Quantum Resources

HOBBS OCD

Artesia Unit #007

MAR 2 5 2014

RECEIVED

CLOSURE REPORT

API No. 30-015-10080

Release Date: 02/06/2014

Unit Letter D, Section 36, Township 17 South, Range 28 East

March 13, 2014

Prepared by:

Environmental Department Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 Phone: (575)964-8394

Fax: (575)393-8396

Table of Contents

- 1 Introduction
- 2 Site Activities
- 3 Conclusion

Figure – Site Diagram with Sample Data

APPENDICES

Appendix I – Initial Form C-141

Appendix II – Site Photographs

Appendix III - Groundwater Data

Appendix IV – Laboratory Analyses

Appendix V – Final C-141

Artesia Unit #007

1 INTRODUCTION

Quantum Resources has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located west of Loco Hills NM, in Eddy County. The site resulted from an alleged equipment operator from Apache striking a produced water injection line. The line rupture released produced water onto approximately 2560 square feet of the well pad. The volume of release was 30 bbls., whereby all leakage remained on the pad area that is shared with the Apache Corporations D State #104. A vacuum truck recovered approximately 25 bbls. of fluid, and the line was repaired. An initial form C-141 was submitted to the NMOCD on February 14, 2014 (Appendix I).

2 SITE ACTIVITIES

On February 19, 2014 DFSI personnel collected surface soil samples from the site (Figure). The samples were field screened for chloride and showed elevated levels in all 5 of the surface sample points. The samples were submitted to a commercial laboratory for chloride, TPH, and BTEX analyses (Appendix IV).

Simultaneous soil field testing to 1ft. bgs revealed low chloride and hydrocarbon levels at 1 ft. below ground surface (bgs) (Figure). Soil samples were collected from the excavation floor and submitted to a laboratory for confirmation (Appendix IV). Chlorides were significantly reduced to levels of 32mg/kg to 144 mg/kg respectively. TPH totaled less than 10.0 mg/kg GRO and less than 10.0 mg/kg DRO, and BTEX totaled less than 0.300 mg/kg in all samples. Photographs of site activities can be viewed in Appendix II.

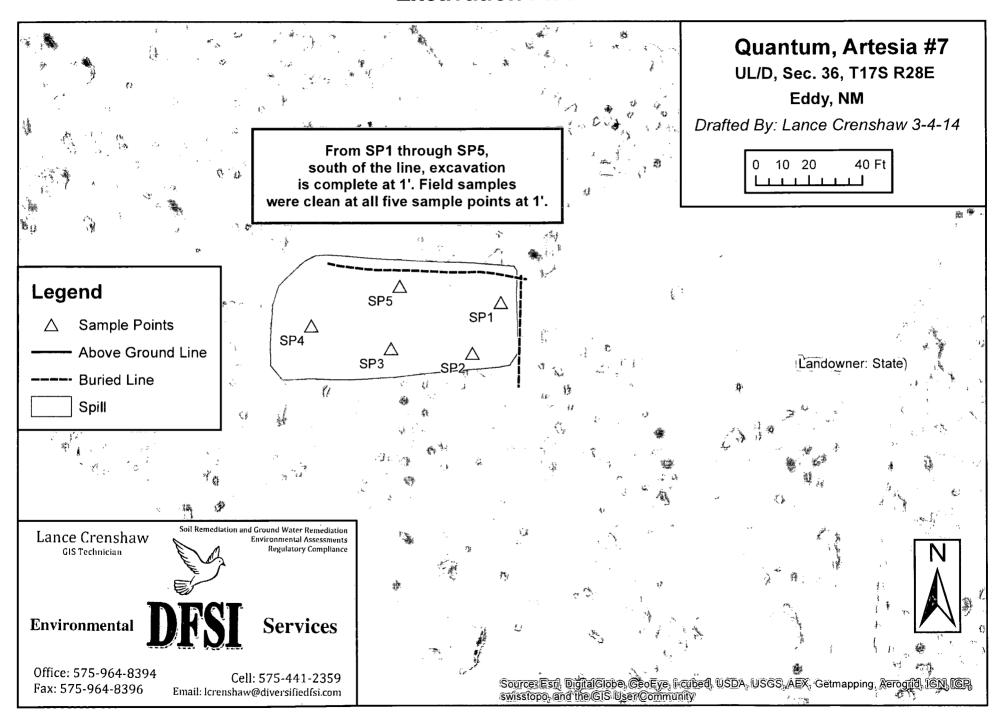
The excavated area on the well pad was not backfilled. Excavation was left open per Quantum Resources Management, as this is to be Apache corporations' responsibility due to location and circumstances of the spill.

3 Conclusion

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater in the area averages greater than 104 ft. bgs (Appendix III). Based on the removal of soils containing elevated chloride and visual staining at the site to an NMOCD approved facility, DFSI, on behalf of Quantum, submits the final form C-141 (Appendix V) and respectfully requests the closure of the regulatory file for the site.

Diversified Field Service, Inc.

Excavation Plat



Appendix I

INITIAL FORM C-141

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394 District I
1625 N. French Dr., Hobbs, NM 88240 BBS OCD
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 8040 2 5 2014

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

				OPERA	ГOR							
Name of Co	mpany Q	uantum Reso		Contact Dee Fryar								
Address 400			idland T	X 79705		Telephone No. 432-517-0496						
Facility Nar	ne Artesia	Unit #007		Facility Type Injection Well								
Surface Ow	ner State o	f New Mexi	wner S	State of New Mexico API No. 30-015-10080								
LOCATION OF RELEASE												
Unit Letter	Section	Township	n/South Line Feet from the East/			est Line	County					
D	36	17S	28E	480'	FNL		330'	FWL		Eddy	Eddy	
			,	Longitud	····	- 17.55						
•	LatitudeLongitude NATURE OF RELEASE											
Type of Relea	ise Produce	ed Water		INAI	UKE		Release 30bbls	T	Volume R	ecovered 2	5bbls	
Source of Rel						Date and Hour of Occurrence Date and Hour of Discovery						
- 32.0 00 4.0						02/06/2014			02/06/14			
Was Immedia	ite Notice G		Yes	No Not Re	quired	If YES, To Mike Brate						
By Whom? D						Date and H	lour 02/06/14 – u	nknown (time			
Was a Watero	ourse Reac					If YES, Vo	dume Impacting the	he Water	course.			
l		⊔	Yes 🛚] No								
If a Watercou	rse was Imp	pacted, Descri	ibe Fully.*	k								
Describe Cau	se of Proble	m and Remed	dial Action	n Taken.			***************************************					
During electrical trenching procedures, Apache Corporation struck the Artesia Unit #007 injection line causing the release of the produced water. The leak was repaired and a vacuum truck was called to recover the standing fluid. All of the fluid remained on the caliche pad that is shared with Apache Corporations D State #104.												
Describe Area	Affected a	nd Cleanup A	Action Tak	cen.*								
	Describe Area Affected and Cleanup Action Taken.* The initial assessment of the release has been completed. Surface samples have been taken to an approved laboratory for confirmation. The NMOCD Spills and Remediation Guideline will be followed to closure of this release.											
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.												
· · · · · · · · ·	$\overline{}$		$\overline{}$				OIL CONS	SERVA	ATION	DIVISIO	<u>N</u>	
Signature:	bst	sin (40	adde				-				
Printed Name	: Natalie G	ladden			,	Approved by Environmental Specialist:						
Title: Enviro	nmental Co	nsultant				Approval Date: Expir		xpiration l	ation Date:			
E-mail Addre	ss: ngladder	n@diversified	lfsi.com		•	Conditions of Approval:				Attached		
	14/2014		575-602 -	1786								
Attach Addit	ional Shaa	te If Nagage	357									

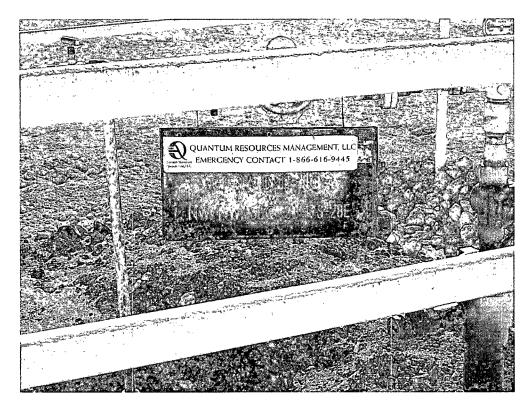
Appendix II

SITE PHOTOGRAPHS

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

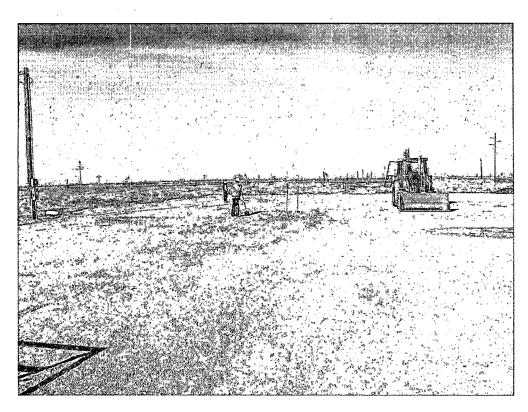
Quantum Resources Artesia Unit #007

Unit Letter D, Section 36, T17S R28E



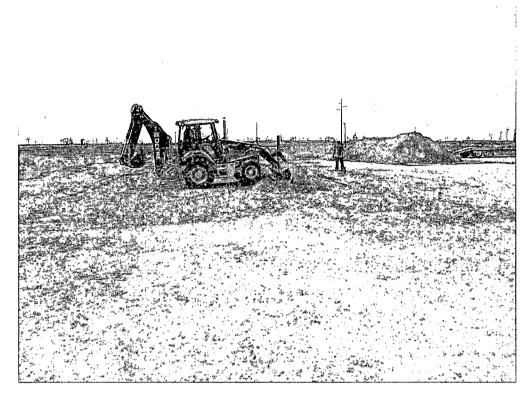
Sign marking location

3/03/14



Spill location

03/03/14



Excavation of spill area 3/04/14



Excavated area 3/04/14

Appendix III

GROUNDWATER DATA

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

GROUND WATER SEARCH

Quantum Artesia #007

UL:	D Sec:	36 T:	17S R:	28E							
Groundwa	ater Depth:	104~	ft.								
 ⇒ = NM Office of the State Engineer ⇒ = U.S. Geological Survey (unknown well) ⇒ = Site Location Date: 03/13/14 By: Rebecca Pons 											
	16S 27E _© 70' H	16S 28E orner	16S 29E ○ 110' Van Curen								
12	014' 050' 060' 0180' 0260' '0111' 090' 0260' 17S 27E 040'	17S 28E	o76¹ 17S 29E								
	O 140'	∺									
	18S 27E	18S 28E	18S 29E								
ϵ	○90' 55' ○ ○49'	○300'	Ounknown								



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 (R=POD has been replaced,

O=orphaned, C=the file is

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

water right file.) closed)

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

(In feet)

POD

POD Number RA 00399	Sub- Code basin County ED				•	X 563583	Y 3637879* ∰	•	Depth Water 6	Water Column
RA 02550	ED	3 3	1 27	16S	27E	567884	3639835*	83		
RA 02550 REPAR	ED	3 3	1 27	16S	27E	567884	3639835* 🍪	180	70	110
RA 04176	XX	3 4	1 23	16S	27E	569885	3641470* 🍪	300		

Average Depth to Water:

70 feet

Minimum Depth:

70 feet

Maximum Depth:

70 feet

Record Count: 4

PLSS Search:

Township: 16S

Range: 27E



Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

basin Use Diversion Owner

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

Code Grant

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

qqq

Source 6416 4 Sec Tws Rng

Shallow 3 3 1 27 16S 27E

567884

Х

2550 REPAR

File Nbr

DOM

Sub

3 R.B. HORNER

County POD Number

ED RA 02550 REPAR

ord Count: 1

POD Search:

POD Number: RA 02550 REPAR

Sorted by: File Number

A location was derived from PLSS - see Help

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. bility, usability, or suitability for any particular purpose of the data.



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

No records found.

PLSS Search:

Township: 16S Range: 28E

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.

DEPTH TO WATER



Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

Code Grant

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

qqq

Source 6416 4 Sec Tws Rng X Y
1 2 12 16S 28E 581557 3645357

2 2 24 16S 28E 581971 3642110* 🖓

3 3 25 16S 28E 580793 3639270* 🖟

(acre ft per annum)

	Oub			
=ile Nbr	basin	Use	Diversion	Owner
8226		STK	1.34	BOGLE FARMS
8227		STK	1.47	BOGLE FARMS
8228		STK	1.46	BOGLE FARMS

ord Count: 3

POD Search:

POD Basin: Roswell Artesian

PLSS Search:

Township: 16S Range: 28E

Sorted by: File Number

I location was derived from PLSS - see Help

County POD Number

RA 08227

RA 08228

ED RA 08226



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

(R=POD has been replaced,

closed)

water right file.)

O=orphaned, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is

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

(In feet)

POD

Sub-

Depth Depth Water Well Water Column

POD Number

Code basin County 64 16 4 Sec Tws Rng

110 110

RA 09342

4 4 3 19 16S 29E

582737 3640640*

Average Depth to Water:

110 feet 110 feet

Minimum Depth: Maximum Depth: 110 feet

Record Count: 1

PLSS Search:

Township: 16S

Range: 29E



Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

3 RUSTY AND JOSIE VAN CUREN

basin Use Diversion Owner

DOM

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

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

qqq

Source 6416 4 Sec Tws Rng

Х

County POD Number ED RA 09342

Code Grant

C=the file is closed)

Shallow 4 4 3 19 16S 29E

582737

ord Count: 1

File Nbr

9342

POD Search:

POD Number: RA 09342

Sub

Sorted by: File Number

1 location was derived from PLSS - see Help

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, pility, usability, or suitability for any particular purpose of the data.

3/14 12:43 PM

Page 1 of 1



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)

DEPTH TO WATER

	POD Sub-		O	Q	a						Denth	Depth	Water
POD Number	Code basin	County				Sec	Tws	Rng	x	Y	•	Water (
RA 01493		ED		2	1	27	17S	27E	568468	3630529*	876		
RA 01716 (D)	0	ED	4	4	3	16	17S	27E	566953	3632420* 🤪	1220	175 -	1045
RA 01716 S		ED	4	4	3	16	17S	27E	566953	3632420* 🤪	1200		
RA 02966		ED	4	4	4	05	17S	27E	566117	3635707* 🍪	80	30.	50
RA 03279		ED		3	2	07	17S	27E	564020	3635011* 🥋	250	14.	236
RA 03661		ED	3	2	3	32	17S	27E	565186	3628038* 🍪	330	140	190
RA 03664		СН	3	2	3	32	17S	27E	565186	3628038* 🤪	400	100	300
RA 03694		ED			4	17	17S	27E	565854	3632721* 🤪	300	90 -	210
RA 03816		СН			4	17	17S	27E	565854	3632721* 🧼	945	931 .	. 14
RA 04114		LE	4	4	3	16	17S	27E	566953	3632420* 🚱	1042	260	782
RA 04153		СН	4	4	3	16	17S	27E	566953	3632420* 🧳	1220	175	1045
RA 04320		ED			3	17	17S	27E	565053	3632719* 🚱	120	50	70
RA 04554		ED			1	23	17S	27E	569859	3631947* 👙	220	40 ~	180
RA 04561		ED		4	2	26	17S	27E	570871	3630142* 🚱	250		
RA 04786		ED	4	3	2	18	17S	27E	564133	3633277* 🌍	138	111	27
RA 06531		ED	4	1	4	17	17S	27E	565747	3632821* 🐉	200		
RA 06560		СН	2	1	2	20	17S	27E	565757	3632217* 😜	133	80	53
RA 06635		ED	2	2	2	18	17S	27E	564531	3633852* 🤪	325	60 -	265
RA 07774		ED	3	2	1	11	17S	27E	569933	3635251* 🤪	100	50	50
RA 07844		ED	3	4	3	16	17S	27E	566753	3632420* 🍪	1300	180	1120
RA 07844 EXPL		ED		4	3	16	17S	27E	566854	3632521* 🤪	1300	180	1120
RA 08823		ED	1	1	3	17	17S	27E	564745	3633019* 🍣	348	60	288
RA 11691 POD1		ED	2	1	4	17	17S	27E	565800	3633029 🧽	150	0	150
RA 11926 POD6		ED	4	1	1	18	17S	27E	563316	3633803 🍣	20	12	8

*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.

Average Depth to Water: 136 feet

Minimum Depth: 0 feet

Maximum Depth: 931 feet

Record Count: 24

PLSS Search:

Township: 17S Range: 27E



Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

POD Search:

POD Number: RA 01716 (D)

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, bility, usability, or suitability for any particular purpose of the data.

Page 1 of 1



Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

C=the file is closed)

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

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

qqq

Source 6416 4 Sec Tws Rng

Х

Shallow 4 4 4 05 17S 27E

566117 3635707*

ile Nbr

2966

Sub

DOM

basin Use Diversion Owner

(acre ft per annum)

3 JIM HOOTEN

County POD Number

Code Grant

ED RA 02966

ord Count: 1

POD Search:

POD Number: RA 02966

Sorted by: File Number

I location was derived from PLSS - see Help

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, pility, usability, or suitability for any particular purpose of the data

1/14 1:21 PM

Page 1 of 1



Active & Inactive Points of Diversion

(with Ownership Information)

County POD Number

RA 03279

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

Code Grant

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

qqq

Source 6416 4 Sec Tws Rng

3 2 07 17S 27E

564020

ord Count: 1

ile Nbr

3279

POD Search:

POD Number: RA 03279

Sub

(acre ft per annum)

3 EMIL P. BACH

basin Use Diversion Owner

DOM

Sorted by: File Number

I location was derived from PLSS - see Help

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. bility, usability, or suitability for any particular purpose of the data.

3/14 1:39 PM



Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

qqq

Source 6416 4 Sec Tws Rng

X

File Nbr

3661

Sub

PRO

basin Use Diversion Owner

(acre ft per annum)

0 HUMBLE OIL & REFINING

County POD Number ED RA 03661

Code Grant

Shallow 3 2 3 32 17S 27E

565186

ord Count: 1

POD Search:

POD Number: RA 03661

Sorted by: File Number

I location was derived from PLSS - see Help

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, pility, usability, or suitability for any particular purpose of the data

3/14 1:39 PM

Page 1 of 1



Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

3 C. M. BERRY

basin Use Diversion Owner

DOM

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

Shallow

C=the file is closed)

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

q q q

County POD Number ED RA 03694

Code Grant

Source 6416 4 Sec Tws Rng

4 17 17S 27F

Х 565854

ord Count: 1

File Nbr

3694

POD Search:

POD Number: RA 03694

Sub

Sorted by: File Number

Il location was derived from PLSS - see Help

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, pility, usability, or suitability for any particular purpose of the data.

3/14 1:39 PM



Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

Code Grant

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

qqq

Source 6416 4 Sec Tws Rng

Artesian

3 17 17S 27E

File Nbr

4320

Suh

DOM

basin Use Diversion Owner

(acre ft per annum)

3 C.V. BROWN

County POD Number

ED RA 04320

ord Count: 1

POD Search:

POD Number: RA 04320

Sorted by: File Number

location was derived from PLSS - see Help

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, cility, usability, or suitability for any particular purpose of the data.

3/14 1:40 PM

Page 1 of 1



Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

qqq

Source 6416 4 Sec Tws Rng

X

File Nbr

4554

Sub

basin Use Diversion Owner PRO

(acre ft per annum)

0 LOWE DRILLING COMPANY

County POD Number ED RA 04554

Code Grant

Artesian

1 23 17S 27E

569859

ord Count: 1

POD Search:

POD Number: RA 04554

Sorted by: File Number

I location was derived from PLSS - see Help

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. bility, usability, or suitability for any particular purpose of the data.



Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

0 LOWE DRILLING CO

basin Use Diversion Owner

PRO

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

qqq

_

Source 6416 4 Sec Tws Rna

Х

Y

County POD Number ED RA 04561 Code Grant

4 2 26 17S 27E

570871

00440+

ord Count: 1

ile Nbr

4561

POD Search:

POD Number: RA 04561

Sub

Sorted by: File Number

Il location was derived from PLSS - see Help

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, bility, usability, or suitability for any particular purpose of the data.

Page 1 of 1



Active & Inactive Points of Diversion

(with Ownership Information)

County POD Number

ED RA 04786

(R=POD has been replaced

C=the file is closed)

Code Grant

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

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

qqq

Source 6416 4 Sec Tws Rng

Х

Artesian 4 3 2 18 17S 27E

564133

File Nbr

4786

ord Count: 1

POD Search:

POD Number: RA 04786

Sub

(acre ft per annum)

3 DAVE COLLIER

basin Use Diversion Owner

DOM

Sorted by: File Number

1 location was derived from PLSS - see Help



Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

qqq

Code Grant

Source 6416 4 Sec Tws Rng

4 1 4 17 17S 27E

Χ

Sub

basin Use Diversion Owner

DOM

(acre ft per annum)

0 CHARLES C. POWELL

County POD Number

RA 06531

ord Count: 1

File Nbr

6531

POD Search:

POD Number: RA 06531

Sorted by: File Number

1 location was derived from PLSS - see Help

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, pility, usability, or suitability for any particular purpose of the data.

3/14 1:41 PM



Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

q q q

Source 6416 4 Sec Tws Rng

Χ

File Nbr 6635

basin Use Diversion Owner DOM

Sub

3 RANGER C. KARR

County POD Number ED RA 06635

Code Grant

Shallow 2 2 2 18 17S 27E

ord Count: 1

POD Search:

POD Number: RA 06635

Sorted by: File Number

I location was derived from PLSS - see Help

tata 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. pility, usability, or suitability for any particular purpose of the data.



Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

Sub

basin Use Diversion Owner

STK

3 BOGLE FARMS

County POD Number ED RA 07774

(R=POD has been replaced

C=the file is closed)

Code Grant

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

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

qqq

Source 6416 4 Sec Tws Rng Shallow 3 2 1 11 17S 27E Х

File Nbr

7774

ord Count: 1

POD Search:

POD Number: RA 07774

Sorted by: File Number

1 location was derived from PLSS - see Help

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Page 1 of 1



Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

basin Use Diversion Owner

(R=POD has been replaced

C=the file is closed)

and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)

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

qqq

Source 6416 4 Sec Tws Rng Shallow 3 4 3 16 17S 27E

X

3632420* 🕰 566753

Sub

EXP

RIVERSIDE WATER USERS ASSOC.

County POD Number

RA 07844

Code Grant

4 3 16 17S 27E Artesian

7844 EXPL

File Nbr

7844

EXP

0 RIVERSIDE WATER USERS ASSOC.

RA 07844 EXPL

ord Count: 2

POD Search:

POD Number: RA 07844

Sorted by: File Number

1 location was derived from PLSS - see Help



Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed)

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

qqq

Source 6416 4 Sec Tws Rng

X

Sub

basin Use Diversion Owner

EXP

(acre ft per annum)

0 RIVERSIDE WATER USERS ASSOC.

County POD Number ED RA 07844 EXPL **Code Grant**

Artesian 4 3 16 17S 27E

566854

ord Count: 1

ile Nbr

7844 EXPL

POD Search:

POD Number: RA 07844 EXPL

Sorted by: File Number

I location was derived from PLSS - see Help



Active & Inactive Points of Diversion

(with Ownership Information)

County POD Number

ED RA 08823

(acre ft per annum)

3 HAMMOND PHILLIP J

basin Use Diversion Owner

DOM

(R≈POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

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

C=the file is closed)

Code Grant

qqq

Source 6416 4 Sec Tws Rng

Shallow 1 1 3 17 17S 27E

X

ord Count: 1

ile Nbr

3823

POD Search:

POD Number: RA 08823

Sub

Sorted by: File Number

1 location was derived from PLSS - see Help

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, pility, usability, or suitability for any particular purpose of the data.



Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

(R=POD has been replaced and no longer serves this file

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

qqq

Sub

basin Use Diversion Owner

Owner

County POD Number

Code Grant

Source 6416 4 Sec Tws Rng

X

Υ

ile Nbr 1691

MON

0 INTEGRATED WATER SERVIES

ED RA 11691 POD1

ode Grani

2 1 4 17 17S 27E

565800

വാവം

ord Count: 1

POD Search:

POD Number: RA 11691 POD1

Sorted by: File Number

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, bility, usability, or suitability for any particular purpose of the data.



Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD'has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

p p p

Source 6416 4 Sec Tws Rng

ile Nbr 1926

Sub

MON

basin Use Diversion Owner

(acre ft per annum)

0 NAVAJO REFINING COMPANY, LLC

County POD Number RA 11926 POD6 **Code Grant**

Shallow 4 1 1 18 17S 27E

ord Count: 1

POD Search:

POD Number: RA 11926 POD6

Sorted by: File Number

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, pility, usability, or suitability for any particular purpose of the data.



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

No records found.

PLSS Search:

Township: 17S Range: 28E



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.)

POD Number

RA 11807 POD1

(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)

POD

Sub-QQQ

Code basin County 64 16 4 Sec Tws Rng

Depth Depth Water Well Water Column

X 3631585 131 76 55 1 2 3 22 17S 29E 587360

Average Depth to Water:

76 feet

Minimum Depth:

76 feet

Maximum Depth:

76 feet

Record Count: 1

PLSS Search:

Township: 17S Range: 29E



Active & Inactive Points of Diversion

(with Ownership Information)

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

Code Grant

(R=POD has been replaced

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

qqq

Source 6416 4 Sec Tws Rng Х

Shallow 1 2 3 22 17S 29E

587359

ile Nbr

1807

basin Use Diversion Owner

SAN

(acre ft per annum)

County POD Number 1 MITCHEL JOHNSON

RA 11807 POD1

ord Count: 1

POD Search:

POD Number: RA 11807 POD1

Sub

Sorted by: File Number

tata 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, sility, usability, or suitability for any particular purpose of the data.

1/14 1:51 PM



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)

	POD									,			
POD Number	Sub- Code basin (County		Q 16		Sec	Tws	Rng	х	Y	Depth	•	Water Column
RA 03714		СН	4	4	2	80	18S	27E	566212	3625253* 🌍	381		
RA 03917		LE .	4	1	2	10	18S	27E	569019	3625660* 🤪	130	50	80
RA 04048		LE	1	4	4	14	18S	27E	570841	3623030* 🍪	2096		
RA 04211		СН		3	1	28	18S	27E	566512	3620562* 🤪	120	100	20
RA 04298		ED		1	2	19	18S	27E	564082	3622523* 🚱	92		
RA 05524		ED		2	4	33	18S	27E	567721	3618532* 🤪	90	49	41
RA 05660		ED		3	4	31	18S	27E	564094	3618090* 🚱	305 ~	65	240
RA 05664		ED		4	1	33	18S	27E	566914	3618936* 🤪		145	
RA 06091		ED	1	2	3	29	18S	27E	565211	3620222* 谷	90 -	17	73

Average Depth to Water: 71 feet

Minimum Depth: 17 feet

Maximum Depth: 145 feet

Record Count: 9

PLSS Search:

Township: 18S Range: 27E



Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

(R=POD has been replaced

C=the file is closed)

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

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

q q q

Source 6416 4 Sec Tws Rng

Х

Sub

OBS

basin Use Diversion Owner

0 LEE DRILLING CO

County POD Number RA 04298

Code Grant

1 2 19 18S 27E

564082

3622523*

ord Count: 1

ile Nbr

4298

POD Search:

POD Number: RA 04298

Sorted by: File Number

I location was derived from PLSS - see Help

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1/14 1:59 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

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

qqq

Source 6416 4 Sec Tws Rng

X 567721

Sub

STK

basin Use Diversion Owner

(acre ft per annum)

3 RAYMOND NETHERLIN

County POD Number RA 05524

Code Grant

C≈the file is closed)

2 4 33 18S 27E

ile Nbr

5524

ord Count: 1

POD Search:

POD Number: RA 05524

Sorted by: File Number

I location was derived from PLSS - see Help

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, pility, usability, or suitability for any particular purpose of the data.



Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

qqq

Code Grant

Source 6416 4 Sec Tws Rng

Х

ile Nbr

basin Use Diversion Owner **PRO**

(acre ft per annum)

0 INC. READ & STEVENS

County POD Number ED RA 05660

Shallow

3 4 31 18S 27E

564094

ord Count: 1

5660

POD Search:

POD Number: RA 05660

Sub

Sorted by: File Number

1 location was derived from PLSS - see Help

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Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

Code Grant

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

Source 6416 4 Sec Tws Rng

Х

Shallow 1 2 3 29 18S 27E

PRO

(acre ft per annum)

Sub

basin Use Diversion Owner

0 YATES PETROLEUM CORPORATION

County POD Number ED RA 06091

ord Count: 1

ile Nbr

3091

POD Search:

POD Number: RA 06091

Sorted by: File Number

I location was derived from PLSS - see Help

lata 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, ility, usability, or suitability for any particular purpose of the 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)

	POD Sub-		Q	Q C)					Depth	Depth	Water
POD Number	Code basin	County	64	16 4	Sec	Tws	Rng	X	Υ	Well	Water (Column
L 01142 POD1	L	LE	;	2 4	15	18S	28E	578921	3623453* 🤪	80		
L 01150 POD1	L	LE		1 1	35	185	28E	579344	3619433* 🍪	135	65	70
L 06915	L	LE	1	1 3	02	18S	28E	579195	3626784* 🎲	125	55	70
L 07641	L	LE	;	3 4	15	18S	28E	578529	3623041* 🤪	130	80	50
RA 09588		ED		1 2	33	18S	28E	576976	3619384* 🎧	300		

Average Depth to Water:

66 feet

Minimum Depth:

55 feet

Maximum Depth:

80 feet

Record Count: 5

PLSS Search:

Township: 18S

Range: 28E



Active & Inactive Points of Diversion

(with Ownership Information)

County POD Number

ED RA 09588

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

qqq

Source 6416 4 Sec Tws Rng

Х

Code Grant

1 2 33 18S 28E

576976 3619384*

File Nbr

9588

ord Count: 1

POD Search:

POD Number: RA 09588

Sub

(acre ft per annum)

0 MARATHON OIL COMPANY

basin Use Diversion Owner

DOM

Sorted by: File Number

A location was derived from PLSS - see Help



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

(R=POD has been replaced, O=orphaned,

water right file.)

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed)

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

(In feet)

POD

Sub-

Depth Depth Water

POD Number CP 00863

Code basin County 64 16 4 Sec Tws Rng

X 588341 3620768* Well Water Column 320

1 4 2 27 18S 29E

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 1

PLSS Search:

Township: 18S Range: 29E



Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

POD Search:

POD Number: RA 00863

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Appendix IV

LABORATORY ANALYSES

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394



February 28, 2014

NATALILE GLADDEN
QUANTUM RESOURCES
4000 N. BIG SPRING
MIDLAND, TX 79705

RE: ARTESIA #7

Enclosed are the results of analyses for samples received by the laboratory on 02/19/14 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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 (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keens

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



QUANTUM RESOURCES NATALILE GLADDEN 4000 N. BIG SPRING MIDLAND TX, 79705 Fax To: **UNK-NOWN**

Received:

02/19/2014

Reported:

BTEX 8260B

02/28/2014

Project Name:

ARTESIA #7

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

02/19/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ SURFACE (H400499-01)

B (EX 0200D	mg/	<u> </u>	Anaryzo	u 0 (1 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.81	90.6	2.00	4.38	
Toluene*	<0.050	0.050	02/27/2014	ND	1.87	93.3	2.00	5.57	
Ethylbenzene*	< 0.050	0.050	02/27/2014	ND	1.73	86.4	2.00	4.47	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.19	86.5	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	98.0 9	% 61.3-14	2						
Surrogate: Toluene-d8	97.6 %	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102 %	65.7-14	1			•			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	02/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/24/2014	ND	188	93.9	200	5.40	
DRO >C10-C28	1010	50.0	02/24/2014	ND	183	91.3	200	4.69	
Surrogate: 1-Chlorooctane	87.79	65.2-14	0						
Surrogate: 1-Chlorooctadecane	114 %	63.6-15	4						

Analyzed By: MS

Cardinal Laboratories

*=Accredited Analyte

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Celey & Kura



QUANTUM RESOURCES NATALILE GLADDEN 4000 N. BIG SPRING MIDLAND TX, 79705 Fax To: **UNK-NOWN**

Received:

02/19/2014

Reported:

02/28/2014

Project Name:

ARTESIA #7 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

02/19/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H400499-02)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.81	90.6	2.00	4.38	
Toluene*	<0.050	0.050	02/27/2014	ND	1.87	93.3	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.73	86.4	2.00	4.47	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.19	86.5	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	97.8	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	I						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/24/2014	ND	188	93.9	200	5.40	
DRO >C10-C28	<10.0	10.0	02/24/2014	ND	183	91.3	200	4.69	
Surrogate: 1-Chlorooctane	95.9	% 65.2-14	0	. a. , <u></u>					
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keene



QUANTUM RESOURCES NATALILE GLADDEN 4000 N. BIG SPRING MIDLAND TX, 79705 Fax To: UNK-NOWN

Received:

BTEX 8260B

02/19/2014

Reported:

02/28/2014

Project Name: Project Number: ARTESIA #7 NONE GIVEN

mg/kg

Project Location:

NOT GIVEN

Sampling Date:

02/19/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H400499-03)

DIEK GEGGD	9/	, kg	Analyzo	a 541 115					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/27/2014	ND	1.81	90.6	2.00	4.38	
Toluene*	<0.050	0.050	02/27/2014	ND	1.87	93.3	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.73	86.4	2.00	4.47	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.19	86.5	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	96.9	% 61.3-14	12						
Surrogate: Toluene-d8	101	% 71.3-12	9 ,						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	11						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	02/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/24/2014	ND	211	105	200	1.44	
DRO >C10-C28	40.5	10.0	02/24/2014	ND	209	105	200	1.86	
Surrogate: 1-Chlorooctane	102	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

Analyzed By: MS

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



QUANTUM RESOURCES NATALILE GLADDEN 4000 N. BIG SPRING MIDLAND TX, 79705 Fax To: UNK-NOWN

Received:

02/19/2014

Reported:

02/28/2014

Project Name:

ARTESIA #7

Project Number: Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

02/19/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 2 @ 1' (H400499-04)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					<u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.81	90.6	2.00	4.38	
Toluene*	<0.050	0.050	02/27/2014	ND	1.87	93.3	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.73	86.4	2.00	4.47	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.19	86.5	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	95.9	% 61.3-14	2						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/24/2014	ND	211	105	200	1.44	
DRO >C10-C28	<10.0	10.0	02/24/2014	ND	209	105	200	1.86	
Surrogate: 1-Chlorooctane	97.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



QUANTUM RESOURCES
NATALILE GLADDEN
4000 N. BIG SPRING
MIDLAND TX, 79705
Fax To: UNK-NOWN

Received:

02/19/2014

Sampling Date:

02/19/2014

Reported:

02/28/2014

Sampling Type:

Soil

Project Name:

ARTESIA #7
NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

NONE GIVEN

Sample ID: SP 3 @ SURFACE (H400499-05)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.81	90.6	2.00	4.38	
Toluene*	<0.050	0.050	02/27/2014	ND	1.87	93.3	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.73	86.4	2.00	4.47	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.19	86.5	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	94.6	% 61.3-14	2						
Surrogate: Toluene-d8	99.9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	02/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/24/2014	ND	211	105	200	1.44	
DRO >C10-C28	88.5	10.0	02/24/2014	ND	209	105	200	1.86	
Surrogate: 1-Chlorooctane	108	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	132	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keene



QUANTUM RESOURCES NATALILE GLADDEN 4000 N. BIG SPRING MIDLAND TX, 79705 Fax To: **UNK-NOWN**

Received:

02/19/2014

Reported: Project Name: 02/28/2014 ARTESIA #7

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/19/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 3 @ 1' (H400499-06)

BTEX 8260B	mg,	'kg	Analyze	d By: MS	,				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.81	90.6	2.00	4.38	
Toluene*	<0.050	0.050	02/27/2014	ND	1.87	93.3	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.73	86.4	2.00	4.47	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.19	86.5	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	96.0	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	I						
Chloride, SM4500Cl-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	02/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/24/2014	ND	211	105	200	1.44	
DRO >C10-C28	<10.0	10.0	02/24/2014	ND	209	105	200	1.86	
Surrogate: 1-Chlorooctane	110 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116 9	% 63.6-15	4						

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Celeg D. Keene



QUANTUM RESOURCES NATALILE GLADDEN 4000 N. BIG SPRING MIDLAND TX, 79705 Fax To: **UNK-NOWN**

Received:

02/19/2014

Sampling Date:

02/19/2014

Reported:

02/28/2014 ARTESIA #7

Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 4 @ SURFACE (H400499-07)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	. True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.81	90.6	2.00	4.38	
Toluene*	<0.050	0.050	02/27/2014	ND	1.87	93.3	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.73	86.4	2.00	4.47	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.19	86.5	6.00	4.68	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	96.3	% 61.3-14	2						
Surrogate: Toluene-d8	98.4	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	23600	16.0	02/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Anaiyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	02/24/2014	ND	211	105	200	1.44	
DRO >C10-C28	411	10.0	02/24/2014	ND	209	105	200	1.86	
Surrogate: 1-Chlorooctane	105	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	134	% 63.6-15	4						

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Celey D. Keine



OUANTUM RESOURCES NATALILE GLADDEN 4000 N. BIG SPRING MIDLAND TX, 79705 Fax To: **UNK-NOWN**

Received:

02/19/2014

Reported:

02/28/2014

Project Name:

ARTESIA #7

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

02/19/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ 1' (H400499-08)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	97.8	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	100	% 65.7-14	1						•
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	02/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/24/2014	ND	211	105	200	1.44	
DRO >C10-C28	<10.0	10.0	02/24/2014	ND	209	105	200	1.86	
Surrogate: 1-Chlorooctane	103	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114	% 63.6-15	4						

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QUANTUM RESOURCES NATALILE GLADDEN 4000 N. BIG SPRING MIDLAND TX, 79705 Fax To: UNK-NOWN

Received:

02/19/2014

Reported:

02/28/2014

Project Name: Project Number: ARTESIA #7 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/19/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 5 @ SURFACE (H400499-09)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.92	95.8	2.00	2.11	
「oluene∗	< 0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	96.8	% 61.3-14	2						
Surrogate: Toluene-d8	99.6	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	02/24/2014	ND	416	104	400	0.00	
ГРН 8015M	mg	/kg	Analyze	d By: ms				,	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/24/2014	ND	211	105	200	1.44	
DRO >C10-C28	85.8	10.0	02/24/2014	ND	209	105	200	1.86	
Surrogate: 1-Chlorooctane	91.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112	% 63.6-15	4						
S									

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*=Accredited Analyte

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QUANTUM RESOURCES NATALILE GLADDEN 4000 N. BIG SPRING MIDLAND TX, 79705 Fax To: UNK-NOWN

Received: Reported: 02/19/2014

02/28/2014

Project Name: Project Number: ARTESIA #7

Project Location:

NONE GIVEN

Sampling Date:

02/19/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 5 @ 1' (H400499-10)

BTEX 8260B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	96.9	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CK					
Analyte .	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/24/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/24/2014	ND	211	105	200	1.44	
DRO >C10-C28	<10.0	10.0	02/24/2014	ND	209	105	200	1.86	
Surrogate: 1-Chlorooctane	104	% 65.2-14	0				- V _e 94		
Surrogate: 1-Chlorooctadecane	113	% 63.6-15	4						

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Celey D. Keine



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

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Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326 FAX (575) 393- <u>247</u>	(b		•											<u> </u>						
Company Name:	CXDOMITION						BI	月豐山6月						ANAL	YSIS	RE	QUE	ST.			
Project Manager	: Natalie Gladden					P.O,	#	1		abla					·						
Address:	·					Com	pany:	De Oc	anton	1											
City: State: Zip:					Attn:										·			.			
Phone #:	Fax #:					Addi	ress:		i	V_{\cdot}									. 1		ļ·
Project #:	Project Owne	r:				City:]										İ	
Project Name:	Artesia #7					State	e:	Zip:		1									-	-	
Project Location						Pho	ne #:													İ	,
Sampler Name:					_	Fax				J	E		,							l	
FOR LAB USE ONLY				MATR	IX	P	RESERV.	SAMPL	ING ·	100	32				1						1
		(C)OMP	, K			-				12	go		1				,	`		ł	
Lab I.D.	Sample I.D.	B B	# CONTAINERS GROUNDWATER	WASTEWATER SOIL	GE	OTHER:	ACID/BASE: ICE / COOL OTHER:			B16×	g015/m	7								!	
H40049	<u> </u>	G(G)RAB	GRO!	WAS	SLUDGE	H S	SE SE	DATE	TIME			,				:					
1	spiesurt	G				_	V	2-19	10.00	V	V	V									
2	SPIRI	91	<u> </u>				V	2-19	10.00	1 /		V						· 			
3	5MBSVIF	61	1	V	\bot	1		2-19	10:00	V	, ()	I V	· .							<u>:</u>	
41	SP2811	61		V			V	2-a	10:00	I V	V_j	1									
5	SP3Q SUFF	G			+	4		2-19	10:00	10	4 <i>V</i>	V,						`			<u> </u>
6	5P3R ('	9	1	V,	\perp	_	V	2-10	10:00	14	V	V	ļ								
	SPUE SURF	6		V		_	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	2-19	10:00	V	10	V									
8	spyei'	60		½	1.	_	10/	2-19	10:00	10	V	1/	ļ,					,			
a	SP5@surf	<u>G</u>	(10/	_	_ _	1/	2-K	10:00	17	10	V	<u> </u>								
10	5150 1'	6	<u> </u>	V			V	3-10	19.90	Į V	1	1									
analyses. All claims includin	d Damages. Cardinal's liability and client's exclusive remedy for g those for negligence and any other cause whatsoever shall be relinal be liable for incidental or consequental damages, including	deemed wa	alved uni	less made in w	iting and	receive	d by Cardinal v	within 30 days aft	er completion of	the applic	able							•			

Relinguished By: Same Cress Relinquished By:	TIME: MA	Received By:	enson	Phone Result:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	5.7	Sample Condition Cool Intact Ves Yes No No	CHECKED BY:		-	

Appendix V

FINAL FORM C-141

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

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

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Attached

1220 5. 5t. Ffall	icis Di., Saina	1 FE, INIVI 6/30.) 	Saı	nta F	e, NM 8750)5							
		·	Rele	ease Notific	atio	n and Co	rrective Ac	tior	1	•				
						OPERAT	OR		☐ Initial F	Report 🛛 Final Repor				
Name of Co	mpany (Quantum Re	sources N	Management, LLO	Contact: Dee Fryer									
Address 400		pring St. Mi			Telephone N	o. 432-517-0496	·)							
Facility Nar					Facility Type Injection Well									
		077 75		1361 40					1					
Surface Ow	ner State	Mineral O	State of New Mexico API No. 30-015-10080											
	· · · · · · · · · · · · · · · · · · ·					N OF REL								
Unit Letter D	1 1 1 1				Nor NL	th/South Line	Feet from the 330	Eas WI	st/West Line	County Eddy				
			Latit	tude 32.7979205		-		8759						
T 68.1	D 1	1.177		NAT	UKE	OF RELE				105111				
Type of Rele							Release 30 bbls		Volume Recovered 25bbls					
Source of Re	lease Line S	strike				02/06/14	our of Occurrence		PM 02/06/14	ur of Discovery				
Was Immedia	ate Notice (Yes [] No □ Not Rec	auired	If YES, To Whom?								
By Whom? I	Non Emilon													
		hed?				Date and Hour 02/06/14 time unknown If YES, Volume Impacting the Watercourse.								
Was a Watercourse Reached? ☐ Yes ☑ No						The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s								
	ırse was Im	pacted, Descr	ibe Fully.	*										
NA										•				
				 										
		em and Reme												
During electr	ical trenchi	ng procedures	s, Apache	Corporation struck	the A	rtesia Unit #00	7 injection line cau	ising	the release for	the produced water. The leak				
Was repaired Corporation	and a vacu	um truck was 1	called to	recover the standin	g fluid	d. All of the flui	d remained on the	calic	he pad that is s	hared with the Apache				
Corporation	D State #10	→.												
		and Cleanup A												
Spill affected	l area appro	ximately 2560) sq. ft. of	area. The spill was	delin	eated by Divers	sified Field Service	es, Inc	c. Impacted soi	ls were removed to a				
		osal facility. C	Confirmation	on samples were th	ien sul	bmitted to a cor	nmercial lab for ar	ialyse	s. DFSI respec	tfully submits this final C-				
141 for closu	re.													
I hereby certi	fy that the i	nformation gi	ven above	is true and comple	ete to	the best of my l	nowledge and und	dersta	nd that pursuar	nt to NMOCD rules and				
regulations al	ll operators	are required t	o report ar	nd/or file certain re	lease	notifications an	d perform correcti	ve act	ions for release	es which may endanger				
										the operator of liability				
should their o	perations h	ave failed to	adequately	investigate and re	media	ite contaminatio	n that pose a threa	t to g	round water, su	irface water, human health				
		ddition, NMC vs and/or regu		otance of a C-141 r	eport (does not relieve	the operator of re	spons	ibility for com	pliance with any other				
/	$\overline{\cap}$. /	\ ^				OIL CONS	ERV	ATION D	IVISION				
S:	hto	11.0 (-	$\frac{1}{2}()_{\alpha}$	dd 1										
Signature:		XVV												
Printed Name	e: Natalie G			Approved by I										
Title: Enviro	nmental Co	nsultant				Approval Date	: :		Expiration Date:					

Conditions of Approval:

Phone: 575-602-1786

3/13/2014

Date:

E-mail Address: ngaldden@diversifiedfsi.com

^{*} Attach Additional Sheets If Necessary