# JMB Transport Merchant Gap 25 State Com #1H Delineation Report and Work Plan

Section 25, T22S, R34E Lea County, New Mexico

November 18, 2014



Prepared for:

JMB Transport 800 West Airport Freeway Suite 1100 Irving, Texas 75062

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

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## I. Company Contacts

Representative Company		Telephone	E-mail
BJ Cox	GMT Explotation	1-307-354-8895	Bjcox@gmtexploration.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

## II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by JMB Transport to perform site assessment and clean up of a release area at the Merchant Gap 25 State Com #1H located in Section 25 of Township 22 South, Range 34 East, Lea County, New Mexico.

According to the C-141 dated October 31, 2014 the cause of release was the oil hauler fell asleep while loading and overflowed his tank.

## III. Surface and Ground Water

The nearest groundwater of record is approximately 1.0 mile Northwest of the site. The New Mexico Office of State Engineer record is in Section 23 Range 34 East and Township 22 South. The reported depth was 90 feet below ground surface (BGS).

## IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 1,000 ppm Total Petroleum Hydrocarbons (TPH).

Depth to Ground Water:									
(Vertical distance from contaminants to Less than 50 feet 20 points									
seasonal high water elevation of	50 feet to 99 feet	10 points	Χ						
groundwater)	>100 feet	0 points							
Wellhead Protection Area:									
(Less than 200 feet from a private domestic	Yes	20 points							
water source; or less than 1000 feet from all	No	0 points	X						
other water sources)									
Distance to Surface Water:									
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points							
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points							
canals and ditches)	>1000 feet	0 points	Χ						
RANKING SCORE (TOTAL POINTS)			10						

## V. Work Performed

On October 31, 2014, Safety & Environmental Solutions, Inc. was onsite photographs were taken and the location was mapped.

On November 12, 2014, Safety & Environmental Solutions, Inc. was onsite to determine vertical extent of contamination. All Samples were properly packaged, preserved and transported to the Laboratory, Hobbs New Mexico and analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Total BTEX and Chloride (Cl<sup>-</sup>) (Method SM4500CI-B). The results of the analysis are presented in the table below:

Sample Date 11/12/2014	Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX
Depth	Method					
TT1 at 1'6"	BTEX 8021B	<0.050	0.067	<0.050	<0.150	< 0.300
TT2 at 2'	BTEX 8021B	<0.050	0.108	<0.050	<0.150	< 0.300
TT3 at 3'6"	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	< 0.300
TT4 at 11'8"	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	< 0.300
TT5 at 5'6"	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	< 0.300
TT6 at 2'6"	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300

Sample Date 11/12/2014	Sample ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)
Depth	Method		
TT1 at 1'6"	TPH 8015M	<10.0	<10.0
TT2 at 2'	TPH 8015M	85.6	143
TT3 at 3'6"	TPH 8015M	<10.0	11.7
TT4 at 11'8"	TPH 8015M	<10.0	<10.0
TT5 at 5'6"	TPH 8015M	<10.0	<10.0
TT6 at 2'6"	TPH 8015M	<10.0	<10.0

The Vertical Extent was found in all test trenches.

# VI. Action Plan

Due to the results listed above the following action plan is proposed:

- 1. Excavate contaminated soil to where the sides and bottom of the excavation are less than 1000 PPM TPH. All contaminated soil will be transported to an approved NMOCD facility for disposal.
- 2. Confirmation samples will be taken.
- 3. The excavated area will be backfilled with clean soil off the location and caliche on the location.

# VII. Figures & Appendices

Figure 1 – Vicinity Map Figure 2 – Site Plan Figure 3 – NMOCD Trend Map Appendix A – Analytical Results Appendix B – C-141 Appendix C – Site Photos Appendix D – NMOSE Water Column/Average Depth to Water Figure 1 Vicinity Map



# Figure 2 Site Plan



Merchant Gap 25 State Com # 1 H

# Figure 3 NMOCD Trend Map



Appendix A Analytical Results



November 14, 2014

Bob Allen Safety & Environmental Solutions 703 East Clinton Hobbs, NM 88240

RE: CRUDE OIL SPILL

Enclosed are the results of analyses for samples received by the laboratory on 11/12/14 10:05.

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 <u>www.tceo.texas.gov/field/ga/lab\_accred\_certif.html</u>.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager

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### Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	11/12/2014	Sampling Date:	11/10/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	CRUDE OIL SPILL	Sampling Condition:	Cool & Intact
Project Number:	JMB-14-001	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY		

#### Sample ID: TT-1 @ 1'6" (H403473-01) ma/ka

BTEX 8021B	mg	mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	0.067	0.050	11/13/2014	ND	1.65	82.6	2,00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	< 0.300	0.300	11/13/2014	ND					

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	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	<10.0	10.0	11/12/2014	ND	196	98.2	200	2.55	
Surrogate: 1-Chlorooctane	105	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	117	% 52.1-17	6						

#### Cardinal Laboratories

## \*=Accredited Analyte

NERCE NOTE: Liability and barrages. Cardina's liability and dents exclusive memory for any dam analyse, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All dams, including those for negligence and any other cases wheteomer that be deemed where unless make limited and mesoned by Cardinal white thirty (30) daes the completion of the applicable service. In no event shall be deemed where unless make limited to the service that be deemed where unless make limited to the service that be deemed and and an other that the service that be deemed and and and the service that be deemed and the service that be deependent and the service that be deemed and the service that be deependent and the service that be deepend

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Celey D. Keene, Lab Director/Quality Manager

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		Saf	ety & Environm	nental Solutions					
			Allen						
			East Clinton						
			bs NM, 88240 To: (575)	) 393-4388					
		FdA	10. (375)	393-4300					
Received:	11/12/20	14		Sat	npling Da	ate:	11/10/2	2014	
Reported:	11/14/20	14		Sar	mpling Ty	/pe:	Soil		
Project Name:	CRUDE O	IL SPILL			mpling Co		Cool &	Intact	
Project Number:	JMB-14-0			Sar	nple Rec	eived By:	Celey D	, Keene	
Project Location:	LEA COU	NTY							
ample ID: TT-2 @ 2' (H40347	3-02)								
TEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
enzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
oluene*	0.108	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
thylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2,00	10.3	
"otal Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
otal BTEX	<0.300	0.300	11/13/2014	ND					
urrogate: 4-Bromofluorobenzene (PID	98.4	% 61-154							
PH 8015M	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
RO C6-C10	85.6	10.0	11/12/2014	ND	188	93.9	200	0.555	
ORO >C10-C28	143	10.0	11/12/2014	ND	196	98.2	200	2.55	
urrogate: 1-Chlorooctane	114 %	6 47.2-15	7						
urrogate: 1-Chlorooctadecane	127 9	6 52.1-17	Ó						
Cardinal Laboratories								*=Accredi	ted Analyte
PLEASE NOTE: Liability and Damages. Cardnah liabil any other cause whatboever shall be deemed welved including, without limitation, business interruptions, loss o datm is based upon any of the above stated reasons or otherwise	uniess made in o of use, or loss o	witting and received by Co of profits incurred by client	ardinal within thirty (30) t, its subsidiaries, affiliate	days after completion of is or successors artising	f the applicable sut of or relati	e service. In no ever ed to the performance	it shall Cardinal be liable	for incidental or	consequential damage
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Celey D. Keene, Lah Director/Ou	ality Mana	der							
Celey D. Keene, Lab Director/Qu	iality Mana	iger							



### Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	11/12/2014	Sampling Date:	11/10/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	CRUDE OIL SPILL	Sampling Condition:	Cool & Intact
Project Number:	JMB-14-001	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY		

# Sample ID: TT-3 @ 3' 6" (H403473-03)

BTEX 8021B	mg,	mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80,5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID TPH 8015M	94.7 mg,			d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	11.7	10.0	11/12/2014	ND	196	98.2	200	2.55	
Surrogate: 1-Chlorooctane	110	% 47.2-1	17						

Surrogate: 1-Chlorooctadecane 123 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	11/12/2014	Sampling Date:	11/10/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	CRUDE OIL SPILL	Sampling Condition:	Cool & Intact
Project Number:	JMB-14-001	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY		

## Sample ID: TT-4 @ 11' 8" (H403473-04)

BTEX 8021B	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	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					

### Surrogate: 4-Bromofluorobenzene (PID 97.9 % 61-154

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	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	<10.0	10.0	11/12/2014	ND	196	98.2	200	2.55	
Surrogate: 1-Chlorooctane	116 % 47.2-157		7						
Surrogate: 1-Chlorooctadecane	rooctadecane 129 % 52.1-176		6						

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R-SR2 KOTE: Lability and Damages. Cardina's lability and dents exclusive remarks for any dam ansing, whether based is contract or tort, shall be limited to the amount paid by dent for analyses. All dams, including these for negligence and any other cause whetoever shall be deemed wweed unless make in whiting and momental by Cardinal within Tably (20) days after completion of the approximate service. In no west shall Cardinal west by Cardinal west in the remarks of the service shall weed within the service shall weed within the service shall be deemed weed of the services in the service shall be deemed weed of the services interaction of the approximate cardinal service. In no west shall Cardinal Laboration we cardinal services in an or the services interaction of the approximate cardinal service in the services interaction of the services interaction of the services interaction of the approximate card in the service interaction of the services interaction of the services interaction of the service interaction of the services interaction of the service inter

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	11/12/2014	Sampling Date:	11/10/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	CRUDE OIL SPILL	Sampling Condition:	Cool & Intact
Project Number:	JMB-14-001	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY		

## Sample ID: TT-5 @ 5' 6" (H403473-05)

BTEX 8021B	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	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	< 0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID 98.9 % 61-154

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	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	<10.0	10.0	11/12/2014	ND	196	98.2	200	2.55	
Surrogate: 1-Chlorooctane	117 % 47.2-157		7						
Surrogate: 1-Chlorooctadecane	129 9	52.1-17	6						

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	11/12/2014	Sampling Date:	11/10/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	CRUDE OIL SPILL	Sampling Condition:	Cool & Intact
Project Number:	JMB-14-001	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY		

# Sample ID: TT-6 @ 2' 6" (H403473-06)

BTEX 8021B	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	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID 100 % 61-154

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	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	<10.0	10.0	11/12/2014	ND	196	98.2	200	2.55	
Surrogate: 1-Chlorooctane	118 % <mark>4</mark> 7.2-157								
Surrogate: 1-Chlorooctadecane			Ó						

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Celey D. Keene, Lab Director/Quality Manager

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#### Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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† Cardina	Delivered B Sampler - UP	Relinquished By	Sampler Relinquishad	N 2432 HOTE, MARRY MURSA, 24 Clamp blobd Herner, 51 mill weld State	6	R.		N		Lab I.D. Huo3473	Fold Line only	Project Location: Sampler Name:	Project Name: (	Project #: JM	Phone #:	City:	Address:	Project Manager:	Conipany Name:	C AR	
Cardinal cannot accept verbal changes. Please fax willten changes to 575-393-2476.	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	1 Jana	uishad:	14.12 HOTE: 153/8/p and Disinfland Contend? \$10/8/p Said Minity Activative interval for transmission water based to the automatic transmission of the start state water based to the automatic transmission of the start state water based to the automatic transmission of the start state water based on the automatic transmission of the start state water based on the automatic transmission of the start state water based on the automatic transmission of the start state water based on the automatic transmission of the start state water based on the automatic transmission of the automatic transmission of the start state water based on the automatic transmission of	H-6@ 216"	4.50 5 6"	11-20 3.6"	Trala a'	1-10 1.5	Sample I.D	C 100 - LANDA	Con la	Grude oil so;	JMB-14-001	7-0510	Hobbs	703 East Clinton	Bob Allen	Safety & Environmental Solutions, Inc.	ARDINAL LABORATORIES 101 East Mariand, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476	
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		Erenily Southerase sesi-rum com ballene Linulda sesi-rum.com dboyera sesi-rum com	Tres D No Yes D No			2	50	8	5	BTEX		25				-			VNV	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	
		mag	Add'l Phone #: Add'l Fax #:	Transis and The MERGEN Information Review Information International State of The St													,		ANALYSIS REQUEST	D ANALYSIS	
		ballen@sesi-um.comj vin.com		eff by danged an all extends on a plu aniatric blom the neighed dan by anizorpia fees															T	REQUEST	
		2		ment then hat of hucks										-						Page 9 of	9

Appendix B C-141

District II 811 S. First St. District III 1000 Rio Brazi District IV	h Dr., Hobbs, Ni ., Artesia, NM 8 os Road, Aztec, nncis Dr., Santa I	8210 NM 87410	5	Energy M Oil ( 1220	inerals Conse Sout	New Mex and Natura rvation Di h St. Franc e, NM 875	ll Resources vision vis Dr.	Form C-14 Revised August 8, 20 Submit 1 Copy to appropriate District Office accordance with 19.15.29 NMA					
			Rele	ease Notifi	catio	n and Co	orrective A	ction					
						OPERAT	OR	X Init	ial Report		Final Report		
	Company GM			0.00000		Contact B.	the second s		and a state		- man corpore		
	me Merchar			er, Co. 80202		Telephone 1 Facility Typ	No. 720-946-30	028					
	wner State of	the second s		Mineral (									
Jui luce Of	and State Of	New Mex	100	1				APIN	o. 30-025-4	1450			
Unit Letter	Section	Township	Range	LOC/ Feet from the		N OF RE	Feet from the	East/West Line	Lo				
М	25	228	34E	40	NOID	South	350	West West	County	Lea			
			La	titude N 32 21	19.93	" Longitud	e W 103 25'52	.13"					
				NAT	URE	OF REL	EASE						
Type of Rela						and the second se	Release 40 bbls	Est. Volume	Recovered 4	0 bbls E	st		
Source of Re his tank.	elcase Oil Hau	iler fell asle	ep while b	oading and overfl	owed	Date and Hour of Occurrence Date and Hour of Discovery							
	iate Notice Giv	ven?			_	10/31/14		10/31/14	- @ 0700 hrs	i			
		X	Yes [	No Not Rea	quired	Tomas Obe							
By Whom? I							our 10/31/14 = 12						
Was a Water	rcourse Reache		Yes X	No		If YES, Vo	lume Impacting I	he Watercourse.					
If a Waterco	urse was Impa	cted Descri	be Fully \$										
	arot nuo nupu	eted, Desen	oe r uny.										
During the lo	use of Problem bading of Oil fo com any GMT	or sales into	fial Action a truck, th	t Taken.* he truck driver fel	l asleep	, allowing his	tanker to overflo	w. The driver has	been perman	ently re	leased from		
The majority constructed v affected areas		as confined t contaminatio at all the co	to the surf on will be ntaminate	ace location betw excavated until ne d soil has been re				ere was some con evident. Soil sam will be brought in					
public health should their o or the environ	or the environ	e failed to a tition, NMO	dequately CD accept	of a C-141 repo	tlease no n by the mediate	otifications an e NMOCD ma	d perform correct rked as "Final Re	nderstand that pur tive actions for rel eport" does not rel eat to ground wate esponsibility for c	eases which n ieve the opera	nay end tor of 1	langer iability		
Signature:	AC	R					OIL CONS	SERVATION	DIVISIO	N			
Printed Name	: BICOX					Approved by I	Environmental Sp	ecialist:					
Title: Produc	tion Superinte	ndent			1	Approval Date	:	Expiration	Date:				
E-mail Addre	ess: bjcox@gn	ntexploration	n.com		(	Conditions of	Approval:		Attached	П			
	/31/14			07)-354-8895						-			
Attach Addit	tional Sheets	If Necessa	ry										

Appendix C Site Photographs









































# Appendix D NMOSE Water Column/Average Depth to Water

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Stor Pre	
ALL CALL	6
CONTRACT NAMES	1 I
- 10 - E	
intertials Stress Commission	

# 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)	(qua						IE 3=SW		3 UTM in me	eters)		(In feet)	
POD Number	POD Sub- Code basin C	ounty		Q 16		Sec	Tws	Rng	×	Y		Depth Well	Depth Water C	
CP 00380		LE		4	2	11	228	34E	647245	3586739*	\$	45	30	15
CP 00596		LE		4	2	11	228	34E	647245	3586739*	4	50		
CP 00597		LE		2	2	08	225	34E	642410	3587074*	9	35		
CP 00598		LE		4	1	23	228	34E	646480	3583511*	9	70		
CP 00599		LE		1	1	12	225	34E	647642	3587147*	-	62	50	12
CP 00604		LE	1	4	4	01	225	34E	648743	3587666*	\$	135		
CP 00704		LE		2	4	22	225	34E	645681	3583097*	4	600		
CP 00744		LE		1	2	09	225	34E	643618	3587091*	-	460		
CP 00751		LE		4	2	11	225	34E	647245	3586739*	\$		45	
CP 00865		LE	4	1	з	20	228	34E	641957	3583146	-	885	605	280
CP 00933		LE	1	1	1	12	225	34E	647541	3587246*	-	60		
CP 00934		LE	2	1	2	01	225	34E	648682	3588822		60	42	18
										Average De	epth to	o Water:	154 fe	et
										Mir	nimun	Depth:	30 fe	et
						212.			12222	Mac	dmum	Depth:	605 fe	et
Record Count: 12														
Basin/County Search	<u>1</u>													
County: Lea														
PLSS Search:														
Township: 22S	Range: 34E													
location was derived from PL	.SS - see Help													

(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)	(quarter				NE 3=SV		3 UTM in meters)		(In feet)	
	POD Sub-		Q	0	191						
POD Number	Code basin C		00000		iec Tw	s Rng	x	Ŷ		Depth Water Col	10000
CP 00593		LE	4	4 0	6 225	35E	650422	3587591* 🌺	62		
CP 00594		LE	2	1 3	4 225	35E	654553	3580819* 🍑	98		
CP 00595		LE	2	2 2	225	35E	652089	3584000* 🌍	96		
CP 00753		LE	2	2 1	4 225	35E	656891	3585687* 🌍	215	185	30
								Average Depth to	Water:	185 feet	
								Minimum	Depth:	185 feet	
								Maximum	Depth:	185 feet	
Record Count: 4				17							-
PLSS Search:											
2								ي ب			

expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

OD suffix indicates the OD has been replaced no longer serves a vater right file.)	been replaced O=orphaned, C=the file is closed)	(qua						IE 3=SW		3 UTM in me	iters)	50	(In feet)	
Jane 1994	POD Sub-		100.000	2015	Q								Depth V	
OD Number 03620 POD1	Code basin C	LE		4		32	23S	Rng 34E	X 641790	3569941	1915	Well 480	Water Co 130	350
P 00556		LE	4	4	3	08	235	34E	641762	3576206		497	255	242
P 00580		LE	3	4	3	23	235	34E	646524	3572948*	*	220	10000	10,000
CP 00606		LE		4	1	23	235	34E	646613	3573854*	-	650	265	385
P 00618		LE	1	2	4	22	235	34E	645713	3573539*	-	428	295	133
CP 00637		LE	3	з	4	15	235	34E	645293	3574541*	÷ .	430	430	0
CP 00872		LE	1	1	1	08	238	34E	641225	3577504*		500	305	195
P 01120 POD1		LE	2	3	3	14	235	34E	646366	3574753		397	318	79
P 01258 POD1		LE	1	4	3	22	235	34E	645015	3573221	9	25		
P 01258 POD2		LE	1	4	3	22	235	34E	644941	3572883	4	65		
P 01258 POD3		LE	1	4	з	22	238	34E	644941	3572883	\$	25		
										Average De	pth to W	ater:	285 fee	t
										Mir	imum D	epth:	130 fee	t
		-	24-15	23		2124			111111111	Max	timum De	epth:	430 fee	t
Record Count: 11				22										
Basin/County Search	h:													
County: Lea														
PLSS Search:														
Township: 23S	Range: 34E													

### \*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.



# 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)	(qua					NE 3=SW b largest)		3 UTM in me	eters)	(In feet)
and the second	POD Sub-			aa			1.44			Depth	Depth Water
POD Number	Code basin C						12121122001	X	Ŷ	-	Water Column
CP 00499		LE	2	3 3	23	235	35E	655875	3573194*	30 150	
CP 00568		LE	2	24	09	238	35E	653908	3576878*	875	
CP 00843		LE	3	4 2	36	235	35E	658729	3570823*	250	
									Average De	epth to Water	
									Min	nimum Depth	-
									Max	cimum Depth:	-
Record Count: 3											
Basin/County Searc	h:										
County: Lea											
PLSS Search:											
Township: 23S	Range: 35E										
1 (2) 1 (2)											
location was derived from F	LSS - see Help										