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Remediation Work Plan

**Grizzly Energy LLC
Skelly Q, R, & S Battery
Lea County, New Mexico
Unit Letter "P", Section 36, Township 16 South, Range 36 East
Latitude 32.872387 North, Longitude 103.3022686 West
API # 30-025-03783**

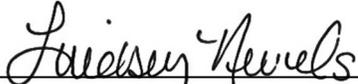
Prepared For:

Grizzly Energy LLC
4001 Penbrook Street
Odessa Tx, 79762

Prepared By:

Hungry Horse LLC
4024 Plains Hwy
Lovington, NM 88260

July 2020


Lindsey Nevels
Project Manager


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Sr. Project Manager

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HUNGRY HORSE, LLC

The following *Site Characterization and Work Plan* serves as a condensed update on field activities undertaken and proposed actions for the afore referenced Site.

Background:

The site is located in Unit Letter P (SE/SE), Section 36, Township 16 South, Range 36 East, approximately 5.7 miles south of Lovington, in Lea County, New Mexico. The property is owned by the BLM.

The release occurred in an active tank battery containment; latitude 32.872387 North, Longitude 103.3022686 West. Topographic Map, OSE POD Locations Map, USGS Well Locations Map, and Delineation Sample Location Map are included as Figure 1, Figure 2, Figure 3, and Figure 4, respectively. The Initial NMOCD Form C-141 indicated that on January 31, 2020, approximately 12 bbls of oil was released with 10 bbls recovered. The release is attributed to a hole in a steel connection causing fluid to release in an unlined containment. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. Remediation Pages of the NMOCD Form C-141 are included as Attachment V.

The fluid was contained within the tank battery containment berms. The release area measures approximately 1,800 sq. ft.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is located in a Low Karst designated area. Depth to groundwater information is provided as Attachment II and the results are depicted on Figures 1, 2, and 3.

Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
51'-100'	Chloride	EPA 300.0 or SM4500 CLB	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg



Delineation Activities:

On February 25, 2020, Hungry Horse conducted an initial site assessment. During the site assessment, a series of sample trenches were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, sample trenches were advanced at the inferred edges of the release area in an effort to determine the horizontal extent of soil impacts. During the advancement of the test trenches, thirty-seven (37) field soil samples were collected and field-screened for chloride concentrations utilizing La Motte Chloride Kit (Titration Method).

Based on field observations and field test data, nine (9) representative soil samples (SP1 through SP5, and SW1 through SW4) were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond eight (8) ft. bgs and the vertical and horizontal extents of the release area were also adequately defined.

A Delineation Sample Location Map is provided as Figure 4, and Field data is provided as Attachment III. A Summary of Soil Sample Field and Laboratory Analytical Results is provided as Table 1, and Laboratory Analytical Reports are provided as Attachment IV.

Proposed Actions:

Based on the initial site assessment, field sampling, and laboratory analytical results made during the initial site assessment, the following remediation activities are proposed in an effort to advance the site toward an approved closure:

- The release area will be excavated approximately two (2) ft. bgs or until laboratory analytical results indicate contaminant concentrations are below the NMOCD Closure Criteria.
- During excavation activities, care will be taken to not compromise the integrity of the lines and/or vessels within the tank battery.
- Excavated soil will be temporarily stockpiled onsite, atop plastic, before transport to a state approved disposal facility.
- Confirmation composite soil samples will be collected from the excavation floor and sidewalls, and submitted to the laboratory for analysis of BTEX, TPH, and chloride.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, the excavation will be backfilled with locally sourced, non-impacted, like material.
- Upon completion of remediation activities, a *Remediation Summary and Closure Report* will be prepared detailing field activities and laboratory analytical results from confirmation soil samples.



Sampling Plan:

Upon completion of excavation activities, confirmation five-point composite soil samples will be collected from the floor of the excavated area representing every 200 square feet. Confirmation five-point composite soil samples will also be collected from the excavation sidewalls representing no more than 50 linear ft.

Estimated Timeline and Remediated Soil Volume:

Remediation activities are expected to be completed within 90 days of receiving necessary approval of this *Site Assessment and Remediation Work Plan*. Based on laboratory analytical results and field observations it is estimated that approximately 170 cubic yards of contaminated material is in need of removal.

Restoration, Reclamation, and Re-Vegetation:

Areas affected by remediation and closure activities will be restored, as practicable, to the condition that existed prior to the release. Excavated areas will be backfilled with locally sourced, non-impacted, like material. The affected areas will be contoured to achieve erosion control and preserve surface water flow. Affected areas not on production areas will be reseeded with an approved seed mixture during the first favorable growing season following closure of the site.

Limitations:

Hungry Horse, LLC, has prepared this Site Assessment and Remediation Work Plan to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



Distribution:

Grizzly Energy LLC

4001 Penbrook Street
Odessa, TX 797

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1
1625 N. French Drive
Hobbs, NM 88240

Figures

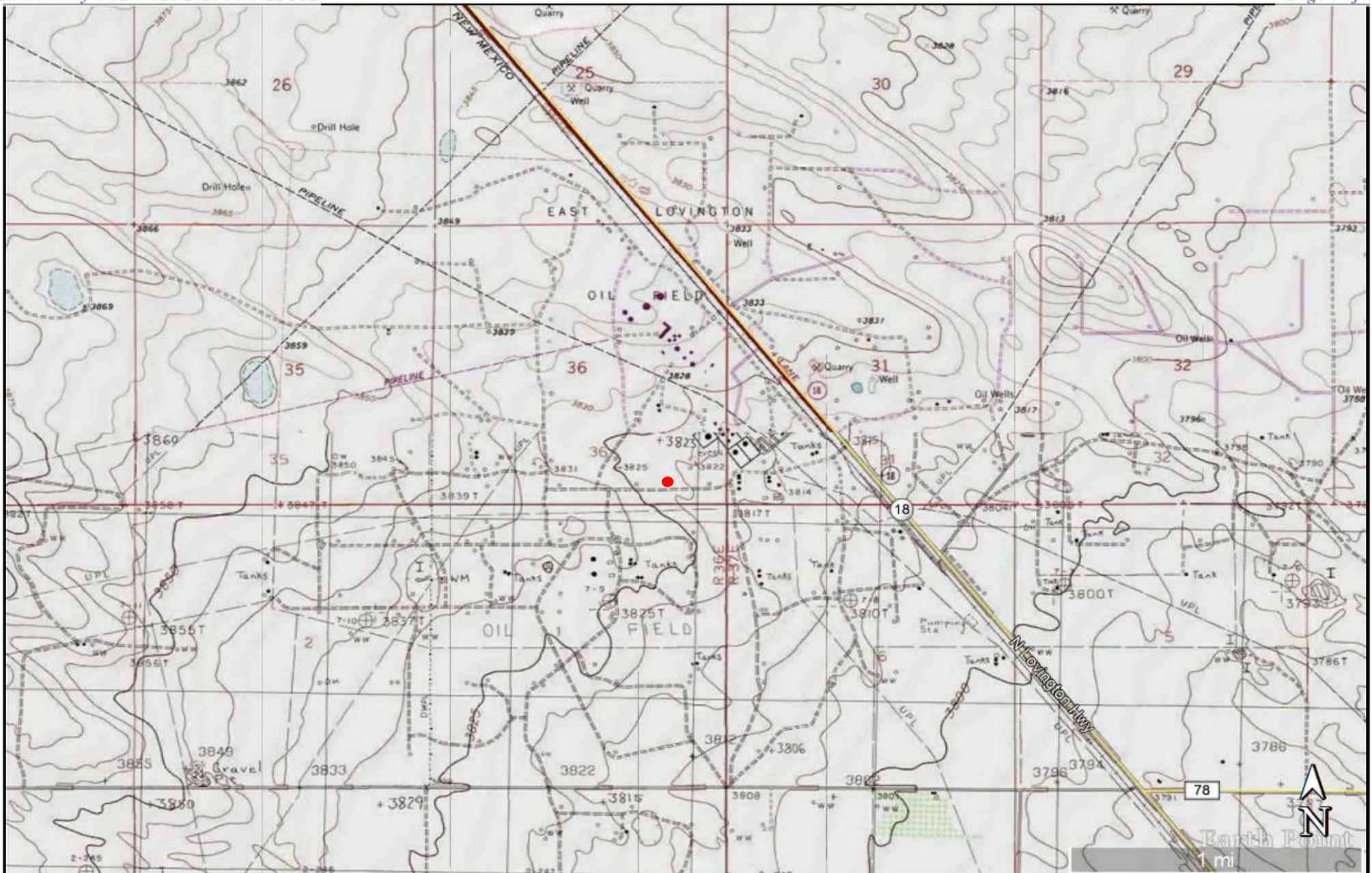


Figure 1

Topographic Map
 Grizzly Energy LLC
 Skelly Q, R, & S Battery
 GPS: 32.8723877, -103.302686
 Lea County

Legend:

- Skelly Q, R, & S Battery Location

Drafted: lmn
 Checked: dd
 Date: 6/15/20



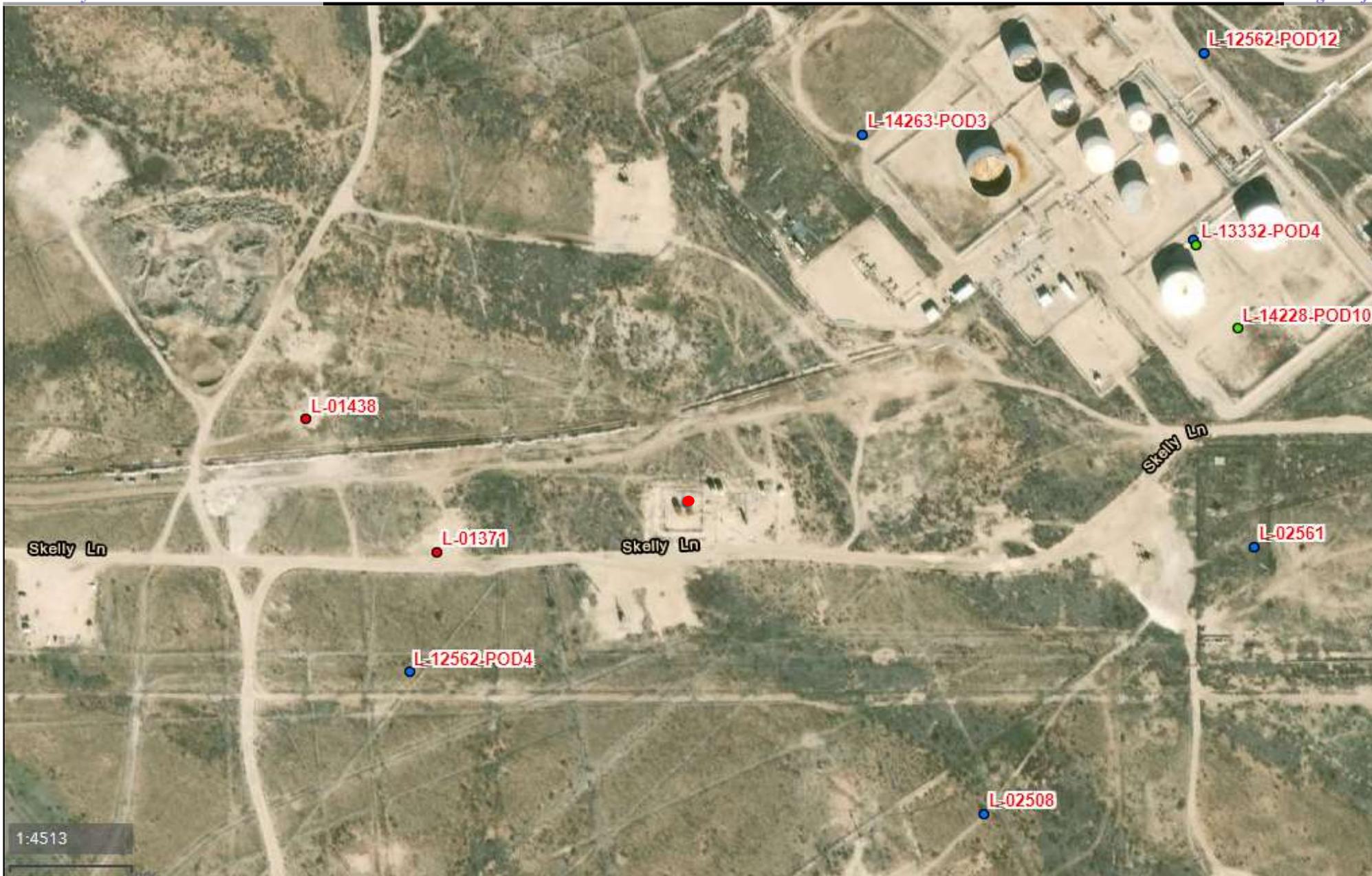


Figure 2

OSE POD Locations Map
 Grizzly Energy LLC
 Skelly Q, R, & S Battery
 GPS: 32.872517, -103.302754
 Lea County

Legend:

- Skelly Q, R, & S Battery location
- OSE Active Well
- OSE Pending Well
- OSE Plugged Well

Drafted: Imn
 Checked: dd
 Date: 6/15/20



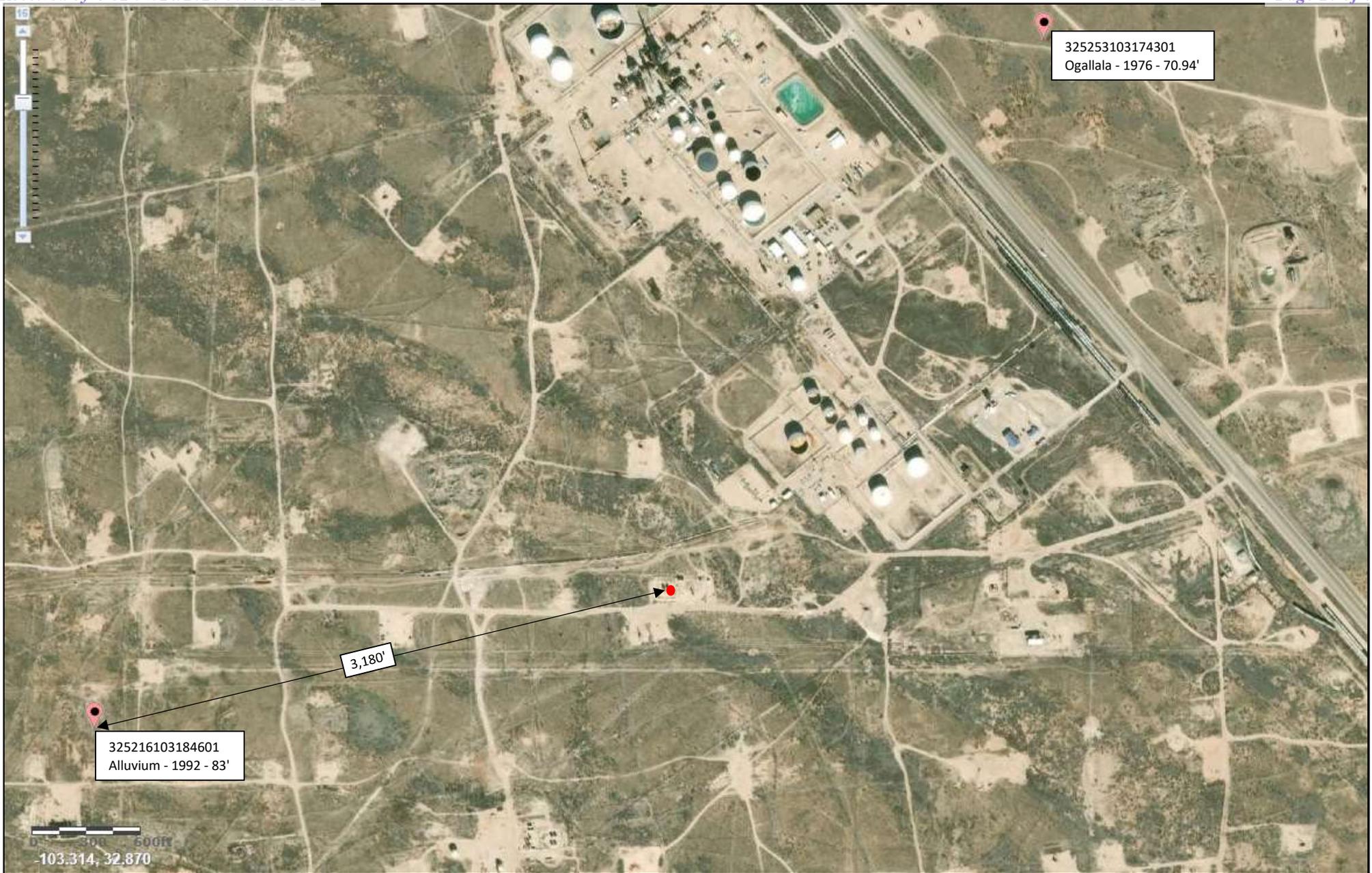


Figure 3

USGS Well Locations Map
 Grizzly Energy LLC
 Skelly Q, R, & S Battery
 GPS: 32.872517, -103.302754
 Lea County

Legend:

- Skelly Q, R, & S Battery location
- USGS Well Location

Drafted: Imn
 Checked: dd
 Date: 6/15/20





Figure 4

Delineation Sample Location Map
Grizzly Energy LLC
Skelly Q, R, & S Battery
GPS: 32.872517, -103.302754
Lea County

Legend:

- SP1 Sample Location
- Affected Area

Drafted: Imn
Checked: dd
Date: 6/15/20



Tables

TABLE 1
Summary of Soil Sample Field and Laboratory Analytical Results
Grizzly Energy LLC
Skelly Q, R, & S Battery
NMOCD Incident # NRM2003849891

Sample ID	Date	Depth	Soil Status	Field Chloride (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1	3/2/20	8'	In-situ	160	ND	ND	ND	27.5	27.5	ND	27.5	ND
SP2	3/3/20	8'	In-situ	80	ND	ND	ND	ND	ND	ND	ND	ND
SP3	3/4/20	8'	In-situ	160	ND	ND	ND	ND	ND	ND	ND	ND
SP4	3/5/20	8'	In-situ	160	ND	ND	ND	318	318	237	555	ND
SP5	3/6/20	8'	In-situ	240	ND	ND	ND	732	732	544	1,276	41.5
SW1	3/7/20	2'	In-situ	320	ND	ND	ND	65.2	65.2	66.2	131.4	46.5
SW2	3/8/20	2'	In-situ	80	ND	ND	ND	ND	ND	ND	ND	644
SW3	3/9/20	2'	In-situ	160	ND	ND	ND	ND	ND	ND	ND	ND
SW4	3/10/20	2'	In-situ	320	ND	ND	ND	ND	ND	ND	ND	650
NMOCD Closure Criteria				-	10	50	-	-	1,000	-	2,500	10,000

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

Site Photographs

Photographic Log

Photo Number: #1	 A close-up photograph showing a dark, viscous spill on the ground. A pipe with a 90-degree elbow is visible, with a black boot or cap covering the end. The pipe is connected to a larger, rusted metal tank. The surrounding area is dry and rocky with sparse, yellowish-brown vegetation.
Photo Direction: South	
Photo Description: Point of release	

Photo Number: #2	 A wide-angle photograph showing a view across a release area. Two large, rusted metal storage tanks are visible in the background. The ground in the foreground is rocky and covered with sparse, dry vegetation. A dark, irregular spill is visible on the ground between the tanks. The sky is clear and blue.
Photo Direction: South	
Photo Description: View across release area	

Photographic Log

Photo Number: #3		
Photo Direction: West		
Photo Description: View across release area		

Photo Number: #4		
Photo Direction: East		
Photo Description: View across release area		

Attachment II

Depth to Groundwater Information



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 01371	L	LE		4	3	4	36	16S	36E	658603	3638389*	188	115	45	70
L 12562 POD4	L	LE		4	4	2	36	16S	36E	658584	3638296	243	121	106	15
L 01438	L	LE			3	4	36	16S	36E	658504	3638490*	288	110	45	65
L 14263 POD3	L	LE		4	4	4	01	17S	36E	658914	3638715	311	225		
L 02508	L	LE		2	2	2	01	17S	36E	659013	3638194*	327	120	40	80
L 02561	L	LE		3	3	3	31	16S	37E	659210	3638403*	424	137	50	87
L 13332 POD1	L	LE		1	3	3	36	16S	37E	659161	3638638	427	106	102	4
L 04988	L	LE			1	2	01	17S	36E	658510	3638089*	440	195	55	140
L 01350	L	LE			2	4	36	16S	36E	658901	3638899*	481	110	55	55
L 12562 POD12	L	LE		3	1	3	31	16S	37E	659166	3638783	517	109	94	15
L 01220 POD1	L	LE			3	3	31	16S	37E	659311	3638504*	529	120	55	65
L 12562 POD10	L	LE		2	2	4	36	16S	36E	659032	3638913	541	113	98	15
L 12562 POD1	L	LE		2	2	4	36	16S	36E	658908	3639001	582	120	105	15
L 12562 POD2	L	LE		2	2	3	36	16S	36E	659065	3638963	600	112	97	15
L 04058 POD2	L	LE		2	2	4	36	16S	36E	659000	3638998*	605	248	62	186
L 04058 S16	L	LE		2	2	4	36	16S	36E	659000	3638998*	605	235	62	173
L 12562 POD11	L	LE		2	4	2	01	17S	36E	658989	3637831	632	112	97	15
L 14377 POD3	L	LE		2	3	3	31	16S	37E	659423	3638586	654	115		
L 14228 POD2	L	LE		4	1	3	31	16S	37E	659351	3638764	655	120		
L 12562 POD3	L	LE		3	1	3	31	16S	37E	659316	3638878	692	108	93	15
L 12562 POD8	L	LE		2	2	4	36	16S	36E	658992	3639097	697	122	107	15
L 13332 POD2	L	LE		4	3	2	36	16S	36E	658677	3639129	707	120	104	16
L 12562 POD14	L	LE			2	2	36	16S	36E	658677	3639136	713	116	101	15
L 14377 POD4	L	LE		2	3	3	31	16S	37E	659492	3638571	718	120		
L 14377 POD1	L	LE		2	3	3	31	16S	37E	659484	3638621	722	118		
L 14377 POD2	L	LE		2	3	3	31	16S	37E	659504	3638600	737	120		

*UTM location was derived from PLSS - see Help

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 01584 POD1	L	LE		2	1	01	17S	36E		658107	3638083*	763	110	48	62
L 04058 S26	L	LE		4	4	2	36	16S	36E	658993	3639200*	796	237		
L 14207 POD1	L	LE		3	3	2	01	17S	36E	658500	3637679	804	240	100	140
L 12562 POD6	L	LE		4	4	2	36	16S	36E	659001	3639212	809	124	109	15
L 12562 POD5	L	LE		3	3	1	31	16S	37E	659252	3639117	829	120	105	15
L 12562 POD7	L	LE		4	4	2	36	16S	36E	658912	3639266	844	122	107	15
L 14228 POD1	L	LE		3	4	2	36	16S	36E	658821	3639303	873	130		
L 04058 S23	L	LE		4	2	36	16S	36E		658894	3639301*	876	119	90	29

Average Depth to Water: **82 feet**

Minimum Depth: **40 feet**

Maximum Depth: **109 feet**

Record Count: 34

UTMNAD83 Radius Search (in meters):

Easting (X): 658786.9

Northing (Y): 3638431

Radius: 880

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

New Mexico Office of the State Engineer
Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 01371	4	3	4	36	16S	36E	658603	3638389*

Driller License: 46	Driller Company: ABBOTT BROTHERS COMPANY		
Driller Name: ABBOTT, CLYDE			
Drill Start Date: 02/22/1952	Drill Finish Date: 02/23/1952	Plug Date: 08/31/1953	
Log File Date: 02/25/1952	PCW Rev Date: 11/19/1953	Source: Shallow	
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size:	Depth Well: 115 feet	Depth Water: 45 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	45	115	Sandstone/Gravel/Conglomerate

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY

New Mexico Office of the State Engineer
Point of Diversion Summary

		<small>(quarters are 1=NW 2=NE 3=SW 4=SE)</small>					
Well Tag	POD Number	<small>(quarters are smallest to largest)</small>	<small>(NAD83 UTM in meters)</small>				
		Q64 Q16 Q4 Sec Tws Rng	X Y				
	L 01438	3 4 36 16S 36E	658504 3638490*				

Driller License: 46	Driller Company: ABBOTT BROTHERS COMPANY	
Driller Name:		
Drill Start Date: 05/05/1952	Drill Finish Date: 05/06/1952	Plug Date: 04/30/1954
Log File Date: 05/20/1952	PCW Rev Date: 06/09/1958	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 110 feet	Depth Water: 45 feet

Water Bearing Stratifications:	Top	Bottom	Description
	44	110	Sandstone/Gravel/Conglomerate

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		<small>(quarters are 1=NW 2=NE 3=SW 4=SE)</small>							
		<small>(quarters are smallest to largest)</small>						<small>(NAD83 UTM in meters)</small>	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 02508		2	2	2	01	17S	36E	659013	3638194*

Driller License:	33	Driller Company:	TATUM CLAUDE E.						
Driller Name:	TATUM, CLAUDE E.								
Drill Start Date:	11/17/1954	Drill Finish Date:	11/20/1954	Plug Date:					
Log File Date:	11/26/1954	PCW Rev Date:	08/15/1955	Source:	Shallow				
Pump Type:	TURBIN	Pipe Discharge Size:			Estimated Yield:	115 GPM			
Casing Size:	7.00	Depth Well:	120 feet	Depth Water:	40 feet				

Water Bearing Stratifications:	Top	Bottom	Description
	40	120	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	60	120

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)				
Well Tag	POD Number	(quarters are smallest to largest)	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 02561			3	3	3	31	16S	37E	659210	3638403*

Driller License: 46	Driller Company: ABBOTT BROTHERS COMPANY	
Driller Name:		
Drill Start Date: 03/02/1954	Drill Finish Date: 03/03/1954	Plug Date:
Log File Date: 03/30/1954	PCW Rev Date: 08/15/1955	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 7.00	Depth Well: 137 feet	Depth Water: 50 feet

Water Bearing Stratifications:	Top	Bottom	Description
	45	75	Sandstone/Gravel/Conglomerate
	95	137	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	50	137

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: L 12562 **Subbasin:** L **Cross Reference:** -
Primary Purpose: MON MONITORING WELL
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: NAVAJO REFINING COMPANY
Contact: STEVE TERRY
Owner: LEA REFINERY
Contact: STEVE TERRY

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To	T			
get images	485041	EXPL 2010-05-19	PMT	LOG	PODS 1-15	T		0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64	Q16	Q4	Sec	Tw	Rng	X	Y	Other Location Desc
L 12562 POD1		Shallow	2	2	4	36	16S	36E		658908	3639001	WV 18
L 12562 POD10		Shallow	2	2	4	36	16S	36E		659032	3638913	MW 19
L 12562 POD11		Shallow	2	4	2	01	17S	36E		658989	3637831	MW 20
L 12562 POD12		Shallow	3	1	3	31	16S	37E		659166	3638783	MW 21
L 12562 POD13		Shallow	2	4	2	36	16S	36E		658956	3639405	MW 28
L 12562 POD14		Shallow		2	2	36	16S	36E		658677	3639136	MW 17
L 12562 POD15		Shallow	4	1	2	36	16S	36E		658634	3639529	MW 15
L 12562 POD2		Shallow	2	2	3	36	16S	36E		659065	3638963	MW 23
L 12562 POD3		Shallow	3	1	3	31	16S	37E		659316	3638878	MW 22
L 12562 POD4		Shallow	4	4	2	36	16S	36E		658584	3638296	MW 16
L 12562 POD5		Shallow	3	3	1	31	16S	37E		659252	3639117	MW 24
L 12562 POD6		Shallow	4	4	2	36	16S	36E		659001	3639212	WV 26
L 12562 POD7		Shallow	4	4	2	36	16S	36E		658912	3639266	MW 27
L 12562 POD8		Shallow	2	2	4	36	16S	36E		658992	3639097	MW 25
L 12562 POD9		Shallow	1	4	4	25	17S	36E		658980	3630480	MW 29

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	0		MON		GW

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New Mexico Office of the State Engineer
Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	12562 POD4	4	4	2	36	16S	36E	658584	3638296

Driller License:	1210	Driller Company:	CASCADE DRILLING, LP
Driller Name:	BRYAN NYDOSKE		
Drill Start Date:	05/24/2010	Drill Finish Date:	05/24/2010
Log File Date:	06/08/2010	PCW Rev Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	2.00	Depth Well:	121 feet
		Plug Date:	
		Source:	Shallow
		Estimated Yield:	
		Depth Water:	106 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	5	Other/Unknown
	5	111	Sandstone/Gravel/Conglomerate

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7/8/20 1:14 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 12562	POD12	3	1	3	31	16S	37E	659166	3638783

Driller License:	1210	Driller Company:	CASCADE DRILLING, LP		
Driller Name:	BRYAN NYDOSKE				
Drill Start Date:	05/21/2010	Drill Finish Date:	05/21/2010	Plug Date:	
Log File Date:	06/08/2010	PCW Rev Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	2.00	Depth Well:	109 feet	Depth Water:	94 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	5	Other/Unknown
	5	109	Sandstone/Gravel/Conglomerate

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7/15/20 12:18 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 13332	POD1	1	3	3	36	16S	37E	659161	3638638

Driller License: 1575	Driller Company: CURRIE DRILLING COMPANY, INC	
Driller Name: SHANE CURRIE		
Drill Start Date: 06/18/2013	Drill Finish Date: 06/21/2013	Plug Date:
Log File Date: 08/05/2013	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 2.00	Depth Well: 106 feet	Depth Water: 102 feet

Casing Perforations:	Top	Bottom
	86	106

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	L 13332 POD4	1	3	3	31	16S	37E	659164	3638635

Driller License:	Driller Company:	
Driller Name:		
Drill Start Date:	Drill Finish Date:	Plug Date:
Log File Date:	PCW Rev Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well:	Depth Water:

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7/15/20 12:11 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 14228	POD1	3	4	2	36	16S	36E	658821	3639303

Driller License: 1670	Driller Company: HARRISON & COOPER, INC. (WD-1670)	
Driller Name: COOPER, KEN D.		
Drill Start Date: 12/07/2016	Drill Finish Date: 12/07/2016	Plug Date: 12/07/2016
Log File Date: 01/26/2017	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 2.00	Depth Well: 130 feet	Depth Water:

Casing Perforations:	Top	Bottom
	100	130

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7/15/20 12:09 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)			(NAD83 UTM in meters)	
Well Tag	POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y		
L 14263	POD3	4 4 4 01 17S 36E	658914	3638715		

Driller License: 1731	Driller Company: HARRISON & COOPER, INC (WD-1731)	
Driller Name: COOPER, KENNY		
Drill Start Date: 06/08/2016	Drill Finish Date: 06/08/2016	Plug Date:
Log File Date: 04/10/2017	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 4.00	Depth Well: 225 feet	Depth Water:

Casing Perforations:	Top	Bottom
	95	225

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 325216103184601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 325216103184601 17S.36E.01.1120

Lea County, New Mexico

Latitude 32°52'13", Longitude 103°18'46" NAD27

Land-surface elevation 3,836 feet above NGVD29

The depth of the well is 232 feet below land surface.

The depth of the hole is 232 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1992-05-01		D	83			0		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	0	Water level accuracy to nearest foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

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0.27 0.24 nadww01



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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 325253103174301

Minimum number of levels = 1

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USGS 325253103174301 16S.37E.31.11131

Lea County, New Mexico
Latitude 32°52'53", Longitude 103°17'43" NAD27
Land-surface elevation 3,831 feet above NAVD88
The depth of the well is 150 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1961-02-17		D	48.20				2		U	
1966-02-24		D	52.83				2		U	
1971-02-18		D	63.95				2		U	
1976-03-17		D	70.94				2		U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

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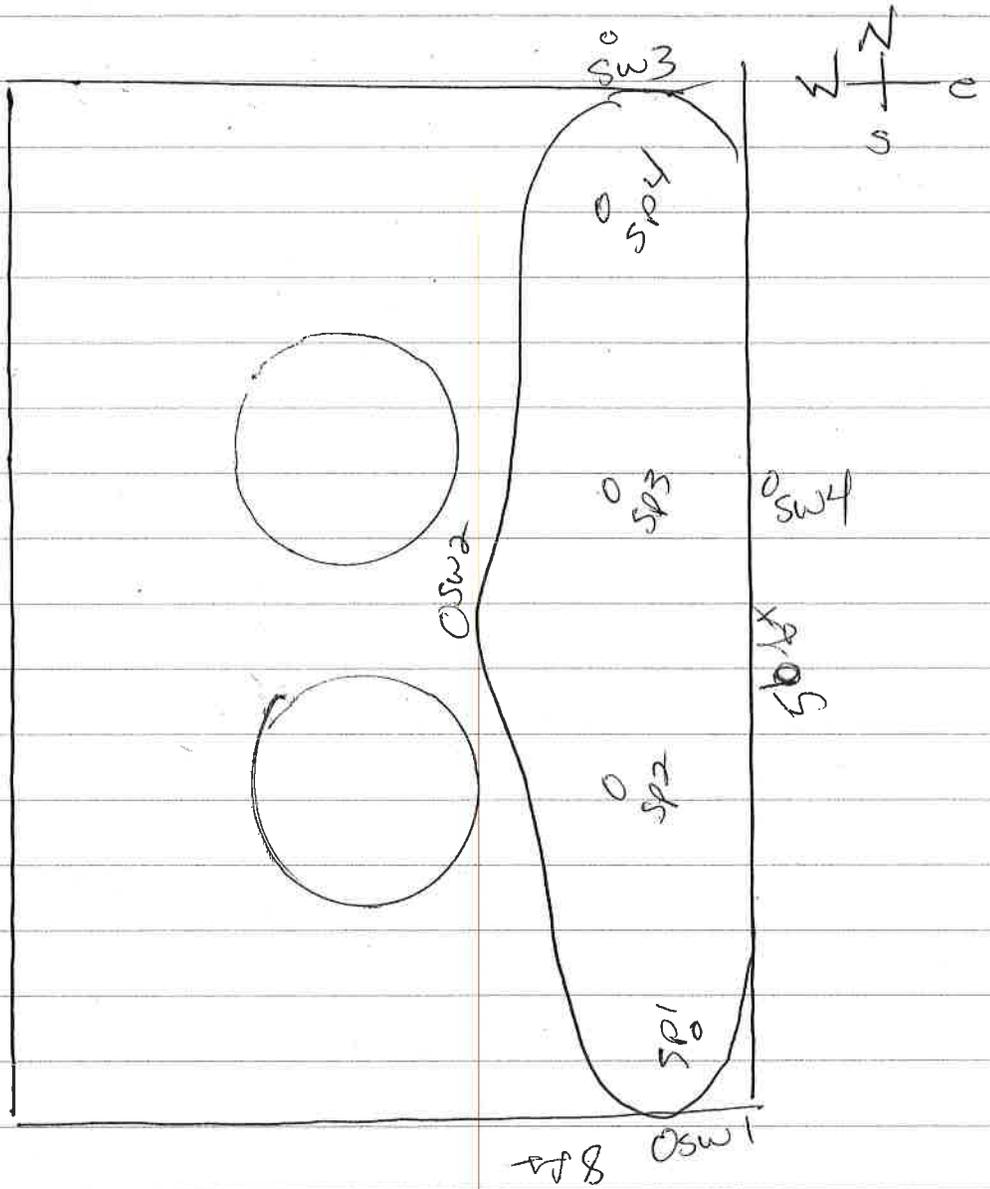
Page Last Modified: 2020-07-15 14:44:24 EDT

0.3 0.28 nadww01



Attachment III Field Data

Grizzly Skeddy



50 x 8

Girizzly Skelly Q R ES 2-25-20

SP1 surf	9:20	18x20 = 360	TPH
2'	9:31	18x20 = 360	TPH
4'	9:47	12x20 = 240	TPH
6'	10:19	8x20 = 160	
8'	10:31	8x20 = 160	lab

SP2- surf	10:43	24x20 = 480	TPH
2'	10:59	20x20 = 400	TPH
4'	11:17	12x20 = 240	TPH
6'	11:30	8x20 = 160	
8'	11:51	4x20 = 80	lab

SP3- surf	12:37	28x20 = 560	TPH
2'	12:53	20x20 = 400	TPH
4'	1:17	18x20 = 360	TPH
6'	1:40	^{12x20 =} 8x20 = 240	
8'	2:03	8x20 = 160	lab

turn in

Curizaly SKelly QR: S 2-26-20

SP4 - Surf 11:30 28x20 = 560 TPH
 2' 11:47 24x20 = 480 TPH
 4' 11:59 20x20 = 400 TPH
 6' 12:09 20x20 = 400
~~8' 12:21 8x20 = 160 lab~~

SP5 - Surf 1:01 20x20 = 400 TPH
 2' 1:16 18x20 = 360 TPH
 4' 1:29 12x20 = 240 TPH
 6' 1:40 12x20 = 240
~~8' 1:53 12x20 = 240 lab~~

SW1 - Surf 2:07 20x20 = 400
 1' 2:17 18x20 = 360
~~(S) 2' 2:23 16x20 = 320 lab~~

SW2 - Surf 2:30 12x20 = 240
 1' 2:39 8x20 = 160
~~(W) 2' 2:45 4x20 = 80 lab~~

SW3 - Surf 2:57 12x20 = 240
 1' 3:03 8x20 = 160
~~(N) 2' 3:11 8x20 = 160 lab~~

SW4 - Surf 3:20 18x20 = 360
 1' 3:27 16x20 = 320
~~(E) 2' 3:31 16x20 = 320 lab~~

Attachment IV

Laboratory Analytical Reports



Analytical Report

Report Summary

Client: Grizzly Energy

Samples Received: 2/28/2020

Job Number: 19054-0003

Work Order: P002101

Project Name/Location: Skelly QR & S

Report Reviewed By:

A handwritten signature in black ink that reads 'Walter Hinchman'.

Date: 3/2/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNi unless footnoted otherwise.
 Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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 Envirotech, Inc, holds the Utah TNi certification NM009792018-1 for the data reported.
 Envirotech, Inc, holds the Texas TNi certification T104704557-19-2 for the data reported.



Grizzly Energy
4001 Penbrook Suite 201
Odessa TX, 79762

Project Name: Skelly QR & S
Project Number: 19054-0003
Project Manager: Natalie Gladden

Reported:
03/02/20 15:08

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp1-8	P002101-01A	Soil	02/25/20	02/28/20	Glass Jar, 4 oz.
Sp2-8	P002101-02A	Soil	02/25/20	02/28/20	Glass Jar, 4 oz.
Sp3-8	P002101-03A	Soil	02/25/20	02/28/20	Glass Jar, 4 oz.
Sp4-8	P002101-04A	Soil	02/25/20	02/28/20	Glass Jar, 4 oz.
Sp5-8	P002101-05A	Soil	02/25/20	02/28/20	Glass Jar, 4 oz.
SW1-2', (s)	P002101-06A	Soil	02/25/20	02/28/20	Glass Jar, 4 oz.
SW2-2', (w)	P002101-07A	Soil	02/25/20	02/28/20	Glass Jar, 4 oz.
SW3-2', (N)	P002101-08A	Soil	02/25/20	02/28/20	Glass Jar, 4 oz.
SW4-2', (E)	P002101-09A	Soil	02/25/20	02/28/20	Glass Jar, 4 oz.

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Grizzly Energy 4001 Penbrook Suite 201 Odessa TX, 79762	Project Name: Skelly QR & S Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 03/02/20 15:08
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Sp1-8
P002101-01 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>103 %</i>		<i>50-150</i>	<i>2009040</i>	<i>02/28/20</i>	<i>02/29/20</i>	<i>EPA 8021B</i>	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	27.5	25.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>89.2 %</i>		<i>50-200</i>	<i>2009039</i>	<i>02/28/20</i>	<i>02/29/20</i>	<i>EPA 8015D</i>	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>87.6 %</i>		<i>50-150</i>	<i>2009040</i>	<i>02/28/20</i>	<i>02/29/20</i>	<i>EPA 8015D</i>	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A	

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Sp2-8
P002101-02 (Solid)

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2009040	02/28/20	02/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		90.9 %		50-200	2009039	02/28/20	02/29/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	02/29/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.5 %		50-150	2009040	02/28/20	02/29/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A	

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Sp3-8
P002101-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.0250		mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Toluene	ND	0.0250		mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Ethylbenzene	ND	0.0250		mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
p,m-Xylene	ND	0.0500		mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
o-Xylene	ND	0.0250		mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Total Xylenes	ND	0.0250		mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %				2009040	02/28/20	03/01/20	EPA 8021B	
				50-150						
Nonhalogenated Organics by 8015 - DRO/ORO										
Diesel Range Organics (C10-C28)	ND	25.0		mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0		mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		94.9 %				2009039	02/28/20	02/29/20	EPA 8015D	
				50-200						
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0		mg/kg	1	2009040	02/28/20	03/01/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.7 %				2009040	02/28/20	03/01/20	EPA 8015D	
				50-150						
Anions by 300.0/9056A										
Chloride	ND	20.0		mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A	

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---	---	------------------------------------

Sp4-8
P002101-04 (Solid)

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2009040	02/28/20	03/01/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	318	25.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	237	50.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	2009039	02/28/20	02/29/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.3 %		50-150	2009040	02/28/20	03/01/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A	

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Sp5-8
P002101-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B		
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2009040	02/28/20	03/01/20	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/ORO										
Diesel Range Organics (C10-C28)	732	50.0	mg/kg	2	2009039	02/28/20	02/29/20	EPA 8015D		
Oil Range Organics (C28-C40)	544	100	mg/kg	2	2009039	02/28/20	02/29/20	EPA 8015D		
<i>Surrogate: n-Nonane</i>		109 %		50-200	2009039	02/28/20	02/29/20	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8015D		
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.1 %		50-150	2009040	02/28/20	03/01/20	EPA 8015D		
Anions by 300.0/9056A										
Chloride	41.5	20.0	mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A		

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Grizzly Energy 4001 Penbrook Suite 201 Odessa TX, 79762	Project Name: Skelly QR & S Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 03/02/20 15:08
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**SW1-2', (s)
P002101-06 (Solid)**

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2009040	02/28/20	03/01/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	65.2	25.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	66.2	50.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		105 %		50-200	2009039	02/28/20	02/29/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.1 %		50-150	2009040	02/28/20	03/01/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	46.5	20.0	mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A	

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**SW2-2', (w)
P002101-07 (Solid)**

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	2009040	02/28/20	03/01/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		108 %		50-200	2009039	02/28/20	02/29/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.7 %		50-150	2009040	02/28/20	03/01/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	644	20.0	mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A	
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**SW3-2', (N)
P002101-08 (Solid)**

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	2009040	02/28/20	03/01/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	2009039	02/28/20	02/29/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.0 %		50-150	2009040	02/28/20	03/01/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A	
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**SW4-2', (E)
P002101-09 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2009040	02/28/20	03/01/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009039	02/28/20	02/29/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	2009039	02/28/20	02/29/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.5 %		50-150	2009040	02/28/20	03/01/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	650	20.0	mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A	
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Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2009040 - Purge and Trap EPA 5030A

Blank (2009040-BLK1)

Prepared: 02/28/20 1 Analyzed: 02/29/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.99		"	8.00		99.9	50-150			

LCS (2009040-BS1)

Prepared: 02/28/20 1 Analyzed: 02/29/20 1

Benzene	4.85	0.0250	mg/kg	5.00		97.0	70-130			
Toluene	4.98	0.0250	"	5.00		99.5	70-130			
Ethylbenzene	4.90	0.0250	"	5.00		98.1	70-130			
p,m-Xylene	9.75	0.0500	"	10.0		97.5	70-130			
o-Xylene	4.86	0.0250	"	5.00		97.3	70-130			
Total Xylenes	14.6	0.0250	"	15.0		97.4	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.12		"	8.00		101	50-150			

Matrix Spike (2009040-MS1)

Source: P002100-01

Prepared: 02/28/20 1 Analyzed: 02/29/20 1

Benzene	10.1	0.0500	mg/kg	10.0	ND	101	54.3-133			
Toluene	10.3	0.0500	"	10.0	ND	103	61.4-130			
Ethylbenzene	10.2	0.0500	"	10.0	ND	102	61.4-133			
p,m-Xylene	20.2	0.100	"	20.0	ND	101	63.3-131			
o-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131			
Total Xylenes	30.3	0.0500	"	30.0	ND	101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	16.4		"	16.0		103	50-150			

Matrix Spike Dup (2009040-MSD1)

Source: P002100-01

Prepared: 02/28/20 1 Analyzed: 02/29/20 1

Benzene	9.32	0.0500	mg/kg	10.0	ND	93.2	54.3-133	7.96	20	
Toluene	9.56	0.0500	"	10.0	ND	95.6	61.4-130	7.46	20	
Ethylbenzene	9.41	0.0500	"	10.0	ND	94.1	61.4-133	7.82	20	
p,m-Xylene	18.7	0.100	"	20.0	ND	93.4	63.3-131	7.91	20	
o-Xylene	9.26	0.0500	"	10.0	ND	92.6	63.3-131	8.44	20	
Total Xylenes	27.9	0.0500	"	30.0	ND	93.1	0-200	8.08	200	
Surrogate: 4-Bromochlorobenzene-PID	16.2		"	16.0		101	50-150			

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Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2009039 - DRO Extraction EPA 3570

Blank (2009039-BLK1)

Prepared: 02/28/20 1 Analyzed: 02/28/20 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	50.5		"	50.0		101	50-200			

LCS (2009039-BS1)

Prepared: 02/28/20 1 Analyzed: 02/28/20 2

Diesel Range Organics (C10-C28)	460	25.0	mg/kg	500		92.0	38-132			
Surrogate: n-Nonane	48.1		"	50.0		96.1	50-200			

Matrix Spike (2009039-MS1)

Source: P002099-01

Prepared: 02/28/20 1 Analyzed: 02/28/20 2

Diesel Range Organics (C10-C28)	450	25.0	mg/kg	500	ND	90.0	38-132			
Surrogate: n-Nonane	47.4		"	50.0		94.8	50-200			

Matrix Spike Dup (2009039-MSD1)

Source: P002099-01

Prepared: 02/28/20 1 Analyzed: 02/28/20 2

Diesel Range Organics (C10-C28)	446	25.0	mg/kg	500	ND	89.1	38-132	1.03	20	
Surrogate: n-Nonane	46.8		"	50.0		93.5	50-200			

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Grizzly Energy 4001 Penbrook Suite 201 Odessa TX, 79762	Project Name: Skelly QR & S Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 03/02/20 15:08
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Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2009040 - Purge and Trap EPA 5030A

Blank (2009040-BLK1)

Prepared: 02/28/20 1 Analyzed: 02/29/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.87		"	8.00		85.8	50-150			

LCS (2009040-BS2)

Prepared: 02/28/20 1 Analyzed: 02/29/20 1

Gasoline Range Organics (C6-C10)	49.8	20.0	mg/kg	50.0		99.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		"	8.00		87.2	50-150			

Matrix Spike (2009040-MS2)

Source: P002100-01

Prepared: 02/28/20 1 Analyzed: 02/29/20 2

Gasoline Range Organics (C6-C10)	99.7	40.0	mg/kg	100	ND	99.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	14.0		"	16.0		87.5	50-150			

Matrix Spike Dup (2009040-MSD2)

Source: P002100-01

Prepared: 02/28/20 1 Analyzed: 02/29/20 2

Gasoline Range Organics (C6-C10)	102	40.0	mg/kg	100	ND	102	70-130	1.78	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	14.1		"	16.0		88.3	50-150			

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Grizzly Energy 4001 Penbrook Suite 201 Odessa TX, 79762	Project Name: Skelly QR & S Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 03/02/20 15:08
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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2009041 - Anion Extraction EPA 300.0/9056A

Blank (2009041-BLK1)

Prepared: 02/28/20 1 Analyzed: 02/29/20 1

Chloride	ND	20.0	mg/kg							
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LCS (2009041-BS1)

Prepared: 02/28/20 1 Analyzed: 02/29/20 1

Chloride	257	20.0	mg/kg	250		103	90-110			
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Matrix Spike (2009041-MS1)

Source: P002099-01

Prepared: 02/28/20 1 Analyzed: 02/29/20 1

Chloride	272	20.0	mg/kg	250	ND	109	80-120			
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Matrix Spike Dup (2009041-MSD1)

Source: P002099-01

Prepared: 02/28/20 1 Analyzed: 02/29/20 1

Chloride	274	20.0	mg/kg	250	ND	110	80-120	0.776	20	
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grizzly Energy	Project Name:	Skelly QR & S	
4001 Penbrook Suite 201	Project Number:	19054-0003	Reported:
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 15:08

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client: <u>Grizzly</u>	Bill To	Lab Use Only		TAT		EPA Program			
Project: <u>SKELLY AR 95</u>	Attention: <u>Natali Gladden</u>	Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA	
Project Manager:	Address:	<u>P 00 2101</u>	<u>19054-0003</u>						
Address:	City, State, Zip	Analysis and Method						State	
City, State, Zip	Phone:	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX
Phone:	Email: <u>njgladden@hughes-bos.com</u>								
Email:									
Report due by:									

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
10:31	2/25/20	S	1	Sp1-8	1									
11:51	2/25/20			Sp2-8	2									
2:03	2/25/20			Sp3-8	3									
12:21	2/25/20			Sp4-8	4									
1:53	2/25/20			Sp5-8	5									
2:23	2/25/20			SW1-2' (S)	6									
2:45	2/25/20			SW2-2' (W)	7									
3:11	2/25/20			SW3-2' (N)	8									
3:31	2/25/20			SW4-2' (E)	9									

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>2/27/20</u>	Time <u>8:00</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>2/27/20</u>	Time <u>2:00</u>	Lab Use Only
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>2/27/20</u>	Time <u>12:49</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>2-27-2020</u>	Time <u>1249</u>	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>2-28-20</u>	Time <u>1125</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>2/28/2020</u>	Time <u>11:45</u>	T1 _____ T2 _____ T3 _____
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						AVG Temp °C <u>4</u>

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



5796 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone: (800) 362-1879

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Attachment V
NMOCD Form C-141 Remediation Pages

Incident ID	NRM2003849891
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51'-100'</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Carmen E Pitt Title: Senior EHS Specialist

Signature: *Carmen E Pitt* Date: 7/16/2020

email: cpitt@grizzlyenergyllc.com Telephone: 432-248-8145

OCD Only

Received by: _____ Date: _____

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____