CLOSURE REPORT RAZ OIL AND GAS YO STATE #1

On the morning of may 6th 2018 a spill occurred at the Raz oil and gas swd well the Yo state #1due to a 3" connection failing on tank. This allowed approximately 250bbl of produced water to flow into pasture area just east of pad. At this time vacuum trucks where used to pick up any free standing fluid in pasture approximately 60bbl and a backhoe was used to scrape and dig up any visible contamination and was stock piled on site. According to the surveying from that area and a water well approximately 3957ft away from from spill area depth to water is over 200ft. Sight was then excavated 2ft and 4ft in some areas to remove any visible contamination approximately 596 yards was hauled off to Sundance Services, samples where ran on sight to determine amount of chlorides in samples. After clean samples where reached they where taken to cardinal labs in Hobbs New Mexico for analysis. Analytical data shows sight to be clean on chlorides Btex and TPH at this time I am proposing to back fill sight with top soil and reseed area using land owners recommendation. Any questions or comments you can call Jacob Melancon at 575 399 2727 thank you.

Sincerely

Jacob Melancon 575 399 2727



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	347 01 +648		BILL TO	ANALYSIS REQUEST
Project Manager:	2		P.O.#: 1176	
Address: 2403	Ave		Company: RAZ CildGao	
11		State: W. W. Zip: S823/	Attn: Tare & Mulenca	
Ф #:	575-399-2727 Fax#: 57	Fax #: 575 - 394 -1048	Address: 2703 Ave 0	
Project #: /oo/		Project Owner: But They son		
ame:	/ながり		State: W.w. Zip: 5823/	
2	Vist: #1		Phone #: \$75 - 355 - 2727	
Sampler Name:	mean	ton	Fax #: 575 - 354-1648	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	
	5.45 4.5	× - - 2	10.15 10.15	

PLEASE NOTE: Liability and Damages. Cardinats liability and distrits exclusive remety for any claim arising whether based in contract or tort, shall be firnited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal writin 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without firmation, business interruptions, base of use, or base of profits incurred by client, its subsidiaries.

affigure. Of successors arising out of or related to the performance of services hereu	ormance of services hereunder by Cardinal: regardless of whether such claim is based upon any of the above stated reasons of otherwise of the property of the above stated reasons of otherwise of the property of the above stated reasons of otherwise of the property of the above stated reasons of otherwise of the property of the above stated reasons of otherwise of the property of the above stated reasons of otherwise of the property of the above stated reasons of otherwise of the above stated reasons of the above stated	Phone Result: Yes No Add'l Phone #:
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	Time:	Kush
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Sampler - UPS - Bus - Other:	Portetted 26.80 1	

Appendix C Historical Soil Sampling Data Summary Raz Oil and Gas- YO State #1 SWD

Lea County New Mexico

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Analytical Results For:

RAZ OIL & GAS JACOB MELANCON P. O. BOX 1180 EUNICE NM, 88231 NONE GIVEN Fax To:

Received:

10/15/2019

Reported:

10/16/2019 YO STATE #1

Project Name: Project Number:

1001

Project Location:

NONE GIVEN

Sampling Date:

10/15/2019

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Tamara Oldaker

Sample Received By:

Sample ID: SP 5 4.5' (H903491-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 32.0 ND 104 400 16.0 10/16/2019 416 3.92

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal'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 whatsoever shall be deemed waived unless 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 profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Celey D. Keene, Lab Director/Quality Manager

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

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

			Rele	ase Notifica	ation	and Co	rrective A	ction				
						OPERAT			X Initia	al Report		Final Report
	ompany RAZ						N THOMPSON					
	03 AVE O I		M 88231				No. 575-399-245	57				
Facility Na	me YO ST #	<u> </u>			1	Facility Typ	e SWD					
Surface Ov	vner STATE			Mineral Ov	wner				API No	. 30-025-3	8162	
				LOCA	TION	OF REI	LEASE					
Unit Letter D		Township 215	Range 3SE	Feet from the 660	North/S	South Line	Feet from the 840	East/W	est Line	County LEA COL	NTY	
			Latitud	le	Lo	ongitude		NAD8	33			
				NAT	URE	OF REL	EASE					
Type of Rele	ease PRODU	CED WATE	R				Release 250			Recovered 6		
Source of R	elease TANK	S				Date and F 05/05/18	Iour of Occurrence	e	Date and 05/06/18	Hour of Dis	covery	
	iate Notice G	ven?	X Yes	□ No □ Not		If YES, To		b				
Required	II COD I EI	ANGON				Determine	Iour 05/06/18					
	JACOB MEI rcourse Reach						olume Impacting t	the Wate	rcourse.			
was a wate	reduise reduct		Yes [] X No			r					
If a Waterco	ourse was Imp	acted, Descr	ibe Fully.	*								
N/A												
3" CONNE		TORAGE F	RAC TAN	n Taken.* NK BROKE CAUS ING COW TRAIL					N, EAST S	DE OF PAT) AND	INTO
PASTURE	rea Affected a AREA NORT LE SOIL TO I	HEAST OF	PAD USI	ED VAC TRUCK	TO SUC	CK UP STAI	NDING FLUID A	ND BA	СКНОЕ Т	O SCRAPE	AREA	AND
regulations public healt should their or the envir	all operators a h or the environment operations ha	onment. The eve failed to dition, NMO	o report a acceptan adequately OCD accep	e is true and compled in true and complement of a C-141 report of	elease noted the control of the cont	otifications a e NMOCD n e contaminat	nd perform correct parked as "Final R ion that pose a thing the operator of	ctive act Report" d reat to gr	ions for rel oes not rel ound wate bility for c	eases which ieve the ope r, surface w compliance	may e rator o ater, hu with an	ndanger f liability ıman health
							OIL CON	SERV	ATION	DIVISION	NC	
Signatura: I	ACOB MELA	ANCON										
) 		Approved by	Environmental S	Specialis	t:			
Printed Nan	ne: JACOB N	IELANCON					and the second s	Т				
Title: SALF	ES REP/ PUSI	HER				Approval Da	ite:		Expiration	Date:		
E-mail Add	ress: MELAN	ICON.JACO	В@ҮНА	OO.COM		Conditions of	f Approval:			Attached	1 🗆	
Date: (05/08/18			Phone: 575-399-2	2727							

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

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

Name of Company Ra 2 0.1 + Gas Conta Address 246 3 Ave 0 Canice Must-Facility Name Vs St . #1 Facility Name Vs Section Township Range Feet from the North/South North/	phone No. \$75, 395, 2757 lity Type API No. 30 - 025 - 38/ FRELEASE h Line Feet from the East/West Line County Lea County tude NAD83
Name of Company Raz O.1 + Gas Conta Address 2463 Ave O Canice May Telep Facility Name Vo St. #1 Facility Name Vo St. #1 Facility Name Vo St. #1 Facility Name Vo Source of Release Tanks Was Immediate Notice Given? Nature Or Not Required By Whom? Tacob Museau Da Was a Watercourse Reached? Yes No Da Telep Facility Name Telep Facility Name Telep Facility Name Vo Canice May Facility No Telep Telep Facility Name Telep Facility Name Telep Facility Name Vo Canice May Facility No Da Not Required Nature Or Not Required Pacility Name Vo Source of Release Tanks Da Not Required By Whom? Tacob Museau Da Not Required	phone No. \$75, 399 2757 lity Type API No. 30 - 025 - 38/ FRELEASE h Line Feet from the East/West Line County tude
Address 2463 Ave C Canife Mun- Facility Name Vo St. F. Facility Name Surface Owner State Mineral Owner LOCATION OF LOCATION	API No. 30 - 025 - 38/ FRELEASE h Line Feet from the East/West Line County tude NAD83 RELEASE olume of Release 250 Volume Recovered 60 ate and Hour of Occurrence 5.6 Date and Hour of Discovery 3.7 YES, To Whom?
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By Whom? Jacob Mlaco Da Was a Watercourse Reached? Yes No	ate and Hour YES, Volume Impacting the Watercourse.
Was a Watercourse Reached? ☐ Yes ☑ No ☐ If Y	YES, Volume Impacting the Watercourse.
Was a Watercourse Reached? Yes No	
	710
If a Watercourse was Impacted, Describe Fully.*	
Describe Cause of Problem and Remedial Action Taken.* 3" Connection on Storage Take I and I reation Cast Side of Pad and Describe Area Affected and Classical Taken.*	Broke causic water to spill d'into pasture area
Pestre area East of pad used back back pich up fluid will had	aff and Test area.
I hereby certify that the information given above is true and complete to the be regulations all operators are required to report and/or file certain release notific public health or the environment. The acceptance of a C-141 report by the NM should their operations have failed to adequately investigate and remediate con or the environment. In addition, NMOCD acceptance of a C-141 report does neederal, state or local laws and/or regulations.	cations and perform corrective actions for releases which may endanger MOCD marked as "Final Report" does not relieve the operator of liability ntamination that pose a threat to ground water, surface water, human healt
	OIL CONSERVATION DIVISION
Signature: probeth la	*
Printed Name: Jacob Modarcan Appr	roved by Environmental Specialist:
Title: Paster Appr	roval Date: Expiration Date:
E-mail Address: mulan can jacob Bythor Cond Date: 5.8. Zer Phone: 575-399-2727 Attach Additional Sheets If Necessary	ditions of Approval: Attached

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Contact Name BEN THOMPSON	OGRID				
	Contact Telephone 575-399-2457				
Contact email RAZOILANDGAS@GMAIL.COM	Incident # (assigned by OCD)				
Contact mailing address PO BOX 1180					
7					
Location of I	Release Source				
atitude	Longitude				
(NAD 83 in decimal of	degrees to 5 decimal places)				
Site Name YO ST#1	Site Type SWD				
Date Release Discovered 05/06/18	API# (if applicable) 30-025-31862				
Unit Letter Section Township Range	County				
D 15 215 3SE	LEA				
Surface Owner: X State Federal Tribal Private (Name	· ·				
	olume of Release				
Material(s) Released (Select all that annly and attach calcul	lations or specific justification for the volumes provided below)				
Crude Oil Volume Released (bbls)	Volume Recovered (bbls)				
X Produced Water Volume Released (bbls) 250	Volume Recovered (bbls) 60				
	de in the Yes No				
Is the concentration of dissolved chloric produced water >10,000 mg/l?					
Is the concentration of dissolved chloric produced water >10,000 mg/l? Condensate Volume Released (bbls)	Volume Recovered (bbls)				
produced water >10,000 mg/l?	Volume Recovered (bbls) Volume Recovered (Mcf)				
produced water >10,000 mg/l? Condensate Volume Released (bbls)	Volume Recovered (Mcf)				
produced water >10,000 mg/l? Condensate Volume Released (bbls) Natural Gas Volume Released (Mcf)	Volume Recovered (Mcf)				
produced water >10,000 mg/l? Condensate Volume Released (bbls) Natural Gas Volume Released (Mcf) Other (describe) Volume/Weight Released (provide unit	Volume Recovered (Mcf)				
produced water >10,000 mg/l? Condensate Volume Released (bbls) Natural Gas Volume Released (Mcf) Other (describe) Volume/Weight Released (provide unit	Volume Recovered (Mcf) ts) Volume/Weight Recovered (provide units) NG WATER TO SPILL ONTO LOCATION, EAST SIDE OF PAD AND				
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State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respective	onsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	250 BARRELS WERE RELEASED FROM EAST OF PAD	M SWD HOLDING TANKS AND FLOWED INTO PASTURE AREA
Yes No		
If YES, was immediate n	notice given to the OCD? By whom? To v	whom? When and by what means (phone, email, etc)?
YES NOTICE WAS GI	VEN BY PHONE TO RANCHER AND OCC	D, BY JACOB MELANCON ON MAY 06,2018.
	Initial I	Response
The responsible	party must undertake the following actions immedia	tely unless they could create a safety hazard that would result in injury
The source of the rel	ease has been stopped.	
The impacted area h	as been secured to protect human health an	nd the environment.
Released materials h	have been contained via the use of berms of	r dikes, absorbent pads, or other containment devices.
All free liquids and i	recoverable materials have been removed a	and managed appropriately.
If all the actions describe	ed above have not been undertaken, explain	n why:
has begun, please attach	a narrative of actions to date. If remedia	e remediation immediately after discovery of a release. If remediation al efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investi	e required to report and/or file certain release no nment. The acceptance of a C-141 report by the gate and remediate contamination that pose a the	ne best of my knowledge and understand that pursuant to OCD rules and otifications and perform corrective actions for releases which may endanger a OCD does not relieve the operator of liability should their operations have nreat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
Printed Name: JACO	OB MELANCON	Title: SALES REP/PUSHER
Signature:		Date: _07/16/19
()	- Quebes som	
email: melancon.jaoch	owyanoo.com	Telephone:575-399-2727
	owyanoo.com	Telephone: <u>575-399-2727</u>
OCD Only	owyanoo.com	Telephone:

State of New Mexico Oil Conservation Division

Incident ID	
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?	(ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes 🖪 No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ 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)?	☐ Yes ☒ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🗷 No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🍱 No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No			
Did the release impact areas not on an exploration, development, production, or storage site? Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soluntamination 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 wel 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	ls.			

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

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release notion public health or the environment. The acceptance of a C-141 report by the Called to adequately investigate and remediate contamination that pose a three addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	incations and perform corrective actions for releases which may endanger of the control of the c
Printed Name: JACOB MELACON	Title:SALES REP/PUSHER
Signature:	Date:07/16/19
email: melancon.jacob@yahoo.com	Telephone: 575-399-2727
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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: JACOB MELACON Title: SALES REP/PUSHER
Signature: Date:07/16/19
email: melancon.jacob@yahoo.com Telephone: 575-399-2727
OCD Only
Received by: Date:
Approved
Signature: Date:

State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

X A scaled site and sampling diagram as described in	19.15.29.11 NMAC
Photographs of the remediated site prior to backfill must be notified 2 days prior to liner inspection)	or photos of the liner integrity if applicable (Note: appropriate OCD District office
■ Laboratory analyses of final sampling (Note: approp	priate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or may endanger public health or the environment. The accesshould their operations have failed to adequately investig human health or the environment. In addition, OCD accessompliance with any other federal, state, or local laws and restore, reclaim, and re-vegetate the impacted surface are accordance with 19.15.29.13 NMAC including notification	file certain release notifications and perform corrective actions for releases which eptance of a C-141 report by the OCD does not relieve the operator of liability ate and remediate contamination that pose a threat to groundwater, surface water, eptance of a C-141 report does not relieve the operator of responsibility for d/or regulations. The responsible party acknowledges they must substantially a to the conditions that existed prior to the release or their final land use in on to the OCD when reclamation and re-vegetation are complete.
Printed Name:	Title: SALES REP/PUSHER
Signature:	Title:SALES REP/PUSHER
email:melancon.jacob@yahoo.com	Telephone: <u>575-399-2727</u>
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the respon remediate contamination that poses a threat to groundwate party of compliance with any other federal, state, or local	sible party of liability should their operations have failed to adequately investigate and er, surface water, human health, or the environment nor does not relieve the responsible laws and/or regulations.
Closure Approved by:	Date:
Printed Name	Title:



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

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

closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Sub-

QQQ

Depth Depth Water

Well Water Column

POD Number

Code basin County 64 16 4 Sec Tws Rng

CP 00587

1 1 14 21S 35E

655531 3595337*

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 1

Basin/County Search:

County: Lea

PLSS Search:

Section(s): 9-16

Township: 21S

Range: 35E

EXHIBIT "E"

*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.

FIELD MEASUREMENT/OBSERVATION LOG

SAMPLE ID SAMPLE SAM	BMI SISATENE GIA	PID READING (PPM)		CHLORII	CHLORIDE ANALYSIS	S		
DEPTH (FT) COLLECTION TIME 3 M 4 M 9 M 9 M 9 M 9 M 9 M 9 M 9	PID ANALYSIS TIME	PID BEADING (PPM)			Titonian i		1	
	576,75				Tube	mg/Kg	· ·	SOIL DESCRIPTION
	1111		2 gms of soil	40 ml H2O	r x	20 = 1600	2	
	896		2 gms of soil	40 ml H2O	×	11		
7373 F F F F F F F F F F F F F F F F F F	1000		2 gms of soil	40 ml H2O	×	20 = 910		
	20		2 gms of soil	40 ml H2O	×	20 = 160	9	
REFERENCE OF THE PARTY OF THE P	160		2 gms of soil	40 ml H2O	×	20 = 740		
	112		2 gms of soil	40 ml H2O	×	20 = 160		
	ND		2 gms of soil	40 ml H2O	× /7	20 = 80		
	ND		2 gms of soil	40 ml H2O	×	20 = 80	2	
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	1900		2 gms of soil	40 m! H2O	120 x	20 = 4/100	<i>a</i> 1	
577 612 173	550		2 gms of soil	40 ml H2O	×	20 = 1600		
17.	714		2 gms of soil	40 ml H2O	У Р	20 = 1040		
	775		2 gms of soil	40 ml H2O	, p	20 = 24E		
			2 gms of soil	40 ml H2O	×	20 =		
			2 gms of soil	40 ml H2O	×	20 =		
			2 gms of soil	40 ml H2O	×	20 =		
			2 gms of soil	40 ml H2O	×	20		
			2 gms of soil	40 ml H2O	×	20 =		
			2 gms of soil	40 ml H2O	×	20 =		
			2 gms of soil	40 ml H2O	×	20 =	-	
	PID CALIBRATION	RATION						WEATHER
Time Fresh Air Span	Span Gas	Time	Fresh	Air	s	Span Gas	Time	Temp. Misc



SAMPLES 1-2-3-4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	BAZ of thas		BILLTO	9		ANALYSIS REQUEST	
Project Manager:			P.O.#: 1176				
Address: 🙏	Š		Company: haz 0.1	0.1 + 64			
-		Ĭ	Attn: X Sen Thomas	Thomason			
Phone #: < 75	59-2457 Fax#:	di	Address: 2403 AVC	que O			
Project #: /d/	Project Owner: Lag	Kong Son	City: Ewace W.M	7. W			
Project Name:	Raz Clean Up		State: N. M. Zip: 8823/	88231			
Project Location:	11, 54, #1		Phone #: <75-399-2457	99-2457			
Sampler Name:	PO		Fax #: 575 - 394-1048	84.01-46			
FOR LAB USE ONLY	-	MATRIX	PRESERV. SAN	SAMPLING			
Lab I.D.	Sample I.D.	INDWATER TEWATER GE	BASE:		PH PL		
884006H			OTHE ACID/I ICE / C OTHE	TE TIME	1: T		
	SP/6' a	×	2.6	0 10:06	1		
7	Q 2 3' G	×	2.6				
()4	SP3 3' A	×	7.6	0 11:32			
h		X	2.6	0 1100	(-		
			3				
PLEASE NOTE: Liability and	PLEASE NOTE: Uability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or for, shall be limited to the amount paid by the client for the	ising whether based in contract	or lort, shall be limited to the amou	uni paid by the client for the			
analyses, All claims including	analyses. All claims including those for regitgence and any other cause whatsoever shall be deamed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	aived unless made in writing and	received by Cardinal within 30 da	ys after completion of the ap	plicable		

Delivered By: (Circle One) Sample Condition CHECKED BY:	Time:	Religiquished By: Date: Received By: Melan con . Jacob		3-7-14 Fax Result: Tyes	emouished By: Date: , Received By: Phone Result: ☐ Yes ☐ No A	Highes 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.
		Jacob	-	es 🗆 No	es 🗆 No	
		Jacob & yando com		□ No Add'l Fax #:	Add'l Phone #:	



Sample 1-2-3-4-BG

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: /C/	the Oil And CAS	5.4.0	BILL TO	ANALYSIS REQUEST	
Project Manager:	sen Thompson	P.	P.O. #:		
Address: $\mathcal{P}.\mathcal{D}$		C	Company: KAZ 8,140	LAS .	
City: Empice	State: NM Zip: 8823		Attn: Ben		9
Phone #: 575-39	4-1046 Fax #: 575-394	1-1048 A	Address: P.O Jay	CSI.	*********
Project #: 16 SX	176 4/ Project Owner: Bes	Mys C	City: Emrice		
Project Name:	STATE #1500 Release		State: WMZip: 8823		
Project Location:	1857 Side PASSARC	P	Phone #: 575-399-2457	677	-
Sampler Name:		F	Fax #: 575-394-1048	340	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING		
Lab I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER: DATE	BTEX	
SP/	1, 1, 0	<	6-146-9	10:00	
205	0 4	errang,		0:10	
SP	6041		11	0:20	1.63
3	10,4,		10	10:30	
	+	1	1	0:40	
PLEASE NOTE: Liability and Damages.	PLEASE NOTE: Liability and Damages. Cardinal'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 the client for the	ther based in contract or t	tort, shall be limited to the amount paid by th	client for the	
PLEASE NOTE: Liability and Damages.	ardinal's liability and client's exclusive remedy for any claim arising wi	other based in contract or t	tort, shall be limited to the amount paid by the	client for the	

Relinquished By: Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Date: 13:50 Date: 5.36 Time: しっな Received By: Received By: Sample Condition
Cool Intact
Pres Pres
No No upon any of the above stated reasons or otherwise.

Phone Result:

Fax Result:

REMARKS: CHECKED BY: (Initials) KAZOILANDGAS @ GMAIL. COM Es Thompson ☐ Yes ☐ No Add'I Phone #:
☐ Yes ☐ No Add'I Fax #:

uptions, loss of use, or loss of profits incurred by client, its subsidiaries



8/27/2019

BILL TO

RAZ OIL & GAS BEN THOMPSON P.O. BOX 1180 EUNICE, NM 88231 INVOICE NO.: H902955

LAB NUMBER:

H902955

TERMS:

DUE UPON RECEIPT

DESCRIPTION:

YOST. #1

P.O. NO.:

NONE GIVEN

NO. SAMPLES:

2

LOG IN DATE:

8/27/2019

QUANTITY	DESCRIPTION	PER SAMPLE	TOTAL
2	CHLORIDES IN SOIL	25.00	50.00

SUBTOTAL:

\$50.00

SALES TAX: (6.8125%)

\$3.41

PLEASE PAY THIS AMOUNT:

\$53.41

If you would like to pay with a credit card or have any questions please call or email Jodi. jodi.henson@cardinallabsnm.com

THANK YOU FOR YOUR BUSINESS!



SAMPLE 1-61

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RAZ OIL & GAS BEN THOMPSON P. O. BOX 1180 **EUNICE NM, 88231**

Fax To:

NONE GIVEN

Received:

02/07/2019

Reported:

02/13/2019

Project Name:

RAZ CLEAN UP

Project Number:

101

Project Location:

YO STATE #1

Sampling Date:

02/06/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 6' (H900488-01)

BTEX 8021B	mg/kg		Analyzed By: ms		#				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	<0.050	0.050	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTEX	<0.300	0.300	02/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL

99.6%

73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC							
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		144	16.0	02/12/2019	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS							
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1	<10.0	10.0	02/09/2019	ND	190	94.9	200	3.86	
DRO >C10-C28*		<10.0	10.0	02/09/2019	ND	198	99.1	200	5.81	
EXT DRO >C28-C36		<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane

78.1 %

41-142

Surrogate: 1-Chlorooctadecane

81.8 %

37.6-147

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any other cause whatsoever shall be deemed waived unless 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 profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & treene

Celey D. Keene, Lab Director/Quality Manager

SAMPLE 2 - 31



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RAZ OIL & GAS BEN THOMPSON P. O. BOX 1180 EUNICE NM, 88231 Fax To: NONE GIVEN

Received:

02/07/2019

Reported:

02/13/2019

Project Name:

RAZ CLEAN UP

Project Number:

101

Project Location:

YO STATE #1

Sampling Date:

02/06/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 2 3' (H900488-02)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	<0.050	0.050	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 73.3-12	9			1			
Chloride, SM4500CI-B	CI-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/12/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	190	94.9	200	3.86	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	198	99.1	200	5.81	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	75.3	% 41-142	2						
Surrogate: 1-Chlorooctadecane	79.4	% 37.6-14	.7						

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Celeg D. Keene

Sample 3 -31



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RAZ OIL & GAS BEN THOMPSON P. O. BOX 1180 **EUNICE NM, 88231** Fax To: NONE GIVEN

Received:

02/07/2019

Reported:

02/13/2019

Project Name:

RAZ CLEAN UP

Project Number:

Project Location:

YO STATE #1

Sampling Date:

02/06/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 3 3' (H900488-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	<0.050	0.050	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/12/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyzed By: MS			5.5%	400	3.77	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	190	94.9	200	3.86	
DRO >C10-C28* -	<10.0	10.0	02/09/2019	ND	198	99.1	200	5.81	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	74.9	% 41-142	? .						
Surrogate: 1-Chlorooctadecane	77.5	% 37.6-14	17						

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Celey & Keine

Celey D. Keene, Lab Director/Quality Manager



Sample 4-6'

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RAZ OIL & GAS **BEN THOMPSON** P. O. BOX 1180 **EUNICE NM, 88231** Fax To: NONE GIVEN

Received:

02/07/2019

Reported:

02/13/2019

Project Name:

RAZ CLEAN UP

Project Number:

Project Location:

YO STATE #1

Sampling Date:

02/06/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 4 6' (H900488-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	<0.050	0.050	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	kg .	Analyzed By: AC			3			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/12/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS					3.77	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	190	94.9	200	3.86	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	198	99.1	200	5.81	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	76.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	77.6	% 37.6-14	7						

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Celley D. Kreene

SFYMP18 1-41



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RAZ OIL & GAS
BEN THOMPSON
P. O. BOX 1180
EUNICE NM, 88231
Fax To: NONE GIVEN

Received:

06/24/2019

Reported:

06/27/2019

Project Name:

YO STATE #1 SWD RELEASE

Project Number:

YO STATE #1

Project Location:

EAST SIDE PASTURE

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

06/24/2019

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 @ 4' (H902157-01)

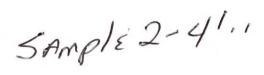
BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	06/25/2019	ND	1.87	93.3	2.00	12.4	
Toluene*	< 0.050	0.050	06/25/2019	ND	1.86	93.2	2.00	4.22	
Ethylbenzene*	<0.050	0.050	06/25/2019	ND	1.80	90.1	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/25/2019	ND	5.47	91.2	6.00	3.92	
Total BTEX	<0.300	0.300	06/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS				400		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	193	96.7	200	3.59	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	194	97.2	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	89.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	98.2	% 37.6-14	7						

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RAZ OIL & GAS BEN THOMPSON P. O. BOX 1180 EUNICE NM, 88231 Fax To: NONE GIVEN

Received:

06/24/2019

Reported:

06/27/2019

Project Name: Project Number: YO STATE #1 SWD RELEASE

Project Location:

YO STATE #1 EAST SIDE PASTURE Sampling Date:

06/24/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 2 @ 4' (H902157-02)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2019	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	06/25/2019	ND	1.86	93.2	2.00	4.22	
Ethylbenzene*	<0.050	0.050	06/25/2019	ND	1.80	90.1	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/25/2019	ND	5.47	91.2	6.00	3.92	
Total BTEX	<0.300	0.300	06/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS				400	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	193	96.7	200	3.59	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	194	97.2	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	88.4	% 41-142							
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

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SAMPLE 3 -41

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RAZ OIL & GAS BEN THOMPSON P. O. BOX 1180 EUNICE NM, 88231 Fax To: NONE GIVEN

Received:

06/24/2019

Reported:

06/27/2019

Project Name: Project Number: YO STATE #1 SWD RELEASE

Project Location:

YO STATE #1 EAST SIDE PASTURE Sampling Date:

06/24/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 3 @ 4' (H902157-03)

BTEX 8021B	mg/l	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2019	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	06/25/2019	ND	1.86	93.2	2.00	4.22	
Ethylbenzene*	<0.050	0.050	06/25/2019	ND	1.80	90.1	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/25/2019	ND	5.47	91.2	6.00	3.92	
Total BTEX	<0.300	0.300	06/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS			7.7.W	400	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	193	96.7	200	3.59	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	194	97.2	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	90.3 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.5 9	% 37.6-14	7						

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SAMPLE 4-41

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RAZ OIL & GAS BEN THOMPSON P. O. BOX 1180 EUNICE NM, 88231 Fax To: NONE GIVEN

Received:

06/24/2019

Reported:

06/27/2019

Project Name:

YO STATE #1 SWD RELEASE

Project Number:

YO STATE #1

Project Location:

EAST SIDE PASTURE

Sampling Date:

06/24/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 4 @ 4' (H902157-04)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	06/25/2019	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	06/25/2019	ND	1.86	93.2	2.00	4.22	
Ethylbenzene*	< 0.050	0.050	06/25/2019	ND	1.80	90.1	2.00	1.76	
Total Xylenes*	< 0.150	0.150	06/25/2019	ND	5.47	91.2	6.00	3.92	
Total BTEX	<0.300	0.300	06/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	193	96.7	200	3.59	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	194	97.2	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	86.3	% 41-142							
Surrogate: 1-Chlorooctadecane	93.75	% 37.6-14	7						

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Background - 41



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Analytical Results For:

RAZ OIL & GAS BEN THOMPSON P. O. BOX 1180 **EUNICE NM, 88231** NONE GIVEN Fax To:

Received:

06/24/2019

Reported:

06/27/2019

Project Name:

YO STATE #1 SWD RELEASE

Project Number: Project Location: YO STATE #1

EAST SIDE PASTURE

Sampling Date:

Sampling Type:

06/24/2019

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: BG @ 4' (H902157-05)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2019	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	06/25/2019	ND	1.86	93.2	2.00	4.22	
Ethylbenzene*	<0.050	0.050	06/25/2019	ND	1.80	90.1	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/25/2019	ND	5.47	91.2	6.00	3.92	
Total BTEX	<0.300	0.300	06/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	193	96.7	200	3.59	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	194	97.2	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	76.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	81.3	% 37.6-14	7						

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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アスト	BO # DIEE IC	ANALYSIS REQUEST
103	Company: RAZ Oil about	
Dity: Eunice State: N. M. Zip:	C8231	
Phone #: 575 -385 -2457 Fax #: 575 7-49-	1048 Address:	
Project #: 1000 Project Owner: 8	Trapson City: Enice NM.	
Project Name: Yo St. #/	State: NM Z	
Project Location: Vist. #/	Phone #: 575-399-2157	
Sampler Name: Taush Macan	150	
FOR LAB USE ONLY	MATRIX PRESERV. SAMPL	
NOME	RS TER	
Lab I.D. Sample I.D.	CONTAINE ROUNDWA ASTEWAT DIL IL LUDGE THER: CID/BASE: E / COOL THER:	
1 55 4.	# V X S C S C	
EASE NOTE: Liability and Damages. Carcinal's liability and client's exclusive temocy for any di alyses. All claims including those for negligence and any other cause whatsoews shall be deen	LEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive femedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the naviers. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by cardinal within 3.0 days, after completion of the anotice be.	
fisites or successors arising out of or related to the performance of services hereunder by Cardina Chineses or successors arising out of or related to the performance of services hereunder by Cardina Chineses for the Cardina	Titates or successors arising out of or related to the performance of services hereunder by a decidency whout initiation, because of whether such claim is based upon any of the above stated reagons or otherwise. Total or successors arising out of or related to the performance of services hereunder by addition, regardless of whether such claim is based upon any of the above stated reagons or otherwise.	
Ime: 1-19	All Results are en	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
effinguished By: Date: Final	Received By:	mad remest
Delivered By: (Circle One) Observed Temp. °C	Sample Condition CHECKED BY:	con: Jacob &
her	Cool Intact (Initials) Thermome	Rush Co
PORM-006 R 3.0	No No No Correction Factor + 0.4 °C	



Analytical Results For:

RAZ OIL & GAS **BEN THOMPSON** P. O. BOX 1180 **EUNICE NM, 88231** NONE GIVEN Fax To:

Received:

10/01/2019

Reported:

10/02/2019

Project Name: Project Number: YO STATE #1 1000

Project Location:

NONE GIVEN

Sampling Date:

10/01/2019

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: S 5 4' (H903351-01)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	10/02/2019	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

SANDE-6-41



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RAZ OIL & GAS BEN THOMPSON P. O. BOX 1180 EUNICE NM, 88231 Fax To: NONE GIVEN

Received:

09/10/2019

Reported: Project Name: 09/11/2019 YO STATE #1

Project Number: Project Location: NONE GIVEN

.

Sampling Date:

09/10/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: YO STATE SP 6 (H903122-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/11/2019	ND	432	108	400	0.00	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(010)	20 1010 1101 (010) 000 - 110			ממא ואמה	TOT
Company Name: RRZ	2 07 raas	-	BILL TO	ANALYSIS REQUEST	ES-
Project Manager: &	Ben Thompson		P.O. #:		
Address:		0	Company: RAZ OT		
city:	State: NM Zip:	887331	Attn: Ben		
Phone #: 575-3992457	192457 Fax #:		Address: End		
Project #: / 00/	Project Owner:	Ben Hornipion	City: Eller		
ame:	Wist Al	,	State: NMZip: 8231		
Project Location:	10st. F1		Phone #: < 75 - 389 - 2/8	(22)	
Sampler Name:	touch mulaner		Fax #:		
FOR LAB USE ONLY	P	MATRIX	PRESERV. SAMPLING		
Lab I.D.	Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE		AC CC	
	SPS 2.51 A	*************	8.26 10:55	1 25	
2	506 25' 6	<	8.26 11:20	8	
PLEASE NOTE: Liability and Damages	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lon, shall be limited to the amount paid by the client for the	Jaim arising whether based in contract	or lon, shall be limited to the amount paid by the	Elect for the	

analyses. All claims including those for negligenine and any other cause whatcover shall be deemed waved unless made in window or and stand to mixed to the amount paid by the client for the service. In no event shall Cardinal the fashe for incidental or consequential diamages, including without limitation, business interruptions, bass of use, or bass of profits incurred by client, its subsidiations affigures 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 stood reasons or otherwise.

Relinquished By:

Date: 277

Received By:

The A British and	Dato.	RECEIVED BY		Frone Kesuit: Lies	Auditioner.	
Kelindulshed by.	Date: 827	1000000		Fax Result: Yes	□ No Add'l Fax #:	
mil	Time: 3.18	Tomara d	What sk	REMARKS:	2	in cons
Relinquished By:	Date:	Received By:	(me a con.	Jano 6	Jacob @ Jens
	Time:					
Delivered By: (Circle One)	2.90	#97 Sample Condition	CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:	Possentiel	CA CONS CONS	で			



