

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	NAPP2101257748
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: SIMCOE LLC	OGRID: 329736
Contact Name: Steve Moskal	Contact Telephone: (505) 330-9179
Contact email: smoskal@ikavenergy.com	Incident # (assigned by OCD): nAPP2101257748 Initial Filing & Closure Request
Contact mailing address: 1199 Main Ste., Suite 101, Durango, CO 81301	

Location of Release Source

Latitude: **36.901569°** Longitude: **-107.540612°**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: NORTHEAST BLANCO UNIT #231	Site Type: Natural Gas Production Wellpad
Date Release Discovered: 12/29/2020	API# (if applicable): 30-045-33215

Unit Letter	Section	Township	Range	County
F	14	31N	07W	San Juan

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 54	Volume Recovered (bbls) 40
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Rubber hose on water transfer pump, froze and ruptured, emptying the contents of the above ground storage tank.


*****Based on laboratory sample results, no further action is required. No remedial action necessary.*****

Incident ID	NAPP2101257748
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume of release is greater than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice provided to Cory Smith, Dist III office on 12/29/20 at 3:40 PM via cell phone call.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Steve Moskal</u>	Title: <u>Environmental Coordinator</u>
Signature: 	Date: <u>1/12/2021</u>
email: <u>smoskal@ikavenergy.com</u>	Telephone: <u>505-330-9179</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>1/19/2021</u>

Incident ID	NAPP2101257748
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? Depth to water determined using SJ 03426 well permit.	<u>420</u> (ft bgs) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did this release impact groundwater or surface water? DTW ~420'; Surface drainage ~490' north.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? Surface drainage ~490' north.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? Residence located 1,025 north of release point.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? None identified within 500'.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Well SJ 03426 located ~975' from release point, based on NMOSE database.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: <i>Each of the following items must be included in the report.</i> <input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. <input type="checkbox"/> Field data - Not Applicable <input checked="" type="checkbox"/> Data table of soil contaminant concentration data <input checked="" type="checkbox"/> Depth to water determination <input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release <input type="checkbox"/> Boring or excavation logs - Not Applicable <input checked="" type="checkbox"/> Photographs including date and GIS information <input checked="" type="checkbox"/> Topographic/Aerial maps <input checked="" type="checkbox"/> Laboratory data including chain of custody

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

Incident ID	NAPP2101257748
District RP	
Facility ID	
Application ID	

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: Steve Moskal Title: Environmental Coordinator

Signature:  Date: 1/12/2021

email: smoskal@ikavenergy.com Telephone: 505-330-9179

OCD Only

Received by: Ramona Marcus Date: 1/19/2021

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: _____ Title: _____
Signature: _____ Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	NAPP2101257748
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.

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Steve Moskal Title: Environmental Coordinator

Signature:  Date: 1/12/2021

email: smoskal@ikavenergy.com Telephone: 505-330-9179

OCD Only

Received by: Ramona Marcus Date: 1/19/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Northeast Blanco Unit 231

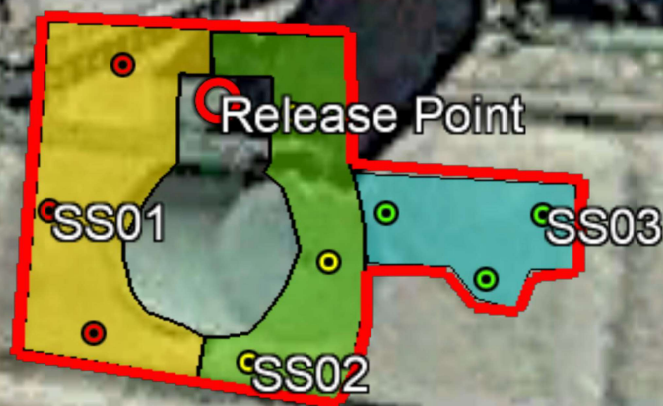
API# 30-045-33215
(F), S14, T31N, R7W
Release Point GPS: 36.901569°, -107.540612°

NAPP2101257748

NEBU 231 Wellhead

Legend

- Release Extents
- Release Point
- SS01
- SS02
- SS03



SIMCOE LLC

NAPP2101257748

Northeast Blanco Unit 231

Incident #: TBD

API #: 30-045-33215

Unit F, Sec. 14, T31N, R07W

Federal Lease #: SF03356

Produced Water Tank Release - Lab Results

Table 1

MAP DESIGNATION # & SAMPLE ID	SAMPLE DATE	SAMPLE TIME	GRAB / COMPOSITE	TPH - gasoline (mg/Kg)	TPH - diesel range (mg/Kg)	TPH - cumulative (mg/Kg)	TPH - motor oil range (mg/Kg)	TPH - cumulative (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl - benzene (mg/Kg)	Total Xylenes (mg/Kg)	BTEX - cumulative (mg/Kg)	Chloride (mg/Kg)
SS01 W of Tank	12/31/20	12:00	3 pt. comp.	<4.7	<8.5	<8.5	<42	<42	<0.023	<0.047	<0.047	0.100	0.100	190.0
SS02 E of Tank	12/31/20	12:05	3 pt. comp.	<4.7	<8.9	<8.9	<45	<45	<0.024	<0.047	<0.047	<0.094	<0.094	270.0
SS03 NE Corner	12/31/20	12:10	3 pt. comp.	<4.8	<9.7	<9.7	<49	<49	<0.024	<0.048	<0.048	0.190	0.190	350
NMOCD RELEASE CLOSURE STANDARDS -				1,000			2,500		10	50			10,000	

Notes:

TPH - Total petroleum hydrocarbons by US EPA Method 8015B.

BTEX - Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.

ppm - Parts per million.

mg/Kg - Milligram per kilogram (mg/Kg).

(-) - Not analyzed or N/A

NMOCD - New Mexico Oil Conservation Division.

Northeast Blanco Unit 231 – Soil Sample Photo Log – December 31, 2020



Photo 1 – SS01 Composite soil sample locations.



Photo 2 – SS02 Composite soil sample locations.

Northeast Blanco Unit 231 – Soil Sample Photo Log – December 31, 2020

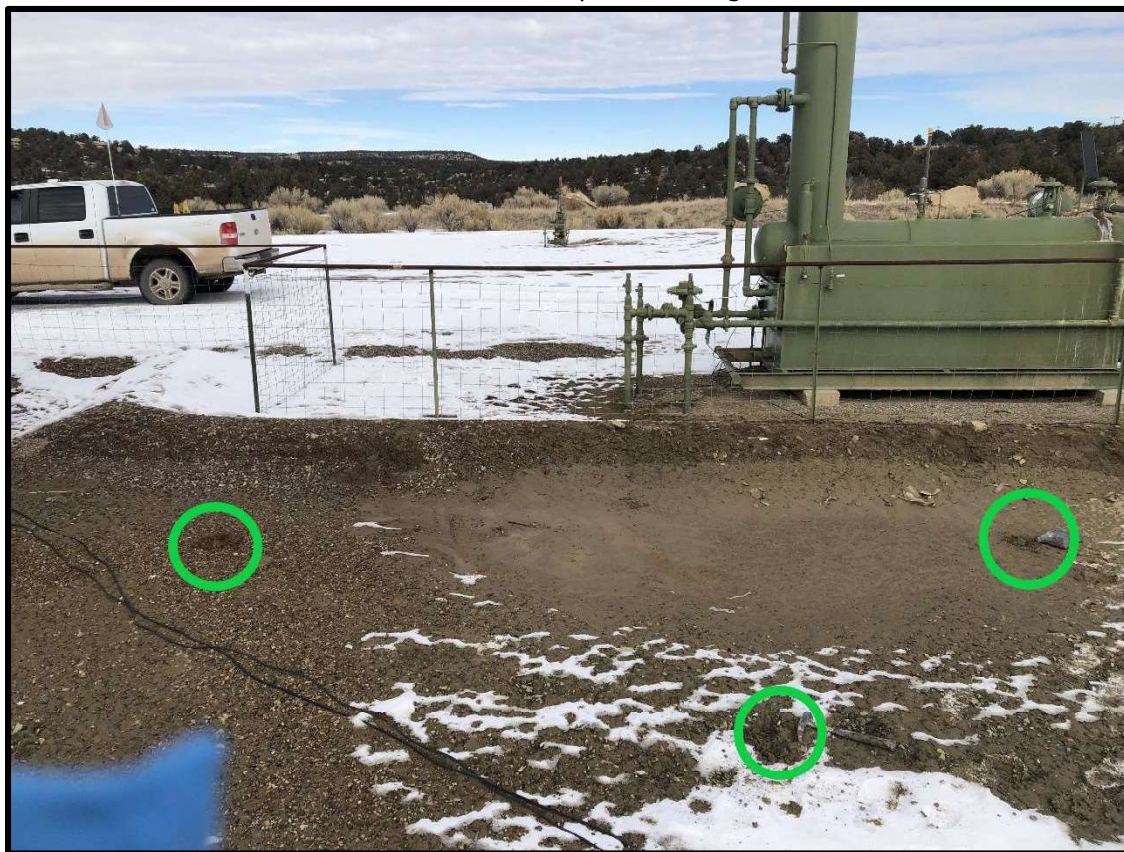


Photo 3 – SS03 Composite soil sample locations.

Steven Moskal

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Tuesday, December 29, 2020 8:49 AM
To: Steven Moskal; Gary Smith ; Enviro, OCD, EMNRD
Cc: Julie Best; Gilbert Monroe; Jonathan Divine; Hernandez, Emily, EMNRD
Subject: RE: Release notification - Northeast Blanco Unit 231

Steve,

Thank you for the notification and phone call. Please submit the initial C-141 no later than January 12, 2021.

If the sampling/date and time changes please notify OCD as soon as possible

Thanks,

Cory Smith • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

From: Steven Moskal <smoskal@ikavenergy.com>
Sent: Monday, December 28, 2020 5:09 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Gary Smith <g1smith@blm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Julie Best <julie.best@ikavenergy.com>; Gilbert Monroe <gilbert.monroe@ikavenergy.com>; Jonathan Divine <jonathan.divine@ikavenergy.com>
Subject: [EXT] Release notification - Northeast Blanco Unit 231

Cory,

As discussed, Simcoe LLC experienced a release of 73 bbls of produced coal bed methane water from a bursted hose connected to an above ground storage tank. The release was confined the an earthen berm, with approximately 40 bbls recovered via vacuum truck. No injury or incident occurred with this event.

A site assessment, including soil sampling, is scheduled for Thursday, 12/31, at 11:30 AM. The sampling is for potential closure, following NMAC 19.15.29 release guidelines, based on assessment finding and site conditions.

Gary,

This location is on BLM surface and this communication acts as a courtesy notification and notice of potential close sampling.

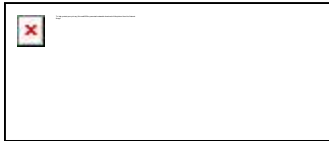
Please contact me with any questions.

~~Vhyh# rrvndq#DVS~~
Environmental Coordinator
IKAV Energy Inc.

1199 Main Ave Suite #101
Durango CO 81301
DIRECT: [505-330-9179](tel:505-330-9179)
SMoskal@IKAVENERGY.COM

#


#





Northeast Blanco Unit 231


API# 30-045-33215
(F), S14, T31N, R7W
Release Point GPS: 36.901569°, -107.540612°


Legend


 1,000' Buffer

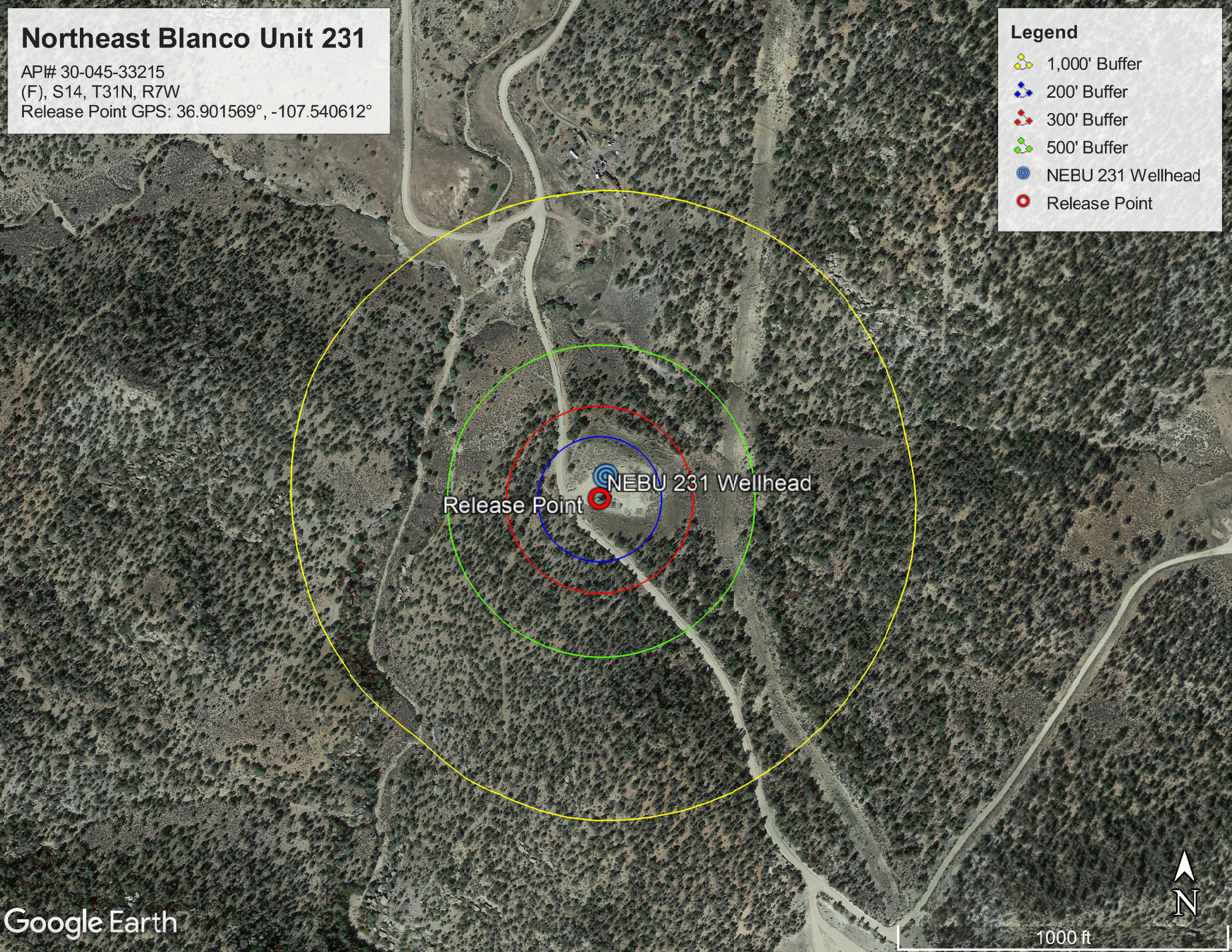
 200' Buffer

 300' Buffer

 500' Buffer

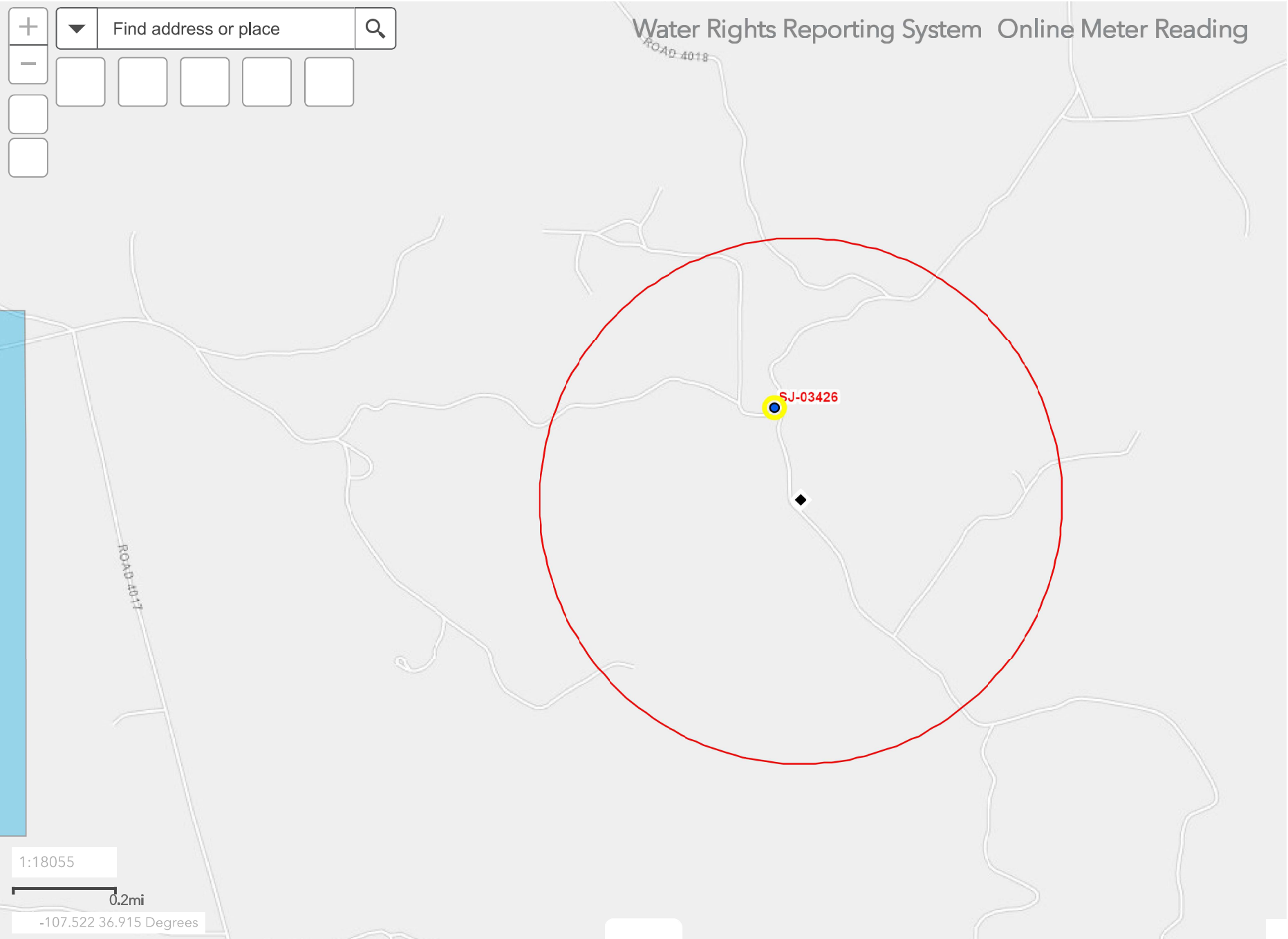
 NEBU 231 Wellhead

 Release Point





OSE POD Locations Points of Diversion visible at 1:19,000 with 1,000 features per view




Water Rights Reporting System Online Meter Reading



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)				
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	
	SJ 03426	4	2	1	14	31N	07W	273560	4087251* 	
Driller License:		1479		Driller Company:		THREE 3-D DRILLING				
Driller Name:		DEE GILES								
Drill Start Date:		12/15/2003		Drill Finish Date:		12/17/2003		Plug Date:		
Log File Date:		12/19/2003		PCW Rcv Date:				Source:		Shallow
Pump Type:		Pipe Discharge Size:				Estimated Yield:		1 GPM		
Casing Size:		5.00		Depth Well:		540 feet		Depth Water:		420 feet
Water Bearing Stratifications:				Top	Bottom	Description				
				500	540	Sandstone/Gravel/Conglomerate				
Casing Perforations:				Top	Bottom					
				460	480					
				500	540					

*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.

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well KATIE SNOW Owner's Well No. _____
 Street or Post-Office Address PO BOX 1894
 City and State ARBOLES, CO 81121

Well was drilled under Permit No. SJ-3426 and is located in the:

a. $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 14 Township 31N Range 7W N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in SAN JUAN County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor 3D DRILLING License No. WD-1479

Address PO BOX 1297 FLORA VISTA, NM 87415

Drilling Began 12/15/03 Completed 12/17/03 Type tools TOP DRIVE Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 540 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 420 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
500	540	40	SAND	1-2

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5	12.92	WELD	0	540	540	DRILLDEX 6	20	60
							500	540

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 12-19-2003

Quad _____ FWL _____ FSL _____

File No. SJ-3426 Use DOMESTIC Location No. 31N, 7W, 14, 124

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

Wm Giles
Driller

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.

H05-2133
#500

trn. 288109

READ INSTRUCTIONS ON BACK

Revised June 1991

APPLICATION TO APPROPRIATE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

1. Name and mailing address of applicant: File No. SJ-3426
Katie Snow
P.O. Box 1894
Arboles, CO 81121
2. Describe well location under one of the following subheadings:
a. SE 1/4 NE 1/4 NW 1/4 of Sec. 14 Twp. 31N Rge. 7W NMPH,
in San Juan County.
b. X = _____ feet, Y = _____ feet, New Mexico Coordinate System
Zone in the _____ Grant.
3. Approximate depth (if known) 400 feet; outside diameter of casing 7 inches.
Name of driller (if known) unknown
4. Use of water (check use applied for):
☒ One household, non-commercial trees, lawn and garden not to exceed one acre.
☒ Livestock watering.
____ More than one household, non-commercial trees, lawns and gardens not to exceed a total _____ acres.
____ Drill and test a well intended to be used for domestic, drinking and sanitary or stock water purposes in conjunction with the building or dwelling unit.
____ Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and in conjunction with a commercial operation.
____ Prospecting, mining or drilling operations to discover or develop natural resources.
____ Construction of public works, highways and roads.

If any of the last three items were marked, give name and nature of business under Remarks (Item 5).

5. Remarks: _____

I, Katie Snow, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.

Katie E. Snow, Applicant

By: _____

Date: October 10, 2003

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions numbered 1a & 4 on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before October 15, 2004.

JOHN R. D'ANTONIO, JR., P.E., STATE ENGINEER

By: J. Hubbard

Date: October 15, 2003

File No. SJ-3426

STATE ENGINEER'S OFFICE
ALBUQUERQUE, NEW MEXICO
03 OCT 1 PM 4 29

STATE ENGINEER'S OFFICE
ALBUQUERQUE, NEW MEXICO
03 NOV -7 PM 2:54



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com*

January 12, 2021

Steve Moskal
SIMCOE
1100 Main St.
Durango, CO 81301
TEL: (505) 330-9179
FAX:

RE: NEBU 231

OrderNo.: 2101053

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/5/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **2101053**

Date Reported: **1/12/2021**

CLIENT: SIMCOE

Project: NEBU 231

Lab ID: 2101053-001

Matrix: SOIL

Client Sample ID: SS01 W of Tank

Collection Date: 12/31/2020 12:00:00 PM

Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	190	60		mg/Kg	20	1/12/2021 12:33:34 PM	57484
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	1/6/2021 1:37:22 PM	57346
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/6/2021 1:37:22 PM	57346
Surr: DNOP	90.7	30.4-154		%Rec	1	1/6/2021 1:37:22 PM	57346
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/6/2021 4:06:05 PM	57343
Surr: BFB	99.5	75.3-105		%Rec	1	1/6/2021 4:06:05 PM	57343
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	1/6/2021 4:06:05 PM	57343
Toluene	ND	0.047		mg/Kg	1	1/6/2021 4:06:05 PM	57343
Ethylbenzene	ND	0.047		mg/Kg	1	1/6/2021 4:06:05 PM	57343
Xylenes, Total	0.10	0.093		mg/Kg	1	1/6/2021 4:06:05 PM	57343
Surr: 4-Bromofluorobenzene	98.6	80-120		%Rec	1	1/6/2021 4:06:05 PM	57343

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **2101053**

Date Reported: **1/12/2021**

CLIENT: SIMCOE

Client Sample ID: SS02 E of Tank

Project: NEBU 231

Collection Date: 12/31/2020 12:05:00 PM

Lab ID: 2101053-002

Matrix: SOIL

Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	270	61		mg/Kg	20	1/12/2021 12:45:59 PM	57484
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/6/2021 2:01:07 PM	57346
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/6/2021 2:01:07 PM	57346
Surr: DNOP	93.1	30.4-154		%Rec	1	1/6/2021 2:01:07 PM	57346
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/6/2021 4:29:32 PM	57343
Surr: BFB	103	75.3-105		%Rec	1	1/6/2021 4:29:32 PM	57343
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	1/6/2021 4:29:32 PM	57343
Toluene	ND	0.047		mg/Kg	1	1/6/2021 4:29:32 PM	57343
Ethylbenzene	ND	0.047		mg/Kg	1	1/6/2021 4:29:32 PM	57343
Xylenes, Total	ND	0.094		mg/Kg	1	1/6/2021 4:29:32 PM	57343
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	1/6/2021 4:29:32 PM	57343

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **2101053**

Date Reported: **1/12/2021**

CLIENT: SIMCOE

Project: NEBU 231

Lab ID: 2101053-003

Matrix: SOIL

Client Sample ID: SS03 NE Corner

Collection Date: 12/31/2020 12:10:00 PM

Received Date: 1/5/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	350	60		mg/Kg	20	1/12/2021 12:58:24 PM	57484
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/6/2021 2:24:52 PM	57346
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2021 2:24:52 PM	57346
Surr: DNOP	90.7	30.4-154		%Rec	1	1/6/2021 2:24:52 PM	57346
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2021 6:03:26 PM	57343
Surr: BFB	100	75.3-105		%Rec	1	1/6/2021 6:03:26 PM	57343
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	1/6/2021 6:03:26 PM	57343
Toluene	ND	0.048		mg/Kg	1	1/6/2021 6:03:26 PM	57343
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2021 6:03:26 PM	57343
Xylenes, Total	0.19	0.097		mg/Kg	1	1/6/2021 6:03:26 PM	57343
Surr: 4-Bromofluorobenzene	97.6	80-120		%Rec	1	1/6/2021 6:03:26 PM	57343

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101053

12-Jan-21

Client: SIMCOE
Project: NEBU 231

Sample ID: MB-57484	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 57484	RunNo: 74555
Prep Date: 1/12/2021	Analysis Date: 1/12/2021	SeqNo: 2631760 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-57484	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 57484	RunNo: 74555
Prep Date: 1/12/2021	Analysis Date: 1/12/2021	SeqNo: 2631761 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 91.6 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101053

12-Jan-21

Client: SIMCOE
Project: NEBU 231

Sample ID: MB-57346	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 57346	RunNo: 74443								
Prep Date: 1/5/2021	Analysis Date: 1/6/2021	SeqNo: 2628118 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	30.4	154			

Sample ID: LCS-57346	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 57346	RunNo: 74443								
Prep Date: 1/5/2021	Analysis Date: 1/6/2021	SeqNo: 2628119 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	68.9	141			
Surr: DNOP	5.3		5.000		107	30.4	154			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101053

12-Jan-21

Client: SIMCOE
Project: NEBU 231

Sample ID: mb-57343	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 57343	RunNo: 74434								
Prep Date: 1/5/2021	Analysis Date: 1/6/2021	SeqNo: 2627830 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	75.3	105			

Sample ID: lcs-57343	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 57343	RunNo: 74434								
Prep Date: 1/5/2021	Analysis Date: 1/6/2021	SeqNo: 2627831 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.5	106			
Surr: BFB	1100		1000		111	75.3	105			S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2101053

12-Jan-21

Client: SIMCOE
Project: NEBU 231

Sample ID: mb-57343	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 57343	RunNo: 74434								
Prep Date: 1/5/2021	Analysis Date: 1/6/2021	SeqNo: 2627869	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID: LCS-57343	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 57343	RunNo: 74434								
Prep Date: 1/5/2021	Analysis Date: 1/6/2021	SeqNo: 2627870	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	80	120			
Toluene	0.98	0.050	1.000	0	97.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.3	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **SIMCOE/Cottonwood Consulting**

Work Order Number: **2101053**

RcptNo: 1

Received By: **Cheyenne Cason** 1/5/2021 7:50:00 AM

Completed By: **Emily Mocho** 1/5/2021 8:17:00 AM

Reviewed By: **DAD 01/05/21**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: SGL 1/5/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: <u>Symco LLC</u>	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush _____	
Mailing Address: <u>Bill to IKA Energy</u>	Project Name: <u>NEBU 231</u>	
<u>1199 Main St. Ste 101</u>	Project #: <u>TBD</u>	
<u>Durango CO 81301</u>	Project Manager: <u>Steve Marshall</u>	
Phone #: <u>505-330-9179</u>		
email or Fax#: <u>smars@ikaenergy.com</u>		
QA/QC Package:		
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		
Accreditation: <input type="checkbox"/> Az Compliance	Sampler: <u>1111</u>	
<input type="checkbox"/> NELAC <input type="checkbox"/> Other _____	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> EDD (Type) _____	# of Coolers: (_____)	

☒ Standard ☐ Rush

NEBU 231

TBD


Steve M. Aul

On Ice: ☒ Yes ☐ No

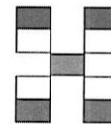
Cooler Temp (including CF): $3.6 - 0.2 = 3.4$ ($^{\circ}\text{C}$)Preservative
Type

2101953

[illegible]

Date:	Time:	Relinquished by:
12/31/20	1430	
Date:	Time:	Relinquished by:
1/4/21	1753	Christa Wack

Received by:	Via:	Date	Time
Christa Webb		12/31/2020	1430
Received by:	Via:	Date	Time
Eric Connor		1/5/21	0730



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:	
----------	--

Seal intact one 1/5/21