

21 February 2016

Mr. Jamie Keyes Environmental Specialist NMOCD 1625 N. French Drive Hobbs, New Mexico 88240 **RECEIVED** By JKeyes at 8:11 am, Mar 04, 2016



RE: Final Closure Report Vanguard – Grizzell B#7 UL-G, Section 8, Township 22 South, Range 37 East Lea County, New Mexico NMOCD Reference # 1RP 3277

Mr. Keyes:

The following *Final Closure Report* serves as a condensed update on closure activities for the above referenced Site.

Background Information:

Flow line rupture causing spray and loss of 10 bbls crude oil. Vacuum truck called upon discovery and approximately 10 bbls picked up. Backhoe called to cover remaining spillage. A 30' x 50' area at back of gathering site was affected by the release. Oil was picked up and then covered ground with new fill dirt.

Remediation Activities:

EPI personnel mobilized on the site on January 29, 2016 to collect soil samples via backhoe and hand auger to determine if the release area has been remediated of contamination. A total of four (4) soil samples were collected from four (4) sample locations. All samples were field tested for organic vapors and chloride concentrations. Soil samples were placed in self-sealing polyethylene bags and allowed to equilibrate to ~70° F. Soil samples were tested for organic vapors utilizing a Mini-RaeTM Photoionization Detector (PID) equipped with a 10.6 electron-volt (eV) lamp calibrated for benzene response. Chloride concentrations were determined via use of a LaMotte Chloride Kit (Titration Method). All samples were placed on ice and transported to Cardinal Labs in Hobbs, New Mexico for testing. Laboratory results indicated the release area to be void of Benzene, BTEX, TPH, and Chloride concentrations in excess of NMOCD Recommended Remedial Action Levels (RRALs) of 10 mg/Kg, 50 mg/Kg, 1,000 mg/Kg, and 500 mg/Kg, respectively, in all samples (reference *Figure 3* and *Table 2*).

In mid-2014 NMOCD approved a work plan as submitted by Safety and Environmental Solutions, Inc. (SESI), of Hobbs, NM. The work plan proposed to excavate the release area to a depth where the level of contamination is below NMOCD RRALs. After excavation activities the site would be backfilled with clean soil.



Closure Activities:

It is uncertain at this time when the remediation work was done, but based on laboratory analytical data, it appears the work has been completed as per the NMOCD approved work plan.

Should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at <u>ddominguezepi@gmail.com</u> or Mr. JT Terry at (432) 362-2209 or via e-mail at <u>jterry@vnrllc.com</u>. All official communication should be addressed to:

Mr. JT Terry Vanguard 4001 Penbrook, Suite 201 Odessa, Texas 79762

Sincerely,

ENVIRONMENTAL PLUS, INC.

Daniel Dominguez Environmental Consultant

- cc: JT Terry, Production Foreman Vanguard File
- Encl.: Figure 1 Area Map
 Figure 2 Site Location Map
 Figure 3 Site/Sample Map
 Table 1 Well Data
 Table 2 Summary of Soil Sample Field Testing and Laboratory Analytical Results
 Attachment I Photographs
 Attachment II Laboratory Analytical Results
 Attachment III Copy of Initial NMOCD Form C-141, Final C-141

FIGURES







TABLES

TABLE 1

Well Data

Vanguard - Grizzell B#7

Ref #	Well Number	Use	Use Diversion ^A	Owner	q64	q16	q4	Sec 7	wsp F	lng	Easting	q64 q16 q4 Sec Twsp Rng Easting Northing	Date Surface Measured Elevation ^B		Depth to Water
															(ft bgs)
1	CP 00422	STK	3	PRISCILLA B MOODY	3	4 4	4	4	4 22S 37E	۲E ا	672777	3587870	672777 3587870 25-Mar-67	3,430	92
2	CP 00666	DOM	3	LARRY HENSON			2	5	22S 3	37E	671055	3588939	3588939 27-Aug-84	3,446	62
3	CP 00481	DOM	3	NIX OSBORN	4	2 2	2	5	5 22S 37E	17E	671349	3589047	671349 3589047 11-Apr-70	3,450	90
4	CP 00756	DOL	3	CHARLIE BETTIS	2	2	4	6	9 22S 37E	17E	672999	3586863	672999 3586863 30-Oct-90	3,421	85
5	CP 01353	DOL	3	CHARLIE BETTIS	3	-	З	6	9 22S 37E	17E	671513	3586640	3586640 18-May-15	3,409	73
9	CP 00871	DOM	3	BILL TRULL			3	6	9 22S 37E	17E	671902	3586541	3586541 29-Sep-97	3,410	94

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1)

 $^{\rm B}$ = Elevation interpolated from USGS topographical map based on referenced location. A = In acre feet per annum

STK = 72-12-1 Livestock watering

DOM = 72-12-1 Domestic one household DOL = 72-12-1 Domestic and Livestock watering quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

TABLE 2 ummary of Soil Sample Field Testing and Laboratory A Vanguard

[ide (g)		0	0	0]
	Chloride (mg/Kg)	80	<16.0	<16.0	<16.0	500	
	Total TPH (mg/Kg)	<20.0	<20.0	<20.0	<20.0	1,000	
	GRO DRO C6-C10 C10-C28 (mg/Kg) (mg/Kg)	<10.0	<10.0	<10.0	<10.0		
	GRO C6-C10 (mg/Kg)	<10.0	<10.0	<10.0	<10.0		
	Total BTEX (mg/Kg)	<0.300	<0.300	<0.300	<0.300	50	
	Total Xylenes (mg/Kg)	<0.150	<0.150	<0.150	<0.150		
	Toluene Ethylbenzene (mg/Kg) (mg/Kg)	<0.050	<0.050	<0.050	<0.050		
Grizzell B#7	Toluene (mg/Kg)	<0.050	<0.050	<0.050	<0.050		
9	Benzene (mg/Kg)	<0.050	<0.050	<0.050	<0.050	10	
	PID Field Reading Chloride (ppm) (mg/Kg)	160	120	120	80		
	PID Reading (ppm)	1.2	1.3	1.0	10.6	100	
	Soil Status Sample Date Reading Chloride (ppm)	29-Jan-16	29-Jan-16	29-Jan-16	0.5 In-Situ 29-Jan-16	dial Action	
	Soil Status	In-Situ	In-Situ	In-Situ	In-Situ	NMOCD Recommended Remedial Action Levels	
	Depth (feet)	4	7	6	0.5	kecomm. L	p_{i}
	Lab Sample Depth ID (feet)	TT2	TT3	TT4	6HA	NMOCD F	= Not Analyzed

- - = Not Analyzed Bold values are in excess of NMOCD Recommended Remedial Action Levels

ATTACHMENTS

ATTACHMENT I Photographs



Photograph #1 – Southwest view over location



Photograph #2 – Southwest view across location



Photograph #3 – Looking west across location



Photograph #4 – Looking west across location



Photograph #5 – Looking west across location



Photograph #6 – Looking west across location

ATTACHMENT II Laboratory Analytical Results



February 05, 2016

Daniel Dominguez Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: GRIZZELL B #7

Enclosed are the results of analyses for samples received by the laboratory on 02/02/16 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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.

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



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	02/02/2016	Sampling Date:	01/29/2016
Reported:	02/05/2016	Sampling Type:	Soil
Project Name:	GRIZZELL B #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-G SEC. 8, T22S, R37E		

Sample ID: TT 2 (4') (H600236-01)

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	02/04/2016	ND	2.15	107	2.00	4.06	
Toluene*	<0.050	0.050	02/04/2016	ND	2.12	106	2.00	3.54	
Ethylbenzene*	<0.050	0.050	02/04/2016	ND	1.94	96.8	2.00	2.54	
Total Xylenes*	<0.150	0.150	02/04/2016	ND	5.82	96.9	6.00	2.65	
Total BTEX	<0.300	0.300	02/04/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/03/2016	ND	448	112	400	11.3	
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	02/03/2016	ND	199	99.4	200	4.39	
DRO >C10-C28	<10.0	10.0	02/03/2016	ND	197	98.4	200	6.46	
Surrogate: 1-Chlorooctane	69.1	% 35-147	,						

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*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	02/02/2016	Sampling Date:	01/29/2016
Reported:	02/05/2016	Sampling Type:	Soil
Project Name:	GRIZZELL B #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-G SEC. 8, T22S, R37E		

Sample ID: TT 3 (7') (H600236-02)

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	02/04/2016	ND	2.15	107	2.00	4.06	
Toluene*	<0.050	0.050	02/04/2016	ND	2.12	106	2.00	3.54	
Ethylbenzene*	<0.050	0.050	02/04/2016	ND	1.94	96.8	2.00	2.54	
Total Xylenes*	<0.150	0.150	02/04/2016	ND	5.82	96.9	6.00	2.65	
Total BTEX	<0.300	0.300	02/04/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/03/2016	ND	448	112	400	11.3	
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	02/03/2016	ND	199	99.4	200	4.39	
DRO >C10-C28	<10.0	10.0	02/03/2016	ND	197	98.4	200	6.46	
Surrogate: 1-Chlorooctane	70.1 9	% 35-147							
Surrogate: 1-Chlorooctadecane	75.0 9	28-171							

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/02/2016	Sampling Date:	01/29/2016
Reported:	02/05/2016	Sampling Type:	Soil
Project Name:	GRIZZELL B #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-G SEC. 8, T22S, R37E		

Sample ID: TT 4 (6') (H600236-03)

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	02/04/2016	ND	2.15	107	2.00	4.06	
Toluene*	<0.050	0.050	02/04/2016	ND	2.12	106	2.00	3.54	
Ethylbenzene*	<0.050	0.050	02/04/2016	ND	1.94	96.8	2.00	2.54	
Total Xylenes*	<0.150	0.150	02/04/2016	ND	5.82	96.9	6.00	2.65	
Total BTEX	<0.300	0.300	02/04/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/03/2016	ND	448	112	400	11.3	
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	02/03/2016	ND	199	99.4	200	4.39	
DRO >C10-C28	<10.0	10.0	02/03/2016	ND	197	98.4	200	6.46	
Surrogate: 1-Chlorooctane	62.4	% 35-147							
Surrogate: 1-Chlorooctadecane	67.5	28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	02/02/2016	Sampling Date:	01/29/2016
Reported:	02/05/2016	Sampling Type:	Soil
Project Name:	GRIZZELL B #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-G SEC. 8, T22S, R37E		

Sample ID: AH 9 (6") (H600236-04)

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	02/05/2016	ND	2.15	107	2.00	4.06	
Toluene*	<0.050	0.050	02/05/2016	ND	2.12	106	2.00	3.54	
Ethylbenzene*	<0.050	0.050	02/05/2016	ND	1.94	96.8	2.00	2.54	
Total Xylenes*	<0.150	0.150	02/05/2016	ND	5.82	96.9	6.00	2.65	
Total BTEX	<0.300	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/03/2016	ND	448	112	400	11.3	
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	02/03/2016	ND	199	99.4	200	4.39	
DRO >C10-C28	<10.0	10.0	02/03/2016	ND	197	98.4	200	6.46	
Surrogate: 1-Chlorooctane	72.0 9	35-147	,						
Surrogate: 1-Chlorooctadecane	77.4 9	6 28-171							

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Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 1 of 1

Page 7 of 7

ATTACHMENT III Copy of Initial NMOCD Form C-141 Final C-141

HOBBS OCD

AUG 27 2014

Senior I 623 N. French Dr., Helde, NM 88240	State of New Mexico	Gerzzeit	- Form C-143
Namici II	RECEIVED Minorals and Natural F		Revised August 8, 2011
Networ III 1909 Riss Brazow Road, Armas, NM 57410 <u>Horar IV</u> 120 S. St. Francis Dr., Surfa Fc, NM \$7593	Oil Conservation Divis 1220 South St. Francis	Dr.	to appropriate District Office in Southings with 10,15,29 MMAC
12095, SE FRACIS DE GAURA PE DA AZARA	Sana ru, 144 aros		
	Release Notification and Cor	Constant and the second second	Report D Final Rep
Name of Company VAN CIAN	RD PEREMIAN COMMENT	ESELL THESELDFF	
Address 1209 5 M	ATN LOUISTON IN Telephone No	361-744-3707	
Pacifity Name CA.22C/B		<u>011 ws/1</u>	20-025-37641
Sarface Owner	Mineral Owner	at water	30-023 34 601
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By Whom?	IT VER WAR		
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Was a Watercourse Reached?	res (2) No The Pully.* dial Action Trices. P.C. CAUSED SPRARY AND 13 (265 07 (0882 CH	BIDS OF. BBC PROMP
Was a Wetercourse Heached! It is Watercourse was Impacted, Describe Describe Course of Problem and Reme PLOW LINE RUPTU VACUUNT TEACK C BACK NOE CHELLO Describe Area Affected and Cleanup 30 × 50' Affect OUGCLD GROULD	TE PULLY." ALLEN LIPON DISOSURY AN TO COULD FLEMAINING NT BACK OF GATHERING S. WITH LUW FILL DIRT. "	OSS OF LOBBL CH D APPROXIMATE & Spillacc SITE, Dil Picker IN Remove Dir	THE BRING NEW
Was a Wetercourse Reached? If a Watercourse was Imported, Descri- Describe Cause of Problem and Reme FLUW LINE EUPTU UACU WAL TEUCK C BACIL HOE CHURCH Describe Area Affected and Clearup 30 × 50' Affect Discribe Area Affected and Clearup 30 × 50' Affect Discribe Area Affected and Clearup 1 hereby certify that the information g regulations all operators are required public leadily or the environment. Th	Yes (2), No the Pully." ALLEN UPON DISCOURCE AND I ALLEN UPON DISCOURCE AN TO COUTR PLANATUINS NOT BACK OF GATHERING NT BACK OF GATHERING NT BACK OF GATHERING NT BACK OF GATHERING NO RIGHT AND FILL DIRT. " Promabase is the and complete to the best of my B promabase is the and complete to the NMACCO ma abagastory is estimate and remethate consemination abagastory is estimate and remethate consemination (CT) secondance of a C-141 report by the NMACCO ma abagastory is estimate and remethate consemination (CT) secondance of a C-141 report docs not relieve	OSS OF (OBBL C) in APP BOX HAATE C Spill ACC SITE DIL Preken I, H Rangove Die according and understand that pan decident corrective actions for ac river on that pose a threat to ground wat the operator of responsibility for	D. UP AND THEN + + BR. A D. MCC minume to NIACCD rules and bases which may coulimper lieve the operator of liability r, surface white, human health compliance with any other
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1028-14

AUG 2 8 2014

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ase Notific	atio	n and Co	rrective A	otion				
								cuon				
Name of Co	ompany: V	anguard				OPERATOR		Initi	📃 Initial Report 🛛 Final Rep			
Address: 4	001 Penbr	ook. Suite 2	01. Odess	a Texas 79762		Contact: JT	Terry					
Address: 4001 Penbrook, Suite 201, Odessa Texas 79762 Facility Name: Grizzell B #7; 1RP #3277					Telephone No. 432-362-2209 Facility Type: Oil Well							
Surface Ow					-		be: Oil Well					
Surface Owner: Mineral Owne				<u>Dwner</u>			APIN	API No. 30-025-37611				
					TIO	ON OF RELEASE						
Unit Letter	Section	Township	Range	Feet from the		th/South Line						
G	8	228	37Ē	2310		North	Feet from the 2310	East/West Line East		Cou Le	•	
			Latitu	ide: <u>N 32° 24' (</u>	<u>.</u> 30.06'	Longitude	: <u>W 103° 10' 48</u>	1 3 66"		<u> </u>		
Type of Relea	se: oil					OF RELE	ASE					
Source of Rel	ease: Flow	Line				Volume of Release: 10 bbls Volume Resource 10111						
						Date and H	our of Occurrenc	e: Date and	Date and Hour of Discovery:			
Was Immedia	Was Immediate Notice Given?					10-1-15 @ 11:00 am				<u> </u>		
			Yes 🗋	No 🔲 Not Re	quired		whom?				· · · · ·	
By Whom?						Date and H	our:		<u> </u>			
was a waterc	Was a Watercourse Reached?					If YES, Volume Impacting the Watercourse:						
	Yes 🛛 No					Not Applicable						
If a Watercour	se was Imp	acted, Descri	be Fully.*	Not Applicable					<u> </u>			
Departies Co		······································									[
Describe Caus Flow line ruph	e of Proble.	m and Remed	ial Action	Taken.*					<u> </u>			
cover remainin	ig spillage.	spray and tos	S OF TO DD	is crude oil. Vacu	um tru	ck called upon	discovery and ap	proximately 10 bi	ols picked u	n. Back	hoe called to	
Describe Area	Affected as	nd Cleanup A	ction Take	n.* 30' x 50' area	a at bac	k of gathering	site. Oil picked u	n and than any				
disposal facilit	v and the ex	id sent to the .	lab for test	ing. Based on lab	orator	y analytical dat	site. Oil picked u a contaminated so	p and then covere oil was excavated	d ground wi	ith new	fill dirt.	
I hereby certify	that the in	formation giv	en above i	s true and comple	te to th	e best of my k	nowledge and und					
regulations all i	operators a	re required to	report and	or file certain rel	ease n	otifications and	nowledge and unit perform correcting ked as "Final Per	derstand that purs	uant to NM	OCD ru	les and	
SHOULD LITELE OD	erations has	ve failad to ad	a amatel 1		•		new us i mai NGL	vil does nor ren	évé the anar	otor of	Dolute I	
or the environm	ient. In add	lition, NMOC	D accepta	nce of a C-141 re	nediate	contamination	ked as "Final Rep that pose a threa the operator of res	t to ground water	surface wa	ter, hun	nan health	
federal, state, o	r local laws	and/or regula	tions.		portu	les not reneve	the operator of re-	sponsibility for co	mpliance w	ith any	other	
	\square	1 0					OIL CONSI	ERVATION				
Signature:	Joh	·m					0111 001101	CRYATION	<u>DIVISIO</u>	<u>IN</u>		
			n	<u> </u>				Jamk	lui ~			
Printed Name: JT Terry						Approved by Environmental Specialist:						
Title: Productio	n Foreman						03/04/2016					
			·,		A	Approval Date:		Expiration D	ate: ///			
E-mail Address:	jterry@vn	rllc.com		······	c	Conditions of A	pproval:					
Date: 3/2/16 Phone: 432-362-2209					///			Attached				
tach Addition	Al Shoota 1	£NI	rnone: 4:	2-362-2209					1RP 3277			

* Attach Additional Sheets If Necessary