

March 6, 2017

#5E25774-BG7

NMOCD District II Crystal Weaver 811 S. First St. Artesia, NM 88210

SUBJECT: WORK PLAN FOR INCIDENT 2RP-4113, PAUL 25 24S 28E RB #221H, UNIT I SECTION 25-T24S-R28E NMPM, API# 30-015-43018, EDDY COUNTY, NEW MEXICO

Dear Crystal Weaver:

On behalf of Matador Production Company, Souder Miller & Associates is pleased to submit a work plan summarizing the planned soil remediation for the release site located at the Paul 25 24S 28E RB #221H in Eddy County, New Mexico. The purpose of the work plan is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the remediation of the release that occurred on fee lands on February 3, 2017.

Souder, Miller & Associates (SMA) responded at the request of Matador, to assess and delineate the release of production water associated with the Paul 25 24S 28E RB #221H well location. The release was initially reported to NMOCD by Matador Production Company, on February 6, 2017 and was a result of Water recycling facility at Tiger was on Emergency Shut Down. Lease operator went to Paul location that sends water to Tiger. Found that separator Shut Down Valve had failed to close. The table below summarizes information regarding the release. Results of the assessment, delineation are described in the following report.

Table 1: Release information and Site Ranking											
Name	Paul 25 24S 28E RB #221H										
Company	Matador Production Company										
	Incident Number	API Number	I Section Township Ra								
Location	2RP- 4113	30-015- 43018	NW/NW (Unit D)	Section 25	T24S, R28E NMPM						
Estimated Date of Release	February	3, 2017									
Date Reported to NMOCD	February	6, 2017									
Reported by	Catherine	Green									
Land Owner	Fee										
Reported To	NM Oil Co	onservation	n Division (I	NMOCD)							
Source of Release	Pipeline										



Released Volume	Estimated 100 bbls
Recovered Volume	80 bbls
Nearest Waterway	Nearest surface water is 1.3 miles east of Willow Lake
Depth to Groundwater	Approximately 49' bgs
Nearest Domestic Water Source	Nearest well is 0.39 miles south of the location
NMOCD Ranking	20
SMA Response Dates	February 20, 2017
Subcontractors	TBD
Disposal Facility	Lea Land
Estimated Cubic Yards Contaminated Soil Excavated and Disposed	500

Attached is a copy of the C-141 initial located in Appendix B. For questions or comments pertaining to the release or the attached work plan please feel free to contact either of us.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

Austin Weyant Project Scientist Cynthia Gray, CHMM Senior Scientist

SOIL REMEDIATION WORK PLAN FOR INCIDENT 2RP-4113

MATADOR PRODUCTION COMPANY

PAUL 25 24S 28E RB #221H UL D, SECTION 25, T24S R28E, NMPM API #30-015-43018 EDDY COUNTY, NM



Prepared for: Matador Production Company PO Box 1933 Roswell, NM 88202 Prepared by: Souder, Miller & Associates 201 S. Halagueno Carlsbad, NM 88221 575-689-704

> March 6, 2017 SMA Reference 5E25774 BG7

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1.0 Introduction

On behalf of Matador Production Company, Souder, Miller & Associates (SMA) has prepared this report that describes the assessment, initial delineation and proposed remediation for a release associated with the Paul 25 24S 28E RB #221H location API# 30-015-43018. The site is located in Section 25, Township 24S, Range 28E NMPM, Eddy County, New Mexico, on fee lands. Figure 1 illustrates the vicinity and location of the site.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 1.3 miles east of the Willow Lake, with an elevation of approximately 2,934 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be 49 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well database for water wells in the vicinity of the release. Two wells are located within a one mile radius of the site. Figure 1 depicts the site vicinity and Figure 2 shows the site itself. The physical location of this release is on private property and is within the jurisdiction of NMOCD.

Based on the NMOCD Guidelines Ranking Criteria, this release location has been assigned an NMOCD ranking of 20 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates the site ranking rationale.

3.0 Assessment and Initial Results

On February 20, 2017 after receiving 811 clearance, SMA field personnel assessed the remediated release area onsite with a gas powered auger, Photo Ionization Detector (PID), and a mobile chlorides titration kit EPA method 9045D meter. The proposed remediated release area was found to be approximately 420 feet long and 20 feet wide. The site delineation samples were taken to depths of 12 feet bgs. Specific sample locations for all samples are depicted on Figure 2 (Sample Location Map) along with sampling details within Table 3. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for total Chlorides using EPA Method 300.0.

4.0 Soil Remediation Work Plan

SMA will begin the excavation of affected soils, with approval from area utilities owners via 811 and NMOCD. SMA will continuously guide the excavation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500) and a calibrated PID. Excavation will occur to depths of two feet bgs to sufficiently remove the impacted materials to NMOCD requirements. Background chlorides for this area was previous sampled for incident 2RP-4008 and was found to be 3,000 ppm. All soil with a chloride level above the background sample will be removed. Affected soils will be removed from the area before closure samples are collected at the final depth of excavation and from the sidewalls. In the pipeline area the excavation will not occur four feet on each side of the pipeline due to pipeline safety. Excavation will occurred to two feet bgs over the pipeline. Hay then was added over pipeline to as a capillary break in the soil. Approximately 500 cubic yards of contaminated soil are projected to be removed and replaced with clean backfill material to return the surface to previous contours. The

contaminated soil will be transported for proper disposal at Lea Land, near Carlsbad, NM, an NMOCD permitted disposal facility.

5.0 Conclusions and Recommendations

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 20: 10 ppm (mg/kg) Benzene, 50 ppm total BTEX, and 100 ppm TPH

After the soil remediation work plan is approved by NMOCD, SMA will begin soil remediation activities on site.

Soil contaminant concentrations found during the initial delineation are illustrated in Figure 2. A summary of the laboratory analyses is included in Table 2. Laboratory reports are included in Appendix A.

Photo documentation is available by request.

6.0 Closure and Limitations

The scope of our services consisted of the performance of confirmatory spill and spill mitigation assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-7040 or Cindy Gray at 505-325-7535.

Submitted by: Reviewed by:

SOUDER. MILLER & ASSOCIATES

Austin Weyant Cynthia Gray, CHMM Project Scientist Senior Scientist

Figures:

Figure 1: Vicinity Map

Figure 2: Detailed Site and Sample Map

Tables:

Table 1: Release Information and Site Ranking

Table 2: Summary of Chloride Field Screening Results

Table 3: Summary of Laboratory Analyses

Appendices:

Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Initial

Appendix C: NMOSE Water Column

FIGURE 1 VICINITY MAP

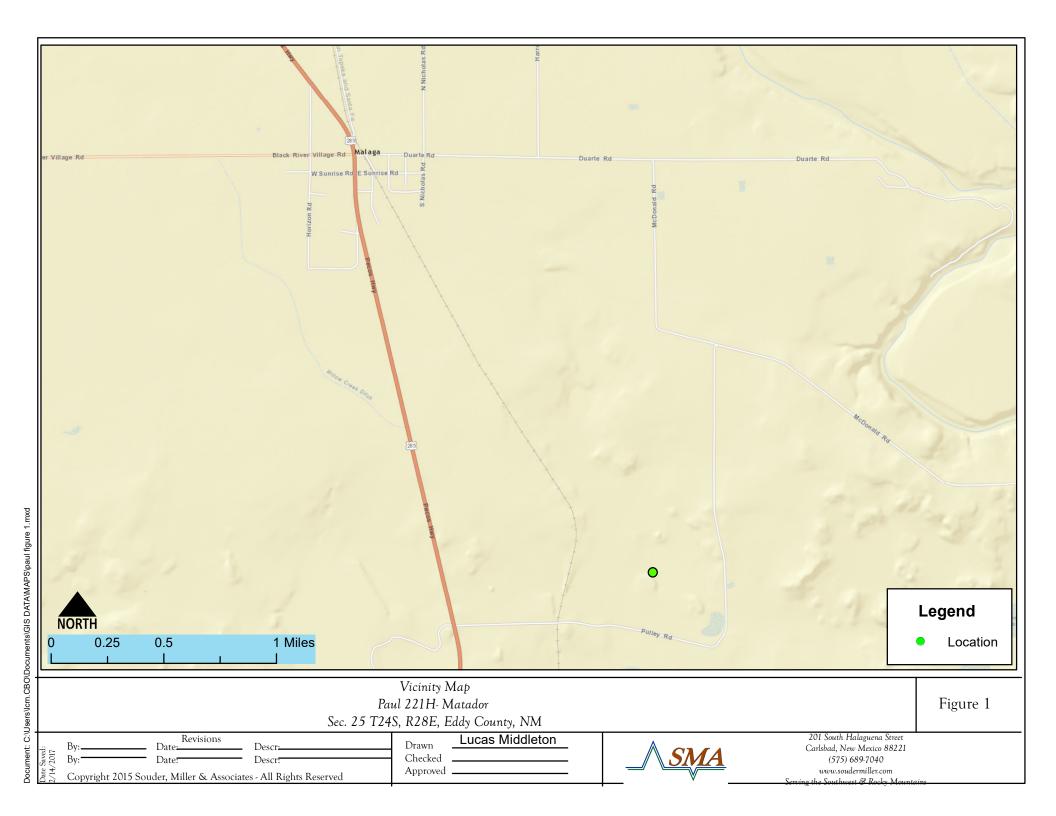
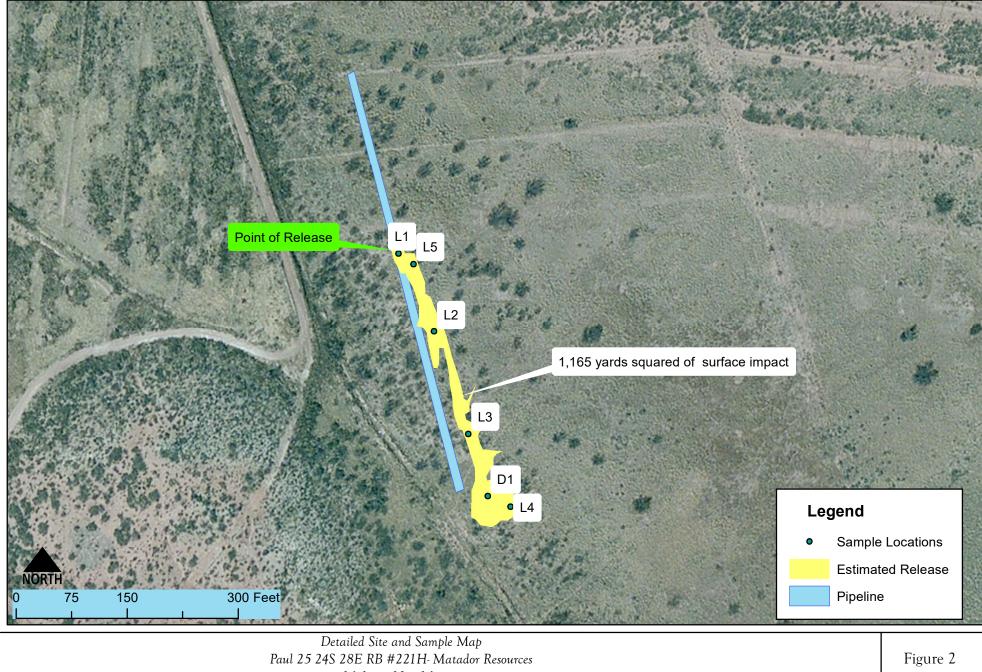


FIGURE 2 DETAILED SITE AND SAMPLE MAP



Malaja , New Mexico

Revisions Date: Copyright 2015 Souder, Miller & Associates - All Rights Reserved

Lucas Middleton Drawn Checked Approved



201 South Halaguena Street Carlsbad, New Mexico 88221 (575) 689-7040 www.soudermiller.com Serving the Southwest & Rocky Mountains

TABLE 1 RELEASE INFORMATION AND SITE RANKING

Table 1: Rel	ease information and Site Ranking								
Name	Paul 25 24S 28E RB #221H								
Company		Matador	Production	Company					
	Incident Number	API Number	, Township	Township, Range					
Location	2RP-4113	30-015- 43018	NW/NW (Unit D)	Section 25	T24S, R28E NMPM				
Estimated Date of Release	February 3	, 2017							
Date Reported to NMOCD	February 6	, 2017							
Reported by	Catherine (Green							
Land Owner	Private								
Reported To	NM Oil Conservation Division (NMOCD)								
Source of Release	Pipeline								
Released Material	Produced water								
Released Volume	Estimated	100 bbls							
Recovered Volume	80 bbls								
Nearest Waterway	Nearest su	rface water	is 1.3 miles	s east of Wi	illow Lake				
Depth to Groundwater	Approxima	tely 49' bgs	5						
Nearest Domestic Water Source	Nearest we	ell is 0.39 m	iles south c	of the locati	on				
NMOCD Ranking	20								
SMA Response Dates	February 2	0, 2017							
Subcontractors	TBD								
Disposal Facility	Lea Lad								
Estimated Cubic Yards Contaminated Soil Excavated and Disposed	500								

TABLE 2 SUMMARY OF CHLORIDE FIELD SCREENING RESULTS

	FIELD SCREENING RESULTS SUMMARY											
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	Chlorides Results	Lab Sample Collected Y/N							
2/5/2017	2:00	L1	Surface	6,025	N							
2/5/2017	2:00	L2	Surface	3,600	N							
2/5/2017	2:00	L3	Surface	3,205	N							
2/5/2017	2:00	L4	Surface	3,650	N							
2/5/2017	2:00	L5	Surface	2,976	N							
2/20/2017	1:00	D1-2	2'	1,000	Y							
2/20/2017	1:00	D1-12	12'	1,182	Y							



TABLE 3 SUMMARY OF LABORATORY ANALYSES

Table 3: Summary of Laboratory Analyses

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1702A45- 001	L2-2	2/20/2017	2'	N/A	N/A	N/A	N/A	1100
1702A45- 002	L2-12	2/20/2017	12'	N/A	N/A	N/A	N/A	1200

APPENDIX A LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 02, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Paul 2 OrderNo.: 1702A45

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/23/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: **1702A45**Date Reported: **3/2/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 1702A45

Project: Paul 2

Lab ID: 1702A45-001 **Collection Date:** 2/20/2017 1:00:00 PM

Client Sample ID: D1-2 Matrix: SOIL

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch ID

 EPA METHOD 300.0: ANIONS
 Chloride
 Analyst: MRA

 Chloride
 1100
 30
 mg/Kg
 20
 2/28/2017 6:17:00 PM
 30454

Lab ID: 1702A45-002 **Collection Date:** 2/20/2017 1:00:00 PM

Client Sample ID: D1-12 Matrix: SOIL

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: LGT

 Chloride
 1200
 75
 mg/Kg
 50
 3/1/2017 10:47:51 PM
 30454

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702A45**

02-Mar-17

Client: Souder, Miller & Associates

Project: Paul 2

Sample ID MB-30454 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 30454 RunNo: 41047

Prep Date: 2/28/2017 Analysis Date: 2/28/2017 SeqNo: 1286795 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-30454 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 30454 RunNo: 41047

Prep Date: 2/28/2017 Analysis Date: 2/28/2017 SeqNo: 1286796 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.4 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.lrallenvironmental.com

Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Number:	1702	A45			RoptNo: 1
Received by/date	e. LM	02/23/17					
Logged By:	Andy Jansson	2/23/2017 9:20:00 AM			wyna		
Completed By:	Andy Janse	00 02/23/17					
Reviewed By:	De	02/24/1º	7				
Chain of Cus	tody		7				
1. Custody sea	is intact on sample bottles		Yes	FT	No		Not Present ✓
	Custody complete?		Yes		No		Not Present
3. How was the	sample delivered?		Cour	ier			55-55-66 (Area Berry 11 10 1)
Log In							
4. Was an atter	mpt made to cool the samp	iles?	Yes	~	No	H	NA 🗌
5. Were all sam	nples received at a tempera	ature of >0° C to 6.0°C	Yes	V	No		NA T
6. Sample(s) in	proper container(s)?		Yes	~	No	[]	
7. Sufficient sar	mple volume for indicated t	est(s)?	Yes	~	No		
8. Are samples	(except VOA and ONG) pr	operly preserved?	Yes	~	No		
9. Was preserva	ative added to bottles?		Yes		No	~	NA
10.VOA vials ha	ve zero headspace?		Yes	П	No		No VOA Vials 🗸
11, Were any sa	mple containers received b	roken?	Yes		No	~	# of proposed
12 0				Tray.			# of preserved bottles checked
	ork match bottle labels? pancies on chain of custody)	Yes	~	No	4	for pH: (<2 or >12 unless note
	correctly identified on Chair		Yes	v	No		Adjusted?
14. Is it clear wha	at analyses were requested	?	Yes	1	No		
	ing times able to be met? sustomer for authorization.)		Yes	~	No		Checked by
	ing (if applicable)						
16, was client no	tified of all discrepancies w	vith this order?	Yes		No		NA 🗸
	Notified:	Date:			-	-	
By Who		Via:	eMa	ii I	Phone	Fax	In Person
Regardi	1						
	nstructions:						
7. Additional rer	marks:						
8. Cooler Information	C (C C C C C C C C C C C C C C C C C C	Seal Intact Seal No S	eal Da	te l	Signed B	. I	ı.
1		Yes	Jai Da	10	orgrica B	1	

TAL	ORY						(V	1 10) A)	səlddu8 זוA																																						
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel, 505-345-3975 Fax 505-345-4107 Analysis Request		or 8270 SIMS) NO ₃ , NO ₂ , PO ₄ , SO ₄) NO ₃ , NO ₂ , PO ₄ , SO ₄)			PAH's (8310 or RCRA 8 Metals Anions (F©NC		×	<u>></u>																																								
H	NA	4901 Hawkins !	Tel. 505-345-3975		u(X)	io ss2)	На. 1 DF	18 18	pq ∉ (e) (e)	BTEX + MT TPH 8015B TPH (Metho						,		Remarks:																														
					(1	F1208) 2	LWB.	L+ ON []	SB.	HEAL NO.	180-	7007						Date Time Re	Date Time																													
1	d Rush	Jul 2			ager:	In when	,	A Yes L	emperature: 2,	Preservative Type																																						
Turn-Around Time:	Project Name:	A	Project #:		Project Manager:	Ans	Sampler:	On Ice:	1	Container Type and #	Hor	r						Received by	Received by:																													
Chain-of-Custody Record SMA Culbud By Address:																																			□ Level 4 (Full Validation)				Sample Request ID	01-2	51-12							by:
of-Cus	27.4	2000				П	i	□ Other		Matrix	Sal			Col.				Relinquished by	Relinquished by:																													
Shain-		Mailing Address:		#	email or Fax#:	QA/QC Package:	itation	AP	□ EDD (Type)	Time	00:1							Time: 7	Time:																													
Client		Mailing		Phone #:	email o	QA/QC Packs	Accreditation	O NELAP	□ EDC	Date	1-02-1		Ba						Date:																													

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

APPENDIX B FORM C141 INITIAL

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 NM OIL CONSERVATION
ARTESIA DISTRICT
FEB LI, 2017, Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

	, ,	- 1	Rele	ease Notific	ation	n and Co	rrective A	ction	1					
_NAB1	7043	48889		nna (M	~	OPERAT			x Initia	al Report	☐ Final Report			
Name of Co	mpany M	atador Resou	rces Con	npany LLDVI		Contact Catherine Green								
		St Ste One R 24S 28E RI		M 88201		Telephone No.575-623-6601 Facility Type Oil								
		243 ZOE KI	3 #22111				e On							
Surface Ow	ner Fee			Mineral C	wner F	Fee			API No	.30-015-430	018			
				LOCA	TIO	N OF REI	LEASE							
Unit Letter D	Section 25	Township 24S	Range 28E	Feet from the 359	North, N	South Line	Feet from the 217	East/\ W	West Line	County Eddy				
Latitude_32.194817Longitude-104.0487226														
				NAT	<u>URE</u>	OF REL								
Type of Rele Source of Re							Release ~100BB lour of Occurrence			Recovered 80	BBLs overy Feb 3, 2017			
Source of Ke	icase pipen	iic				3,2017 78	-	c reo	7:30am	riour or Disc	overy red 3, 2017			
Was Immedia	ate Notice (-			If YES, To								
Required		x[_	」Yes □	□ No □ Not		Crystal We	eaver, voicemail							
By Whom? C							Iour Feb. 3 2017							
Was a Water	course Read		Yes x[□ No		If YES, Vo	olume Impacting t	the Wat	ercourse.					
If a Watercou	ırse was İm	pacted, Descr	ibe Fully.	*										
, , , , , , , , , , , , , , , , , , ,		paetea, 2000												
Water recyclic Down Valve Well shut in	ing facility had failed (to isolate li	to close. Leas	n Emerge e operator ick called	ncy Shut Down. It drove right of was. Excavator dug of	y to Tig lown at	ger and found spill sight, loo	produced water of	n grour de it in.	nd at (~32°1 Crew repla	1'52", 104°2	hat separator Shut 2'55".179999). of pipe. Excavated			
		and Cleanup A uare yards of s		ken.* Ipacted <u>Remove</u> Pet (byye	occimpacted Vsation h revis	with operated.	tor 4	this sc	ntence	,			
regulations a public health should their or or the environ	Il operators or the envi operations l nment. In a	are required to ronment. The nave failed to	o report as acceptant adequately OCD accep	nd/or file certain reports of a C-141 report investigate and reports of the contract of the co	release nort by the remediat	notifications a le NMOCD m te contaminati	knowledge and und perform correct larked as "Final Ricon that pose a three the operator of	ctive act deport" of reat to g	ions for relators not relators round water	eases which ieve the oper r, surface wa	may endanger ator of liability ter, human health			
							OIL CON	<u>SERV</u>	ATION	DIVISIO	N			
Signature: C	atherine G	reen				Approved by	Environmental S	pecialis	Cul	Ktal	Was			
Printed Name						Approval Da	10: 2112/11	η	Evniration	Date: N/	A			
Title: Regula E-mail Addre		omatadorreso	urces.com			Approval Date: (1) 2 Expiration Date:								
						^	N/5 ~	An.	Mod	Attached	X			
Date: Feb 6,	2017	Pho	one:575-6	27-2453		(MA2 W		سي س	`				

Paul 25 24S 28E RB #221H Work Plan SMA Ref #5E25774-BG7 3/3/2017

APPENDIX C OSE WATER COLUMN DATA



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

3 /	/			o , (,	,	
	POD							
	Sub-	QQQ				D	epth Depth Wat	ter
POD Number	Code basin Cou	nty 64 16 4	Sec Tws R	ng X	Υ	Distance	Well Water Colu	mn
C 03833 POD1	C E	2 1 2	26 24S 2	8E 589014	3562545 🌑	660	96 55	41
C 03358 POD1	C E	0 1 4 1	26 24S 2	8E 588416	3562116 🎒	1287	135	

Average Depth to Water: 55 feet

Minimum Depth: **55 feet**

Maximum Depth: 55 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 589664.55 **Northing (Y):** 3562429.4 **Radius:** 1500