Seogresources

# **EOG Resources**Site Investigation Report

## RHNU 606 Water Injection API#30025359070000 Facility Produced Water Spill

Lea County, New Mexico

B& H Environmental Services

Maintenance and Construction 2858 Steven Road Odessa, Texas 79764

#32-550-8210 FOGI - 7377 Incident - n PAC 0605 438714 application - pPAC0605439009

#### STATE ENGINEER OFFICE **WELL RECORD**

9/15/93 Revised June 1972

#### Section 1. GENERAL INFORMATION

Cimat as	r Post Office Ac State Midl	ddraen PaO	Box 22	67		es Own				
Well was drille	d under Permit	No	C-2336		_ and is locat	ed in the:				
a	ME NE	NW 14_	NW % of Se	ection 13	Township	25-S R	ange33	<u>-Е.</u> N.М.Р.М		
b. Tract	No	of Map No	·	of the						
	loivision, recorde						·	· · · · · · · · · · · · · · · · · · ·		
	•				•	te System		Zone i		
the _	<del></del>				<del></del>			Grant		
						License No.				
						rotary				
						ft. Total dep				
Completed we	il is 🖰 s	hallow [	artesian.		Depth to wat	ter upon completio	on of well	185 (i		
Denth	in Feet	Sec Thickness		CIPAL WATE	R-BEARING	STRATA	Retim	ated Yield		
From	То	in Feet	·	Description of	Water-Bearing	Formation		per minute)		
295	324	29		sand and	gravel	·	20	gpm		
470	484	14		sand rock	ζ		20	20 gpm		
598	614	16		sand rock	<u> </u>		20 gpm			
•		·						······································		
	.,		Section	n 3. RECORD	OF CASING		····			
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of St	roe Fro	Perforations  m To		
8 5/8	.250		1	81	81	none	no	one		
6 5/8	.219		1	636	636	none	294			
							446	484		
		Secti	ion 4. RECO	RD OF MUDDI	ING AND CE	MENTING	598	636		
Dep th From	in Feet To	Hole Diameter	Saci of M		bic Feet Cement	Meti	od of Placeme	ent		
							······································	<del>*************************************</del>		
<del></del>	<del> </del>	<u> </u>	1		· ·	<del></del>				
	<u> </u>	L	<u> </u>							
			Section	n-5. PLUGGIN	G-RECORD					
	actor					Depth is	Feet	Cubic Feet		
	od				No.	Тор	Bottom	of Cement		
Pate Well Plug Plugging appro	ged ved by:			· · · · · · · · · · · · · · · · · · ·	$-\frac{1}{2}$	-				
		State Eng	ineer Repres	entative	3					
					4_					
Date Received			FOR USE	OF STATE EN						
				Quad .		FWL	<del></del>	FSL		
File No				Use		_ Location No				

Section 6. LOG OF HOLE					
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered		
0	3	3	sand		
_3	12	9	clay		
_12	22	10	caleche		
22	38	16	sand and rock		
_38	73	35	loose sand (heaved bad)		
73	172	99	red and blue clay		
172	225	53	brown shale (stringers of sandrock)		
225	275	50	brown and red sandrock		
275	295	20	brown shale		
295	324	29	sand and gravel (water)		
324	465	141	blue and brown shale (hard)		
465	470	5	red clay		
470	. 484	14	red sandrock (water)		
484	<sub>.</sub> 5 <b>7</b> 0	86	red and blue shale		
570	571	1	rock		
571	598	27	red shale		
598	614	16	brown sandrock (water)		
61.4	642	28	red shale		
	·	i,			
	-				
	:				
	· · ·				

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned here by certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

EOG 6-18-02 Dirk Ellyson Raymie West of Gal Im past Delaware Basin road Sabout 6 in to www we drilled 06821900 gallon # 954968-3 Pumps 68gpm on 90psi Buld 260 ps; 79gpm on 40psi Pumped down to 63gpm in 10 Pulled SP16-20 20 hp grundfor out on. 533' of 23/8 8rd tubing Set new 855250-25hs grundfor at 611.6 overall-Wat 186'-Fill to 617' Set nitrogen air line at 586' Well pumps to 55 gpm Their master meter #2972 486 od 1700 gals Master #29 06,825,500 gal A400 galo

Dirk said well gauged 46.6 gpm intanks in 24 hours

6-20



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

December 18, 2003

EOG Resources, Inc., (EOG) Attn: John Ellyson POB 2267 Midland, TX 79702

Re:

Notice of Non-Compliance - Fluids Release and Remediation Action Required

RHNU #603 - UL-?, Sec. 6-T25S-R34E

Dear Mr. Ellyson,

The New Mexico Oil Conservation Division (OCD) environmental personnel inspected the facility referenced above on December 10, 2003 and have determined that notification and remediation of the release are required.

Pursuant to OCD Rule 116 form C-141 ("Release Notification and Corrective Action") must be submitted to the OCD district office within 15 days of the release. "Corrective Action" must be submitted and approved by the Division or with an abatement plan submitted in accordance with Rule 19.

EOG must submit a remediation plan by January 15, 2004 that includes the following:

- 1. EOG shall submit a C-141 spill report for this spill and a copy of the <u>all C-141 spill reports from</u> the above referenced facility from 2001 to present.
- 2. EOG shall perform delineation and remediation of the horizontal and vertical extent of TPH, BTEX and chloride contamination in the soil.
- 3. EOG shall propose a soil remediation level demonstrating that any remaining chloride contamination will not cause an exceedance in the New Mexico Water Quality Control Commission (WQCC) groundwater standard of 250 mg/L.
- 4. EOG shall notify OCD, (preferably email) at least 48-hr before sampling and backfilling and include a statement of that notification in the closure proposal.

Enclosed is a checklist for OCD District 1 remediation plans. If you have any questions or need assistance please write or call: (505) 393-6161, x113 or email psheeeley@state.nm.us

Sincerely,

Paul Sheeley-Environmental Engineer

Cc:

Roger Anderson - Environmental Bureau Chief Chris Williams - District I Supervisor

Bill Olson – Hydrologist

Larry Johnson - Environmental Engr.



EOG Resources, Inc. 333 Clay Street, Suite 4200 Houston, Texas 77002

P.O. Box 4362 Houston, Texas 77210-4362

April 16, 2004

Mr. Paul Sheeley New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

Re:

Notice of Non-Compliance

Immediate Notification and Remediation Action Incomplete

RHNU #606, UL-O Sec. 6-T25S-R34E

Lea County, New Mexico

Dear Mr. Sheeley,

As we discussed by telephone on April 15, 2004, a copy of the information EOG submitted to the New Mexico Oil Conservation Division (NMOCD) on January 12, 2004 regarding the November 22, 2003 produced water spill at the Red Hills North Unit (RHNU) #606 water injection station is attached. This information includes EOG's initial response to the above reference Notice of Non-Compliance, a corrected Form C-141, e-mail notification of the January 13, 2004 sampling event, the NMOCD Notice of Non-Compliance letter dated December 18, 2003, Form C-141 Reject Notice, and the denied Form C-141.

As you noted, the RHNU #606 is located on Bureau of Land Management (BLM) land. In accordance with BLM spill notification requirements, EOG submitted a spill report to the BLM concurrent with notification to the NMOCD on December 2, 2003.

Please call me at 713-651-6446 if you have any questions or need additional information.

Sincerely,

Cee Cee Candler

Sr. Environmental Specialist

CC:

Dirk Ellyson – EOG Pitchfork Jerry Ball – EOG Midland

Attachments

File: Environmental / Midland Division / Red Hills North 606 Injection Station



Collee

EOG Resources, Inc. 333 Clay Street, Suite 4200 Houston, Texas 77002

P.O. Box 4362 Houston, Texas 77210-4362

January 12, 2004

Mr. Paul Sheeley New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

Re:

Notice of Non-Compliance

Immediate Notification and Remediation Action Incomplete

RHNU #606, UL-O Sec. 6-T25S-R34E

Lea County, New Mexico

Dear Mr. Sheeley,

In response to the New Mexico Oil Conservation Division (NMOCD) December 18, 2003 letter regarding the above referenced Notice of Non-Compliance, EOG Resources, Inc. (EOG) submits for review and approval the information requested by the NMOCD.

#### NMOCD Form C-141

On November 22, 2003, approximately 500 barrels (bbls) of produced water was release at the EOG RHNU 606 Water Injection Station. The spill was contained and the produced water was vacuumed up and returned to the produced water storage tanks on the location. Written spill notification was submitted to the NMOCD district office within 15 days as required by Rule 116. Immediate verbal notification was not provided because the volume of produced water not recovered was less than 25 bbls. Initial corrective action consisted of blending and raking the spill area to enhance natural onsite bioremediation. Some material from the spill area was used to reinforce a tank battery firewall. Contaminated material was not used for road spreading and no contaminated material was buried or removed for offsite disposal. Confirmatory sampling will delineate the vertical and horizontal scope of the spill area.

The attached Form C-141 has been revised to include information that was missing on the rejected Form C-141 submitted by EOG on December 2, 2003.

The NMOCD also requested copies of all Form C-141 spill reports for the EOG RHNU 606 Water Injection Facility since 2001. There are no additional Form C-141 spill reports for this facility and EOG is not aware of any reportable spills at this facility since 2001.

#### Depth to Groundwater and Analytical Documentation

Based on data on file with the New Mexico State Engineer Office, depth to groundwater is estimated to be approximately 190 feet. Site ranking criteria as described in NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993) is summarized below.

RHNU 606 11-22-03 Produced Water Spill New Mexico Oil Conservation Division January 12, 2004

Page 2 of 2

Ranking Criteria	Ranking Score
Depth to Groundwater > 100 feet	0
Well Head Protection Area	
>1000 feet from water source >200 feet from private	0
domestic water source Distance to Surface Water Body	
>1000 horizontal feet	0
Total Score:	0

Soil samples will be collected from the spill area by B&H Environmental and analyzed for total hydrocarbon and chloride content. B&H Environmental will conduct a field soil vapor headspace measurement and soil samples will be analyzed for BTEX if warranted based on the results of the field test.

#### Proposed Soil Remediation Level

EOG will determine if further remediation is necessary based on the results of the field and laboratory analytical results. EOG does not anticipate extensive additional remediation will be required due to the limited vertical extent of the contamination and lack of hydrocarbons in the produced water. Likewise, EOG will evaluate laboratory analytical data and the depth to groundwater to determine the potential for remaining chloride contamination to cause an exceedance in the New Mexico Water Quality Control Commission groundwater standard of 250 mg/L.

#### Sampling Notification

B&H Environmental will collect soil samples at the spill area the week of January 12, 2004. The NMOCD will be notified of the exact date and time via e-mail at least 48 hours prior to sample collection.

Please call me at 713-651-6446 if you have any questions or need additional information.

Sincerely,

Cee Cee Candler

Sr. Environmental Specialist

cc: Dirk Ellyson – EOG Pitchfork Jerry Ball – EOG Midland

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

\* Attach Additional Sheets If Necessary

#### State of New Mexico Energy Minerals and Natural Resources

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

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

Form C-141 Revised October 10, 2003

side of form

#### Pologge Notification and Corrective Action

•		•	Keie	ase Nounc	auon	and Co	rrective A	Cuon			
			٠	OF	PERA	TOR			al Report		Final Report
Name of Co	Name of Company EOG Resources, Inc.						n Wagner / Di				
Address P.				702		Telephone No. 432-686-3689 – 505-390-2900					
Facility Nan						Facility Type Water Injection Facility					
		····								400	
Surface Own	ner BLM			Mineral O	wner	BLM		Lease N	lo. NM 30	400	
LOCATION								· · · · · · · · · · · · · · · · · · ·			
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County		
0	6	25S	34E	530'	South		1650'	East	Lea		
	<u> </u>	L	atitude _	32° 09' 14" N	1	Longitude_	103° 30' 21"	W	<u> </u>		
				NAT	URE (	OF RELI	EASE				
Type of Relea	ase					Volume of	Release	Volume F	Recovered		
Produced wa						450-500 bb		450-500 1			
Source of Rel						i	our of Occurrenc		Hour of Disc	overy	
Discharge pu			tank			11/22/2003 If YES, To	Early AM	11/22/200	3 6AM		
Was Immedia	ite Notice (		Yes 🗌	No 🛛 Not Rec	quired	II YES, IO	wnom!				
By Whom?			<del></del>			Date and H	our				
Was a Watero	course Read	hed?				If YES, Volume Impacting the Watercourse.					
			Yes 🔀	No		None					
Not applicab	If a Watercourse was Impacted, Describe Fully.*  Not applicable.  Describe Cause of Problem and Remedial Action Taken.*  Steel high pressure coated swage broke in pump discharge header causing spill. Replaced swage with a coated high pressure nipple and installed										
high-pressur	e hose to e	liminate vibr	ation. Ins	talled actuator co				water when pum			
Water contai bioremediati spreading an	Describe Area Affected and Cleanup Action Taken.*  Water contained. Vacuumed up and pumped into produced water tanks on location. Spill area blended and raked to enhance natural onsite bioremediation. Some material from the spill area was used to reinforce the tank battery firewall. Contaminated material was not used for road spreading and no contaminated material was buried or removed for offsite disposal. Confirmatory sampling scheduled for 1/13/04 will delineate the vertical extent of the spill.										
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.											
Signature:	Cell	relan	dler				OIL CONS	<u>SERVATION</u>	<u>DIVISIO</u>	<u>N</u>	
Printed Name	: Cee Cee	Candler			A	pproved by l	District Superviso	or:		· · ·	
Title: Senior	Environm	ental Special	ist		A	pproval Date	oproval Date: Expiration Date:				
E-mail Addre	ss: ccandle	er@eogreeso	urces.com	·	c	Conditions of Approval:					
Date: Janua	m 12 2004	DL.	one: 712	CE1 CAAC	1						

#### 116.A. NOTIFICATION

- (1) The Division shall be notified of any unauthorized release occurring during the drilling, producing, storing, disposing, injecting, transporting, servicing or processing of crude oil, natural gases, produced water, condensate or oil field waste including Regulated NORM, or other oil field related chemicals, contaminants or mixture thereof, in the State of New Mexico in accordance with the requirements of this Rule. [1-1-50...2-1-96; A, 3-15-97]
- (2) The Division shall be notified in accordance with this Rule with respect to any release from any facility of oil or other water contaminant, in such quantity as may with reasonable probability be detrimental to water or cause an exceedance of the standards in 19 NMAC 15.A.19. B(1), B(2) or B(3). [3-15-97]
- 116.B. REPORTING REQUIREMENTS: Notification of the above releases shall be made by the person operating or controlling either the release or the location of the release in accordance with the following requirements: [5-22-73...2-1-96; A, 3-15-97]
  - (1) A Major Release shall be reported by giving both immediate verbal notice and timely written notice pursuant to Paragraphs C(1) and C(2) of this Rule. A Major Release is:
    - (a) an unauthorized release of a volume, excluding natural gases, in excess of 25 barrels;
    - (b) an unauthorized release of any volume which:
      - (i) results in a fire;
      - (ii) will reach a water course;
      - (iii) may with reasonable probability endanger public health; or
      - (iv) results in substantial damage to property or the environment;
    - (c) an unauthorized release of natural gases in excess of 500 mcf; or
    - (d) a release of any volume which may with reasonable probability be detrimental to water or cause an exceedance of the standards in 19 NMAC 15.A.19. B(1), B(2) or B(3). [3/15/97]
- (2) A Minor Release shall be reported by giving timely written notice pursuant to Paragraph C(2) of this Rule. A Minor Release is an unauthorized release of a volume, greater than 5 barrels but not more than 25 barrels; or greater than 50 mcf but less than 500 mcf of natural gases. [3-15-97]

#### 116.C. CONTENTS OF NOTIFICATION

- (1) Immediate verbal notification required pursuant to Paragraph B shall be reported within twenty-four (24) hours of discovery to the Division District Office for the area within which the release takes place. In addition, immediate verbal notification pursuant to Subparagraph B.(1).(d). shall be reported to the Division's Environmental Bureau Chief. This notification shall provide the information required on Division Form C-141. [5-22-73 . 2-1-96; A, 3-15-97]
- (2) Timely written notification is required to be reported pursuant to Paragraph B within fifteen (15) days to the Division District Office for the area within which the release takes place by completing and filing Division Form C-141. In addition, timely written notification required pursuant to Subparagraph B.(1).(d). shall also be reported to the Division's Environmental Bureau Chief within fifteen (15) days after the release is discovered. The written notification shall verify the prior verbal notification and provide any appropriate additions or corrections to the information contained in the prior verbal notification.

  [5-22-73...2-1-96; A, 3-15-97]
- 116.D. CORRECTIVE ACTION: The responsible person must complete Division approved corrective action for releases which endanger public health or the environment. Releases will be addressed in accordance with a remediation plan submitted to and approved by the Division or with an abatement plan submitted in accordance with Rule 19 (19 NMAC 15.A. 19). [3-15-97]



#### "Sheeley, Paul" <PSheeley@state.nm.u

Subject: RE: Notification of Scheduled Sample Collection - EOG RHNU 606

01/12/2004 08:51 AM

Thanks,

Please proceed with your plans. I do not know if we will atttend.

PS

----Original Message----

From: CeeCee\_Candler@eogresources.com [mailto:CeeCee\_Candler@eogresources.com] Sent: Friday, January 09, 2004 1:55 PM

To: psheeley@state.nm.us

Cc: Dirk\_Ellyson@eogresources.com

Subject: Notification of Scheduled Sample Collection - EOG RHNU 606

#### Paul:

EOG Resources plans to collect soil samples of the spill area at the EOG RHNU 606 Water Injection Station at approximately 10 AM on Tuesday, January 13, 2004. B&H Environmental will conduct field screening and develop a sample plan based on the results of the field screening.

Please let me know if you plan to be onsite during sample collection activities or if we need to re-schedule to accommodate your calendar. I can be reached by e-mail (ccandler@eogresources) or at 713-651-6446.

I cannot be present for sample collect next week but I will work with the EOG Pitchfork office and B&H Environmental to develop the sampling plan and remediation activities. A revised NMOCD Form C-141 and preliminary remediation plan will be forwarded by January 15, 2004 for your review and approval.

EOG New Mexico Contact:

Dirk Ellyson (505) 390-2900 dellyson@eogresource.com

B&H Environmental Contact:

Gary Gee (505) 631-8616 ggee@bhpipeline.com

Thanks,

ccandler@eogresources.com

(713) 651-6446 - Phone

(281) 633-1941 - Cell

(713) 651-6447 - Fax



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

December 18, 2003

EOG Resources, Inc., (EOG) Attn: John Ellyson POB 2267 Midland, TX 79702

Re:

Notice of Non-Compliance-Immediate Notification and Remediation Action Incomplete

RHNU #606, UL-O, Sec. 6-T25S-R34E

Dear Mr. Ellyson,

The New Mexico Oil Conservation Division (OCD) environmental personnel inspected the facility referenced above on December 10, 2003 and determined that the remediation of the site and notification to the OCD were not performed in compliance with Rule 116.

Pursuant to OCD Rule 116: A major spill requires <u>immediate</u> notification and form C-141 ("Release Notification and Corrective Action") must be submitted to the OCD district office within <u>15 days</u> of the release. "Corrective Action" must be submitted and approved by the Division.

The OCD requires EOG to submit a remediation plan by January 15, 2004 that includes the following:

- 1. EOG shall submit a <u>completed</u> C-141 spill report for this spill and a copy of the <u>all</u> C-141 spill reports from the above referenced facility from 2001 to present.
- 2. EOG shall demonstrate that the remediation of the site is complete by determining the depth to groundwater for the site ranking criteria and submitting the typical analytical documentation.
- 3. EOG shall propose a soil remediation level demonstrating that any remaining chloride contamination will not cause an exceedance in the New Mexico Water Quality Control Commission (WQCC) groundwater standard of 250 mg/L.
- 4. EOG shall notify OCD, (preferably email) at least 48-hr before sampling and backfilling and include a statement of that notification in the closure proposal.

For guidance in this matter see: <u>Guidelines for Remediation of Leaks, Spills and Releases</u>, August 13, 1993, on the OCD website. If you have any questions or need assistance please write or call (505) 393-6161, x113 or email psheeeley@state.nm.us

Sincerely 2

Paul Sheeley - Environmental Engineer

Cc: Roger Anderson/- Environmental Bureau Chief

Chris Williams | District I Supervisor

Bill Olson - Hydrologist

Larry Johnson - Environmental Eugr.



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

#### BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

TO: Company/Operator EOG RHWV-606	
By: NMOCD Rep. Paul Sirelley	
Date: 12-18-03	
REJECT NOTICE	
Please Note Your Attached C-141 Report(s) has been rejected because of the following reason(s):  Please make corrections and re-submit within 10 days unless otherwise allowed or marked for a longer time period.	
Wrong form: See proper form enclosed.	
Incorrect or inaccurate information: See comments below.	
"Initial" or "Final" box not marked.	
Missing Information: See comments below.	<u> </u>
Wrong Operator! Operators are responsible to submit C-141 for all leaks & spills on their leases, pipelines and/or properties under their control	
Improper Disposal of Oilfield Waste without NMOCD Approval: Road spreading without NMOCD approval. Landfarming without permit or NMOCD approval. Burying of Oilfield Waste without NMOCD Approval. Offsite disposal without NMOCD Approval. Building roads, berms dykes with contaminated soils without NMOCD Approval.	
Not Signed.	
NMOCD Cannot accept your C-141 as a "final" report at this time. Please do the following:  Submit a Site Corrective Action Plan for NMOCD approval within days.  Please describe in detail what Clean-up Action was taken and area affected. If none taken explain why.  Please Describe in detail what Remediation action will be taken. If none planned please explain why.  Please describe what Remediation action will be taken? If none planned please explain why.  Operator has indicated off-site disposal; please indicate where waste was disposed of.  Was vertical extent of contamination checked? If Yes, please provide information. If No please provide explanation.  Please provide vertical extent of contamination within 2 days. Please collect samples for one or more of the following: TPHX, BTEX Chloride Other Please provide a plot map of sample locations and depth sample was collected.	 
Comments:	
missing info: Type of release, source, Dates	
emai addues	_
Lat + Long	_
Please re-submit C-141 or information requested and include a copy of this reject notice.	

District I			
	reb Dr., Hobbs, N	IM 88240	
District II			
130) W. Gra	ath sureria bar	sia, NM 88210	The Party
District III	azos Road, Azad	~ - R !	1-1 <i>)</i>
1000 Rio Br	azos Road, Azo <b>d</b>	NAMES AND PARTY.	£ 2
District IV		79.50	
1220 S. St. F	rancis Dr., Santa	FC NM 87505	

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Form C-1 Revised March 17, 19

Submit 2 Copies to appropri District Office in accorda with Rule 116 on to side of fo

Release Notification and Corrective Action OPERATOR Initial Report		Mari o printe d'a mario			Sant	a Fe, NM 87505	) ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Name of Company BOG Resources, Inc.   Contact.   Stan Wagner/Dirk Ellyson			]	Releas	e Notificati	on and Corre	ective Actio	) <b>u</b>		
Name of Company BOG Resources, Inc.   Contact.   Stan Wagner/Dirk Ellyson	•				0	PERATOR	Γ	Initial Reco	ort 🔀 F	inal Rep
Address PO Box 2267, Midland, TX 79702  Facility Name RRNU 606  Facility Name RRNU 606  Surface Owner ULM  Mineral Owner BLM  LOCATION OF RELEASE  Unit Letter Section Township Range Post from the North South Line Foot from the East/West Line County 25S, 14H 5300.  NATURE OF RELEASE  Unit Letter Section Township Range Post from the North South Line Foot from the East/West Line County 25S, 14H 5300.  NATURE OF RELEASE  Volume of Release 405 500 BBLS Volume Recovered() 450-500 BBL Source of Release 405 500 BBLS Volume Recovered() 150-500 BBL Source of Release 405 500 BBLS Volume Recovered() 150-500 BBL Source of Release 405 500 BBLS Volume Recovered() 170-500 BB Work Introducts Notice Given?  Required  By Whom? I 1/22/03 Early AM  Fire Waterrouthse was impacted, Describe Fully.*  NA  Describe Cause of Problem and Remedial Action Taken.*  Stock high pressure costed swage broke in pump discharge header causing spill. Replace swage with a collection of the County 170-500 BBL Source of water which pumps go with a collection of the County 170-500 BBL Source of water which pumps go with a collection of the County 170-500 BBL Source of water which pumps go with a collection of the County 170-500 BBL Source of water which pumps go with a collection of the County 170-500 BBL Source of water which pumps go with a collection of the County 170-500 BBL Source of water which pumps go with a collection of the County 170-500 BBL Source of water which pumps go with a collection of the County 170-500 BBL Source of the County 170-500 BBL Source of water which pumps go with a collection of the county 170-500 BBL Source of water which pumps go with a collection of the county 170-500 BBL Source of water which pumps go with a collection of the county 170-500 BBL Source of water which pumps go with a collection of the county 170-500 BBL Source	Name of Co	mpany B	OG Resourc	es, Inc.		Contact   Star	Wagner/Dirk			
Surface Owner BLM   Mineral Owner BLM   Lease No.   NM 30400    LOCATION OF RELEASE    Unit Letter   Section   Township   Range   Feat from the   North/South Line   Feet from the   Eart/West Line   County    South   150°   Release   South   Lease   South   Lease   Lease   Lease   Lease   Lease    NATURE OF RELEASE   Volume of Release   405.00 BBLS   Volume Recovered   150.00 BBLS    Source of Release   Volume of Release   Lease   Leas		Address PO Bex 2267, Midland, TX 79702					L 432-686-368	39		
LOCATION OF RELEASE  Unit Letter Section: Townstep Range   Fost from the   South   1659   South   1659    NATURE OF RELEASE   Volume Recovered   450-500 BBLS   Volume Recovered   11/22/03 Barly AM   Early Required   11/22/03 Barly R						Facility Type[]	Water Injection	n Facility		
LOCATION OF RELEASE  Unit Letter Section: Townstep Range   Fost from the   South   1659   South   1659    NATURE OF RELEASE   Volume Recovered   450-500 BBLS   Volume Recovered   11/22/03 Barly AM   Early Required   11/22/03 Barly R	Surface Ow	ner BLM			Mineral Owne	T BLM		T asse No []	NM 30400	
Unit Letter   Section   Township   Range   Foot from the   North/South Line   Foot from the   East/West Line   County					······································	· · · · · · · · · · · · · · · · · · ·	~~	1 20000 11012	1111	
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Type of Release		Scaler.	i	34E						
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Source of Riclease  Was humodiate Notice Given?  Required  By Whom? II Yes   No   Not    Required   Not   Yes   No   Not    Required   Date and Hour of Obscovery   11/22    By Whom? II Yes   Date and Hour?    Was a Watercourse Reached?   Date and Hour?    Was a Watercourse Reached?   Problem and Remedial Action Taken.*  Steel high pressure coated awage broke in pump discharge header causing spill. Replace awage with a water which pumps goodwin.  Describe Cause of Problem and Remedial Action Taken.*  Steel high pressure coated awage broke in pump discharge header causing spill. Replace awage with a water which pumps goodwin.  Describe Area Affected and Cleanup Action Taken.*  Water was contained on location. Vacuumed up water and pumped into tank.  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NidOCD and requisitions all operators are required to report and/or file cortain release notifications and perform corrective actions for relaces which a configuration of the environment. The acceptance of a C-141 report by the NMOCD mark? "Given the operator of Hability should their operations have failed to adequately investigate and remediate contamination that pursuant was surface water, human health or the environment. In addition, NMOCD pursuance of a C-141 report by the NMOCD mark? "Geen to relieve the operator of responsion for compliance with any other faderal, state, or local laws moder regulations.  Signature:   Approved by District Supervisor:   Expiration Date:   Expiration Date:   Expiration Date:   Da	Type of Rela	3Sr:			MATON			Volume Rec	overed() 450	-500 BBI
Was immediate Notice Given?    Yes   No   Not					and the second s					
By Whom?  Was a Watercourse Reached?  If Yes No  If a Watercourse was Impacted, Describe Fully.*  No  If a Watercourse was Impacted, Describe Fully.*  Describe Cause of Problem and Remedial Action Taken.*  Steel high pressure coated swage broke in pump discharge header causing spill. Replace swage with a count high-pressure hose to eliminate vibration. Install agustor controlled valves to shad off source of water which pumps go within.  Describe Area Affected and Cleanup Action Taken.*  Water was contained on location. Vaccurated up water and pumped into tank.  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which readanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "final Report" does not relieve the operator of habitity should their operations have failed to adequately investigate and remediate contamination that pose a laftest for ground we surface water, human health or the environment. The acceptance of a C-141 report does not relieve the operator of respons for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Signature:  Describe Approval:  Approved by: District Supervisor:	Was Immedi	ate Notice (		- u				y AM		
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#### **BUREAU OF LAND MANAGEMENT** REPORT OF UNDESIRABLE EVENT (NTL-3A)

Operator: <u>EOG Resources, Inc.</u> Date/Time of Occurrence: 11/22/03 AM_
Field/Unit Name: RHNU 606 Date/Time BLM Notified:
Location: <u>Lea</u> , County, New Mexico; <u>1/4</u> <u>1/4</u> Sec: <u>6</u> , T. <u>25</u> S., R. <u>34</u> E. 530' FSL & 1650' FEL
Lease No. 30400 , Surface Ownership: X Federal Indian Fee State (Place an "X" to mark ownership.)
Type of Event: Oil Spill, Oil/Water Spill, Gas Venting, Toxic Fluid Spill, Saltwater Spill, Other Spill (Specify); Blowout, Fire, Injury, Fatality, Property Damage, Explosion: Spill-Mixture of fresh water and produced water.
Cause of Event: High pressure coated swage broke on pump discharge header.
10 minutes after leak was discovered Time Required To Control Event (hrs.)  Volumes Discharged or Consumed: 450-500 bbls contained on location
Volumes Recovered: 450-500 bbls.
Action Taken to Control Event/Resultant Damage/Clean-Up Procedures/Dates:  Vacuumed up water and pumped into tanks on 11/22/03. No damage. Replaced swage with coated high-pressure nipple and installed high-pressure hose to eliminate vibration. Installed acuator controlled valves to shut off source of water when pumps go down.  Cause/Extent of Personnel Injury:None
Governmental Agencies Notified (Federal/State/Local):
General Remarks:  Signature: Mu Fully Title: Senior Production Foreman Date: 12/2/03
FOR BLM USE ONLY

District/RA:	Event Classification (Class I, II, III):
	Wyoming SO: to WO:
Inspection Data:	Onsite Insp. Date Insp. Name Insp. Type Insp. Hrs Travel IIrs Office Hrs. Insp. No Activity Code (SV or FA): Remarks

WY 3109-10 (June 1993)



### NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor

Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

April 22, 2004

EOG Resources, Inc., (EOG) Attn: Cee Cee Candler, ccandler@eogresources.com 333 Clay St., Suite 4200 Houston, TX 7710-4362

Re:

**Site Investigation Approval** 

RHNU #606, UL-O, Sec. 6-T25S-R34E

Dear Ms. Candler,

The Spill Reports and Site Investigation referenced above and submitted to the New Mexico Oil Conservation Division (OCD) by B & H Environmental Services for EOG is hereby approved.

Please be advised that OCD approval of this plan does not relieve EOG of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve EOG of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please write or call: (505) 393-6161, ext. 113, or e-mail: <a href="mailto:psheeeley@state.nm.us">psheeeley@state.nm.us</a>

Sincerely,

Paul Sheeley-Environmental Engineer

Cc: Roger Anderson - Environmental Bureau Chief

Chris Williams - District I Supervisor William Olson - OCD Hydrologist Larry Johnson - Environmental Engineer



**EOG Resources, Inc.** 333 Clay Street, Suite 4200 Houston, Texas 77002

P.O. Box 4362 Houston, Texas 77210-4362

April 6, 2004

Mr. Paul Sheeley New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

Re:

Notice of Non-Compliance

Immediate Notification and Remediation Action Incomplete

RHNU #606, UL-O Sec. 6-T25S-R34E

Lea County, New Mexico

Dear Mr. Sheeley,

As indicated in our January 12, 2004 reply to the New Mexico Oil Conservation Division (NMOCD) December 18, 2003 letter regarding the above referenced Notice of Non-Compliance, EOG Resources, Inc. (EOG) collected surface soil samples at the spill area on January 13, 2004. Field screening of the surface soil samples indicated chloride levels above 10,000 parts per million (ppm). Since B&H Environmental was not able to penetrate the caliche pad with a hand auger, EOG scheduled additional coring with a small drill rig to collect samples on February 5, 2004. As required, copies of pre-sampling notification to the NMOCD are attached. EOG's proposed risk-based closure is based on the results of analytical testing on samples collected January 13, 2004 and February 5, 2004.

#### Spill Delineation and Analytical Documentation

The RHNU 606 Water Injection Station is surrounded by a containment berm, which effectively contained the 500-barrel produced water release on November 22, 2003; thus, the horizontal extent of the spill area is confined to the caliche production pad. Samples to determine the vertical extent of the spill were collected on a five-point grid – one in each corner and one in the center of the production pad. A location plat identifying sample locations is attached.

None of the samples collected had a hydrocarbon odor and there was no visible hydrocarbon contamination in any of the samples. NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* (August 13, 1993) allows the use of field soil vapor headspace analysis to determine the total volatile organic vapor concentrations in lieu of laboratory analysis for benzene and benzene/toluene/ethylbenzene/xylene (BTEX) levels. Field screening with a Photolonization Detector (PID) did not encounter measurable hydrocarbons and EOG elects to substitute the PID measurement, which is less than 100 ppm, for benzene and BTEX laboratory analysis.

Sample Point No. 1, located in the northeast quadrant of the spill area, is the sample closest to the spill source. The 3-foot sample at this sample point was analyzed for Total Petroleum Hydrocarbon (TPH) concentrations using EPA Method Modified 8015. Analytical results indicate non-detectable concentrations of TPH, confirming the lack of hydrocarbon contamination as a result of the November 22, 2003 spill.

RHNU 606 11-22-03 Produced Water Spill New Mexico Oil Conservation Division April 6, 2004

Page 2 of 4

Field screening conducted on January 13, 2004 and February 5, 2004 determined chloride concentrations in mg/L (ppm) using a silver nitrate titration with a potassium chromate indicator. Chloride levels at the surface were approximately 11,000 ppm. Chloride concentration decreased rapidly with depth to concentrations less than 1,000 ppm at a depth of 2 – 3 feet, except at Sample Point No. 4, where chloride levels remained above 1,000 ppm to a depth of 5 feet. The deepest samples at each sample point were submitted to the laboratory for verification chloride analysis using EPA Method SW 846 9253. Laboratory analytical results verify the accuracy of field screening data. A summary of the analytical results is attached.

#### Depth to Groundwater

Produced water is injected at the RHNU 606 injection well in order to maintain pressure in the reservoir and enhance oil production. When produced water volumes are insufficient to maintain pressure, EOG relies on nearby water source wells to supplement water volumes on an emergency basis. The attached well record for EOG's closest water source well in Sec. 13 T25S R33E indicates the first water encountered is at 185 ft. Usable water was not encountered until 295 ft, 470 ft, and 598 ft. EOG's water well is completed in the water zone at approximately 600 ft. A second water source well, located in Sec. 32 T24S R34E, is also completed in the water zone at approximately 600 ft. Well records are not available for this second water well, which was drilled by an EOG predecessor company. A review of data on file with the New Mexico State Engineer Office, supports this estimated depth to shallowest groundwater of approximately 185 - 190 feet.

Site ranking criteria as described in NMOCD Guidelines for Remediation of Leaks, Spills and Releases is summarized below.

Ranking Criteria	Ranking Score
Depth to Groundwater	
> 100 feet	0
Well Head Protection Area	
>1000 feet from water source	0
>200 feet from private domestic water source	0
Distance to Surface Water Body	
>1000 horizontal feet	0
Total Score:	0

#### Proposed Soil Remediation Level

Field PID screening for headspace vapors, laboratory analytical data and knowledge of the produced water chemical composition confirm there is no hydrocarbon contamination at the

RHNU 606 11-22-03 Produced Water Spill New Mexico Oil Conservation Division April 6, 2004

Page 3 of 4

RHNU 606 Water Injection Station; therefore, EOG proposes no remediation activities for hydrocarbon-contaminated soils.

Field screening and laboratory analytical data show elevated chloride levels (approximately 11,000 ppm) on the RHNU 606 production pad surface. Chloride levels decrease rapidly with depth to a concentration less than 1,000 ppm at a depth of 2 – 3 ft. Chloride contamination extends to a depth of 5 ft <u>+</u> at Sample Point No. 4 in the southwest quadrant of the production pad. A copy of the Site Investigation Report prepared by B&H Environmental is attached.

Initial response to the produced water spill included removal of the water with a vacuum truck and then blending of the contaminated materials. Buried flowlines on location prevent extensive blending of the caliche surface. The produced water spill naturally collected in the low point on the production pad, which is the southwest corner. Also, since less surface equipment is located in the southwest quadrant of the production pad, this area was used for staging of vacuum trucks and remediation equipment and was the last area to be remediated. This short delay in removal of the spilled material may be the cause of the increased depth of chloride contamination.

Site ranking criteria in the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* indicates this site presents no risk to public health, fresh waters, animal or plant life, or the environment and does not interfere with the public welfare or use of the property. Vertical and horizontal extent of chloride contamination is limited and local groundwater sources are relatively deep. Based on site ranking criteria, EOG proposes to leave the chloride-contaminated material in place. The following considerations support the risk-based proposal to leave contaminated material in place:

- surface water is not endangered since the entire RHNU 606 Water Injection Station is diked;
- chloride contamination is confined to the top few feet of surface material and surface material on the production pad is caliche rather than native soil;
- although not as effective as gypsum, caliche will serve as a binding agent thus inhibiting movement of the contamination;
- the dramatic drop in chloride levels from 1 to 3 feet of depth and the 185-foot depth to groundwater indicate the potential for remaining chloride contamination to cause an exceedance in the New Mexico Water Quality Control Commission groundwater standard of 250 mg/L is negligible:
- although arid conditions reduce the potential for dilution of the chloride contamination, arid conditions also limit or restrict the movement of chlorides; and
- removal and replacement or aggressive on-site blending of the production pad surface would create additional risk to the environment due to the presence of buried in-service flowlines.

RHNU 606 11-22-03 Produced Water Spill New Mexico Oil Conservation Division April 6, 2004

Page 4 of 4

EOG requests concurrence from the NMOCD to leave chloride contaminated material in place. Please call me at 713-651-6446 if you have any questions or need additional information.

Sincerely,

Cee Cee Candler

Sr. Environmental Specialist

cc:

Dirk Ellyson – EOG Pitchfork Jerry Ball – EOG Midland

elandle.

#### Attachments:

Pre-Sampling NMOCD Notifications
Location Plat
Summary of Analytical Data
Water Well Record
Site Investigation Report (prepared by B&H Environmental)

File: Environmental / Midland Division / Red Hills North 606 Injection Station CERTIFIED MIAL: 70011140000432112564



EOG Resources, Inc.

P.O. Box 4362

Houston, TX 77210-4362

TO:	Paul Sheeley	FROM:	Cee Cee Candler
COMPANY:	NMOCD	DEPT:	Environmental, Health, & Safety
FAX #:	505-393-0720	PHONE#:	713 651-6446
		FAX #:	713 651-6447
TOTAL NUMBE	R OF PAGES (including this page)	_9_ DATE:	April 15, 2004
If you do not re	ceive this transmission in its enti	rety, please ca	il Cee Cee Candler
at 713-651-6	<u>6446</u> .		

Paul:

Please find attached EOG's 1/12/04 response to the NMOCD Notice of Non-Compliance at the Re Hills North Unit #606 Injection Station. I will forward a copy by mail as well.

Please call if you have any questions or need additional information.

Thanks,

THE INFORMATION CONTAINED IN THIS FACSIMILE MESSAGE IS CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR AGENT RESPONSIBLE TO DELIVER IT TO THE INTENDED RECIPIENT. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE IMMEDIATELY NOTIFY US BY TELEPHONE, AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA THE U.S. POSTAL SERVICE.

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EOG Resources, Inc. 333 Clay Street, Suite 4200 Houston, Texas 77002

P.O. Bax 4362 Houston, Texas 77210-4362

January 12, 2004

Mr. Paul Sheeley New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

Re:

Notice of Non-Compliance Immediate Notification and Remediation Action Incomplete RHNU #606, UL-O Sec. 6-T25S-R34E Lea County, New Mexico

Dear Mr. Sheeley,

In response to the New Mexico Oil Conservation Division (NMOCD) December 18, 2003 letter regarding the above referenced Notice of Non-Compliance, EOG Resources, Inc. (EOG) submits for review and approval the information requested by the NMOCD.

#### NMOCD Form C-141

On November 22, 2003, approximately 500 barrels (bbls) of produced water was release at the EOG RHNU 606 Water Injection Station. The spill was contained and the produced water was vacuumed up and returned to the produced water storage tanks on the location. Written spill notification was submitted to the NMOCD district office within 15 days as required by Rule 116. Immediate verbal notification was not provided because the volume of produced water not recovered was less than 25 bbls. Initial corrective action consisted of blending and raking the spill area to enhance natural onsite bioremediation. Some material from the spill area was used to reinforce a tank battery firewall. Contaminated material was not used for road spreading and no contaminated material was buried or removed for offsite disposal. Confirmatory sampling will delineate the vertical and horizontal scope of the spill area.

The attached Form C-141 has been revised to include information that was missing on the rejected Form C-141 submitted by EOG on December 2, 2003.

The NMOCD also requested copies of all Form C-141 spill reports for the EOG RHNU 606 Water Injection Facility since 2001. There are no additional Form C-141 spill reports for this facility and EOG is not aware of any reportable spills at this facility since 2001.

#### Depth to Groundwater and Analytical Documentation

Based on data on file with the New Mexico State Engineer Office, depth to groundwater is estimated to be approximately 190 feet. Site ranking criteria as described in NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993) is summarized below.

energy opportunity growth

New Mexico Oil Conservation Division
January 12, 2004

Page 2 of 2

Ranking Criteria	Ranking Score
Depth to Groundwater > 100 feet Well Head Protection Area	0
>1000 feet from water source >200 feet from private domestic water source	0
Distance to Surface Water Body >1000 horizontal feet	0
Total Score:	0

Soil samples will be collected from the spill area by B&H Environmental and analyzed for total hydrocarbon and chloride content. B&H Environmental will conduct a field soil vapor headspace measurement and soil samples will be analyzed for BTEX if warranted based on the results of the field test.

#### Proposed Soil Remediation Level

EOG will determine if further remediation is necessary based on the results of the field and laboratory analytical results. EOG does not anticipate extensive additional remediation will be required due to the limited vertical extent of the contamination and lack of hydrocarbons in the produced water. Likewise, EOG will evaluate laboratory analytical data and the depth to groundwater to determine the potential for remaining chloride contamination to cause an exceedance in the New Mexico Water Quality Control Commission groundwater standard of 250 mg/L.

#### Sampling Notification

B&H Environmental will collect soil samples at the spill area the week of January 12, 2004. The NMOCD will be notified of the exact date and time via e-mail at least 48 hours prior to sample collection.

Please call me at 713-651-6446 if you have any questions or need additional information.

Sincerely,

Cee Cee Candler

Sr. Environmental Specialist

cc: Dirk Ellyson – EOG Pitchfork

Jerry Ball - EOG Midland

PAGE 004/009

Fax Server

District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Revised October 10, 2003

#### Release Notification and Corrective Action

OPERATOR						⊠ Initia	l Report		Final Report			
Name of Company EOG Resources, Inc.					Contact Stan Wagner / Dirk Ellyson							
Address P. O. Box 2267, Midland, TX 79702					Telephone No. 432-686-3689 - 505-390-2900							
Facility Name RHNU 606					Facility Type Water Injection Facility							
Surface Ow	Surface Owner BLM Mineral Owner					BLM			Lease N	lo. NM 30	400	
	LOCATION OF RELEASE											
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		est Line	County		
O	6	258	34E	530'	South		1650'	East		Lea		
Latitude 32° 09' 14" N Longitude 103° 30' 21" W												
				NAT	URE	OF REL	EASE					
Type of Rele Produced wa					**************************************	Volume of 450-500 b			Volume F 450-500 I	Recovered		
Source of Re		····					lour of Occurrenc	e l		Hour of Dis	coverv	
		oduced water	tank				Early AM		11/22/200			
Was Immedi	ate Notice (					If YES, To	Whom?					
			JYes ∟	No Not R	equired							
By Whom?						Date and I						
Was a Water	course Read		] Yes ⊠	71 N.L.		If YES, Volume Impacting the Watercourse.						
			-	-		None						
If a Watercon		pacted, Descr	ibe Fully.	•								
Not applicat	JIE.											
							·	<u>-</u>				
1		em and Reme			ndon oo	uolmo enilli I	Replaced swage v	uith a co	oted high	processo ni	nnie e	nd installed
bigh-pressu	re hose to e	liminate vibi	oke m pu ration. In	mp uischarge de stalled actuator	auer ca controll	ed valves to	shut off source of	f water	when pum	bi essai e mi	ppic a	ng mistaned
									•			
Describe Are	a Affected	and Cleanup	Action Ta	cen *								
Water conta	ined. Vac	uumed up an	d oumpe	ken. I into produced s	vater tu	nks on locat	ion. Spill area bi	lended a	nd raked	to enhance	natura	ıl onsite
bioremediat	ion. Some	material from	m the spil	l area was used t	o reinfo	rce the tank	battery firewall.	Conta	minated m	iaterial was	not us	ed for road
spreading at	nd no conts	aminated ma	terial was	buried or remov	ed for	offsite dispos	al. Confirmator	y sampl	ing sched	uled for 1/1	3/04 wi	ill delineate
the vertical	extent of th	ie spili.										
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and												
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger												
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health												
or the enviro	or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other											
federal, state, or local laws and/or regulations.												
Signature:	Signature: Col Col Caudler OIL CONSERVATION DIVISION					•						
Printed Name: Cee Cee Candler												
Approved by District Supervisor:												
Title: Senio	r Environn	nental Specia	list			Approval Da	te:		Expiration	Date:		
E-mail Addr	ess: ccand	ler@eogreesc	ources.cor	n		Conditions of	f Approval:			Attached		
Date: Janu			hone: 713	-651-6446	1							
* Attach Addi	tional She	ets If Neces	carv									



EOG Resources, Inc.

P.O. Box 4362

The state of the s

Houston, TX 77210-4362

TO:	Paul Sheeley	FROM:	Cee Cee Candler
COMPANY:	NMOCD .	DEPT:	Environmental, Health, & Safety
FAX#:	505-393-0720	PHONE#:	713 651-6446
		FAX#:	713 651-6447
TOTAL NUMBE	R OF PAGES (including this page)	3 DATE:	April 15, 2004
If you do not re	ceive this transmission in its enti	rety, please ca	Cee Cee Candier
at 713-651-6	<u>5446</u> .		
The second secon			73 - 1 - 40 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

RE:

Red Hills North Unit #606 Water Injection Station

Notice of Non-Compliance

Paul:

In our conversation this morning you mentioned BLM spill notification requirements. As soon as I became aware of the spill, I asked our field operations staff to notify the NMOCD and the BLM. A report was submitted to the BLM the same time we submitted our initial notification to NMOCD. A copy is attached for your files.

Please call if you have any questions or need additional information.

Thanks, CCC

THE INFORMATION CONTAINED IN THIS FACSIMILE MESSAGE IS CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR AGENT RESPONSIBLE TO DELIVER IT TO THE INTENDED RECIPIENT. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE IMMEDIATELY NOTIFY US BY TELEPHONE, AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA THE U.S. POSTAL SERVICE.

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#### BUREAU OF LAND MANAGEMENT REPORT OF UNDESIRABLE EVENT (NTL-3A)

Operator: <u>EOG Resources, Inc.</u> Date/Time of Occurrence: 11/22/03 AM_				
Field/Unit Name: RHNU 606 Date/Time BLM Notified:				
Location: Lea County, New Mexico; 1/4 Sec: 6 T. 25 S., R. 34 E. 530' FSL & 1650' FEL				
Lease No. 30400 , Surface Ownership: X Federal Indian Fee State (Place an "X" to mark ownership.)				
Type of Event: Oil Spill, Oil/Water Spill, Gas Venting, Toxic Fluid Spill, Saltwater Spill, Other Spill (Specify); Blowout, Fire, Injury, Fatality, Property Damage, Explosion: Spill-Mixture of fresh water and produced water.				
Cause of Event: High pressure coated swage broke on pump discharge header.				
10 minutes after leak was discovered Time Required To Control Event (hrs.)  Volumes Discharged or Consumed: 450-500 bbls contained on location  Volumes Recovered: 450-500 bbls.				
Action Taken to Control Event/Resultant Damage/Clean-Up Procedures/Dates:  Vacuumed up water and pumped into tanks on 11/22/03. No damage. Replaced swage with a coated high-pressure nipple and installed high-pressure hose to eliminate vibration. Installed acuator controlled valves to shut off source of water when pumps go down.  Cause/Extent of Personnel Injury: None  Governmental Agencies Notified (Federal/State/Local):				
General Remarks:  Signature: My Fully Title: Senior Production Foreman Date: 12/2/03				
FOR BLM USE ONLY				

District/RA:	Event Classification (Class I, II, III):
Date Reported to V	Vyoming SO: to WO:
Inspection Data:	Onsite Insp. Date Insp. Name Insp. Type Insp. Hrs Travel IIrs Office Hrs. Insp. No Activity Code (SV or FA): Remarks

WY 3109-10 (June 1993)

#### TRANSACTION REPORT

Apr-15-04 Thu 12:34 PM

Туре	Receiving				
Date	Start	Sender	TX/RX Time	Pages	Note
Apr-15	12:32 PM		59s	3	ok

Cee Cee Candler



01/29/2004 10:13 AM

To: psheeley@state.nm.us

Subject: Notification of Scheduled Sample Collection - EOG RHNU 606

#### Paul:

Based on the results of field screening conducted by B&H Environmental on January 13, 2004, EOG Resources plans to collect additional samples of the spill area at the EOG RHNU 606 Water Injection Station on Tuesday, February 3, 2004. Since B&H Environmental was not able to penetrate the caliche pad during the initial field screening, EOG plans to use a drill rig to core through the production pad and collect samples at one foot intervals to determine the vertical extent of contamination.

I will be present for sample collection on Tuesday and will continue to work with the EOG Pitchfork office and B&H Environmental to develop the sampling plan and implement remediation activities.

#### **EOG New Mexico Contact:**

Dirk Ellyson (505) 390-2900 dellyson@eogresource.com

#### **B&H Environmental Contact:**

Gary Gee (505) 631-8616 ggee@bhpipeline.com

Thanks, CCC

ccandler@eogresources.com (713) 651-6446 - Phone (281) 633-1941 - Cell (713) 651-6447 - Fax

#### Cee Cee Candler



01/09/2004 02:54 PM

To: psheeley@state.nm.us Subject: Notification of Scheduled Sample Collection - EOG RHNU 606

#### Paul:

EOG Resources plans to collect soil samples of the spill area at the EOG RHNU 606 Water Injection Station at approximately 10 AM on Tuesday, January 13, 2004. B&H Environmental will conduct field screening and develop a sample plan based on the results of the field screening.

Please let me know if you plan to be onsite during sample collection activities or if we need to re-schedule to accommodate your calendar. I can be reached by e-mail (ccandler@eogresources) or at 713-651-6446.

I cannot be present for sample collect next week but I will work with the EOG Pitchfork office and B&H Environmental to develop the sampling plan and remediation activities. A revised NMOCD Form C-141 and preliminary remediation plan will be forwarded by January 15, 2004 for your review and approval.

#### **EOG New Mexico Contact:**

Dirk Ellyson (505) 390-2900 dellyson@eogresource.com

#### **B&H Environmental Contact:**

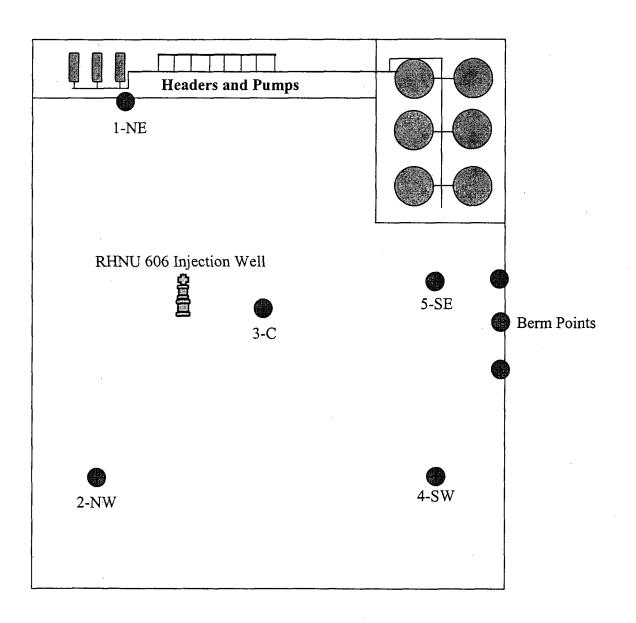
Gary Gee (505) 631-8616 ggee@bhpipeline.com

Thanks, CCC

ccandler@eogresources.com (713) 651-6446 - Phone (281) 633-1941 - Cell (713) 651-6447 - Fax



Test Collection Points



Company: EOG Resources P.O. Box 3229 Carlsbad, New Mexico 88260

Project:
RHNU 606 Water Injection Facility
32° 09'13" N – 103° 30'21" W
Lea County, New Mexico

B & H Environmental Services 2858 Steven Road Odessa, Texas 79764 915-550-8210

**EOG Resources, Inc.**Red Hills North Unit 606 Water Injection Station Sec. 6-T25S-R34E in Lea County, New Mexico

<u>ID Location Sample Date Depth Test Method Chl</u> Description Conce	entration
1 NE quadrant of 01-13-2004 0.8 ft Field 11	1,160 ppm
location Screening	•
02-05-2004 1.0 ft Field 11	1,000 ppm
Screening	
02-05-2004 3.0 ft Field	890 ppm
Screening	
02-05-2004 3.0 ft Method 300	1490 ppm
·	1,000 ppm
location Screening	
	7,340 ppm
Screening	050
02-05-2004 3.0 ft Field	650 ppm
Screening National 200	COO
02-05-2004 Method 300	638 ppm
2 O-t	0.270
	0,270 ppm
Screening 02-05-2004 1.0 ft Field 2	2,060 ppm
02-05-2004 1.0 it Field 2 Screening	2,000 ppm
02-05-2004 2.0 ft Field	300 ppm
Screening	300 ppiii
02-05-2004 2.0 ft Method 300	340 ppm
72 00 2004 2.0 A MORIOGO COC	0 то рр
4 SW quadrant of 01-13-2004 0.8 ft Field 1	1,329 ppm
location Screening	.,
	3,340 ppm
Screening	
	1,320 ppm
Screening	
02-05-2004 4.0 ft Field	1,640 ppm
Screening	
	1,325 ppm
Screening	
02-05-2004 7.0 ft Field	230 ppm
Screening	055
02-05-2004 7.0 ft Method 300	255 ppm
F OF Triadent 6 04 42 2004 0.0 ft Field 4	1 000
	1,080 ppm
	1,240 ppm
Screening	1,240 ppiii
02-05-2004 3.0 ft Field	410 ppm
Screening	, to ppin
02-05-2004 3.0 ft Method 300	638 ppm
Berm 0.3 ft Field 20	6,270 ppm
Screening	• •
1 Sample closest to 02-05-2004 3.0 ft Method 8015	ND ppm
spill source TPH (C <sub>6</sub> -C <sub>35</sub> )	



#### **Maintenance and Construction**

2858 Steven Road Odessa, Texas 79764 432-550-8210

EOG Resources, Inc.
Midland Division
RHNU 606 Water Injection Facility
Unit O, Sec.6, T25S, R34E
530' FSL & 1650' FEL
Lea County, New Mexico

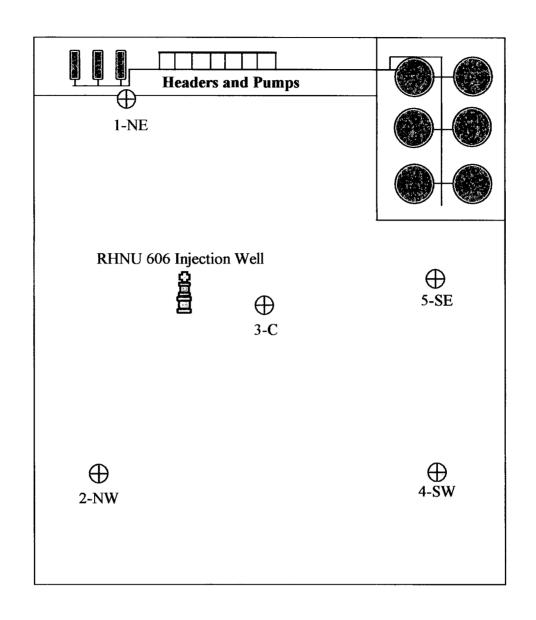
#### **Subject: Produced Water Spill Chloride Investigation Summary**

On February 5, 2004, B&H conducted a site investigation in regards to a produced water spill that occurred within the confines of the bermed location. B&H utilized a hollow stem auger drilling rig to soil bore the location and collect soil samples for chloride analysis. The location was soil bored and sampled in a manner to establish a representative analysis of the spill-affected area as determined by EOG Resources representative CeeCee Candler and B&H representative Derek Robinson. The soil samples were analyzed onsite for chlorides at approximately every foot in depth with bottom samples, collected from every soil boring, submitted to an independent laboratory for confirmation analysis. A sample collected from the soil boring that was near the leak source was analyzed for gasoline and diesel range petroleum hydrocarbons by EPA method 8015(m) to ensure that no contamination by these petroleum hydrocarbons exist.

Stacy S. Stribling Environmental Specialist



-Test Collection Points



Field	Chloride	Anal	lysis

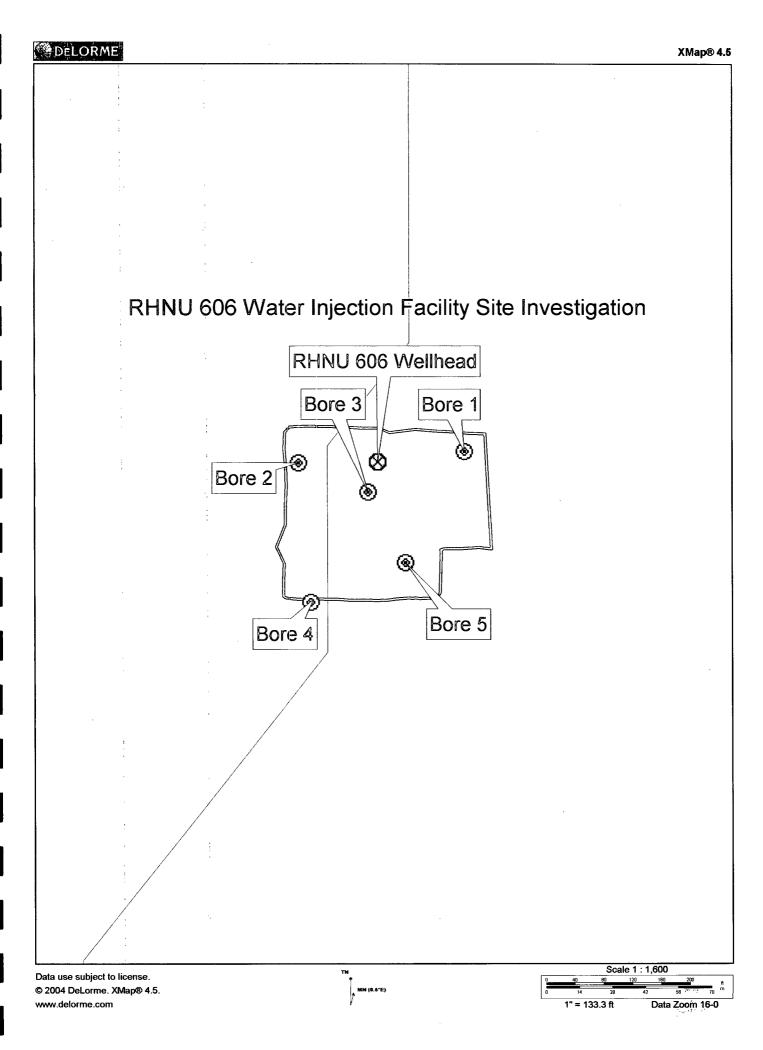
Sample Point	Sample Depth	Sample Analysis
1-NE	3'	890 ppm
2-NW	3'	650 ppm
3-Center	2'	300 ppm
4-SW	7'	230 ppm
5-SE	3'	410 ppm

Company:

EOG Resources P.O. Box 3229 Carlsbad, New Mexico 88260 Project:

RHNU 606 Water Injection Facility 32° 09'13" N – 103° 30'21" W Lea County, New Mexico B & H Environmental Services

2858 Steven Road Odessa, Texas 79764 432-550-8210





# ENVIRONMENTAL SERVICES

2858 STEVEN ROAD ODESSA, TEXAS 79764 432-550-8210

# ANALYTICAL REPORT FORM

CLIENT:	EOG Resources Company		
SITE:	RHNU 606 Water Injection Facility	Produced Water Spill	
ANALYST:_	Derek Robinson	ANALYZER I.D.#	CTK01

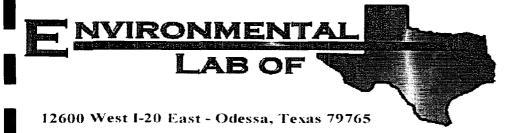
SAMPLE ID	SAMPLE DATE	<b>DEPTH</b>	CHLORIDE	SAMPLE NOTE
TP1	2/5/04	1'	11,000ppm	
TP1	2/5/04	3'	890ppm	
TP2	2/5/04	1'	2060ppm	
TP2	2/5/04	3'	650ppm	
TP3	2/5/04	1'	2060ppm	
TP3	2/5/04	2'	300ppm	
TP4	2/5/04	1'	3340ppm	
TP4	2/5/04	3'	1320ppm	
TP4	2/5/04	4'	1640ppm	
TP4	2/5/04	5'	1325ppm	
TP4	2/5/04	7'	230ppm	
TP5	2/5/04	1'	1240ppm	
TP5	2/5/04	3'	410ppm	
	-			

ANALYST NOTES:_			 
	******		 



ANAI VTICAL REPORT FORM

ANALISI. Stat	ALYST: Stacy Stribling ANALYZER I.D.# PID01						
SAMPLE ID	SAMPLE DATE	DEPTH	VOC/ppm	SAMPLE NOTE			
TP1	1/13/04	1'	0.00	Taken close to sour			
	<u> </u>						
			<del></del>				



# Analytical Report

# **Prepared for:**

Derek Robinson

B & H Maintenance & Construction

2858 Steven Road

Odessa, TX 79764

Project: EOG

Project Number: None Given Location: RHNU Injection

Lab Order Number: 4B11007

Report Date: 02/12/04

B & H Maintenance & Construction 2858 Steven Road

Odessa TX, 79764

Project: EOG
Project Number: None Given
Project Manager: Derek Robinson

Fax: (432) 368-4031

Reported:
02/13/04 12:14

### **ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP 1 @ 3'	4B11007-01	Soil	02/05/04 00:00	02/11/04 11:07
TP 2 @ 3'	4B11007-02	Soil	02/05/04 00:00	02/11/04 11:07
TP 3 @ 2'	4B11007-03	Soil	02/05/04 00:00	02/11/04 11:07
TP 4 @ 7'	4B11007-04	Soil	02/05/04 00:00	02/11/04 11:07
TP 5 @ 3'	4B11007-05	Soil	02/05/04 00:00	02/11/04 11:07

B & H Maintenance & Construction 2858 Steven Road Odessa TX, 79764

Project: EOG
Project Number: None Given
Project Manager: Derek Robinson

Fax: (432) 368-4031

Reported:
02/12/04 11:28

# Organics by GC

## **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP 1 @ 3' (4B11007-01)									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB41102	02/11/04	02/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	J [5.74]	10.0	11	u	**	It	"	n	J
Total Hydrocarbon C6-C35	ND	10.0	**	"	и	н	Ħ	. "	
Surrogate: 1-Chlorooctane		89.2 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.2 %	70-1	130	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

B & H Maintenance & Construction

2858 Steven Road Odessa TX, 79764 Project: EOG

Project Number: None Given
Project Manager: Derek Robinson

Fax: (432) 368-4031

Reported: 02/12/04 11:28

# General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

		Reporting						
Analyte	Result	Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Note
TP 1 @ 3' (4B11007-01)					<del></del>	····		
Chloride	1490	20.0 mg/kg Wet	2	EB41103	02/11/04	02/11/04	SW 846 9253	
% Solids	93.0	%	1	EB41202	02/12/04	02/12/04	% calculation	
TP 2 @ 3' (4B11007-02)								
Chloride	638	20.0 mg/kg Wet	2	EB41103	02/11/04	02/11/04	SW 846 9253	
TP 3 @ 2' (4B11007-03)								
Chloride	340	20.0 mg/kg Wet	2	EB41103	02/11/04	02/11/04	SW 846 9253	
TP 4 @ 7' (4B11007-04)								
Chloride	255	20.0 mg/kg Wet	2	EB41103	02/11/04	02/11/04	SW 846 9253	
TP 5 @ 3' (4B11007-05)								
Chloride	638	20.0 mg/kg Wet	2	EB41103	02/11/04	02/11/04	SW 846 9253	

Environmental Lab of Texas

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B & H Maintenance & Construction 2858 Steven Road Odessa TX, 79764

Project: EOG
Project Number: None Given
Project Manager: Derek Robinson

Fax: (432) 368-4031

Reported:
02/12/04 11:28

# Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB41102 - 8015M										
Blank (EB41102-BLK1)				Prepared	& Analyze	ed: 02/11/0	04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	**							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	35.2		mg/kg	50.0		70.4	70-130			
Surrogate: 1-Chlorooctadecane	36.5		"	50.0		73.0	70-130			
Blank (EB41102-BLK2)				Prepared	& Analyze	ed: 02/11/	04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	11							
Total Hydrocarbon C6-C35	ND	10.0	n							
Surrogate: I-Chlorooctane	36.0		mg/kg	50.0		72.0	70-130			
Surrogate: 1-Chlorooctadecane	<b>36</b> .7		"	50.0		7 <b>3</b> .4	70-130			
LCS (EB41102-BS1)				Prepared	& Analyze	ed: 02/11/	04			
Gasoline Range Organics C6-C12	443	10.0	mg/kg wet	500		88.6	75-125			
Diesel Range Organics >C12-C35	457	10.0		500		91.4	75-125			
Total Hydrocarbon C6-C35	900	10.0	11	1000		90.0	75-125			
Surrogate: 1-Chlorooctane	44.9		mg/kg	50.0		89.8	70-130			
Surrogate: 1-Chlorooctadecane	36.2		"	50.0		72.4	70-130			
LCS (EB41102-BS2)				Prepared	& Analyze	ed: 02/11/	04			
Gasoline Range Organics C6-C12	461	10.0	mg/kg wet	500		92.2	75-125			
Diesel Range Organics >C12-C35	438	10.0	n	500		87.6	75-125			
Total Hydrocarbon C6-C35	899	10.0	*1	1000		89.9	75-125			
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0	· · · · ·	89.6	70-130			
Surrogate: 1-Chlorooctadecane	35.6		"	50.0		71.2	70-130			
Calibration Check (EB41102-CCV1)				Prepared	& Analyzo	ed: 02/11/	04			
Gasoline Range Organics C6-C12	516		mg/kg	500		103	80-120			
Diesel Range Organics >C12-C35	497		11	500		99.4	80-120			
Total Hydrocarbon C6-C35	1010		u	1000		101	80-120			
Surrogate: 1-Chlorooctane	55.0		п	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	51.7		"	50.0		103	70-130			

Environmental Lab of Texas

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B & H Maintenance & Construction 2858 Steven Road Odessa TX, 79764 Project: EOG
Project Number: None Given
Project Manager: Derek Robinson

Fax: (432) 368-4031

Reported:
02/12/04 11:28

# Organics by GC - Quality Control Environmental Lab of Texas

Amalada	Donate	Reporting	F.T14.	Spike	Source	0/DEC	%REC	DDD	RPD	Nat
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB41102 - 8015M										
Calibration Check (EB41102-CCV2)				Prepared	& Analyze	ed: 02/11/0	04			
Gasoline Range Organics C6-C12	524		mg/kg	500		105	80-120		7/	
Diesel Range Organics >C12-C35	539		11	500		108	80-120			
Total Hydrocarbon C6-C35	1060		**	1000		106	80-120			
Surrogate: I-Chlorooctane	54.8		н	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	46.1		"	50.0		92.2	70-130			
Matrix Spike (EB41102-MS1)	Sou	rce: 4B110	02-01	Prepared	& Analyz	ed: 02/11/0	04			
Gasoline Range Organics C6-C12	591	10.0	mg/kg dry	543	ND	109	75-125			
Diesel Range Organics >C12-C35	552	10.0	11	543	ND	102	75-125			
Total Hydrocarbon C6-C35	1140	10.0	11	1090	ND	105	75-125			
Surrogate: I-Chlorooctane	59.6		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	52.7		"	50.0		105	70-130			
Matrix Spike (EB41102-MS2)	Sou	Source: 4B11003-07 P		Prepared	& Analyz	ed: 02/11/	04			
Gasoline Range Organics C6-C12	571	10.0	mg/kg dry	543	ND	105	75-125			
Diesel Range Organics >C12-C35	551	10.0	"	543	ND	101	75-125			
Total Hydrocarbon C6-C35	1120	10.0	H	1090	ND	103	75-125			
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	48.9		"	50.0		97.8	70-130			
Matrix Spike Dup (EB41102-MSD1)	Sou	rce: 4B110	02-01	Prepared	& Analyz	ed: 02/11/	04			
Gasoline Range Organics C6-C12	567	10.0	mg/kg dry	543	ND	104	75-125	4.15	20	_
Diesel Range Organics >C12-C35	524	10.0	**	543	ND	96.5	75-125	5.20	20	
Total Hydrocarbon C6-C35	1090	10.0	**	1090	ND	100	75-125	4.48	20	
Surrogate: 1-Chlorooctane	57.0		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	48.0		"	50.0		96.0	70-130			
Matrix Spike Dup (EB41102-MSD2)	Sou	rce: 4B110	03-07	Prepared	& Analyz	ed: 02/11/	04			
Gasoline Range Organics C6-C12	563	10.0	mg/kg dry	543	ND	104	75-125	1.41	20	
Diesel Range Organics >C12-C35	569	10.0	"	543	ND	105	75-125	3.21	20	
Total Hydrocarbon C6-C35	1130	10.0	a	1090	ND	104	75-125	0.889	20	
Surrogate: I-Chlorooctane	58.7		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	48.0		"	50.0		96.0	70-130			

Environmental Lab of Texas

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B & H Maintenance & Construction

Project: EOG

Fax: (432) 368-4031

2858 Steven Road Odessa TX, 79764 Project Number: None Given
Project Manager: Derek Robinson

ninson

Reported: 02/12/04 11:28

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB41103 - General Preparation	n (WetChen	1)				_				
Blank (EB41103-BLK1)				Prepared	& Analyze	ed: 02/11/	04			•
Chloride	ND	20.0 1	mg/kg Wet							
Blank (EB41103-BLK2)				Prepared	& Analyze	ed: 02/11/	04			
Chloride	ND	20.0	mg/kg Wet			<u> </u>				
Calibration Check (EB41103-CCV1)				Prepared	& Analyz	ed: 02/11/	04			
Chloride	4570		mg/kg	5000		91.4	80-120		*1.	
Calibration Check (EB41103-CCV2)				Prepared	& Analyz	ed: 02/11/	04			
Chloride	4360		mg/kg	5000		87.2	80-120			
Matrix Spike (EB41103-MS1)	So	urce: 4B1100	02-01	Prepared	& Analyz	ed: 02/11/	04			
Chloride	3190	20.0 1	mg/kg Wet	500	2760	86.0	80-120			
Matrix Spike (EB41103-MS2)	So	urce: 4B1100	3-07	Prepared	& Analyz	ed: 02/11/	04			
Chloride	4890	20.0	mg/kg Wet	500	4470	84.0	80-120			
Matrix Spike Dup (EB41103-MSD1)	So	urce: 4B1100	2-01	Prepared	& Analyz	ed: 02/11/	04			
Chloride	3190	20.0	mg/kg Wet	500	2760	86.0	80-120	0.00	20	
Matrix Spike Dup (EB41103-MSD2)	So	urce: 4B1100	03-07	Prepared	& Analyz	ed: 02/11/	04			
Chloride	4890	20.0	mg/kg Wct	500	4470	84.0	80-120	0.00	20	
Batch EB41202 - % Solids										
Blank (EB41202-BLK1)				Prepared	& Analyz	ed: 02/12/	′04			·
% Solids	100		%							

Environmental Lab of Texas

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B & H Maintenance & Construction

2858 Steven Road Odessa TX, 79764 Project: EOG

Project Number: None Given
Project Manager: Derek Robinson

Fax: (432) 368-4031

Reported: 02/12/04 11:28

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB41202 - % Solids										
Duplicate (EB41202-DUP1)	Sour	ce: 4B1100	)2-01	Prepared	—– & Analyzo	ed: 02/12/0	04			
% Solids	92.0		%		92.0			0.00	20	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Quality Assurance Review

Page 7 of 8

B & H Maintenance & ConstructionProject:EOGFax: (432) 368-40312858 Steven RoadProject Number:None GivenReported:Odessa TX, 79764Project Manager:Derek Robinson02/12/04 11:28

### Notes and Definitions

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Environmental Lab of Texas

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Quality Assurance Review

Page 8 of 8

# **Environmental Lab of Texas**

12600 West I-20 East Odessa, Texas 79765

Phone: 432-563-1800 Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

FUSH TAT (Pre-Schedule Project Loc: RHNU INJOHNON M.A.O.M. Temperature Upon Receipt: BCI Sample Containers Intact? Analyze For Laboratory Comments: BIEX 8021B/5030 or BIEX 8260 507 Metals: As Ag Ba Cd Cr Pb Hg Se TCLP: TOTAL: SAR / ESP / CEC Project Name: PO #: Project #: Anions (CL. 3 O4, CO3, HCO3) Cations (Ca, Mg, Na, K) 3001 2001 (M2108 1.814:H9T Other (specify): lio2 Sludge Water Other ( Specify) 9uoN Preservative \*OSZH HOPN HCI HNO<sup>3</sup> 20% No. of Containers Fax No: Time Sampled 5-04 Time Received by Date Sampled = -Envisonmenta Company Address: 2878 STerran Rd Dent Robins. FIELD CODE City/State/Zip: Cd0222 B+ H -02 TP 2 @ 3 2 0 5 JL 5 0 5 10 4 GJ 05 TP 5@3 @ 1&1/10-Company Name Sampler Signature: Project Manager: Telephone No: Special Instructions: Sind LAB # (lab use only) 1018h

TAT brabnat2

1,0,0

Time

Date

1107

702-11-04

monny

Received by ELOT:

Time

11:07pm

ho-11-2 Date

Relinquished by

Relinquished by

Time

Date