APPROVED By Olivia Yu at 8:19 am, Feb 20, 2018

PROJECT SUMMARY AND REMEDIATION WORK PLAN

NMOCD approves of the proposed delineation plan for 1RP-4929. See email correspondence for stipulations.

Fort AIO 1

API No.: 30-025-31181

Remediation Case No.: 1RP-4929

Lea County, New Mexico

Prepared for:



5057 Keller Springs Road, Suite 650 Addison, TX 75001

Prepared by:



6899 Pecos Street, Unit C Denver, Colorado 80221



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1. INTRODUCTION

Tasman Geosciences, Inc. (Tasman) has prepared this Project Summary and Remediation Work Plan (Work Plan) on behalf of Foundation Energy Management, LLC (Foundation) to document the field activities that were conducted in response to a surficial oil release at the Fort AIO 1 tank battery (Site) located in Lea County, New Mexico (Figure 1). A description of the immediate response activities and a proposed remediation work plan is included herein.

2. SITE LOCATION AND IMMEDIATE RESPONSE ACTIVITIES

The Site is located in New Mexico Oil Conservation Division (NMOCD) District 1, Unit P within the southeast quarter of the southeast quarter of section 20, township 13 south, range 34 east of the Sixth Principal Meridian (Figure 1). The facility coordinates are 33.170837 degrees north and -103.527428 degrees west. The Site is located north of Anderson Road in a rural area surrounded by privately owned land and the nearest town of Tatum, New Mexico, is located approximately 18 miles northeast of the Site.

On January 3, 2018, Foundation discovered a surface release of approximately 75 barrels (bbls) of crude oil at the Site. The release resulted from polyvinyl chloride (PVC) conveyance piping that froze and cracked due to cold temperatures. On January 8, 2018, Foundation mobilized to the Site and recovered an estimated 65 barrels (bbls) of standing oil from the surface with a vacuum truck. Approximately 45 bbls was transferred to the on-Site produced water tank for storage and disposal at a later date. Approximately 20 bbls was then transported under waste manifesting procedures to the Gandy Marley, Inc. (GM Inc.) disposal facility in Roswell, NM. In accordance with the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (*GRLSR*), Foundation submitted a C-141 Release Notification and Corrective Action Form for the Site on January 10, 2018. The NMOCD approved the C-141 on January 12, 2018 and assigned Remediation Case Number 1RP-4929 for the Site. Between January 17 and 19, 2017, Foundation removed approximately 72 cubic yards (yd³) of stained surface soils from the Site which were subsequently transported under waste manifest procedures to the GM Inc. disposal facility in Roswell, New Mexico. The transport tickets and waste manifests for the disposed liquids and soil are provided in Appendix A.

Following the removal and disposal of standing liquid and stained surface soils, clean backfill material was used for backfilling, compaction, and secondary containment berm reconstruction. Photographs illustrating the leak before and after cleanup activities are provided in Appendix B.

To assess the potential for impact to human, environmental, and cultural receptors, aerial photographs and online directories were consulted and a visual reconnaissance of the surrounding area was conducted. During the initial Site assessment, it was determined that 13 permitted water wells are located within a 1,700-meter radius of the Site. The average depth to water noted within the wells is 64 feet below ground surface (bgs) with the shallowest reported depth at 53 feet bgs. However, the depth to water within the closest well to the Site, located approximately 350 north, is noted as 65 feet bgs. The New Mexico Office of the State Engineer – Water Column/Average Depth to Water report for the 13 wells is provided as



Appendix C. Based on visual observations and a review of aerial photographs, the Site is not located within 1,000 feet of any known or labeled surface water bodies and surface water generally follows the Site topography to the north. Additionally, no permanent structures including habitable public and/or private buildings or residences (not related to oil and gas production activities) are located within a one-mile radius of the Site.

In accordance with Section IV of the *GRLSR*, soils which are contaminated by petroleum constituents are scored according to the ranking criteria summarized below to determine their relative threat to public health, fresh waters, and the environment. Based on the ranking criteria outlined in the GRLSR, the soil action levels for the Site include:

- Benzene 10 milligrams per kilogram (mg/kg).
- Total Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) 50 mg/kg; and,
- Total Petroleum Hydrocarbons (TPH) 1,000 mg/kg.

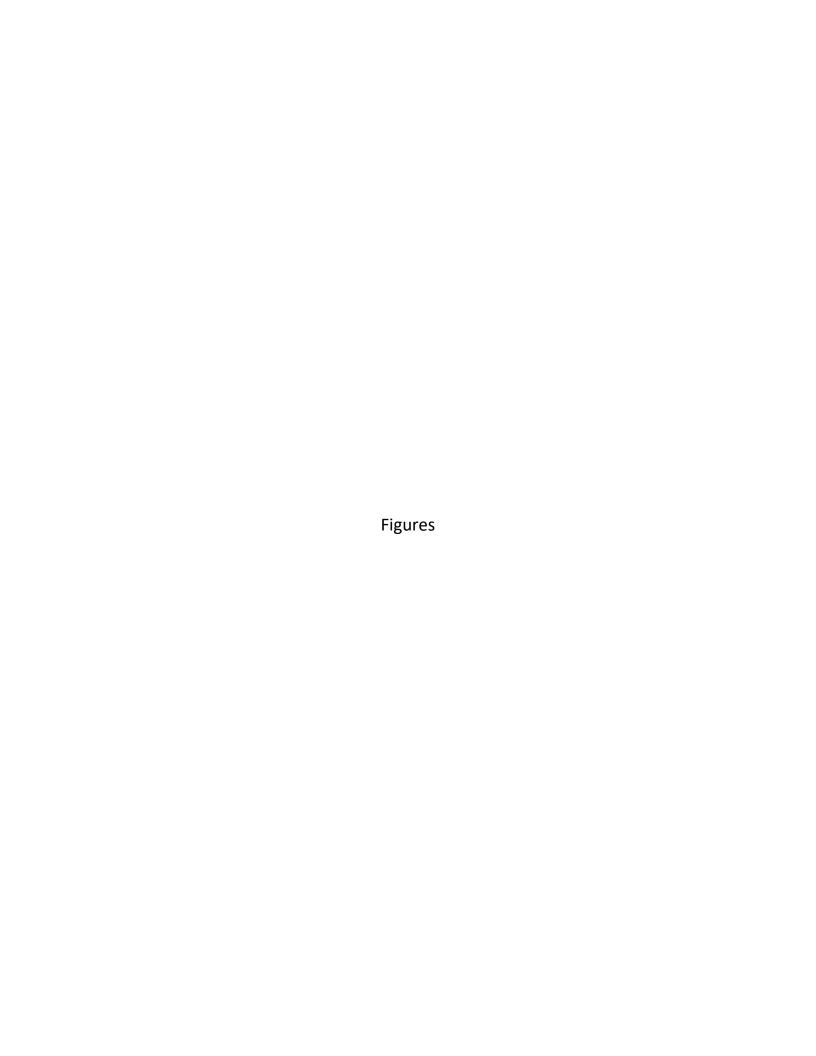
Additionally, at the directive of the NMOCD, chloride analysis will also be required at the Site with the NMOCD guideline of 250 mg/kg.

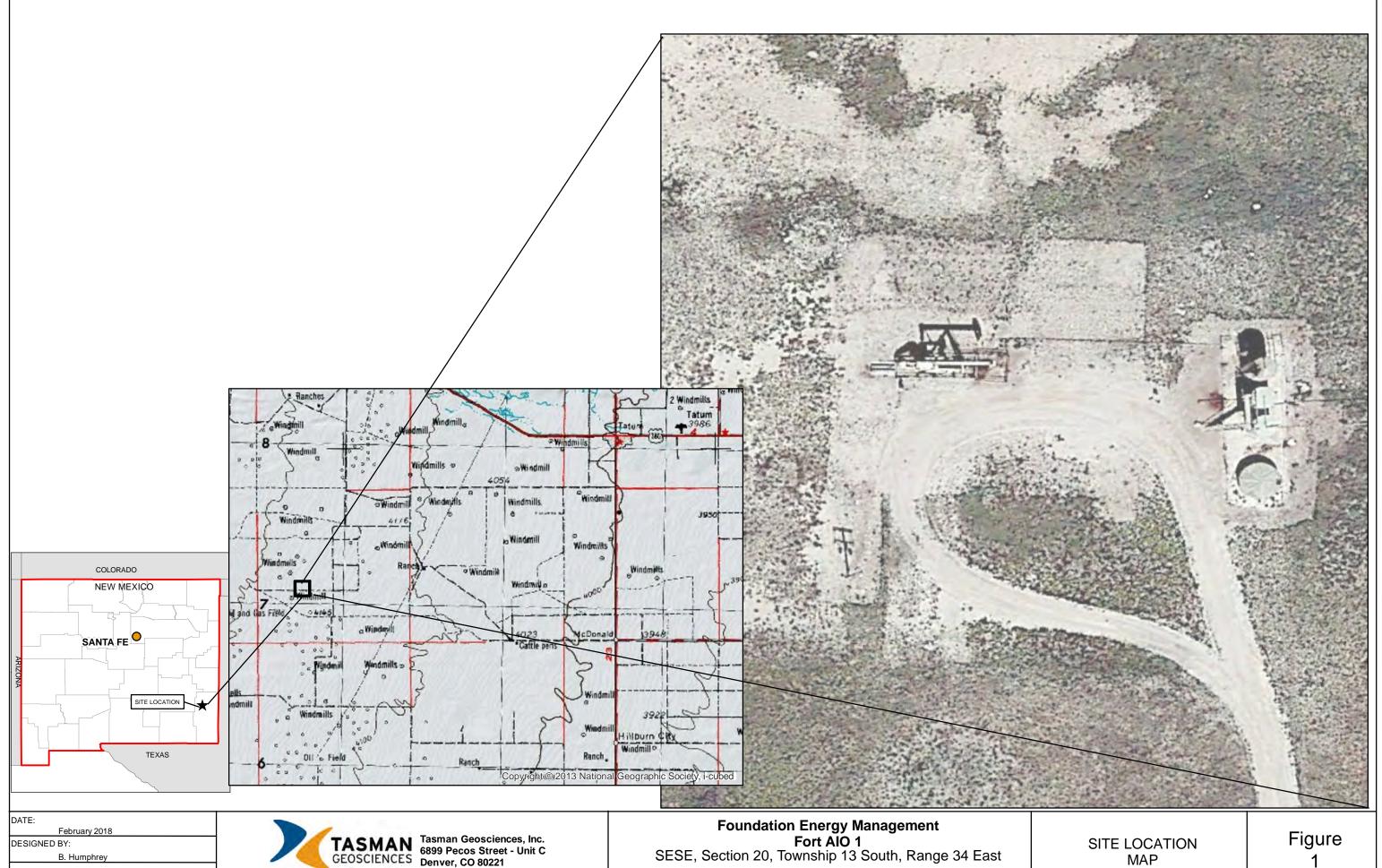
3. REMEDIATION WORK PLAN

Due to the relatively small amount of spilled liquid, the high viscosity of the spilled material, and the location and lateral and vertical extents of visually stained soils, it is anticipated that the petroleum hydrocarbon impacts caused by the spill have been mitigated through vacuum truck and excavation operations. Therefore, confirmation soil sampling activities are being proposed to verify that all impacts have been mitigated. Surface soil samples will be collected from native material and field screening using a photoionization detector (PID) and standard headspace sampling will be conducted at the locations illustrated on Figure 2 to verify that all potentially impacted soil has been removed. Imported clean backfill will be removed where needed to access native surface soils for confirmation sampling. Soil samples will be submitted for laboratory analysis of BTEX using USEPA Method 8260 or 8021, TPH using USEPA Method 8015, and chlorides using USEPA Method 300.

Pending soil sample analytical data and that the results are reported below the stated action levels and guidelines, a project summary and no further action request detailing soil sampling activities will be submitted to the NMOCD for Site closure.

However, during confirmation soil sampling activities and based on visual and PID observations, Foundation may elect to conduct supplemental soil excavation activities at that time to address residual petroleum hydrocarbon impacts that may be encountered. Subsequent to excavation activities, discrete soil samples will be collected from the extents of the excavation at approximate 20-foot intervals and will be submitted for laboratory analysis of the constituents noted above. Once excavation activities are complete and soil sample analytical data indicate that all petroleum hydrocarbon impacts have been mitigated, a project summary report and no further action request will be submitted to the NMOCD for Site Closure.



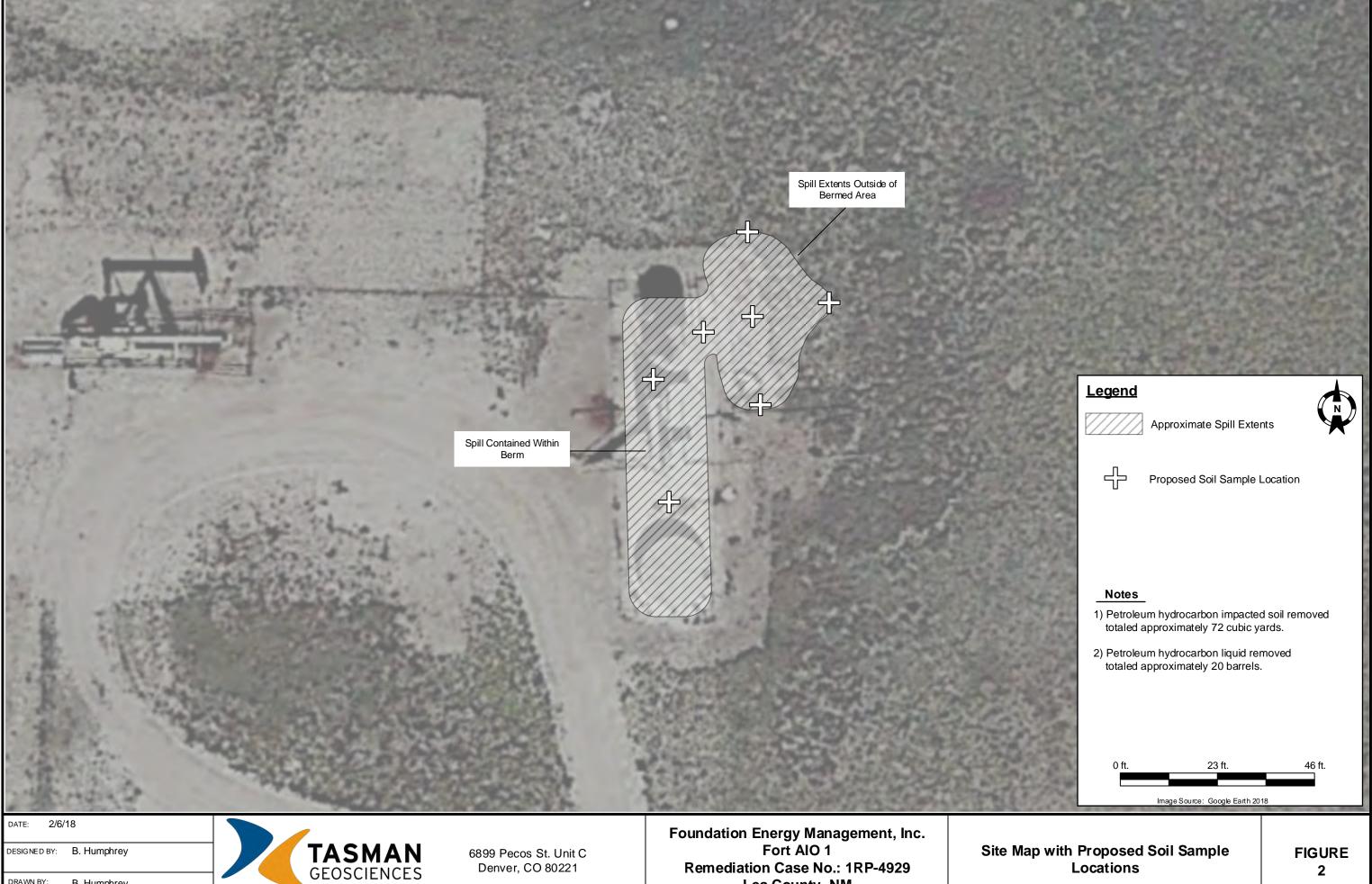


DRAWN BY:

D. Arnold

TASMAN Tasman Geosciences, Inc. 6899 Pecos Street - Unit C Denver, CO 80221

Lea County, New Mexico



Lea County, NM

B. Humphrey

Locations

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I hereby certify that the above	named material(s) was/were pic	cked up at the Generator's site	listed above and o	delivered without incid	dent to the disposal facil	ity listed below.
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I been been a word of the control of the		<u>C-138</u>			
I hereby certify that according to described waste load is (Check to	the Resource Conservation and Recovery	ery Act (RCRA) and the US	Environmental Protection	Agency's July 1988 regu	latory determination, the above
RCRA EXEMPT:	Oil field wastes generated from oil a accepts certifications on a per month	nd gas exploration and pro	oduction operations and are	e not mixed with non-exe	mpt waste. (Gandy Marley, Inc.
RCRA NON-EXEMPT:	Oil field waste which is non-hazardo	us that does not exceed th	ne minimum standards for s	waste hazardous by obor	acteristics petablished in BODA
	regulations, 40 GFR 261,21-261,24, c	or listed hazardous waste as	s defined by 40 CFR, part 20	61 subpart D as amondo	d. The following documentation
	demonstrating the waste as non-haze			ovided.)	
☐ MSDS Inf	formation	RCRA Hazardous Wast	te Analysis	☐ Other (Provide	e Description Below)
7					
■ EMERGENCY NON-OILFIELI	 Emergency non-hazardous, non-oilfie ous waste determination and a descr 	eld waste that has been ord	dered by the Department of	Public Safety. (The order,	documentation of non-hazard-
	and made determination and a descr	ipaon or the waste must ac	company this form.)		
(PRINT) ALITHODIZED AV	GENTS SIGNATURE				
(PRINT) AUTHORIZED AC	JEN 10 OIGINALUKE	DATE		SIGN	ATURE
L				7	< 1
LICH JULY	USC= 1-19-18)	GMI	1 Troles	۱7

TITLE

	NEW MEXICO NON-H	AZARDOUS OILFIELD WAST	E MANIFEST / DIS	POSAL TICKET		mpany Man Conta	
M_inc.	11487				_		
		GENERAT	<u>OR</u>		Phone i	No	
Operator No. + Coinch	Ation Enezgi	4	Location of Ori Lease/Well	PORT	AIO	BAtti	ž h
Operators Name	The state of the s	1	Name & No.				~}
						, , , , , , , , , , , , , , , , , , , ,	
City, State, Zip							
			0				
TDUCK TI	ME STAMP	DISPOSAL FA	CILITY				
11200		<u> </u>	<u> </u>		RECEIVIN	-	
IN: 7 PUL 0	OUT:			Name/No.	LAND	Fill	
Site Name / Permit No. Com	mercial Landfarm (NM-711-1-	0020)	Phone No. 57	5-345-0434			
Address 45 Crossroads, R	oswell, NM		11101101101				79
NORM Readings Ta	aken? (Circle One) YES	NO	If YES, was rea	iding > 50 micro	roentgens? (Cir	rcle One) Y	ES NO
Pass the Paint Filte	er Test? (Circle One) YES	NO					
\(\)	95	TRANSPOR					
Transporter's Name	<u>a</u> _)						
Address	my co						
Phone No.	J.O 1011 \		Phone No.	7 -	21000	363	
	named material(s) was/were picke	ed up at the Generator's site	Truck No	d delivered with	ox 1995	disposal facility	listed below
, ,	The state of the s	or up at the denotator s site				disposal facility	listed below
SHIPMENT DATE	DRIVER'S SIGNATUR	E	DELIVERY			R'S SIGNATURE	
Exempt	E&P Waste/Service Identification	tion and Amount (Place	volume next to	waste type in			
Oil Based Muds	NON-INJECTA			INJECTABL		yarası	
Oil Based Cuttings		r (Non-Injectable)			/ater (Injectable)		
Water Based Muds		uid/Flowback (Non-Injectable)			Fluid/Flowback (In	njectable)	
Water Based Cuttings Produced Formation Solids		er (Non-Injectable) Water/Waste (Non-Injectable			Vater (Injectable) ₋ine Water/Waste (I	nia atable)	
Tank Bottoms	INTERNAL US				ine water/waste (i EMPT WASTES	njectable)	
E&P Contaminated Soil Gas Plant Waste	Truck Washout	(Exempt Waste)		(Types and	generation process	s of the waste)	
Gas Plant Waste WASTE GENERATION PROCESS	S: D Drilling	☐ Completion	D. D				
	o. a binning	a completion	a Pro	duction	□ Ga	athering Lines	
	Non-Exem	pt E&P Waste/Service Id	entification and	d Amount			
(All non-ex	xempt E&P waste must be analyzed	and be below the threshold if	mits for toxicity (To	CLP), ignition, cor	rrosiveness, and re	activity.)	
Non-Exempt Other:			*Please select fr	rom Non-Exempt	Waste List on back	<	
QUANTITY:	B - Barrels	L - Liqu	id _ _ ;	3 Y - Yar	ds	E - Ea	ch
		0.400					
hambu and fall at a second		<u>C-138</u>					
described waste load is (Check th	the Resource Conservation and Rene appropriate classification)	ecovery Act (RCRA) and the t	JS Environmental	Protection Agenc	y's July 1988 regu	latory determinati	on, the above
RCRA EXEMPT:	Oil field wastes generated from	oil and gas exploration and p	roduction operation	ons and are not m	nixed with non-exe	mpt waste. (Gand	dv Marlev, Inc
	accepts certifications on a per m	onth only basis.)					
☐ RCRA NON-EXEMPT:	Oil field waste which is non-haze regulations, 40 CFR 261.21-261.2	ardous that does not exceed 24, or listed hazardous waste	the minimum stan	dards for waste h	nazardous by chara	acteristics establis	shed in RCRA
	demonstrating the waste as non-	hazardous is attached. (Chec	k the appropriate	items as provided	l.)	a. The following a	locumentation
■ MSDS Info	ormation	☐ RCRA Hazardous Wa	iste Analysis		☐ Other (Provide	Description Belo	w)
■ EMERGENCY NON-OILFIELD	 Emergency non-hazardous, non- ous waste determination and a d 	oilfield waste that has been o	rdered by the Dep	artment of Public	Safety. (The order,	documentation of	f non-hazard-
		osonphon of the waste mast	accompany this to	····. <i>)</i>			
(PRINT) AUTHORIZED AG	SENTS SIGNATURE	DATE			SIGN	ATURE	
					o o o		
7 - 1				. *	1	1	
TICH Colin	USON 1-18	. ~(&)~	GI	VII χ	TIAL).[
NAME (PRINT)	DATE		TIT	`\ `LE	100	SIGNATURE	

	NEW MEXICO NON-	HAZARDOUS OILFIELD WAST	E MANIFEST / DIS	SPOSAL TICKET	Company Man Contact Informatio
M inc.	1307			N	lame
1		GENERAT	OR	F	Phone No
Operator Not	ation Ene	204		FORT AL	O BATTERY
Operators Name	an more crock	-			DATICES)
			Name & No		
City, State, Zip					
TRUCK T	IME STAMP	DISPOSAL FA			EIVING AREA
2	OUT:			Name/No. LA N	
1	nmercial Landfarm (NM-711-1	1-0020)			
Address _45 Crossroads, F		1-0020)	Phone No. <u>57</u>	75-34 5-043 4 347-	-04.24
	Taken? (Circle One) YES	NO	If YES, was rea	ading > 50 micro roentgens	s? (Circle One) YES NO
Pass the Paint Filt	er Test? (Circle One) YES	NO		and a confidence to only one	7. (0.1010 0110)
Transporter's Name	A <	TRANSPOR	<u>TER</u>	istale a	3' 1
	4 .5		Driver's Name	1 Jeille 11	1002111
Lauing Tor	1) -100				
	0,100		Phone No		16.2.1
Phone No	named material(s) was/were nic	kod up at the Consentants site	Truck No	2- 219	1431
The above	named material(s) was/were pic	ked up at the Generator's site			to the disposal facility listed below
SHIPMENT DATE	DRIVER'S SIGNATU	RE	1-19-	18: X	DRIVER'S SIGNATURE
Exempt	E&P Waste/Service Identific			-,	
Oil Based Muds		TABLE WATERS	rolatile flext to	INJECTABLE WATERS	cubic yards)
Oil Based Cuttings	———— Washout Wa	ter (Non-Injectable)		Washout Water (Injectal	ole)
Water Based Muds Water Based Cuttings		Fluid/Flowback (Non-Injectable)			
Produced Formation Solids		ater (Non-Injectable) ne Water/Waste (Non-Injectable		Produced Water (Injecta Gathering Line Water/W	
Tank Bottoms E&P Contaminated Soil	INTERNAL U	SE ONLY		OTHER EXEMPT WAST	ES
Gas Plant Waste	Truck Washo	ut (Exempt Waste)		(Types and generation p	process of the waste)
WASTE GENERATION PROCES	SS: Drilling	☐ Completion	□ Pro	oduction	☐ Gathering Lines
	Non-Ever	mpt E&P Waste/Service Id	antification an	d Amount	
(All non-e	exempt E&P waste must be analyze	ed and be below the threshold li	mits for toxicity (T	CLP), ignition, corrosiveness, a	and reactivity.)
Non-Exempt Other:			*Please select f	from Non-Exempt Waste List or	n back
QUANTITY:	B - Barrels	L - Liqui	d	Y - Yards	E - Each
		0.400			
I hereby certify that according to	the Resource Conservation and F	C-138	S Environmental	Distriction Assessed Letter 1004	B regulatory determination, the above
described waste load is (Check the	ne appropriate classification)	recovery Act (NONA) and the c	S Environmental	Protection Agency's July 1988	B regulatory determination, the above
RCRA EXEMPT:	Oil field wastes generated from accepts certifications on a per	n oil and gas exploration and p month only basis.)	roduction operation	ons and are not mixed with no	n-exempt waste. (Gandy Marley, Inc.
RCRA NON-EXEMPT:	Oil field waste which is non-ha regulations, 40 CFR 261.21-261 demonstrating the waste as no	1.24, or listed hazardous waste:	as defined by 40 (CFR part 261 subpart D as an	r characteristics established in RCRA nended. The following documentation
☐ MSDS Inf		RCRA Hazardous Wa			rovide Description Below)
☐ EMERGENCY NON-OILFIELI	D: Emergency non-hazardous. nor	n-oilfield waste that has been o	rdered by the Den	partment of Public Sefety (The	order, documentation of non-hazard-
	ous waste determination and a	description of the waste must a	accompany this fo	rm.)	order, documentation of non-nazard-
(PRINT) AUTHORIZED AC	SENTS SIGNATURE	DATE			SIGNATURE

GMI

RICH SINSON 1-19-18
NAME (PRINT) DATE















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)

	POI Sub		Q	^	^							Donth	Donth	Water
POD Number	Code basi		-	-	-	Sec	Tws	Rng	Х	Υ	Distance	-	-	Water Column
L 10172	L	LE		4	4	20	13S	34E	637364	3671287* 🌕	121	180	65	115
L 01886 S2	L	LE			3	21	13S	34E	637967	3671494* 🌕	737	110	65	45
L 03138	L	LE	3	4	3	20	13S	34E	636458	3671173* 🌕	839	160		
<u>L 02702</u>	L	LE	3	3	1	28	13S	34E	637676	3670388* 🌑	882	132	64	68
<u>L 02068</u>	L	LE	2	1	3	28	13S	34E	637882	3670186* 🌑	1158	100		
<u>L 02703</u>	L	LE	1	1	2	28	13S	34E	638477	3671001* 🌕	1193	120	57	63
<u>L 00690</u>	R L	LE	1	1	4	21	13S	34E	638466	3671805* 🌕	1322	105	65	40
L 00690 POD4	L	LE	1	1	4	21	13S	34E	638466	3671805* 🌕	1322	120	70	50
L 01886 S	L	LE	4	1	1	21	13S	34E	637849	3672398* 🌑	1331	110	53	57
L 02069	L	LE	1	3	3	28	13S	34E	637687	3669783*	1455	130	75	55
L 01887	L	LE	2	1	1	21	13S	34E	637849	3672598* 🌑	1516	100	71	29
L 05203 X3	L	LE	3	4	4	17	13S	34E	637241	3672794* 🌕	1609	100	65	35
L 00690 S	L	LE		4	4	21	13S	34E	638976	3671309*	1683	111	60	51

Average Depth to Water: 64 feet

Minimum Depth: 53 feet

Maximum Depth: 75 feet

Record Count: 13

UTMNAD83 Radius Search (in meters):

Easting (X): 637297.38 **Northing (Y):** 3671185.7 **Radius:** 1700