1 Southside Wall	G	✓	✓	8/18/11	11:50A	✓											
6	S-6 B1 bottom	G	✓	✓	8/18/11	11:51A	✓											
7	S-7 B2 Westside Wall	G	✓	✓	8/18/11	11:54A	✓											
8	S-8 B2 eastside wall	G	✓	✓	8/18/11	12:03A	✓											
9	S-9 B2 Southside Wall	G	✓	✓	8/18/11	12:04A	✓											
10	S-10 B2 bottom	G	✓	✓	8/18/11	12:05A	✓											

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Relinquished By: <u>Mike Stubblefield</u>	Date: <u>8/19/2011</u>	Received By: <u>Saul Rute</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #: _____
Time: <u>10:45am</u>			Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #: _____
Relinquished By: <u>Saul Rute</u>	Date: <u>8/19/11</u>	Received By: <u>Jodi Benson</u>	REMARKS:	
Time: <u>12:44</u>				
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <u>JH</u>		
Sampler - HPS - Ruc Other:	Cool Incub: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478 #26

# Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Warland, Hobbs, N.M. 88240

(575) 393-2326 FAX (575) 393-2476

2 - 3

Company Name: Talon / LPE				ANALYSIS REQUEST														
Project Manager: Mike Stubblefield				P.O. #:														
Address: 408 West Texas Ave.				Company: Talon / LPE														
City: Artesia State: NM Zip: 88210				Attn:														
Phone #: 575-441-7254 Fax #: 575-746-8965				Address:														
Project #: 706794.002.01 Project Owner: Devon Energy Corp.				City:														
Project Name: Millman 33 Federal Natl				State: Zip:														
Project Location: sec. 33-19S-29E				Phone #:														
Sampler Name: Michael Stubblefield				Fax #:														
FOR LAB USE ONLY				MATRIX		PRESERV.	SAMPLING											
Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	Total Collected			
HID1763																		
11	5-11 A2 Northside Wall	G			/					/			8/18/11	12:08 P	✓			
12	5-12 A2 Southside Wall	G			/					/			8/18/11	12:14 P	✓			
13	5-13 C2 bottom	G			/					/			8/18/11	12:17 P	✓			
14	5-14 C2 Eastside Wall	G			/					/			8/18/11	12:22 P	✓			
15	5-15 C2 Southside Wall	G			/					/			8/18/11	12:24 P	✓			
16	5-16 C-3 Southside Wall	G			/					/			8/18/11	11:28 A	✓			
17	5-17 C-3 bottom	G			/					/			8/18/11	11:31 A	✓			
18	5-18 C3 Northside Wall	G			/					/			8/18/11	1:17 P	✓			
19	5-19 A3 Northside Wall	G			/					/			8/18/11	12:41 P	✓			
20	5-20 C4 Southside Wall	G			/					/			8/18/11	12:57 P	✓			

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Relinquished By:  Michael Stubblefield  Date: 8/19/2011 Time: 10:45 am	Received By:  Jodi Nenson  Date: 8/19/11 Time: 12:44	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
REMARKS:			

Delivered By: (Circle One)  Sampler - UPS   Bus   Other:	Sample Condition Cool   Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY:  Jodi Nenson
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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

3-2

<b>Company Name:</b> Talon / LPE		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>
<b>Project Manager:</b> Mike Stubblefield		P.O. #:		
<b>Address:</b> 408 West Texas Ave.		<b>Company:</b> Talon / LPE		
<b>City:</b> Artesia <b>State:</b> NM <b>Zip:</b> 88210		<b>Attn:</b>		
<b>Phone #:</b> 575-441-7254 <b>Fax #:</b> 575-746-8965		<b>Address:</b>		
<b>Project #:</b> 700794.002.01    Project Owner: Devon Energy Corp.		<b>City:</b>		
<b>Project Name:</b> Millman 33 Federal Natl		<b>State:</b> <b>Zip:</b>		
<b>Project Location:</b> sec - 33 - 19S - 29E		<b>Phone #:</b>		
<b>Sampler Name:</b> Michael S. Stubbs		<b>Fax #:</b>		

FOR LAB USE ONLY		(GRAB OR COMPOUND)	# CONTAINERS	MATRIX	PRESERVATION	SAMPLING	Total cylinders
Lab I.D.	Sample I.D.			GROUNDEWATER WASTEWATER SOIL OIL SLUDGE OTHER	ACID/BASE: ICE/Cool OTHER	DATE . TIME	
H10T163							
21	S-21 C4 bottom	C		✓	✓	8/18/11 1:01 P	✓
22	S-22 C4 northside wall	C		✓	✓	8/18/11 1:04 P	✓
23	S-23 A4 Northside wall	C		✓	✓	8/18/11 1:07 P	✓
24	S-24 C5 southside wall	C		✓	✓	8/18/11 1:14 P	✓
25	S-25 CS bottom	C		✓	✓	8/18/11 1:17 P	✓
26	S-26 CS westside wall	C		✓	✓	8/18/11 1:24 P	✓
27	S-27 AS bottom	C		✓	✓	8/18/11 1:45 P	✓
28	S-28 AS westside wall	C		✓	✓	8/18/11 1:48 P	✓
29	S-29 AS Northside wall	C		✓	✓	8/18/11 1:54 P	✓
30	S-30 AS Eastside wall	C		✓	✓	8/18/11 2:48 P	✓

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<b>Relinquished By:</b>  Michael Stubblefield	Date: 8/19/2011	<b>Received By:</b>  Paul Auto	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 10:45 AM		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
<b>REMARKS:</b>				

<b>Relinquished By:</b>  Paul Auto	Date: 8/19/11	<b>Received By:</b>  Jodi Benson	<b>Delivered By: (Circle One)</b>  Sampler - UPS - Bus - Other: 22%	<b>Checked By:</b> (Initial)  LJA
	Time: 12:45			



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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August 31, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MILLMAN 33 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 08/25/11 13:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 08/25/2011  
Reported: 08/31/2011  
Project Name: MILLMAN 33 FEDERAL #1  
Project Number: 700794.002.01  
Project Location: SEC.33-T19S-R29E

Sampling Date: 08/18/2011  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S-31 B-5 EASTSIDE WALL (H101803-01)**

Chloride, SM4500Cl-B			mg/L		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/26/2011	ND	432	108	400	7.69	

**Sample ID: S-32 B-5 WESTSIDE WALL (H101803-02)**

Chloride, SM4500Cl-B			mg/L		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/26/2011	ND	432	108	400	7.69	

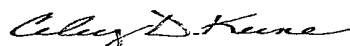
**Sample ID: S-33 B-5 BOTTOM (H101803-03)**

Chloride, SM4500Cl-B			mg/L		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/26/2011	ND	432	108	400	7.69	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

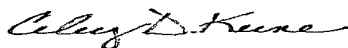
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## Page 4 of 4

[illegible]

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PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

---

September 07, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MILLMAN 33 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 09/02/11 16:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/02/2011	Sampling Date:	08/31/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	MILLMAN 33 FEDERAL #1	Sampling Condition:	** (See Notes)
Project Number:	700794.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC.33-T19S-R29E		

**Sample ID: S-1 B1 EASTSIDE WALL (H101884-01)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2011	ND	416	104	400	3.77	

**Sample ID: S-2 B1 SOUTHSIDE WALL (H101884-02)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2011	ND	416	104	400	3.77	

**Sample ID: S-3 B1 NORTHSIDE WALL (H101884-03)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/06/2011	ND	416	104	400	3.77	

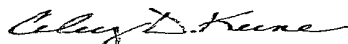
**Sample ID: S-4 B2 EASTSIDE WALL (H101884-04)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/06/2011	ND	416	104	400	3.77	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/02/2011  
 Reported: 09/07/2011  
 Project Name: MILLMAN 33 FEDERAL #1  
 Project Number: 700794.002.01  
 Project Location: SEC.33-T19S-R29E

 Sampling Date: 08/31/2011  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S-5 C2 BOTTOM (H101884-05)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/06/2011	ND	416	104	400	3.77	

**Sample ID: S-6 C2 EASTSIDE WALL (H101884-06)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/06/2011	ND	416	104	400	3.77	

**Sample ID: S-7 C2 SOUTHSIDE WALL (H101884-07)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/06/2011	ND	416	104	400	3.77	

**Sample ID: S-8 C3 SOUTHSIDE WALL (H101884-08)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/06/2011	ND	416	104	400	3.77	

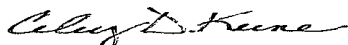
**Sample ID: S-9 A5 EASTSIDE WALL (H101884-09)** ✓

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/06/2011	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	09/02/2011	Sampling Date:	09/01/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	MILLMAN 33 FEDERAL #1	Sampling Condition:	** (See Notes)
Project Number:	700794.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC.33-T19S-R29E		

**Sample ID: S-10 A3 NORTHSIDE WALL (H101884-10)** ✓

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	09/06/2011	ND	416	104	400	3.77	

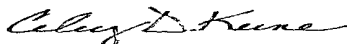
**Sample ID: S-11 A4 NORTHSIDE WALL (H101884-11)** ✓

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/06/2011	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

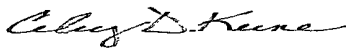
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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