OCD-ARTESIA

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Form 3160-5 (August 2007) DEI	UNITED STATES PARTMENT OF THE IN	7. If Unit of CA/Agreement, Name and/or No. NM-101348 8. Well Name and No. Mullman SE Federal #1 9. API Well No. 30-015-30376 9) 10. Field and Pool or Exploratory Area Parkway Morrow West 11. Country or Parish, State EDDY DF NOTICE, REPORT OR OTHER DATA 30F ACTION Production (Stait/Resume) Water Shut-Off Reclamation Well Integrity Recomplete Of Other Reclamation of Drilling Pit Drilling Pit Water Disposal Drilling Pit Base of any proposed work and approximate duration thereof If If resured and true vertical depths of all pertinent markers and zones MRBLA. Required subsequent reports must be filed once including reclamation, have been completed and the operator has If e relCammation of the closed drilling pit at the Millman SE e acvated and transported to Lea Land, LLC. It reguirements. The impacted area of the location was e 37-6feet long by 240-feet wide to a depth ranging from sal. 20. 2011, upon approval from the BLM, a 36,000 square Indec EEIVED FEB 1 5 2012 NMOCD ARTESIA NMOCD ARTESIA						
	EAU OF LAND MANA				5 Lease Serial No.		-,2010	
Do not use this f	IOTICES AND REPO form for proposals to Use Form 3160-3 (AF	o drill or to	re-enter an			or Tribe Nam	ie	
	T IN TRIPLICATE – Other ii	nstructions or	nage 2		7. If Unit of CA/Agr	eement, Name	and/or No.	
1. Type of Well					NM-101348			
Oil Well I Gas W					Millman SE Federa	o. I #1		
2. Name of Operator Devon Energy Production Company		30-015-30376						
3a. Address 20 N. Broadway, Ste 1500, Oklahoma City, OK	Ì			Area				
4. Location of Well (Footage, Sec., T.,		405-235-3611					·	
2310' FNL & 660' FWL, UL E-33-T19S-R29E	K., M., Or Survey Description)				-			
12. CHEC	K THE APPROPRIATE BOX	K(ES) TO IND	CATE NATURE	OF NOTI	ICE, REPORT OR OTH	HER DATA		
TYPE OF SUBMISSION			TYI	E OF AC	TION			
Notice of Intent	Acidize	Deepe	en	Pro	duction (Start/Resume)	Wate	er Shut-Off	
,	Alter Casing	Fracta	ire Treat	Rec	lamation	Well	Integrity	_
Subsequent Report	Casing Repair	New 9	Construction		omplete			n of
	Change Plans		and Abandon			L 		
Final Abandonment Notice	Convert to Injection	Plug I	Back	Wat	ter Disposal			
Federal #1. A total of 3,014.01 cubi	c yards of impacted soil fror	m the former of	drilling pit was e	xcavated	and transported to Lo	ea Land, LLC	C.	Ē
subsequently excavated to prepare 3-7 feet deep. A total of 11,376 cub	for the liner installation. The	e impacted are	ea measured to	be 370-fe	et long by 240-feet w	vide to a dep	th ranging fro	m
3. A trench was excavated on the b foot 20 Mil. liner was installed over t	oundaries of the closed drill he location. The edges of th	ling pit area a ne liner was ko	nd on Septembo eyed into the gro	er 20, 201 ound a mi	1, upon approval from nimum of 3-feet belo	m the BLM, a w ground su	a 36,000 squa rface.	are
The soil lift was contoured to match	the surrounding terrain and	wind rows we	ere installed ove	placed ov r the loca	ition for eros ion contr	ol.	m of 3-feet.	, 1
5. The location will be seeded using	the BLM approved seed mi	Ixture # 3 and	4.			- •		1
					F	EB 15	2012	
14. I hereby certify that the foregoing is t	rue and correct. Name (Printed)	/Typed)			NMC		TESIA	
Roy White			Title Productio	n Forema		/00/14		1
Signature Concerned	T.L		Date 11/15/20	11	· · · · · · · · · · · · · · · · · · ·			
THIS SPACE FOR FEDERAL OR STATE OFFICE USE								
Approved by						[
Conditions of approval, if any, are attached that the applicant holds legal or equitable to entitle the applicant to conduct operations	title to those rights in the subject	not warrant or c lease which wo	Title S ertify uld Office	Г <u>Е</u> А. F0	1	Date á	7-7-1	2
fictitious or fraudulent statements or repre				d willfully	to make to any departme	ent or agency o	of the United Sta	ites any false,
(Instructions on page 2)						,		

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November 15, 2011

620 E. Green Street Carlsbad, NM 88220

Bureau of Land Management

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

ARTESIA

AUSTIN

Subject:

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

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.

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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 under lain 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.

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

Toll Free: 866.742.0742 www.talonlpe.com Attention: Ms. Terry Gregston Environmental Protection Specialist

408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575 746.8905

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

> MIDLAND 2901 State Hwy 349 Midtand, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

SAN ANTONIO Il 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

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'

The former drilling pit area was originally excavated to a depth of approximately 2feet 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.

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

Sample	Location	Chlorides
B-1	North-side wall East-side wall South-side wall Bottom	4,960 mg/kg 9,100 14,400 304
B-2	West-side wall East-side wall South-side wall Bottom	304 8,100 432 160
B-5	East-side wall West-side wall Bottom	80 160 432
C-2	East-side wall South-side wall Bottom	1,070 3,800 1,570
C-3	South-side wall North-side wall Bottom	2,680 288 96
C-4	North-side wall South-side wall Bottom	144 64 80
C-5	South-side wall West-side wall Bottom	64 144 160
Sample date:	September 1, 2011	

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

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- 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

mikel Sullafield

Mike Stubblefield Project Manager

David J. Adkins District Manager

APPENDIX I

GROUNDWATER DATA

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

		(quarte	rs a	re '	1=1	IW 2:	=NE 3=	=SW 4	I=SE)				
		(quarte	5	1.41	n 1.		to larg	est)	(NAD83 UTM	A in meters)		(In feet)	ī.
Sùb POD Number bàsir	Use	County	- C.	1.1	Q 4	a di ta ta	Tws	Rng	X		Depth D Well W		κ.···
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	1 10	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		
								•	Avera	age Depth to) Water:	95 fee	.t
										Minimum) Depth:	60 fee	t
										Maximum	ı Depth:	115 fee	ł

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.

APPENDIX II

BLM STIPULATION OF APPROVAL

BLM GRID SECTION SITE MAP

David Adkins

From: Sent: To: Subject: Attachments: Kuhnert, Nathan [Nathan.Kuhnert@dvn.com] Friday, June 10, 2011 3:15 PM David Adkins Fw: Millman 33 Federal #1. 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 punction 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 definately 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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APPENDIX III

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LABORATORY RESULTS

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March 23, 2011

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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 Hydorcarbons

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

Cardinal Laboratories is accreditated 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,

Lope S. Moreno

Hope Moreno Inorganic Technical Director

Page 1 of 4



Analytical Results For:

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

Received:	03/17/2011	Sampling Date:	03/17/2011
Reported:	03/23/2011	Sampling Type:	Water
Project Name:	DEVON-MILLMAN	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SKYLIGHT CAVE 1 (H100514-01)

BTEX 8260B	mg/	<u>'L</u>	Analyze	d 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 9	% 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
Chioride	1550	4.00	03/18/2011	ND	104	104	100	0.00	
TDS 160.1	mg/	'L	Analyzed By: HM			<u></u>		<u> </u>	
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	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifie
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 9	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

REGENOTE: Labelly and Demages. Cardina's Eablity and cherch's conducte nervely for any dation arising, whether based in contract or lost, shall be Enized to the anomal paid by deet for anyhouse. All dations, including those for nogigence and any other chance whetherman shall be deemed network unless nade in miting and matched by Cardina's Mathematical Loss and the spherical service. In no event shall cardinal be table for indexists or composition damages, helding, where interaction, basiness himsplots, has due to so of prioris hoursed by deet, for state any date state any other share and the services hearder by Cardina's regardless of whether such chains beard you may of the shore stated reason or composition of the spheric sec.

Abpe S. Moreno-

Hope Moreno, Inorganic Technical Director

Page 2 of 4



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 SM4500CI-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

Cardinal Laboratories

*=Accredited Analyte

RESE NOTE: Usbilly and Darhages. Cardina's fability and clearly entering whether based in contract or tort, shall be triad to the amount point by clear for analyses. All dams, including these for negligence and any other cases missioner shall be cleared whether including and monthally (Grind and the thirty (Gri) days after completion of the approximation and shall be the cleared by after the analysis. All dams, including these for negligence and any other cases missioner shall be cleared whether including and monthall by Grind and the thirty (Gr) days after completion of the approximation and shall be approximate and bracking, which including shallows the monthalk are not by monthal by Grind and the big states after and a successors after good of or maked to the potentiate of the services hermoder by Carting, negatives of whether such cashing based upon any of the atomy stated of you be samples beat failed above. This speed whether and cashing states and active and active atom atoms and the based upon any of the atoms stated of you be samples beat which the speed and cases and atom speed and can be approxed at Carting atoms and and the based upon any of the atoms atom atoms and the speed when the approximate courses in the atom states and atoms atoms and atoms the atoms atoms atoms atoms atoms atoms and atom atom approxed at Carting atoms a

Abpe S. Moreno

Hope Moreno, Inorganic Technical Director

Page 3 of 4

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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 Hydorcarbons

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

Cardinal Laboratories is accreditated 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 S. Moreno

Hope Moreno Inorganic Technical Director

Page 1 of 4



Analytical Results For:

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

03/17/2011	Sampling Date:	03/17/2011
03/23/2011	Sampling Type:	Water
DEVON-MILLMAN	Sampling Condition:	** (See Notes)
NONE GIVEN	Sample Received By:	Jodi Henson
NOT GIVEN		
	03/23/2011 DEVON-MILLMAN NONE GIVEN	03/23/2011Sampling Type:DEVON-MILLMANSampling Condition:NONE GIVENSample Received By:

Sample ID: SKYLIGHT CAVE 2 (H100515-01)

BTEX 8260B	mg/	L	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% 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	omethane 115 %								
Surrogate: Toluene-d8	85.9	% 80-120	•						
Surrogate: 4-Bromofluorobenzene	93.3	% 80-120							
Chioride, SM4500CI-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	
IDS 160.1	mg/	۲ ـ ــــــ	Analyze	d 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/	٤	Analyze	d By: CK/		···		<u> </u>	
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 9	% 70-130	•	·			· · · · · · · · · · · · · · · · · · ·		
Surrogate: 1-Chlorooctadecane	124 9	% 70-130	ł						

Cardinal Laboratories

*=Accredited Analyte

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Lope S. Moreno-

Hope Moreno, Inorganic Technical Director

Page 2 of 4



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

Notes and Definitions

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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 SM4500CI-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

Cardinal Laboratories

*=Accredited Analyte

RESSE NOTE: Usility and Damages. Canter's lability and cleart's and using enable for any data states, which are based in contract or but, shall be inited to the amount suid by deed for evaluate. All damas, including those for neglectric and any other cause whicheases that he deared welled unless made in welling and reselved by Central welling with thithy (20) days after explosible sortice. In no event shall be deared welled unless made in welling and reselved by Central welling thithy (20) days after explosible sortice. In no event shall be deared welled unless inducting which the second and the second welled unless inducting welling in the second state of the second of the services by Central, regardless of whether such daming based upon any of the above stated reases of orbits to the second above. This report shall not be reprodued a constraint approad of cardinal second as a state second state only to the services.

Abpe S. Moreno-

Hope Moreno, Inorganic Technical Director

Page 3 of 4



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	(575) 393-2326 FA						1. 70								2011					
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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 Hydorcarbons

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

Cardinal Laboratories is accreditated 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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 12

CARDINAL Laboratories

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

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, SM4500Ci-B	mg	/kg	Analyze	d 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	/kg	Analyze	d 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	Analyze	d 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	/kg	Analyze	d 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	

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 12



PHONE (575) 393-2326 * 101 E. MARLAND * KOBBS, NM 88240

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)
4	Project Number:	700794.002.01	Sample Received By:	Jodi Henson
	Project Location:	SEC.33-195-29E		

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

Chloride, SM4500Cl-B	Analyze	d By: HM							
Analyte	Result	Reporting Limit	Anaiyzed	Method Blank	BS	% Recovery	True Value QC	rpd	Quahfier
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	de, 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) $^{\nu}$

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg,	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-8	mg,	/kg	Analyze	d 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	

Cardinal Laboratories

*=Accredited Analyte

REASE NOTE: Ubbilly and Damages. Candrafie lability and elempts calculates namely for any darm areang, whether based in context or tore, shell be instead to the amount paid by don't for analyses. All domes, inducting these for registerize and any other cases whethere shell be deered network unless made in writing and reactived by Candrafier Within (13) doys after completion of the approximation services. In no event shall Candrafie be label for inducting three for registerize and reacting which induces interruptions, loss of use or loss of prefix incomes by clerk is ababilities, shall be approximated to the performance of the approximation in the approximation of the services interruption of the services interruption of the services interruption of the approximation of the services interruption in the service interruption of the services interruption of the service interruption

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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) ~

Chioride, SM4500CI-B	m	g/kg	Analyze	d 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)

ma (ka

Chioride, SH4300CI-D	mg	/kg	Analyze	a by: rim					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/22/2011	ND	448	112	400	0.00	

Analysis and Days Like

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

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM			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	Analyze	d 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, SM4500	CI-B	mg	/kg	Analyze	d By: HM					
Anat	yte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	-	1070	16.0	08/22/2011	ND	448	112	400	0.00	

Cardinal Laboratories

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*=Accredited Analyte

REASE MOTE: Labity and Damages. Cancinals labity and clerifs exclusive remesty for any cleim attaing, whother based in orbest or bot, shall be invosed to the arrount paid by deet for analyses. All clears, inducting these for negligence and any other cases whothere shall be deemed manned unless made in moting and included the Christian within (30) days after completion of the sprintly service. In no event shall Cancer by Edde for indexing these for negligence and inducting, whole invited matter shall be an under the string both of the shall be defined to be arround by Carcing index for indexing the shall be and claim based upon any of the size stated resons or character. Each of the samples beneficies of an arrow of a state or and claim based pon any of the size stated resons and other samples beneficies and whether such claim based upon any of the size stated resons or character.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 12



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:	Soli
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, SM4500Ci-B	mg,	/kg	Analyze	d 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	Analyze	d 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-8	ride, SM4500Cl-8 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	Analyze	d 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, SM4500Ci-B	mg,	/kg	Analyze	d 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	

Cardinal Laboratories

*=Accredited Analyte

REASE NOTE: Lability and Damages. Cardwalls lability and dent's excluding non-only daim arising, whether based in contract or but, shall be imited to the amount paid by dent for analyses. All damas, including these for anglegance and any other cace whotopen and is deemad walked unless made in writing and received by dant for anglegance and any other contract whotopen and the second whotopen and the second whotopen and the second whotopen and the second based in the second based whotopen and the second angle of the second based in the second based of whotopen and the second based based on anglegance and any other based in the second second based based on the second based based

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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:	Soll
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		d 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) China Chide Chide

Chloride, SM4500Cl-B mg/kg Analyzed By: HM			d By: HM	2					
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) 🗸

64.**0**

16.0

Chloride, SM4500Cl-B	mg.	mg/kg		d 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 N	NORTHSIDE W	ALL (H101763	-23) ´						
Chloride, SM4500Cl-8	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8\$	% 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 S	OUTHSIDE W	ALL (H101763	-24)~						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	rpd	Qualifier

Cardinal Laboratories

Chloride

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PLASE NOTE: Lisbility and Damagies. Carterie's lisbility and dent's acclusive namely for any daim sinary, whether based in content or text, shall be limited to the amount paid by dent for anyloss. All dams, including those for napigance and any other cause whethere shall be deemed without class make it works and by Cartural within (10) days after completion of the applicable service. In no avect that Carteria be limite for industry of the start of the star

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08/22/2011

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 12

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

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, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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	B\$	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	08/22/2011	NÐ	448	112	400	3.64	

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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		/kg	Analyze	d 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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REASE NOTE: Labing and Danages. Candrel's labing and denotes exclusive mends for any dairs along, whethe based in content or but, shall be includ to the amount paid by direit for analyses. All datas, including those for negligence and any date cause whethere will be detend wheth unless made in whithy gair datas which in the product of the appendix sender. In no, next that Danages, and the data is a consequential damages, including, whose investores that mandpoors, based use, or based profile forms of whith the analysis of a states and based upon any of the above state mandpoors of the sender by Canting, the sender of a state on product the sender by Canting the sender of whith an expected and the performance of the senders here by Canting, including the sender of a white such datas based upon any of the above state mander of the sender of the sender by Canting, including the sender of the sender by Canting, including the sender of the sende

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Celey D. Keene, Lab Director/Quality Manager



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

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, SM4500CI-B	mg,	g/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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*=Accredited Analyte

REASE NOTE: Libbility and Dumpies. Cardiel's libbility and diverts exclusive monoh for any data which a which a which a contract or tort, shell be initiad to the amount public for the sampless. All distrins, including these for negligence and any other cause whiteware shall be desired which and the mathing and meaners by Cardiel's which thinky (30) days after complexities of the applicable sortice. In no west shall Cardiel's back for industrial or consequential damages, including, which immetion, business transpoors, base of task of ports fournal by dark, its subjective, attacks or successors shelling out or white the back products are shell by dark and the period damages, daming back production or otherwise. Really notes independent by dark, its subjective, attacks or successors shelling out or white to be performance of the services here. As

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 12

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

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 SM4500CI-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

Cardinal Laboratories

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PLOSE NOTE: Liabley and Deresses. Cardinal's labelity and clear's condume remedy for any datin wisery, whether based in content or but, shall be includ to the arrowstepaid by cleart for analyses. All claims, including trace for registeriors and any other case whethere will be deemed which unless made in writing and method within 1970 (case after completion of the approxibe senter. In no event shall be deemed which unless made in writing and method within 1970 (case after completion of the approxibe senter. In no event shall be the label for indexing trace for analyses, indicating trace for analyses, and deemed which unless the label for indexing the case whethere include the particular deferred in the sentent by clear at a shall be the formation of the approximation of the sentent because in the sentent because of the sentent because in the sentent because of the sentent because in the sentent because. All claims in the sentent because in the sentent because.

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 12

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, 1697 8 (575) 393-2326 FAX (575) 3 <u>93-24</u>						1-3
	Talon / LPE		1 74.5 72		ANALY	SIS REQUEST	
Project Manager	Mike Stufflefield		F.O. **				
Address:	408 WOT TEXAS AUC.		Company: Tala / CPE				
Dity:		Zip: 88210	Atin:				
Phone #:	575-441.7254 Fax #: 57	5-446-8905	Addreco:				
Project #:	700 794.002.01 Project Own	an Deupa Energy Corp					
Project Mame:	Millman 33 Federal Nol		State: Zip:				
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	S-B BZ eastside val'	6	8/AIN 12:030	V			┟───┟───┟
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Page 10 of 12

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Blarland, Hobbs, HM - C (575) 393-2326 - FAX (575) 393-24												-	2-3	
Company Name	· Talon /LPE			- Si	Salar - The					ANALY	sis re	QUEST			
Project Manage				P.O. 0:											
Address:	408 West Topas Ave .			Company: Talos/CPE					1						
City:	Artoria Stato:NM	Zip: 88	210	Aitn:				í	Ì						
Phone \$:	575-441.7254 Fax #: 57			Address:											
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Mobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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	Simpany Mamo: Talon /LPE						1010-00-00 	3	LE-TO			ANALYSIS REQUEST												
	" Mike Stubblofield				<u></u>			-	0. #:			الدر بالمراجعة المراجعة المراج		1	1	1	1	T	1	T	T	T	1	1
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 Hydorcarbons

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

Cardinal Laboratories is accreditated 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,

Celeg D Kune

Celey D. Keene Lab Director/Quality Manager

Page 1 of 4



Analytical Results For:

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

Received:	08/25/2011	Sampling Date:	08/18/2011
Reported:	08/31/2011	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-31 B-5 EASTSIDE WALL (H101803-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d 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			Analyze	d 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	, SM4500Cl-B mg/L			d 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	

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Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 882	240	•																				
	(575) 393-2326 FAX (575) 393-247	6																					
Company Name	: Talon / LPE						Pre la			19	(## <u>\$</u>		1	ANALYSIS REQUEST								Printerson	
Project Manage	" mike Stuble field						1	P.O. #:							Γ					T			
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alfiliates or execosions arising out of or related to the performance of services hernunder by Cardinal, repr arclass of whether such date is beand upon any of the above stated two one or otherwise. ID changed as per Miller 8/31/11 Ch **Relinquished By:** Phone Result: □ Yes □ No Add'I Phone #; □ Yes □ No Add'I Fax #: Received By 24/204 Fax Result: REMARKS: Relinguished By: * Sain Received By: A CHECKED BY: Delivered By: (Circle One) Sample Condition Cool intact Sampler - UPS - Bus - Other: 250

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



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

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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 Hydorcarbons

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

Cardinal Laboratories Is accreditated 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.Kune

Celey D. Keene Lab Director/Quality Manager

Page 1 of 7



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, SM4500Ci-B	mg	/kg	Analyze	d 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	Analyze	d 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) \checkmark

Chloride, SM4500Ci-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

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-5 C2 BOTTOM (H101884-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	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	Analyze	d By: CK		·····			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	rpd	Qualifier
Chioride	112	16.0	09/06/2011	ND	416	104	400	3.77	•

Sample ID: S-8 C3 SOUTHSIDE WALL (H101884-08) \checkmark

Chloride, SM4500CI-B	mg	/kg	Anaiyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% 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	Analyze	d 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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*=Accredited Analyte

PLEASE NOTE: Lisbility and Demogras. Cancher's lebbility and client's exclusive terricity for any dawn analog, whether based in content or lost, shell be initiat to the amount pair by devit for anylyses. At dams, including these for neglegance and any other cause whetever shall be identify and clients made in writing and reached by Cancher Worth Withow 1997 (30) days after conviction of the applicable service. In no event shall Cancher be leads for indexted or consequentiation damages, including writing indextes inflamptones, lead of use or less of prices including bases of an entries with claim's based upon any of the above statistic reactions with by the sample's leads above. This report shall not be reprodued eccept in his written approad of Cancher Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

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	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6 56	16.0	09/06/2011	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

REASE NOTE: LisbShy and Damayas. Onthe sisting and dents outlawe remarks for any darm string, whether based in contract or bit, shall be britted to the amount paid by dent for analyses. All damas, including these for napisjence and any other cause whateness shall be detend wolved unless made in writing and received by Cardinal within Binhy (30) days after completion of the applicable service. In no next shall Cardinal based for independent or transported damayes, including, without Britation, business stamptions, based fracts to be don't profess for analysis of a subsolution, struct Britation by Cardinal within Binhy (30) days after completion of the applicable service. In no next shall Cardinal based for independent damas based upon any of the struct station contexts. Results relate only to the samples labor of an elected to the professions of the sorrives hare-independent or undependent damas based upon any of the struct station contexts. Results relate only to the samples labor of the sorrives hare-independent or undependent damas based upon any of the struct station contexts.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

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 SM4500CI-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

Cardinal Laboratories

*=Accredited Analyte

PERCE NOTE: Unbluy and Danages. Carcinal's lability and opents exclusive memory for any data sharing, whether based in contract or bat, shall be formed to the short paid by clearly and opents exclusive remarks for any data sharing, whether based in contract or bat, shall be formed to the short paid by clearly and opents exclusive and the index of the short paid opent opent paid opent of the short paid opent of the short paid opent opent paid opent of the short paid opent opent paid opent opent

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 7



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	101 East Marland, Hobbs, NM 88 (575) 393-2326 FAX (575) 393-243															1-z	
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City:	Arlesin State: N.M.	.Zir): {	8270	A	Attn:											
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Page 6 of 7



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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