Micro-Blaze ENVIRONMENTAL PLUS, INC.

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

March 10, 2005

Mr. Larry Johnson **Environmental Engineer** New Mexico Oil Conservation Division 1625 North French Hobbs, New Mexico 88240

Subject: Devon Energy Site Delineation Report and Closure Proposal

Re: Little Kings #3 Drill Pit UL-K (NE¼ of the SW¼) of Section 17, T22S, R35E Latitude 32°23'25.6"N and Longitude 103°23'29.3"W Landowner: State of New Mexico Driving Directions: From the intersection of NMSRs 8 and 207 in Eunice, New Mexico, go west on 8 for 7.8 miles, then left on NMSR 176 for 9.7 miles, then left on caliche road 4.1 miles then left 1.0 miles, then right 1.1 miles, then left 0.5 miles, then right 0.3 miles, then

Dear Mr. Johnson,

Enclosed, please find two copies of the Devon Energy Site Delineation Report and Closure Proposal for the Little Kings #3 Drill Pit for your consideration. Environmental Plus, Inc. (EPI) is submitting the documentation on behalf of Devon Energy and requests approval of the closure proposal.

Should there be any questions please call Mr. Cody Miller or myself at the office or at 505.631.8447 and 505.390.7864, respectively or Joe Handley at 505.748.3371. All official communication should be addressed to:

> Joe Handley **Devon Energy PO Box 250** 2401 Pecos Avenue Artesia, New Mexico 88211-0250 e-mail:

Sincerely,

Pat McCasland **EPI Technical Services Manager**

cc: Paul Sheeley, NMOCD, w/enclosure (PSHEELEY@STATE.NM.US) Joe Handley, Devon Energy, w/enclosure (Joe.Handley@dvn.com) Cecil Thurmond, Devon Energy, w/enclosure (Cecil.Thurmond@dvn.com) file









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SITE DELINEATION REPORT AND CLOSURE PROPOSAL

Little Kings #3 Drilling Reserve Pit

UL-K (NE¼ of the SW¼) of Section 17, R35E, T22S Latitude 32°23'25.6"N and Longitude 103°23'29.3"W Elevation ~3,560 'amsl

~22 miles west of Eunice, Lea County, New Mexico

Date

March 2005

Prepared by

Environmental Plus, Inc. 2100 Avenue O P.O. Box 1558 Eunice, New Mexico 88231 Tele 505•394•3481 FAX 505•394•2601 Eddress: enviptus1@aol.com



STANDARD OF CARE

Site Delineation Report and Closure Proposal

Little Kings #3 Drilling Reserve Pit

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993), the NMOCD Unlined Impoundment Closure Guidelines (February 1993), Surface and the Environmental Plus, Inc. (EPI) Standard Operating Procedures and Quality Assurance/Quality Control Plan. The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were arrived at with currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered EPI professional with a background in engineering, environmental, and/or the natural sciences.

This report was prepared by:

Mailarg

Patrick W. McCasland

This report was reviewed by:

Iain Olness, PG

Date

Date

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1.0 EXECUTIVE SUMMARY

This site is located in UL-K (NE¼ of the SW¼) of Section 17, R35E, T22S at Latitude 32°23'25.6"N and Longitude 103°23'29.3"W, approximately 22 miles west of Eunice, Lea County, New Mexico on property owned by the State of New Mexico. A topographical map is included in Attachment I. The site is a drilling reserve pit used during the drilling of the Devon Energy (Devon) Little Kings #3 well. According to the New Mexico Office of the State Engineer (NMOSE) Water Well Database, groundwater occurs approximately 185 feet below ground surface ('bgs) and is typical of the area east of San Simon Ridge. The area wells are plotted on the topographical map included in Attachment I and the NMOSE database report for T22S-R35E is included in Attachment IV. The nearest down gradient water well, i.e., #00595 (Cotton Well), is located approximately 4,642 feet southeast of the site. The site is located on the south side of a east trending surface drainage approximately 2,940 feet west of a non-perennial playa and is >1,000 horizontal feet from the feature. These site characteristics give the site a "0" point New Mexico Oil Conservation Division (NMOCD) ranking score that applies the following remedial guidelines for the "constituents/contaminants of concern" (CoCs):

CONSTITUENTS/CONTAMINANTS OF CONCERN	REMEDIAL GOAL
Benzene	10 mg/Kg
BTEX (mass sum of benzene, toluene, ethylbenzene, and xylenes	50 mg/Kg
Total Petroleum Hydrocarbon 8015m (TPH ^{8015m})	5000 mg/Kg
Chloride residuals must not be capable of impacting local water res	ources above the New
Mexico Water Quality Control Commission (WQCC) water quality s	tandard of 250
mg/Liter.	

At the direction of the New Mexico Oil Conservation Division (NMOCD), <u>Devon</u> <u>disposed of the pit contents and</u> contracted Environmental Plus, Inc. (EPI) of Eunice, New Mexico to collect bottom and sidewall samples of the excavated pit to confirm adequate removal. Samples collected on November 1, 2004 determined that the benzene, BTEX, and TPH^{8015m} laboratory results were all less than the method detection limits and considered acceptable. However, the soil chloride residuals remained elevated in the excavation bottom and sidewalls except for the west sidewall (WSW). On November 11, 2004, EPI implemented the <u>Devon</u> <u>Energy Little Kings #3 Pit Delineation Plan</u> that had been verbally approved by the NMOCD on November 9, 2004. The objective of the plan was to delineate the horizontal and vertical extents of chloride impact via the collection of samples from trenches excavated vertically and horizontally out from the sidewalls and vertically in the excavation bottom. The laboratory results delineated the horizontal extents of chloride impact to be as follows:

Sample Location	Feet from Excavation Perimeter	Vertical Sampling Interval	Laboratory Chloride
SampleLocation	fæt	'bgs	mg/Kg
East Sidewall North Trench	20'	3'	64
East Sidewall South Trench	15'	8'	288
Bottom Hole West Trench		12.6'	14795
Bottom Hole East Trench		6'	2655
North Sdewall East Trench	15'	6'	304
North Sdewall West Trench	33'	11'	272
South Sidewall West Trench	10'	7'	256
South Sidewall East Trench	10'	7'	272

The analytical results also indicated that further delineation would be required in the bottom of the excavated drill pit. On February 22, 2005, with the NMOCDs approval, two soil borings were advanced and sampled in the east and west halves of the excavated pit in the areas of the east and west bottom sample trenches. The 8-foot deep drill pit was contoured to allow drilling rig access. Refer to the sample location map included in Attachment I. The analytical results from the west bottom soil boring ranged from 160 mg/Kg at 13'bgs to 208 mg/Kg at 23'bgs. The east bottom soil boring chloride analytical results began with 5,838 mg/Kg at 13'bgs, increased to a maximum concentration of 26,392 mg/Kg at 18'bgs, and diminished to 48 mg/Kg at 38'bgs. These data support the conclusion that local groundwater has not been impacted. Based on the distribution of the chloride source term identified in the bottom and beyond the pit perimeter it is estimated that the volume of soil impacted above 250 mg/Kg chloride is 6,281 cubic yards (yd³).

As an alternative to total removal, Devon proposes to isolate the impacted soil from the environment with a properly installed and configured 40 mil polyethylene liner at approximately 4-feet below the surface and cover with clean soil. This "barrier" will interrupt the vertical transport mechanism whereby the chloride source term could leach to groundwater, preclude upward flux of the chloride residuals that could impede revegetation and longtime vigor of the plants, and will be constructed to shed infiltrating precipitation away from the impacted soil thus precluding any down gradient surficial impacts. Even though the initial pit liner used during drilling the well has been removed, this process will effectively isolate the chloride source term and prevent future impacts to the local groundwater.

The procedure will be to excavate the impacted soil located beyond the current excavation perimeter down to a depth of 6'bgs and spread into a compacted 3.67foot thick lift in the bottom of the 8-foot deep excavated pit. The lift will represent approximately 1,484 cubic yards of impacted soil. To confirm adequate lateral removal of the perimeter soil and establishment of a 4-foot clean buffer, chloride samples will be collected from the sides of the perimeter excavation and from the bottom at point 4 lateral feet from the sides. This should confirm adequate removal and establishment of the 4-foot clean buffer. The impacted soil lift will be contoured to a 1:1.2 grade from the center to conduct infiltrating precipitation to the clean buffer zone. A diagram of the proposed excavation and liner installation is included in Attachment I.

Devon will implement this proposed plan upon NMOCD approval and will ensure that the NMOCD Hobbs office is notified at least 48 hours prior to construction activities, sampling, or liner installation.

2.0 Environmental Media Characterization

Chemical parameters of the soil and ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the NMOCD guidelines published in the following documents:

- Pit and Below-Grade Tank Guidelines (November 1, 2004)
- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable thresholds for contaminants/constituents of concern (CoCs), i.e., TPH, chloride, benzene, and BTEX, i.e., the mass sum of benzene, toluene, ethylbenzene, and total xylenes, will be determined based on the NMOCD Ranking Criteria as follows:

- Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water,
- Wellhead Protection Area, i.e., distance from fresh water supply wells, and
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

2.1 GEOLOGICAL DESCRIPTION

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," (A. Nicholson and A. Clebsch, 1961), describes the near surface geology of southern Lea County as an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche.

2.2 ECOLOGICAL DESCRIPTION

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (Querqus harvardi) interspersed with Honey Mesquite (Prosopis glandulosa) along with typical desert grasses and weeds. Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, and the Mule Deer. Reptiles, Amphibians, and Birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.3 AREA GROUND WATER

According to the New Mexico Office of the State Engineer Groundwater Well Database, groundwater occurs at approximately 185'bg and is consistent with the USGS Report #6. The ground water elevation decreases generally to the southeast.

2.4 AREA WATER WELLS

The New Mexico Office of the State Engineer database shows four water wells in the area; however all are more than 1,000 feet from the site. Well #00753 is located approximately 3 miles east in Section 14 with a 1990 water level of approximately 185'bgs.

	Groundwater Level Data										
We	Number	Tws	Rng	8	Easting	Northing	Date	Well	Water	Relative to Site	
CP	00593 DCL	22S	35E	6	650479	3587383			na	9,400 ft north	
CP	00594 DCL	22S	35E	34	654607	3580615			na		
CP	00595 DCL	22S	35E	20	652145	3583793			na	4,642 ft southeast	
CP	00753	22S	35E	14	656947	3585482	7/18/1990	215	185	~3 miles east	

Source: New Mexico Office of the State Engineer Database

2.5 AREA SURFACE WATER BODIES

The site is located on the south side of a east trending surface drainage approximately 2,940 feet west of a non-perennial playa and is >1,000 horizontal feet from the feature (reference Attachment I).

3.0 NMOCD SITE RANKING

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to ground water, the site has an NMOCD ranking score of "0" points with the soil remedial goals highlighted below in the Site Ranking Matrix.

1. Grou	ind Water	2. We	ellhead Protection Area	3. Distance to Surface Water Body
20 points	GW <50 feet: GW 50 to 99 ts		om water source, or;<200' from estic water source: 20 points	<200 horizontal feet: 20 points 200-100 horizontal feet: 10 points
If Depth to feet: 0 points			om water source, or; >200' from estic water source: 0 points	>1000 horizontal feet: 0 points
Ground water	Score = 0	Wellhead Prov	tection Area Score= 0	Surface Water Score= 0
Site Rank (1	(1+2+3) = 0 +	0 + 0 =	0 points	
Total S	ite Ranking	score and	Acceptable Remedial G	oal Concentrations
Parameter	>1	9	10-19	0-9
Benzene ¹	10 p	pm	10 ppm	10 ppm
BTEX ¹	50 p	pm	50 ppm	50 ppm
ТРН	100 1	opm	1000 ppm	5000 ppm

4.0 SOIL INVESTIGATION ACTIVITIES

Devon retained Environmental Plus, Inc. (EPI) of Eunice, New Mexico to collect bottom and sidewall samples of the excavated pit to confirm adequate removal. Samples collected on November 1, 2004 determined that the benzene, BTEX, and TPH^{8015m} laboratory results were all less than the method detection limits and considered acceptable. However, the soil chloride residuals remained elevated in the excavation bottom and sidewalls except for the west sidewall (WSW). On

November 11, 2004, EPI implemented the <u>Devon Energy Little Kings #3 Pit</u> <u>Delineation Plan</u> that had been verbally approved by the NMOCD on November 9, 2004. The objective of the plan was to delineate the horizontal and vertical extents of chloride impact via the collection of samples from trenches excavated vertically and horizontally out from the sidewalls and vertically in the excavation bottom (refer to sample location map included in Attachment I). The laboratory results delineated the horizontal extents of chloride impact to be as follows:

Sample Location	Feet from Excavation Perimeter	Vertical Sampling Interval	Laboratory Chloride
Sample Location	fæt	'bgs	mg/Kg
East Sidewall North Trench	20'	3'	64
East Sidewall South Trench	15'	8'	288
Bottom Hole West Trench		12.6'	14795
Bottom Hole East Trench		6'	2655
North Sidewall East Trench	15'	6'	304
North Sidewall West Trench	33'	11'	272
South Sidewall West Trench	10'	7	256
South Sidewall East Trench	10'	7'	272

The analytical results also indicated that further delineation would be required in the bottom of the excavated drill pit. On February 22, 2005, with the NMOCDs approval, two soil borings were advanced and sampled in the east and west halves of the excavated pit in the areas of the east and west bottom sample trenches. The 8-foot deep drill pit was contoured to allow drilling rig access. Refer to the sample location map included in Attachment I. The analytical results from the west bottom (BHSBW) soil boring ranged from 160 mg/Kg at 13'bgs to 208 mg/Kg at 23'bgs. The east bottom soil boring (BHSBE) chloride analytical results began with 5,838 mg/Kg at 13'bgs, increased to a maximum concentration of 26,392 mg/Kg at 18'bgs, and diminished to 48 mg/Kg at 38'bgs. These data support the conclusion that local groundwater has not been impacted. Based on the distribution of the chloride source term identified in the bottom and beyond the pit perimeter it is estimated that the volume of soil impacted above 250 mg/Kg chloride is 6,281 cubic yards (yd³). The site map included in Attachment I illustrates the horizontal distribution of the impacted soil. The analytical information is summarized and illustrated and the laboratory reports provided in Attachment III.

5.0 GROUNDWATER INVESTIGATION

The soil investigation does not indicate ground water impact in excess of the WQCC standards and therefore does not warrant a groundwater investigation.

6.0 **REMEDIATION PROPOSAL**

As an alternative to total removal of $6,281 \text{ yd}^3$ of soil, Devon proposes to isolate the impacted soil from the environment with a properly installed and configured 40 mil polyethylene liner at approximately 4-feet below the surface and cover with clean soil. This "barrier" will interrupt the vertical transport mechanism whereby the chloride source term could leach to groundwater and preclude upward flux of the chloride residuals that could impede revegetation of the surface and longterm vigor of the plants. The excavation bottom over which the liner will be installed

will be contoured to shed infiltrating precipitation away from the impacted soil thus precluding any down gradient surficial impacts. Even though the initial pit liner used during drilling the well has been removed, this process will effectively isolate the chloride source term and prevent future impacts to the local groundwater.

The procedure will be to excavate the impacted soil located beyond the current excavation perimeter down to a depth of 6'bgs and spread into a compacted 3.67foot thick lift in the bottom of the 8-foot deep excavated pit. The lift will represent approximately 1,484 cubic yards of impacted soil. To confirm adequate lateral removal of the perimeter soil and establishment of a 4-foot clean buffer, chloride samples will be collected from the sides of the perimeter excavation and from the bottom at points 4 lateral feet from the sides. This should confirm adequate removal and establishment of the 4-foot clean buffer. The center of the impacted soil lift will be approximately 1-foot higher than the clean buffer zone perimeter to ensure infiltrating precipitation will be shed to the perimeter. The liner will be cushioned above and below with a 6-inch thick layer of sand or a felt backed geotextile liner to protect it from abrasion and puncture. The final dimensions of the lined excavation will be approximately 17,976 ft². A diagram of the proposed excavation and liner installation is included in Attachment I. After the liner is installed and cushioned, the excavation will be brought to grade with clean soil, contoured to the nature grade, and reseeded with a seed blend agreeable to the landowner.

Devon will implement this proposed plan upon NMOCD approval and will ensure that the NMOCD Hobbs office is notified at least 48 hours prior to construction activities, sampling, or liner installation. Follow implementation, a summary report documenting these closure activities will be submitted to the NMOCD requesting that "no further action" be required at the site.

ATTACHMENT I: SITE MAPS





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ATTACHMENT II: PHOTOGRAPHS





ATTACHMENT III: ANALYTICAL REPORTS AND SUMMARY

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			Litti	e Kings #3 Drilling	g Reserve P	it Delin	eation	Inform	ation							1
Sample Location	Description	Fect from Excavation Perimeter	Vertical Sampling Interval (FT. BGS ¹)	SAMPLE ID#	Date	GRO ³	DRO ⁴	TPH⁵				Ethylbenzene	m,p, & o Xylene	Field Chloride	Laboratory Chloride	
						mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	1
	East Sidewall Composite	0	0-5	SDLK110104ESW	11/1/2004	<10.0	<10.0	<10.0	< 0.015	< 0.005	< 0.005	<0.005	< 0.005	na	2720	ł
	North Trench	20' East	3	ESWN 3-20	11/12/2004	<10.0	<10.0	<10.0	< 0.015	<0.005	<0.005	< 0.005	<0.015	240	64	ł
East Sidewall	Could by Tremeth	10' East	2	ESWS2-10	11/12/2004	na	na	na	na	na	na	na	na	4000	11596	
	South Trench	15' East	4	ESWS4-15	11/12/2004	na	na	na	na	na	na	na	na	520	656 288,	
	Bottom Composito	0	8	ESWS 8-15 SDLK110104BH	11/12/2004 11/1/2004	<10.0 <10.0	<10.0 <10.0	<10.0	<0.015 <0.015	<0.005 <0.005	<0.005	<0.005 <0.005	<0.015 <0.005	240	288. 5520	1
	Bottom Composite	0	<u>.5,</u> _3	BHW 3	$\frac{11/1}{2004}$	<10.0 na	<10.0 na	<10.0 na	<0.015 na	<0.005 na		<0.005 na	<0.005 na	na 6800	<u>5520</u> ≤107972\	
		0	<u>5</u>	BHW 3	11/11/2004 11/11/2004	na na	na	na na	na	na	na na	na	na	2000	140762	[NC
	WestTrench	0	<u>(0</u> (9)	BHW 9	11/11/2004 11/11/2004	na	na	na	na	na	na	na	na	4000	15995	1
Excavation Bottom		0	13 (1	BHW 12.6	11/11/2004	na	na	na	na	na	na	na	na	8000	13775	
		0	3	BHE3	11/11/2004	na	na	na	na	na	na	na	na	2000	2031	1
	East Trench	0	6	BHE6	11/11/2004	na	na	na	na	na	na	na	na	4000	2655	1
		0	9	BHE9	11/11/2004	na	na	na	na	na	na	na	na	4000	na	1
	North Sidewall Composite	0	0-5	SDLK110104NSW	11/1/2004	<10.0	<10.0	<10.0	< 0.015	< 0.005	< 0.005	< 0.005	< 0.005	na	4320	ĺ
		6' North	3	NSWE 3-6	11/11/2004	na	na	na	na	na	na	na	па	na	704	
l	East Trench	15' North	6	NSWE 6-15	11/11/2004	<10.0	<10.0	<10.0	< 0.015	< 0.005	<0.005	<0,005	<0.015	320	304	1
			3	NSWW 3-25	11/12/2004	na	na	na	па	na	na	na	na	1600	na	1
			7	NSWW 7-25	11/12/2004	na	na	na	na	na	na	na	na	1600	1887	1
		25' North	8	N SWW 8-25	11/12/2004	na	na	na	na	na	na	na	na	na	848	1
North Sidewall		1	11 (NSWW 11-25	11/12/2004	na	na	na	na	na	na	na	па	4000	13196	1
	Mart Trees at		6	N SWW 6-30	11/12/2004	na	na	na	na	na	na	na	na	na	3359	1
	West⊺rench	30' North	11	NSWW 11-30	11/12/2004	na	na	na	na	na	na	na	na	480	608	1
			2	N SWW 2-33	11/12/2004	na	na	na	na	na	na	na	na	na	2319	1
		33' North	7	N SWW 7-33	11/12/2004	na	na	na	na	na	na	na	na	180	na	
		35 NORT	9	N SWW 9-33	11/12/2004	na	na	na	na	na	na_	na	na	200	736	
			11	NSWW 11-33	11/12/2004	<10.0	<10.0	<10.0	< 0.015	< 0.005	< 0.0 05	< 0.005	< 0.015	na	272	
	South Sidewall Composite	0	0-5	SDLK110104SSW	11/1/2004	<10.0	<10.0	<10.0	< 0.015	< 0.005	< 0.0 05	< 0.005	< 0.005	na	384	
	WestTrench	5' South	3	SSWW 3-5	11/11/2004	па	na	na	na	na	па	na	na	400	1328	
South Sidewall		10' South	7	SSWW 7-10	11/11/2004	<10.0	<10.0	<10.0	< 0.015	< 0.005	< 0.005	< 0.005	< 0.015	180	256	
	East Trench	6' South	3	SSW E 3-6	11/11/2004	na	na	na	па	na	па	na	na	400	960	l
		10' South	7	SSWE 7-10	11/11/2004	<10.0	<10.0	<10.0	< 0.015	< 0.005	< 0.005	< 0.005	< 0.015	200	272	
West Sidewall	West Sidewall Composite	0	0-5	SDLK110104WSW	11/1/2004	<10.0	<10.0	<10.0	< 0.015	< 0.005	< 0.005	< 0.005	< 0.005	na	192	
Background Sample	South	300' South	3	Background	11/11/2004	na	na	na	na	na	na	na	na	80		
		New Mexi	co Oil Cons	ervation Division Site Re	ernedial Goals			5000	50	10					WOCC ⁷	

³GRO-Gasoline Range Organics C₆-C₁₀

⁴DRO-Diesel Range Organics C₁₀-C₃₅

⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.

⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

PSoil chloride residuals must not be capable of impacting groundwater or surface water above Water Quality Control Commission (WQCC) standard of 250 mg/L.

⁸na - not analyzed

Devon Little Kings#3 Chloride Delineation



□ Initial Sidewall 11-1-04

-D-Laboratory Chloride

NMOCD Remedial Goal

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		Little K	ings #3 Dri	lling Res	erve Pit	Delinea	tion In	formation	1				
Sample Location	Vertical Sampling Interval (FT. BGS ¹)	SAMPLE ID#	Date	GRO ³	DRO ⁴	TPH⁵	BTEX	Benzene	Toluene	Ethylbenzene	m,p, & 0 Xylene	Field Chlo ri de	Laborator Chloride
	(11.003)			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	13	DELK32-22-05BHSBE-5'	2/22/2005	na	na	na	na	na	na	na	na	3200	5838
	18	DELK32-22-05BHSBE-10'	2/22/2005	па	na	na	na	na	na	na	na	3400	26392
Bottom Hole Soil	23	DELK32-22-05BHSBE-15'	2/22/2005	na	na	na	na	na	na	na	na	2700	13196
Boring East	28	DELK32-22-05BHSBE-20'	2/22/2005	na	na	na	na	na	na	na	na	2800	-=7038
	33	DELK32-22-05BHSBE-25'	2/22/2005	na	na	na	na	na	na	na	na	300	96
	38	DELK32-22-05BHSBE-30'	2/22/2005	na	na	na	na	na	na	na	na	200	48
Bottom Hole Soil	13	DELK32-22-05BHSBW-5'	2/22/2005	na	na	na	na	na	na	na	na	380	160
Boring West	18	DELK32-22-05BHSBW-10	2/22/2005	na	na	na	na	na	na	na	na	380	192
bonny west	23	DELK32-22-05BHSBW-15'	2/22/2005	na	na	na	na	na	na	na	na	380	208
Background Sample 300'southwest	3	DELK32-22-05BG	2/22/2005	na	na	na	na	na	na	na	na	400	48
New	Mexico Oil	Conservation Division Site Re	medial Goals			5000	50	10					WQCC ⁷

³GRO-Gasoline Range Organics C₆-C₁₀

⁴DRO-Diesel Range Organics C₁₀-C₃₅

⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.

⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

⁷Soil chloride residuals must not be capable of impacting groundwater or surface water above Water Quality Control Commission (WQCC) standard of 250 mg/L.

⁸na - not analyzed

Devon Little Kings #3 Chloride Delineation





PHONE (915) 673-7001 . 2111 BEECHWOOD . ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND/IAIN OLNESS P.O. BOX 1558 **EUNICE, NM 88231** FAX TO: (505) 394-2601

Receiving Date: 11/01/04 Reporting Date: 11/04/04 Project Owner: DEVON ENERGY Project Name: LITTLE KINGS #3 Project Location: NOT GIVEN

Sampling Date: 11/01/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

LAB NUMB	ER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS	DATE	11/01/04	11/01/04	11/02/04
H9309-1	SDLK110104BH	<10.0	<10.0	5520
H9309-2	SDLK110104ESW	<10.0	<10.0	2720
H9309-3	SDLK110104NSW	<10.0	<10.0	4320
H9309-4	SDLK110104SSW	<10.0	<10.0	384
H9309-5	SDLK110104WSW	<10.0	<10.0	192
Quality Con	trol	740	802	1010
True Value		800	800	1000
% Recovery		92.6	100	101
Relative Pe	rcent Difference	2.3	1.5	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts.

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arising, whether based in contract or tort, shall be limited to the amount paid by client for an is made in writing and received by **Cardinal** within thirty (30) days efter completion of the app limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsi el'a liability and client's excl oever shall be de id waived uni in of the app service. In no event shall Cerdin el be lie ble for incidental or consec ntial damages inch without limitation, busi out of or related to th any of the above-stated



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Receiving Date: 11/01/04 Reporting Date: 11/04/04 Project Owner: DEVON ENERGY Project Name: LITTLE KINGS #3 Project Location: NOT GIVEN Sampling Date: 11/01/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DA	TE	11/01/04	11/01/04	11/01/04	11/01/04
H9309-1	SDLK110104BH	< 0.005	<0.005	< 0.005	<0.015
H9309-2	SDLK110104ESW	<0.005	<0.005	< 0.005	<0.015
H9309-3	SDLK110104NSW	< 0.005	< 0.005	< 0.005	<0.015
H9309-4	SDLK110104SSW	< 0.005	<0.005	< 0.005	<0.015
H9309-5	SDLK110104WSW	<0.005	<0.005	<0.005	<0.015
Quality Contro		0.098	0.102	0.102	0.315
True Value Q		0.100	0.100	0.100	0.300
% Recovery		98.2	102	102	105.00
Relative Perce	ent Difference	1.6	1.7	2.4	4.7

METHOD: EPA SW-846 8260

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PLEASE NOTE: Liability and Damagoe. Cardinet's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negigence and any other cause whatsoever shall be deemed waived unlass made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of prolits incurred by client, its subsidiaries, affiliates or aucoreans arisensout of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Cardinal Laboratories Inc.

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PHONE (915) 673-7001 @ 2111 BEECHWOOD @ ABILENE, TX 79603

PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 11/15/04 Reporting Date: 11/16/04 Project Owner: DEVON ENERGY Project Name: LITTLE KING 3 Project Location: NOT GIVEN

Analysis Date: 11/16/04 Sampling Date: 11/11/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl [—] (mg/Kg)
100101	BUE 0	
H9346-1	BHE 3	2031
H9346-2	BHE 6	2655
H9346-3	BHW 3	10797
H9346-4	BHW 6	14076
H9346-5	BHW 9	15995
H9346-6	BHW 12.6	14795
H9346-7	SSWE 3-6	960
H9346-8	SSWW 3-5	1328
H9346-9	NSWE 3-6	704
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percent I	Difference	0

METHOD: Standard Methods

Note: Analyses performed on 1:4 w:v aqueous extracts.

4500-CI'B

All claims, including those for negligence and any other cause whatsoever shall be deemed varved untass made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinat be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinat, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. In 9246 is or successors arising out of or relating out of or relation 19346

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PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 11/15/04 Reporting Date: 11/16/04 Project Owner: DEVON Project Name: LITTLE KINGS #3 Project Location: NOT GIVEN Sampling Date: 11/11/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

		GRO	DRO	
		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBE	R SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS D	DATE	11/15/04	11/15/04	11/16/04
H9345-1	SSWE 7-10	<10.0	<10.0	272
H9345-2	SSWW 7-10	<10.0	<10.0	256
H9345-3	NSWE 6-15	<10.0	<10.0	304
H9345-4	NSWW 11-33	<10.0	<10.0	736
H9345-5	ESWN 3-20	<10.0	<10.0	64
H9345-6	ESWS 8-15	<10.0	<10.0	288
Quality Cont	rol	791	795	1010
True Value C	QC	800	800	1000
% Recovery		98.9	99.4	101
Relative Per	cent Difference	3.4	2.9	0.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts.

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H9345A.XLS

PLEASE NOTE: Lability and Camages. Cardinat's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsower shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be lipble for incidential or consequential damages, including, without finitation, business interruptions, loss of use, or loss of profils incurred by client, its subsicilaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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Receiving Date: 11/15/04 Reporting Date: 11/16/04 Project Owner: DEVON Project Name: LITTLE KINGS #3 Project Location: NOT GIVEN Sampling Date: 11/11/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DA	TE	11/15/04	11/15/04	11/15/04	11/15/04
H9345-1	SSWE 7-10	< 0.005	< 0.005	<0.005	<0.015
H9345-2	SSWW 7-10	< 0.005	< 0.005	<0.005	<0.015
H9345-3	NSWE 6-15	< 0.005	< 0.005	<0.005	<0.015
H9345-4	NSWW 11-33	< 0.005	<0.005	<0.005	<0.015
H9345-5	ESWN 3-20	<0.005	<0.005	<0.005	<0.015
H9345-6	ESWS 8-15	<0.005	<0.005	<0.005	<0.015
Quality Contro		0.103	0.092	0.098	0.311
True Value QC	>	0.100	0.100	0.100	0.300
% Recovery		103	91.9	97.7	104
Relative Perce	ent Difference	3.1	8.8	2.8	3.6

METHOD: EPA SW-846 8260

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PHONE (505) 393-2326 @ 101 E. MARLAND @ HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 11/15/04 Reporting Date: 11/16/04 Project Owner: DEVON ENERGY Project Name: LITTLE KING 3 Project Location: NOT GIVEN Analysis Date: 11/16/04 Sampling Date: 11/12/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AH

		CI
LAB NUMBER	SAMPLE ID	(mg/Kg)
H9347-1	NSWW 7-25	1887
H9347-2	NSWW 8-25	848
H9347-3	NSWW 11-25	13196
H9347-4	NSWW 6-30	3359
H9347-5	NSWW 11-30	608
H9347-6	NSWW 2-33	2319
H9347-7	NSWW 11-33	272
H9347-8	ESWS 2-10	11596
H9347-9	ESWS 4-15	656
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percent	Difference	0

METHOD: Standard Methods 4500-Cl'B Note: Analyses performed on 1:4 w:v aqueous extracts.

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Cardinal Laboratories Inc.

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915-673-70 Company 1	001 Fax 915-673-						508	5-39	3-2	326		ax a		-393-2	476	<u> </u>				nal	voie	Req		+			
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PHONE (325) 873-7001 · 2111 BEECHWOOD · ABILENE, TX 79803 PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 02/23/05 Reporting Date: 02/24/05 Project Owner: DEVON ENERGY Project Name: LITTLE KINGS #3 PIT Project Location: NOT GIVEN Analysis Date: 02/24/05 Sampling Date: 02/22/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER	SAMPLE ID	CI (mg/Kg)
H9581-1	DELK32-22-05BHSBE-5	5838
H9581-2	DELK32-22-05BHSBE-10'	26392
H9581-3	DELK32-22-05BHSBE-15'	13196
H9581-4	DELK32-22-05BHSBE-20'	7038
H9581-5	DELK32-22-05BHSBE-25'	96
H9581-6	DELK32-22-05BHSBE-30'	48
H9581-7	DELK32-22-05BHSBW-5'	160
H9581-8	DELK32-22-05BHSBW-10'	192
H9581-9	DELK32-22-05BHSBW-15'	208
H9581-10	DELK32-22-05BG	48
Quality Control		900
True Value QC		1000
% Recovery		90.0
Relative Percent	Difference	5.0

METHOD: Standard Methods 4500-CIB Note: Analyses performed on 1:4 w:v aqueous extracts.

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PLEASE NOTE: Liability an All claims, including those is serviced 9 Divergent shall Ca d to the amount naid b client for analyses ity and cl ni's e idy for any c ts li ide in writing and received by Ca Candinal within thirty (30) days after completion of the toss of use, or loss of profils incurred by client, its su er shali bo de on and any other cause wha other cause whatsoever shall be dearned waived unless made in idential or consequential damages, including; without limitation, a for neglige he lie ble for -

Cardinal	Laboratories	Inc) .															•	*							
101 East Marland	Hobbs, NM 88240						211	1 B	eec	hwo	od,	Abi	lene	, TX 796	03											
505-393-2326 F	•						915	5-67	3-7(001	Fa	x 9	15-6	73-7020												
Company Name	Environmenta	l Plus,	nc.										ĥē			100							e]8[
EPI Project Mana	iger Pat McCasland	d														-	. 1					: }	-			
Billing Address	P.O. BOX 1556	8								ן)ev	on	Ene	ergy												
City, State, Zip	Eunice New M	lexico 8	823	1									~ 2													
EPI Phone#/Fax#	505-394-3481	/ 505-39	4-2	BO1							-		-	Ave.												
Client Company	Devon Energy	_							<u>م</u> ب					211-025	n											
Facility Name	Little Kings #3										-			ndley												
Project Reference		3 Pit								A	ll J	ve	L I CU	nuley												
EPI Sampler Nan	ne Cody Fisher															,										
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LAB I.D.	SAMPLE I.D.		(G)RAB OR (C)OMP	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO4")	РН	TCLP	OTHER >>>				
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	DELK32-22-05BHSBE-30						X							2/22/05	11:30			X								
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PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603 PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 02/23/05 Reporting Date: 02/24/05 Project Owner: DEVON ENERGY Project Name: LITTLE KINGS #3 PIT Project Location: NOT GIVEN

LAB NUMBER

Analysis Date: 02/24/05 Sampling Date: 02/22/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: AH

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(mg/Kg)

Relative Percer	nt Difference	5.0
% Recovery		90.0
True Value QC		1000
Quality Control	·	900
H9581-10	DELK32-22-05BG	48
H9581-9	DELK32-22-05BHSBW-15'	208
H9581-8	DELK32-22-05BHSBW-10'	192
H9581-7	DELK32-22-05BHSBW-5'	160
H9581-6	DELK32-22-05BHSBE-30'	48
H9581-5	DELK32-22-05BHSBE-25'	96
H9581-4	DELK32-22-05BHSBE-20'	7038
H9581-3	DELK32-22-05BHSBE-15'	13196
H9581-2	DELK32-22-05BHSBE-10	26392
H9581-1	DELK32-22-05BHSBE-5	5838

SAMPLE ID

METHOD: Standard Methods 4500-CTB Note: Analyses performed on 1:4 w:v aqueous extracts.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's autosive remedy for any claim arising, whether based in contract or fort, shall be limited to the amount paid by client for analyses. All dairing, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirth (30) days after completion of the applicable services 2006 event shall Cardinal be liable for includental or consequential damages, including, without limitation, business interruptions, issue of use, or loss of profits incurred by client, its subsidiaries, affiliates or successore arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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101 East Marland	, Hobbs, NM 88240												, TX 7960	03											
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Company Name	Environmental Plu	s, Inc).																163		A.	43 (1			
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ATTACHMENT IV: AREA WATER INFORMATION

	e of the State Engineer s and Downloads
Township: 228 Range: 35E Se	ections:
NAD27 X: Y: Z	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First) (Last)	← Non-Doméstic ← Domestic
Well / Surface Data Report	Avg Depth to Water Report
Water Co	olumn Réport
Clear Form V	VATERS Menu Help
<u>Clear Form</u> V	VATERS Menu Help

		12/12/2004

								(Depth	Water in	Feet)
Bsn	Tws	Rng	Sec	Zone	х	Ŷ	Wells	Min	Max	Ävg
CĐ	22S	35E	14				1	185	185	185
Baca			1							

Record Count: 1

1

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

12/12/2004

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Page 1 of 1

ATTACHMENT V: SITE INFORMATION & METRICS FORM AND INFORMATIONAL NMOCD FORM C-141

STEP: Initial Kings #3 Assigned Site Reference #: Company: Devon Energy National Determines Streef Address: PO Box 250 Nutified Date/Time; Mailing Address: 2401 Pecos Avenue Nutified Date/Time; Mailing Address: 2401 Pecos Avenue Nutified Date/Time; Mailing Address: 2401 Pecos Avenue Nutified Date/Time; Representative: Joe Handley NRC Report# Representative: Telephone: Streef Address: Fluid volume released (bbls): Recovered (bbls): Streef Address: 252 bbls: Submit form C:141 within 15 day: (Also applies to maathorized release: Streef Address: Source of contamination: Drilling reserve pit Land Owner, i.e., BLM, ST, Fee, Other: Streef Address: Location of istnee: Ansigned Unit Letter: K Location of Reference Point (RP) Latitude: 32:32:3:50' Latitude: 32:32:3:50' Location and stree, and Point Stef Address Unit Letter: K Location and stree of point (RP) Latitude: 32:32:3:50' Location and stree of point (RP) Latitude: 32:3:250'	Devon		ormation an Aetrics	nd	Incident I	Date:	NMOCD Notif	fied:		
Company: Devon Facerg National Response Centrer - 800.424.8802 Street Address: 2401 Pecos Avenue Notified Dut(Time: Gity, State, Zip, Artesia, New Mexico 88211-0250 Person Notified: Representative: Toe Handley NRC Report #: Representative: Toe Handley NRC Report #: State, Zip, Artesia, New Mexico 88211-0250 NRC Report #: Fluid volume released (bbls): Recovered (bbls): State, Zip, Artesia, New Mexico 1250 New Mexico 130-500 met Naturel Gas) Source of contamination: Outlet Kings #3 Source of contamination: Drilling reserve pit Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico 159 Dimensions LSP Area: fr ² Location of Reference Point (RP) Location distance and direction from RP Latitude: 32723723.56'N Location Section: Line Feet from South Section Line Feet from Next Section Line Section: Township: T225 Location: Township: T225 Location: Ange: R35E Surface water body within 1000' radius of site: none Sourface water wolls within 1000' radius of site: Domestic watere wolls within 1000' radius of site: none										
Street Address: PO Box 250 Notified Date/Time: Mailing Address: 240 Person Notified: City, State, Zip: Artesia, New Mexico 88211-0250 Person Notified: Representative: Ioe Handley Not. Report H:: Representative: Fluid volume released (bbls): Recovered (bbls): 235 bblic. Somet form Min min T5 days: Recovered (bbls): -255 bblic. Somet form Min min T5 days: Recovered (bbls): -255 bblic. Somet form Min min T5 days: Allos applies to anarchorized releases >800 met Natural Gay Leak, Spill, or Pit (LSP) Name: Lift CKings #3 Source of contamination: Drilling reserve pit Land Owner, i.e., BLM, NS, Free, Other: State of New Mexico LSP Area: ft² Location of Reference Point (RP) Location above mean sea level: 3.560 'ams1 Feet from South Section Line Feet from South Section Line Location- Region: Source Surface water body within 1000 ' radius of site: none Domestic water wells within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Domestic water wells within 1000' radius of site: none		<u>v</u>	7		III on gine	800 424 8802				
Mailing Address: 2401 Pecos Avenue Notified by: Gity, State, Zip: Artesia, New Mexico 88211-0250 Person Notified: Representative: Joe Handley NRC Report# : Representative: Telephone: NRC Report# : Fluid volume released (bbls): Recovered (bbls): 23 bbl: Notified Stark (Mas publics to unauthorized releases >500 met Natural Gay) Sature of contamination: 5-25 bble: Submit form C114 within 15 days. (Alto applies to unauthorized releases >500 met Natural Gay) Leak, Spill, or Pit (LSP) Name: Little Kings #3 Source of contamination: Diffied Sature (Masser) LSP Area: ft ² LSP Area: ft ² Location of Reference Point (RP) Location of Reference Point (RP) Location above mean sea level: 3,560 'ams! Feet from Section 17 Location - Cline Location - Nuth of Wat: NEW of the SW4 Location - Unit or Wat: NEW of the SW4 Surface water body within 1000' radius of site: none Surface water body within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Domestic water body within 1000' radius of site: none Dagitudiu Patient Protection Area Agriculural water wells within 1000' radius of site: none										
Citry, Stare, Zip: Arresia, New Mexico 88211-0250 Prevon Noriffed: Representative: Joe Handley NRC Report# : Representative: Telephone: 505.748.3371 Telephone: Recovered (bbls): >23 bbit: Notif: NMOCD verballs within 24 has and submit form C:141 within 15 days. >24 bbit: Stomit form C:141 within 15 days. >25 bbit: Stomit form C:141 within 15 days. Source of constantion: Drilling reserve pit Land Owner, i.e., BLM, ST, Fee, Other: State of Neural Gay LSP Dimensions 12 LSP dreat 103 23 23 25 6 *N Location of Reference Point (RP) 103 23 29 3*W Elevation above mean sea level: 3,560 'amsi Feet from West Section Line Feet from West Section Line Location of acciton: 17 Location acciton: 17 Location Range: R35E Surface water body within 1000 ' radius of site: none Surface water body within 1000 ' radius of site: none Domestic water wells within 1000' radius of site: Domestic water wells within 1000' radius of site: None Public water supply wells within 1000' radius of site: Domestic water wells within 1000' radius of site: Domestic water body within 1000' radius of site: Domestic water wells within 1000' r										
Representative: Joe Handley NRC Report# : Representative: Telephone: 505.748.3371 Telephone: Fluid volume released (bbls): Recovered (bbls): 235 bbl:: Notify NMOCD vechally eithin 24 hrs and submit form C-141 within 15 days. 325 bbl:: Notify NMOCD vechally eithin 24 hrs and submit form C-141 within 15 days. 3.525 bbl:: Submit form C.141 within 15 days. 300 met Natural Gay. 1.eak, Spill, or Pit (LSP) Name: Little Kings #3 Source of contamination: Drilling reserve pit Land Owner, i.e., BLM, ST, Fee, Other: Stare of New Mexico LSP Area: LSP Area: ft ² Location of Reference Point (RP) Location of Reference Point (RP) Location of Reference Point (RP) Location Section Line Feet from South Section Line Feet from South Section Line Feet from Section I7 Location - Counti or MAN: Location - Section I7 Location - Counti or MAN: Location - Section I7 Location - Counti Nethin 1000 ' radius of site: none Surface water body within 1000 ' radius of site: none Surface water wells within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Surface water supply wells within 1000' radius of site: Public water supply wells within 1000' radi		÷			1-0250					
Representative Telephone: 505.748.3371 Telephone: Recovered (bbls): >25 bbls: Notify INOCD verbally within 24 brs and submit form C-141 within 15 days. >25 bbls: Sobii: Notify INOCD verbally within 24 brs and submit form C-141 within 15 days. >125 bbls: Sobii: Notify INOCD verbally within 24 brs and submit form C-141 within 15 days. 125 bbls: Sobii: Notify INOCD verbally within 24 brs and submit form C-141 within 15 days. 125 bbls: Sobii: Notify INOCD verbally within 24 brs and submit form C-141 within 15 days. Leak, Spill, or Pit (LSP) Name: Little Kings #3 Source of contamination: Drilling reserve pit Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico LSP Ares: ft² Location distance and direction from RP Latitude: 32'23'25.6"N Logation above mean scale level: 3.560 'amsi Feet from South Section Line Feet from West Section Line Location - Nange: R35E Surface water body within 1000' radius of site: Domestic water wells within 1000' radius of site: <tr< td=""><td></td><td></td><td></td><td>0021</td><td></td><td></td><td colspan="4"></td></tr<>				0021						
Telephone: Fluid volume released (bbls): >25 bbl:: Notify NMOCD verbally wither 24 for and submit form C-141 within 15 days. State of Submit form C-141 within 15 days. (More applies to unsuchorized releases of 50-500 mcf Natural Gay) 1-25 bbls: Submit form C-141 within 15 days. (More applies to unsuchorized releases of 50-500 mcf Natural Gay) Leak, Spill, or Pit (LSP) Name: Little Kings #3 Source of contamination: Drilling reserve pit Lad Owner, i.e., BLM, ST, Fee, Other: State of New Mexico LSP Dimensions LSP Area: ft ² Location of Reference Point (RP) Location of Reference Point (RP) Location of Reference Point (RP) Location of Section Line Feet from South Section Line Feet from Section Line Location - Section: 17 Location of Section Line Location - Section: 17 Location - Section: 17 Location - Range: R35E Surface water body within 1000 ' radius of site: none Surface water body within 1000 ' radius of site: none Surface water wells within 1000' radius of site: Domestic water wells within 1000' radius of site: Surface Surface Water Surface Surface Water Surface Water Surface Surface Water Surface Surface Water Surface Surface Water Surface Surface Sur	*			3371		nice Report# .				
Fluid volume released (bbls): Recovered (bbls): 25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas) 5-25 bbls: Submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas) Source of contamination: Drilling reserve pit Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico LSP Dimensions LSP Dimensions Location of Reference Point (RP) Location distance and direction from RP Latitude: 32'23'25.6'N Elevation above mean see level: 3,560 'amsl Feet from South Section Line Feet from West Section Line Location discussion line Surface water body within 1000 ' radius of site: Domestic water wells within 1000 ' radius of site: Domestic water wells within 1000' radius of site: Domestic water wells within 1000' radius of site: Openstic water wells within 1000' radius of site: Depth for and water (DC) Public water supply wells within 1000' radius of site: Openstic water wells within 1000' radius of site: Domestic water wells within 1000' radius of site: Domestic water wells within 1000' radius of site: Domestic water well		reiepnomei								
>25 bbls. Notify NNOCD verbally within 24 hrs and submit form C-144 within 15 days. (Also applies to unauthorized releases 500 mcf Natural Gas) 3-25 bbls. Submit form C-141 within 15 days. (Also applies to unauthorized releases 500 mcf Natural Gas) Leak, Spill, or Pit (LSP) Name: Little Kings #3 Source of contamination: Drilling reserve pit Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico LSP Dimensions LSP Area: Location of Reference Point (RP) Location of Reference Point (RP) Location of Reference Point (RP) Location of Suth Section Line Feet from South Section Line Source of contamination: Drilling YdM Feet from Section Line Location - Unit or YdA: Location - Nange: R35E Surface water body within 1000' radius of site: none Surface water wells within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Agricultural water wells within 1000' radius of site: none Public water supply wells within 1000' radius of site: none Sufface Water Supply wells within 1000' radius of site: none Public water supply wells within 1000' radius of site: none Sufface Water Wells within 1000' radius of site: none Public water supply wells within 1000' radius of site: none Sufface Water Wells Within 1000' radius of site: none		leased (bbl	s).		R	ecovered (bbls):				
(Also applies to unaithorized releases > 500 mcf Natural Gas)5-25 bbls: Submit form C-141 within 15 days (Also applies to unaithorized releases of 50-500 mcf Natural Gas)Leak, Spill, or Pit (LSP) Name:Little Kings #3Source of contamination: Drilling reserve pitLand Owner, i.e., BLM, ST, Fee, Other: State of New MexicoLSP Area:ft2Location of Reference Point (RP)Location distance and direction from RPLatitude:32'23'25.6"NLongitude:102'32'29.3"WElevation above mean sca level:3.560 'amslFeet from South Section LineFeet from South Section LineFeet from West Section LineLocation - Unit or %4:NE% of the SW4Location - Section: 17Location - Section: 17Location - Range: R35ESurface water body within 1000 ' radius of site:Domestic water wells within 1000' radius of site:Domestic water wells within 1000' radius of site:Domestic water wells within 1000' radius of site:Agricultural water wells within 1000' radius of site:Public water supply wells within 1000' radius of site:Public water supply wells within 1000' radius of site:Depth for manator (DG) - DC = D(GW) - ?1. Ground WaterIf Depth to GW s50If Depth to GW s50feet: 10 point:If Depth to GW S50feet: 10 point:If Depth to GW S50feet: 10 point:If Depth to GW S50form private domestic water source; or; >200'for point:If Depth to GW S50<				rbally .				avs.		
Leak, Spill, or Pit (LSP) Name: Little Kings #3 Source of contamination: Drilling reserve pit Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico LSP Area: ft2 Location of Reference Point (RP) Location of stance and direction from RP Latitude: 32'23'25.6"N Longitude: 102'33'23'29.3"W Elevation above mean sea level: 3,560 'amsl Feet from South Section Line Feet from South Section Line Feet from South Section Line Location - Section: 17 Location - Section: 17 Location - Section: 17 Location - Section: 17 Location - Section: 17 Location - Section: 17 Surface water body within 1000' radius of site: Domestic water wells within 1000' radius of site: Surface water body within 1000' radius of site: Domestic water wells within 1000' radius of site: Surface water body within 1000' radius of site: Domestic water wells within 1000' radius of site: Surface water supply wells within 1000' radius of site: Public water supply wells within 1000' radius of site: Surface water body within 1000' radius of site: Public water supply wells within 1000' radius of site: Surface water body within 1000' radius of site: Public water supply wells		(A	lso applies to	unautl	horized relea	ises >500 mcf Natu	iral Gas)			
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Parameter >19 10-19 0-9 Benzene ¹ 10 ppm 10 ppm 10 ppm BTEX ¹ 50 ppm 50 ppm 50 ppm TPH 100 ppm 1000 ppm 5000 ppm										
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TPH 100 ppm 1000 ppm 5000 ppm	······································									
	BTEX ¹ 50 ppr			50 ppm			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
1100 ppm field VOC headspace measurement may be substituted for lab analysis								0 ppm		
	1100 ppm field	VOC heads	pace measur	remen	nt may be s	substituted for l	ab analysis			

District I 1625 N. French Dr., Hobbs, NM 88240 District II		ew Mexico nd Natural Resources		Form C-141 Revised October 10, 2003			
 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 	1220 South 3	vation Division St. Francis Dr. NM 87505 Submit 2 Copies to app District Office in acc with Rule 116 side					
Release	Notification an	nd Corrective	Action				
OPERATOR		🗌 Initial	Report	Final Report			
Name of Company: Devon Energ		Contact: Joe H:	undley				
Address: PO Box 250 2401 Pecos		Telephone No. 505.748.3371					
Artesia, New Mexico 88211-0250 Facility Name	, <u></u>	Facility Type					
Little Kings #3		Drilling reserve	pit				
Surface Owner: State of New M	lexico	Mineral Owner		Lease No.			
	LOCATION O	F RELEASE					
Unit Letter Section Township	Range Feet	North/South Feet	East/V	West County: Lea			
K 17 T22S	R35E from the	Line from the	Line				
Latitude	: 32°23'25.6"N	Longitude: 10	3.3.20 1	e'' W			
Dutttude	NATURE OF		0 10 1/10				
Type of Release		Volume of Release		Volume Recovered			
Drilling mud/fluids and well cutti Source of Release	ngs	Date and Hour of		Date and Hour of			
Drilling reserve pit		Occurrence		Discovery			
Was Immediate Notice Given?		If YES, To Whom?					
<u> </u>	Not Required	Larry Johnson					
By Whom? Was a Watercourse Reached?	Yes 🛛 No	Date and Hour If YES, Volume Impacting the Watercourse.					
		NA					
If a Watercourse was Impacted, Dese NA		L					
Describe Cause of Problem and Rem Drilling reserve pit	edial Action Taken.*						
Describe Area Affected and Classer	Action Taken *						
Describe Area Affected and Cleanup Action Taken.* Excavate and dispose of drill pit contents. Remedial Goals: TPH 8015m = 5000 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of benzene, ethylbenzene, toluene, and xylenes = 50 mg/Kg.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Signature:		OIL CONSERVATION DIVISION					
Printed Name: Joe Handley							
		Approved by Di	strict Sup	ervisor:			
E-mail Address: joe.handley@dvn	.com	Approval Date:		Expiration Date:			
Title: Supervising Manager		Conditions of A	pproval:	Attached 🗖			
Date: November 9, 2004	Phone: 505.748.337	1					

Attach Additional Sheets If Necessary

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