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

February 8, 2018

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



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- A Waste Manifests
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- C NMOCD Water Column/Average Depth to Water Report



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 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 screeening 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. Figures





2/6/18 DATE:

DESIGNED BY: B. Humphrey

DRAWN BY: B. Humphrey



6899 Pecos St. Unit C Denver, CO 80221

Foundation Energy Management, Inc. Fort AIO 1 Remediation Case No.: 1RP-4929 Lea County, NM



Appendix A

c	NEW MEXICO NON-HAZA	ARDOUS OILFIELD WASTE M	ANIFEST / DISPO	SAL TICKET	Company Man Contact Informatio
M inc.	11310				Name
		GENERATOR	3		Phone No
Operator No	- detion Evergy		cation of Origin	Fort '	410" Bettery
Operators NameM h.	rag.		ame & No		/
Address	.,	C	ounty		
		A	PI No.		
City, State, Zip		B	ig Name & No		
			FE/PO No.	21	9374
	1				
	ME STAMP UT:	DISPOSAL FACI			RECEIVING AREA
	mercial Landfarm (NM-711-1-002	20)	hone No. 575-:	345-0434	
Address _ 45 Crossroads, R		<u></u> F	none no		
	aken? (Circle One) YES NO		VES was readi	na > 50 micro roe	entgens? (Circle One) YES No
	er Test? (Circle One) YES NO		reo, was reading		
		TRANSPORT	ER		
Transporter's Name	18 5 Services	and a second second second second			
Address	louistin				
	,		Construction of the second		
Phone No.		т	hone No ruck No	24	
	named material(s) was/were picked	up at the Generator's site li	sted above and o	lelivered without in	ncident to the disposal facility listed below
				0	the felo
SHIPMENT DATE	DRIVER'S SIGNATURE		DELIVERY D	ATE	DRIVER'S SIGNATURE
Exempt	E&P Waste/Service Identificatio	on and Amount (Place vo	lume next to w	aste type in bar	rels or cubic vards)
AND STOLEN AND STOLEN AND STOLEN		1.3 Martin Strategies	iune next to n		
Oil Based Muds Oil Based Cuttings	<u>NON-INJECTABL</u> Washout Water (N			INJECTABLE W Washout Water	
Water Based Muds		/Flowback (Non-Injectable)	1		id/Flowback (Injectable)
Water Based Cuttings	Produced Water		/	Produced Wate	
Produced Formation Solids	Gathering Line W	ater/Waste (Non-Injectable)		Gathering Line	Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE (OTHER EXEMP	PT WASTES
E&P Contaminated Soil	Truck Washout (E	Exempt Waste)		GP OUN	eration process of the waste)
Gas Plant Waste				1	- P
WASTE GENERATION PROCES	S: U Drilling	Completion	D Prod	uction	Gathering Lines
(All non-e	Non-Exempt exempt E&P waste must be analyzed ar	E&P Waste/Service Ider ad be below the threshold lim			veness, and reactivity.)
Non-Exempt Other:				m Non-Exempt Was	
C. A. C. Martine and C.	7.0 B - Barrels	L - Liquid		Y - Yards	E - Each
QUANTITY:	B - Barreis	L - Liquia		Y - Yards	E - Each
		C-138			
	and the second states of the	and the second second second second			
I hereby certify that according to described waste load is (Check the described waste load is (Check		overy Act (RCRA) and the US	Environmental P	rotection Agency's	July 1988 regulatory determination, the abo
			duction operation	s and are not mixe	d with non-exempt waste. (Gandy Marley, Ir
RCRA NON-EXEMPT:	Oil field waste which is non-hazard	dous that does not exceed th			ardous by characteristics established in RCF t D, as amended. The following documentati
	demonstrating the waste as non-hi				
MSDS Int	iormation	RCRA Hazardous Wast	te Analysis		Other (Provide Description Below)
EMERGENCY NON-OILFIEL	D: Emergency non-hazardous, non-oi ous waste determination and a des				fety. (The order, documentation of non-hazar
(PRINT) AUTHORIZED A	GENTS SIGNATURE	DATE			SIGNATURE
USCAr Bur.	1-8-1	F	GN	1	Omm
NAME (PRINT)	DATE		TITL	E	SIGNATURE

SUPERIOR PRINTING SERVICE, INC.

	NEW MEXICO NON-HAZARDOUS C	DILFIELD WASTE MANIFEST	/ DISPOSAL TICKET	Company Man Contact Information
GM inc	4 4 A 19 ()			Name
	1 2 776242	GENERATOR		Phone No
Found	ation Energy Man	a MPAT Location	of Origin FCr+	"Alc' Battery
Operator No.	LC	Name & N		
Operators Name				
Address		•		
Phone No			NO	
TRUCK TIN	IE STAMP DIS	POSAL FACILITY		RECEIVING AREA
IN: 1.10 OL	JT:		Name/No.	andfill
	nercial Landfarm (NM-711-1-0020)	Phone No	o. 575-345-0434	
Address 45 Crossroads, Ro			so we dia a 50 miana na	entaens? (Circle One) YES NO
NORM Readings Tal	ken? (Circle One) YES NO ⁻ Test? (Circle One) YES NO	. If YES, W	as reading > 50 micro ro	entgens? (Circle One) TES NO
	т	RANSPORTER		
Transporter's Name	Als service	C: Driver's I	Name	
Address		,		
		Phone N	0.	
		Truck No		
I hereby certify that the above na	amed material(s) was/were picked up at the	Generator's site listed ab	ove and delivered without i	ncident to the disposal facility listed below.
		1/17	7/18 1	Since O Casta
SHIPMENT DATE	DRIVER'S SIGNATURE	DE	LIVERY DATE	DRIVER'S SIGNATURE
Exempt E	E&P Waste/Service Identification and A	mount (Place volume n	ext to waste type in bar	rels or cubic yards)
Oil Based Muds	NON-INJECTABLE WATER	IS	INJECTABLE V	VATERS
Oil Based Cuttings	Washout Water (Non-Inject		Washout Wate	
Water Based Muds . Water Based Cuttings .	Completion Fluid/Flowback		Completion Flu Produced Wate	id/Flowback (Injectable)
Produced Formation Solids	Gathering Line Water/Wast	THE REPORT OF THE REPORT OF		Water/Waste (Injectable)
Tank Bottoms			OTHER EXEM	PT WASTES Peration process of the waste)
E&P Contaminated Soil Gas Plant Waste	Truck Washout (Exempt W	aste)	(Types and ger	
WASTE GENERATION PROCESS	S: Drilling	pletion	□ Production	Gathering Lines
(4)	Non-Exempt E&P Wa empt E&P waste must be analyzed and be belo	aste/Service Identificati		iveness and reactivity)
Non-Exempt Other:			select from Non-Exempt Wa	
QUANTITY:	B - Barrels	L - Liquid	Y - Yards	E - Each
		<u>C-138</u>		
	the December Occurrentian and December Act		mental Protection Accordin	July 1999 regulatory determination the above
described waste load is (Check the	the Resource Conservation and Recovery Act e appropriate classification)	(RCRA) and the US Environ	imental Protection Agency's	July 1900 regulatory determination, the above
CRA EXEMPT:			operations and are not mixe	ed with non-exempt waste. (Gandy Marley, Inc
	accepts certifications on a per month only b			
RCRA NON-EXEMPT:	Oil field waste which is non-hazardous that	does not exceed the minim bazardous waste as defined	um standards for waste haz	ardous by characteristics established in RCRA rt D, as amended. The following documentation
	demonstrating the waste as non-hazardous	is attached. (Check the app	ropriate items as provided.)	
MSDS Info	prmation 🚨 RC	RA Hazardous Waste Analys	sis 🛛	Other (Provide Description Below)
EMERGENCY NON-OILFIELD	 Emergency non-hazardous, non-oilfield was ous waste determination and a description of 	te that has been ordered by	the Department of Public Sa	afety. (The order, documentation of non-hazard
	ous waste determination and a description (a the waste must accompar	iy and lond.	
(PRINT) AUTHORIZED AG	SENTS SIGNATURE	DATE		SIGNATURE
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Δ	T			
Harch	Inroel 1/17/18		GMI	lever world

NAME (PRINT)

2 DATE

TITLE

SIGNATURE SUPERIOR PRINTING SERVICE, INC.

	NEW MEX	(ICO NON-HAZA	RDOUS OILFIELD WAS	STE MANIFEST / DI	ISPOSAL TICKE	т	Company	Man Contact Information
GALING							Name	
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Operator No. Found	Ations En	Seegy		Location of C Lease/Well _	Drigin 62-	t "f	410	BAttery
Operators Name)		Name & No.				/
Address				County				
				API No.				
City, State, Zip				Rig Name & I	No			
Phone No.				AFE/PO No.				
			DISPOSAL F					
TRUCK TI	IME STAMP		DISPOSALI	AULITT	Name/N	IN LAN	seiving a	
						<u>.</u>		
Site Name / Permit No. Con		(NM-711-1-002	20)	Phone No.	575-345-0434			
Address 45 Crossroads, R								
	Taken? (Circle One)			If YES, was r	eading > 50 m	icro roentge	ns? (Circle O	ne) YES NO
Pass the Paint Filt	er Test? (Circle One)	YES NO	-	DTED				
(γ)	45		TRANSPO					
Transporter's Name								
Address		1						
LOUNGE	in' vu	<u>\</u>		and the second s	()	0	ac	0
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I hereby certify that the above	named material(s) wa	as/were picked u	up at the Generator's	site listed above a	and delivered w	vithout incide	nt to the disp	osal facility listed below
				1-18	-18	X	ULL l'	Lastre
SHIPMENT DATE		S SIGNATURE		DELIVE	RY DATE		DRIVER'S S	IGNATURE
Exempt	t E&P Waste/Servic	e Identificatio	n and Amount (Pla	ce volume next	to waste type	in barrels o	or cubic yard	ls)
Oil Based Muds		ON-INJECTABL				TABLE WATER		
Oil Based Cuttings		Vashout Water (N	Ion-Injectable) /Flowback (Non-Injecta			ut Water (Inject	table) wback (Injecta	
Water Based Muds Water Based Cuttings		Produced Water (010)		etion Fluid/Flo		Die)
Produced Formation Solids			ater/Waste (Non-Inject	able)			/Waste (Injecta	able)
Tank Bottoms	I	NTERNAL USE C	ONLY	5 1945 A 19-17		R EXEMPT WA		
E&P Contaminated Soil	1	ruck Washout (E	xempt Waste)		(Types	and generatio	n process of th	ne waste)
Gas Plant Waste WASTE GENERATION PROCES			Completion		Production		Gatheri	na Linco
WASTE GENERATION PROCES	ss. a brining						L Gattien	
(All non-e	exempt E&P waste mus		E&P Waste/Service ad be below the thresho			, corrosivenes	s, and reactivit	ty.)
Non-Exempt Other:				*Please selec	ct from Non-Exe	mpt Waste Lis	at on back	
QUANTITY:	В	- Barrels	L - L	.iquid 🔟	<u>ک_</u> ۲.	Yards		E - Each
			<u>C-13</u>	8				
I hereby certify that according to described waste load is (Check t			very Act (RCRA) and t	he US Environmen	tal Protection Ag	gency's July 1	988 regulatory	determination, the above
RCRA EXEMPT:	Oil field wastes ge accepts certification			nd production oper	rations and are r	not mixed with	non-exempt v	waste. (Gandy Marley, In
RCRA NON-EXEMPT:	regulations, 40 CF	R 261.21-261.24	, or listed hazardous wa	aste as defined by 4	40 CFR, part 261	, subpart D, as		stics established in RCF e following documentation
_		waste as non-ha	azardous is attached. (0	Check the appropria	ate items as prov			
MSDS In	nformation		RCRA Hazardou	s Waste Analysis		Othe	er (Provide Des	cription Below)
EMERGENCY NON-OILFIEL			field waste that has be cription of the waste m			ublic Safety. (The order, doci	umentation of non-hazar
(PRINT) AUTHORIZED A			DATE				SIGNATUF	26
	GENTS SIGNATURE		DATE				GIGINATUP	
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	NXX		10		GMI		1341	
NAME (PRINT))	DATE			TITLE	l	SIGN	IATURE

SUPERIOR PRINTING	SERVICE, INC.

G	NEW MEXICO NON-H	AZARDOUS OILFIELD WASTE	MANIFEST / DISP	OSAL TICKET		npany Man Contact Informatic
W inc.						No.
N	1.00 - 4	GENERATO	<u>DR</u>			
Operator No. LOUNT	tion grendy Ma	magment LLC.	Location of Origi	" Fort "	AIO'	Battery
Operators Name			Name & No			
Address						
0.25	IME STAMP DUT:	DISPOSAL FAC		Name/No. 1-	andf	
Site Name / Permit No Con	nmercial Landfarm (NM-711-1-	0020)			•	
Address _45 Crossroads, F			Phone No575-	545-0454		
NORM Readings Pass the Paint Filt	Taken? (Circle One) YES ter Test? (Circle One) YES	NO		ing > 50 micro roe	entgens? (Cir	cle One) YES NC
	AJ S Service	AC				
Address						· · · · · · · · · · · · · · · · · · ·
			Phone No.)		
Phone No	named material(s) was/were picke	d up at the Generator's site	Truck No.			
			1/18/18	delivered without ir B	MUL	disposal facility listed below
SHIPMENT DATE	DRIVER'S SIGNATUR		DELIVERY D			R'S SIGNATURE
Exempt	E&P Waste/Service Identifica	tion and Amount (Place v	olume next to w	aste type in barr	els or cubic	yards)
Oil Based Muds	NON-INJECTA			INJECTABLE W		
Oil Based Cuttings		r (Non-Injectable)		Washout Water		
Water Based Muds Water Based Cuttings		uid/Flowback (Non-Injectable)		Completion Flui		jectable)
Produced Formation Solids		er (Non-Injectable) Water/Waste (Non-Injectable)		Produced Water Gathering Line \		niectable)
Tank Bottoms	INTERNAL US			OTHER EXEMP		
E&P Contaminated Soil Gas Plant Waste	Truck Washout	t (Exempt Waste)		(Types and gene	eration process	of the waste)
WASTE GENERATION PROCES	SS: 🗆 Drilling		C Prod	uction	□ Ga	thering Lines
(All non-e	Non-Exem exempt E&P waste must be analyzed	pt E&P Waste/Service Ide and be below the threshold lir	entification and a nits for toxicity (TCL	Amount _P), ignition, corrosiv	eness, and rea	activity.)
Non-Exempt Other:				m Non-Exempt Wast		
QUANTITY:	B - Barrels	L - Liqui	15	Y - Yards	IS LIST ON DACK	
	D Banola	L - Liqui		Y - Yards		E - Each
		C-138				
I hereby certify that according to described waste load is (Check to	the Resource Conservation and Re		S Environmental Pr	otection Agency's J	uly 1988 regul	atory determination, the above
	Oil field wastes generated from accepts certifications on a per m	oil and gas exploration and pr onth only basis.)	oduction operation	s and are not mixed	with non-exer	npt waste. (Gandy Marley, Inc
RCRA NON-EXEMPT:	Oil field waste which is non-haz regulations, 40 CFR 261.21-261. demonstrating the waste as non-	Or listed hazardous waste a	as defined by 40 CE	R part 261 subpart	dous by chara D, as amended	acteristics established in RCRA
MSDS Int		RCRA Hazardous Was			Other (Provide	Description Below)
EMERGENCY NON-OILFIEL	D: Emergency non-hazardous, non- ous waste determination and a d	oilfield waste that has been or escription of the waste must a	dered by the Depar accompany this form	tment of Public Safe	ty. (The order,	documentation of non-hazard
(PRINT) AUTHORIZED A	GEN 13 SIGINATURE	DATE			SIGNA	TURE
Aaron Tarbo	1/18/18	3	GM	I .	hun	Inter
NAME (PRINT)	DATE		TITLE	*		SIGNATURE

SIGNATURE SUPERIOR PRINTING SERVICE, INC.

	NEW MEXICO NON	-HAZARDOUS OILFIELD WAST	E MANIFEST / DIS	SPOSAL TICKET	Company Man Cont	tact Information
GAL	16604				Name	
YVLinc.	· 11、12、12年1月	051150.17	~~		Phone No	
Operator No. FOUN	dAtion ENER	GENERAT	OR Location of Or Lease/Well	igin FOZT A	10 BATTE	24
Operators Name						7
Address			County			
City, State, Zip						
Phone No						
TDUOK		DISPOSAL FA		r · · · · · · · · · · · · · · · · · · ·		
	TIME STAMP	DIGT CORE TA			CEIVING AREA	
IN: 4 SCAM	OUT:			Name/No.LA	Ndfill	
Site Name / Permit No.	ommercial Landfarm (NM-711-	1-0020)	Phone No. 57	5-345-0434 34	7-0434	
Address45 Crossroads	, Roswell, NM					· · · · · · · · · · · · · · · · · · ·
	s Taken? (Circle One) YES Filter Test? (Circle One) YES	NO NO	If YES, was rea	ading > 50 micro roento	gens? (Circle One)	YES NO
2		TRANSPOR	TER		تيم ترون	
Transporter's Name $\hat{\mu}$			Driver's Name		1 Caster	-
Address	an in		Print Name			
LOUING T	an inn		Phone No.		A 0 0	
Phone No.			Truck No.		9930	
Thereby certify that the above	ve named material(s) was/were pi	cked up at the Generator's sit				
SHIPMENT DATE	DRIVER'S SIGNATI	IDE	1 - 19 - 19 - 1000	<u>18</u> x	DRIVER'S SIGNATURE	
	pt E&P Waste/Service Identifi					
Oil Based Muds		TABLE WATERS	volume next to			
Oil Based Cuttings		ater (Non-Injectable)	-	INJECTABLE WATE Washout Water (Inje		
Water Based Muds		Fluid/Flowback (Non-Injectable)		lowback (Injectable)	
Water Based Cuttings Produced Formation Solids		Vater (Non-Injectable)		Produced Water (In	jectable)	
Tank Bottoms	Gathering L	ine Water/Waste (Non-Injectable	e)	Gathering Line Wat OTHER EXEMPT W	er/Waste (Injectable)	
E&P Contaminated Soil		out (Exempt Waste)			ion process of the waste)	
Gas Plant Waste		_				
WASTE GENERATION PROC	ESS: J Drilling	Completion	🗅 Pro	oduction	Gathering Lines	
(All nor	Non-Exe n-exempt E&P waste must be analyz	empt E&P Waste/Service Id	lentification an	d Amount		
Non-Exempt Other:	i okompi zar waste mast de analyz					
QUANTITY:	B - Barrels		L	irom Non-Exempt Waste L		
COANTITI.	B - Barrels	L - Liqu	id	Y - Yards	E - Ea	ach
		C-138				
I hereby certify that according described waste load is (Checl	to the Resource Conservation and k the appropriate classification)		JS Environmental	Protection Agency's July	1988 regulatory determinat	ion, the above
		m oil and gas exploration and p r month only basis.)	production operation	ons and are not mixed wit	h non-exempt waste. (Gan	dy Marley, Inc.
RCRA NON-EXEMPT:	regulations, 40 GFR 201.21-20	azardous that does not exceed	as defined by 40 (CER nart 261 subnart D a	us by characteristics establi as amended. The following o	ished in RCRA
	Information	on-hazardous is attached. (Cher			er (Provide Description Belo	ow)
	ELD: Emergency non-hazardous, no ous waste determination and a	a description of the waste must	accompany this fo	partment of Public Safety. (prm.)	(The order, documentation o	of non-hazard-
(PRINT) AUTHORIZED	AGENTS SIGNATURE	DATE			SIGNATURE	
1				1	\sim 1	
CICH Joh	NSCN 1-19	-18	G		AL WA	
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					SUBERIOR PRINTING	

SUPERIOR PRINTING SERVICE

	NEW MEXICO NON-F	HAZARDOUS OILFIELD WASTE	MANIFEST / DISPO	SAL TICKET	Company Man	Contact Information
M inc.					Name	
	8 8 G 128 7	GENERAT)B		Phone No.	
Operator No. Farinder + H	ON ENELY	<u>4</u>		FORT A	10 BA-	++724
Operators Name		1	Name & No	- •		J
Address			County			
			API No			
City, State, Zip			-			
Phone No			AFE/PO No			
TRUCK TIME ST	AMP	DISPOSAL FAC		B	ECEIVING AREA	
112.0			1	3	INdFill	
Site Name / Permit No. Commercial		-0020)	Phone No. 575-3			
Address 45 Crossroads, Roswell,						
NORM Readings Taken? (C			If YES, was readin	ig > 50 micro roent	tgens? (Circle One)	YES NO
Pass the Paint Filter Test?	(Circle One) YES	NO TRANSPOR	TED			
Transporter's Name	5					
Address						
Loungton	NM					
Phone No			Truck No.	- 21	GGAG	
I hereby certify that the above named n	naterial(s) was/were pick	ked up at the Generator's site	listed above and de	elivered without inci	ident to the disposal f	acility listed below
	.,		1-18-1			a Tare
SHIPMENT DATE	DRIVER'S SIGNATUR	RE	DELIVERY DA		DRIVER'S SIGNAT	TUBE
Exempt E&P W	aste/Service Identifica	ation and Amount (Place v	volume next to wa	ete type in barrol		IOAL
Oil Based Muds		ABLE WATERS				
Oil Based Cuttings		er (Non-Injectable)		INJECTABLE WAT Washout Water (In		
Water Based Muds		luid/Flowback (Non-Injectable)			Flowback (Injectable)	
Water Based Cuttings Produced Formation Solids		ter (Non-Injectable) e Water/Waste (Non-Injectable)		Produced Water (I		-
Tank Bottoms	INTERNAL US			OTHER EXEMPT \	ater/Waste (Injectable)	
E&P Contaminated Soil	Truck Washou	ut (Exempt Waste)			tion process of the was	te)
Gas Plant Waste	lling					
WASTE GENERATION PROCESS: U Dr	lling	Completion	Produce	ction	Gathering Lin	les
(All non-exempt E8	Non-Exen	npt E&P Waste/Service Ide d and be below the threshold lir	entification and A mits for toxicity (TCLF	mount), ignition, corrosiver	ness, and reactivity.)	
				Non-Exempt Waste		
QUANTITY:	B - Barrels	L - Liqui	12	Y - Yards		E - Each
		= = = = = = = = = = = = = = = =			E	
		<u>C-138</u>				
I hereby certify that according to the Reso described waste load is (Check the approp	ource Conservation and R riate classification)		S Environmental Pro	tection Agency's July	y 1988 regulatory deterr	mination, the above
CRCRA EXEMPT: Oil fie	ld wastes generated from ts certifications on a per r	oil and gas exploration and pr month only basis.)	roduction operations	and are not mixed w	ith non-exempt waste.	(Gandy Marley, Inc.
regula	tions, 40 CFR 261.21-261	zardous that does not exceed t .24, or listed hazardous waste a n-hazardous is attached. (Checi	as defined by 40 CFR.	part 261 subpart D	ous by characteristics e as amended. The follow	stablished in RCRA ving documentation
MSDS Information		RCRA Hazardous Was		_	her (Provide Description	n Below)
EMERGENCY NON-OILFIELD: Emergous w	ency non-hazardous, nor	n-oilfield waste that has been or description of the waste must a	rdered by the Departr accompany this form.)	ment of Public Safety)	. (The order, documenta	tion of non-hazard-
(PRINT) AUTHORIZED AGENTS SI		DATE			SIGNATURE	
		DATE		. 1	SIGNATURE	
		DATE	GMI	h	SIGNATURE	

6	NEW MEXICO NON-H	AZARDOUS OILFIELD WAST	E MANIFEST / DISF	OSAL TICKET	Company Man Contact Informatio
M inc.					Name
		GENERAT	OR		Phone No
Operator Not Cont	Ation Encer	AY		FORT A	10 BAttery
Operators Name		.) .	Name & No.		
Address					
City, State, Zip					
TRUCK T	IME STAMP	DISPOSAL FA			
0					EIVING AREA
	DUT:			Name/No. LA M	udtill
Site Name / Permit No. Con	mercial Landfarm (NM-711-1-	0020)	Phone No. 575	-345-0434 347	-0434
Address 45 Crossroads, F	loswell, NM				
	Taken? (Circle One) YES	NO	If YES, was read	ling > 50 micro roentge	ns? (Circle One) YES NO
Pass the Paint Filt	er Test? (Circle One) YES	NO			
	8 S	TRANSPOR	TER	i Anto 1	lastra
					6629112
LOUINGTON	し、しろ		Print Name		
Phone No.			Phone No.	- 21	0(3)
	named material(s) was/were picke	ed up at the Generator's site	Iruck No.	delivered without incide	nt to the disposal facility listed below.
	in the minimum in strend the second				
SHIPMENT DATE	DRIVER'S SIGNATUR	E	DELIVERY	DATE Y	DRIVER'S SIGNATURE
Exempt	E&P Waste/Service Identification	tion and Amount (Place v	volume next to w	vaste type in barrels o	r cubic vards)
Oil Based Muds	NON-INJECTA			INJECTABLE WATER	
Oil Based Cuttings Water Based Muds		r (Non-Injectable)		Washout Water (Inject	table)
Water Based Cuttings		uid/Flowback (Non-Injectable) er (Non-Injectable)		Completion Fluid/Flow Produced Water (Inject	
Produced Formation Solids		Water/Waste (Non-Injectable))	Gathering Line Water	
Tank Bottoms E&P Contaminated Soil	INTERNAL US			OTHER EXEMPT WAS	
Gas Plant Waste		t (Exempt Waste)		(Types and generation	process of the waste)
WASTE GENERATION PROCES	S: Drilling	Completion	🗆 Prod	luction	Gathering Lines
					-
(All non-e	Non-Exem xempt E&P waste must be analyzed	pt E&P Waste/Service Ide and be below the threshold lin	entification and mits for toxicity (TC	Amount P) ignition corresiveness	and reactivity)
Non-Exempt Other:					
QUANTITY:	B - Barrels	L - Liqui		m Non-Exempt Waste List	
		L • Elqui	۵ <u> </u>	f - fards	E - Each
		<u>C-138</u>			
hereby certify that according to	the Resource Conservation and Re	covery Act (RCRA) and the U	IS Environmental Pr	rotection Agency's July 19	88 regulatory determination, the above
described waste load is (Check the RCRA EXEMPT:	e appropriate classification)				
	accepts certifications on a per m	onth only basis.)	roduction operation	s and are not mixed with	non-exempt waste. (Gandy Marley, Inc.
RCRA NON-EXEMPT:	Oil field waste which is non-haza	ardous that does not exceed	the minimum stand	ards for waste hazardous	by characteristics established in RCRA
	regulations, 40 CFR 261.21-261.2 demonstrating the waste as non-	24. or listed hazardous waste a	as defined by 40 CF	R part 261 subpart D as	amended. The following documentation
MSDS Infe		RCRA Hazardous Was			(Provide Description Below)
					(Fronce Description Below)
EMERGENCY NON-OILFIELD	: Emergency non-hazardous, non-	oilfield waste that has been or	rdered by the Depa	tment of Public Safety. (Th	ne order, documentation of non-hazard-
	ous waste determination and a de	escription of the waste must a	accompany this form	n.)	
(PRINT) AUTHORIZED AG	ENTS SIGNATURE	DATE			
		DATE			SIGNATURE
7				-	\sim 1
SIGH Sha	50-1-19-	- (²)	GM		(1)
NAME (PRINT)	DATE				SIGNATURE
	27116			-	SUPERIOR PRINTING SERVICE, INC.

Appendix B







Appendix C



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

(R=POD has (A CLW##### in the been replaced, POD suffix indicates the POD has been replaced O=orphaned, & no longer serves a 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 Sub-QQQ **Depth Depth Water POD Number** Code basin County 64 16 4 Sec Tws Rng Х Υ Distance Well Water Column L 10172 L LE 4 4 20 13S 34E 637364 3671287* 121 180 65 115 L 01886 S2 LE 21 13S 34E 637967 110 65 L 3 3671494* 737 45 L 03138 L LE 3 4 3 20 13S 34E 636458 3671173* 839 160 L 02702 L LE 3 3 1 28 13S 34E 637676 3670388* 882 132 64 68 L LE 2 1 3 28 13S 34E 100 L 02068 637882 3670186* 1158 L LE 1 1 2 28 13S 34E 638477 3671001* 1193 120 57 63 L 02703 L LE 1 1 4 21 13S 34E 105 L 00690 R 638466 3671805* 1322 65 40 L LE 1 1 4 21 13S 34E 638466 1322 120 70 50 L 00690 POD4 3671805* L 01886 S L LE 4 1 1 21 13S 34E 637849 3672398* 1331 110 53 57 L LE 1 3 3 28 13S 34E 130 L 02069 637687 3669783* 1455 75 55 L 01887 L LE 2 1 1 21 13S 34E 637849 3672598* 1516 100 71 29 L LE L 05203 X3 3 44 17 13S 34E 637241 3672794* 1609 100 65 35 L 00690 S L LE 4 4 21 13S 34E 3671309* 1683 51 638976 111 60 64 feet Average Depth to Water: Minimum Depth: 53 feet 75 feet Maximum Depth: Record Count: 13

UTMNAD83 Radius Search (in meters):

Easting (X): 637297.38

Northing (Y): 3671185.7

Radius: 1700

*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.