FORM 27 Rev 6/99

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State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

#8313

FOR OGCC USE ONLY
Received
3/6/2014

OGCC Employee:
☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV
Tracking No: 436628

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☑ Other (describe): Water Vault Replacement

OGCC Operator Number: 100322
Name of Operator: Noble Energy, Inc.
Address: 1625 Broadway Suite 2200
City: Denver State: CO Zip: 80202

Contact Name and Telephone:
Jacob Evans
No: 720-587-2026
Fax: 303-328-4286

API Number: 05-123-16258
County: Weld
Facility Name: CAMENISCH-STRAIGHT-65N66W /33SESE
Facility Number: XXXXXX 436628
Well Name: Camenisch Dos Rios
Well Number: 16-33
Location: (QtrQtr, Sec, Twp, Rng, Meridian): SESE, Sec 33, T5N, R66W, 6th PM
Latitude: 40.3486 Longitude: -104.7765

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): There was no impact associated with this site

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☑ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Grass

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Aquolls and Aquents, gravelly substratum

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water Well, 2269' NE; Building, 404E; Stream 904'N

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
☐ Soils	No impacts noted	lab analysis
☐ Vegetation		
☐ Groundwater		
☐ Surface Water		

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Per COCGG rule 905b(1), During water vault replacement activities one sidewall soil sample and one base sample from the floor were collected from the highest PID reading (and analyzed for BTEX, TPH-DRO, TPH-GRO, Napthalene, SAR, EC, and pH) to ensure compliance with COGCC Table 910-1.

Describe how source is to be removed:

There are no impacts to soil or groundwater. See attached lab analytical and site figure.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Lab confirmation analysis confirmed no impacts at this site.

Submit Page 2 with Page 1

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Page 2

Tracking Number: 436628
Name of Operator: Noble Energy, Inc.
OGCC Operator No: 100322
Received Date: 3/6/2014
Well Name & No: Camenisch Dos Rios 16-33
Facility Name & No:

REMEDIATION WORKPLAN (Cont.)

R. Allison

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

There are no impacts to groundwater

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

The oil and gas facility will return to active production

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☑ N If yes, describe:

No Further Action is required for this site

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 12/5/2013	Date Site Investigation Completed: 12/5/2013	Date Remediation Plan Submitted: 3/6/2014
Remediation Start Date: NA	Anticipated Completion Date: 12/5/2013	Actual Completion Date: 12/5/2013

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Jacob Evans Signed: Jacob Evans

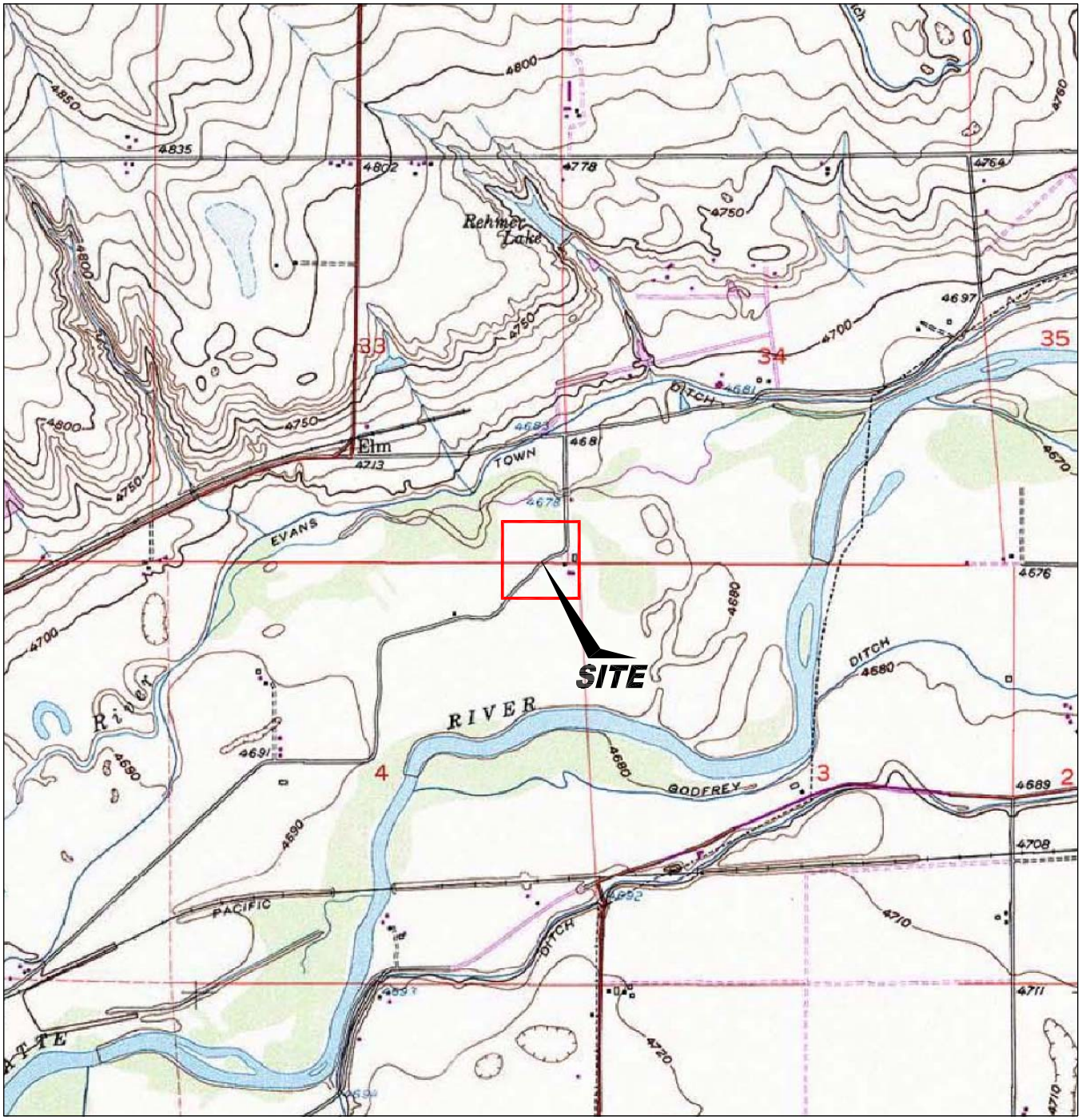
Digitally signed by: Jacob Evans
DN: CN = Jacob Evans C = AD O = Noble Energy Inc.
Date: 2014.03.06 12:52:05 -06'00'

Title: Senior Environmental Specialist Date: 3/6/2014

OGCC Approved: Richard Allison

Digitally signed by Richard Allison
DN: cn=Richard Allison, o=COGCC, ou, email=rick.allison@state.co.us, c=US
Date: 2014.04.03 11:31:59 -06'00'

Title: Northeast EPS Date: 4/3/2014



N

Scale (miles)
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
0 1000 2000 3000 4000 5000
Scale (feet)

USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Camenisch Dos Rios 16-33
SE SE Section 33, T5N, R66W
Weld County, Colorado

Project No.	Prepared by	Drawn by
C013-071		JMA
Date	Reviewed by	Filename
12/6/13		13071T

FREMONT ENVIRONMENTAL

LEGEND

- FENCE LINE
- BERM
- WELL LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER — FORMER FACILITY

Figure 2
SITE MAP

Noble Camenisch Dos Rios 16-33
SE SE Section 33, T5N, R66W
Weld County, Colorado

Project No.	Prepared by	Drawn by
C013-071		JMA
Date	Reviewed by	Filename
12/6/13		13071Q

FREMONT ENVIRONMENTAL

Chain of Custody

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION

(*New Clients please fill out completely)

Company:	Fremont Environmental Inc.
Project:	NOBLE - CAMENISCH DOS RIOS 16-33
Project Manager:	Paul Henehan
Sampler:	
Phone/Email:	303-956-8714 PaulH@FremontEnv.com
Address:	12061 Pennsylvania St., Suite B-101 Thornton, CO 80241

ANALYSIS INFORMATION

(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix:(S) Soil (W) Water (V) Vapor (O) Other	BTEX / MTBE / GRO (EPA 8260)	DRO (EPA 8015)	Vapor BTEX / TVPH (EPA TO-14)	Full VOC (EPA 8260)	Semi-Volatiles (Full List / PAH's)	TRPH / Oil & Grease	RCRA 8 Metals (Total / TCLP / Dissolved)	React. / Ignit. / Corrosivity / Paint Filter	pH / TSS / TDS	Metals (Specify)	PCBs / Pesticides / Herbicides	Anions (Specify)	Other Analysis: NOBLE - BTEX, DRO, GRO, NAPHTHALENE	Other Analysis: SAR, EC, pH
01	FLOOR 4 FT	12/4/13 AM / PM	1	S													✓	✓
02	E. WALL 3 FT	12/4/13 AM / PM	1	S													✓	✓
		AM / PM																
		AM / PM																
		AM / PM																
		AM / PM																
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		AM / PM																
		AM / PM																

Comments:

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- (X) Normal (5-10 Days)
- ( ) 3 Day (1.25x)
- ( ) 2 Day (1.5x)
- ( ) 1 Day (2x)
- ( ) Same Day (3x)

Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.

Colorado OPS Project : Yes / No

For eANALYTICS Use

Samples Received Intact: (Yes) / No

Received Within Temperature Range (2-6°C) (Yes) / No

Sample Preservative: Ice, None, Acid, Other

Record of Custody

Relinquished by:	BILL FE	Date 12/5/13 Time 0820 AM / PM
Company:		
Received by:	Randall McCarty	Date 12/5/13 Time 0820 AM / PM
Company:	Executive Courier	
Relinquished by:	Randall McCarty	Date 12/5/13 Time 1240 AM / PM
Company:	E/A	
Received by:		Date 12/5/13 Time 12 40 AM / PM
Company:	eANALYTICS	

WO # 371

eANALYTICS: Environmental testing made Easy

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Soil
Sample Analysis

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	371
Project:	Camenisch Dos Rios 16-33		
Analysis:	Volatile Organics TPH-GRO / DRO	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naph-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Sampled	Date Analyzed	Lab ID	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
Floor 4 Ft	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	12/04/13	12/05/13	371	1
E. Wall 3 Ft	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	12/04/13	12/05/13	371	2

Soil
Sample Analysis

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	371
Project:	Camenisch Dos Rios 16-33		
Analysis:	pH EC SAR	Method:	EPA9045D USDA 60 (3) USDA 60 (20B)

Sample Name	pH	EC	SAR	Date Sampled	Date Analyzed	Lab ID	
		mmhos/cm					
E. Wall 3 Ft	7.28	0.361	0.39	12/04/13	12/05/13	371	2

eAnalytics Laboratory
1767 Rocky Mountain Avenue Loveland CO 80538

Soil
Quality Control - Surrogate Recoveries

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	371
Project:	Camenisch Dos Rios 16-33	Method:	EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID	
Floor 4 Ft	103	88	96	89	12/04/13	12/05/13	371	1
E. Wall 3 Ft	105	101	97	102	12/04/13	12/05/13	371	2

Soil
Quality Control - Analyses

eANALYTICS LABORATORY

Client:	Fremont Environmental / Noble Energy	Lab ID:	371
Project:	Camenisch Dos Rios 16-33		
Analysis:	Volatile Organics TPH-GRO / DRO	Method:	EPA8260 EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naph-thalene	TPH GRO C6-C10	TPH DRO C10-C28	Date Analyzed		Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
Laboratory Control	104	100	89	94	104	104	89	12/05/13	LCS	371 1
(70-130%)										
Calibration Verification	95	99	91	89	92	89	91	12/05/13	CCV	371 1
(80-120%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	12/05/13	MB	371 1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			