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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) **54**	Volume Recovered (bbls) **40**
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ 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.*****

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ 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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: **Steve Moskal** Title: **Environmental Coordinator**

Signature: _____ Date: **1/12/2021**

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

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release? **Depth to water determined using SJ 03426 well permit.**	420 (ft bgs)
Did this release impact groundwater or surface water? **DTW ~420'; Surface drainage ~490' north.**	☐ Yes ☒ 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.**	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? **None identified.**	☐ Yes ☒ 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.**	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? **None identified within 500'.**	☐ Yes ☒ 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.**	☒ Yes ☐ No ☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? **None identified.**	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland? **None identified.**	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine? **None identified.**	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology? **None identified.**	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain? **None identified.**	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data **- Not Applicable**
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs **- Not Applicable**
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the 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: Date:

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: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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: Date:

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: Jennifer Nobui Date: 02/07/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

SIMCOE LLC

Northeast Blanco Unit 231

Incident #: TBD **API #: 30-045-33215**

Unit F, Sec. 14, T31N, R07W **Federal Lease #: SF03356**

Producd 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

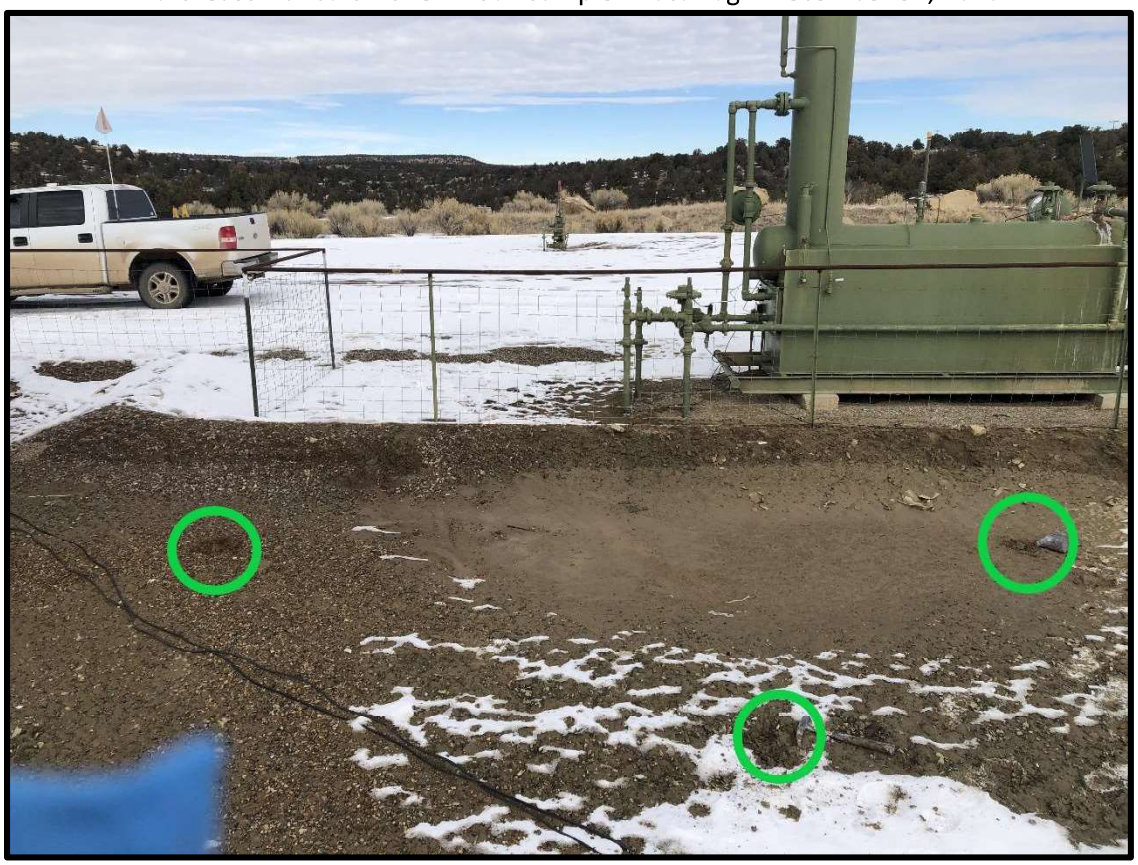


Photo 3 – SS03 Composite soil sample locations.

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.

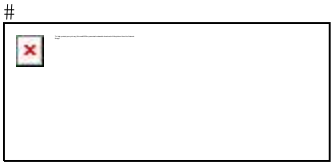
Gary,

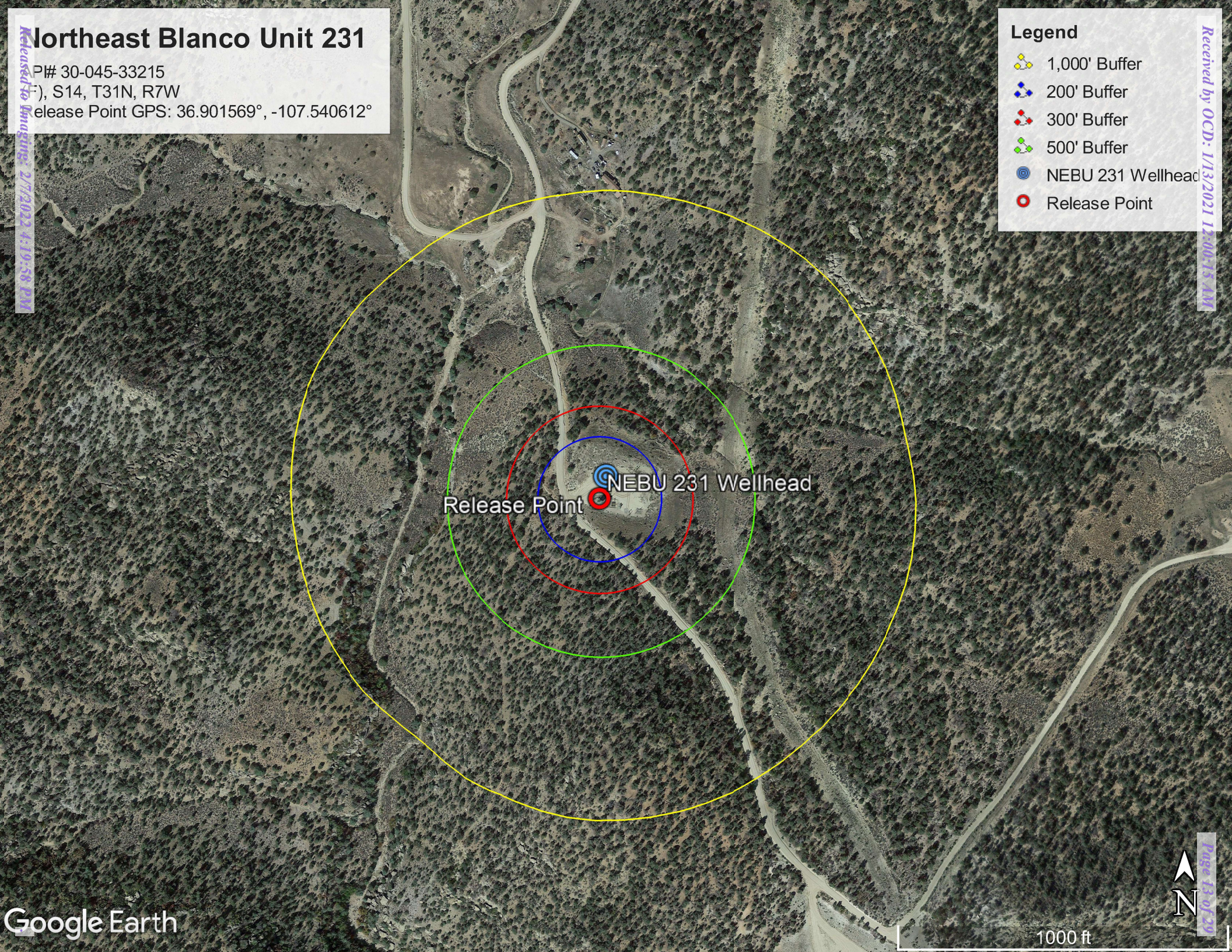
This location is on BLM surface and this communication acts as a courtesy notification and notice of potential close sampling.

Please contact me with any questions.

Vwhyh#P rvndo/#DVS
Environmental Coordinator
IKAV Energy Inc.

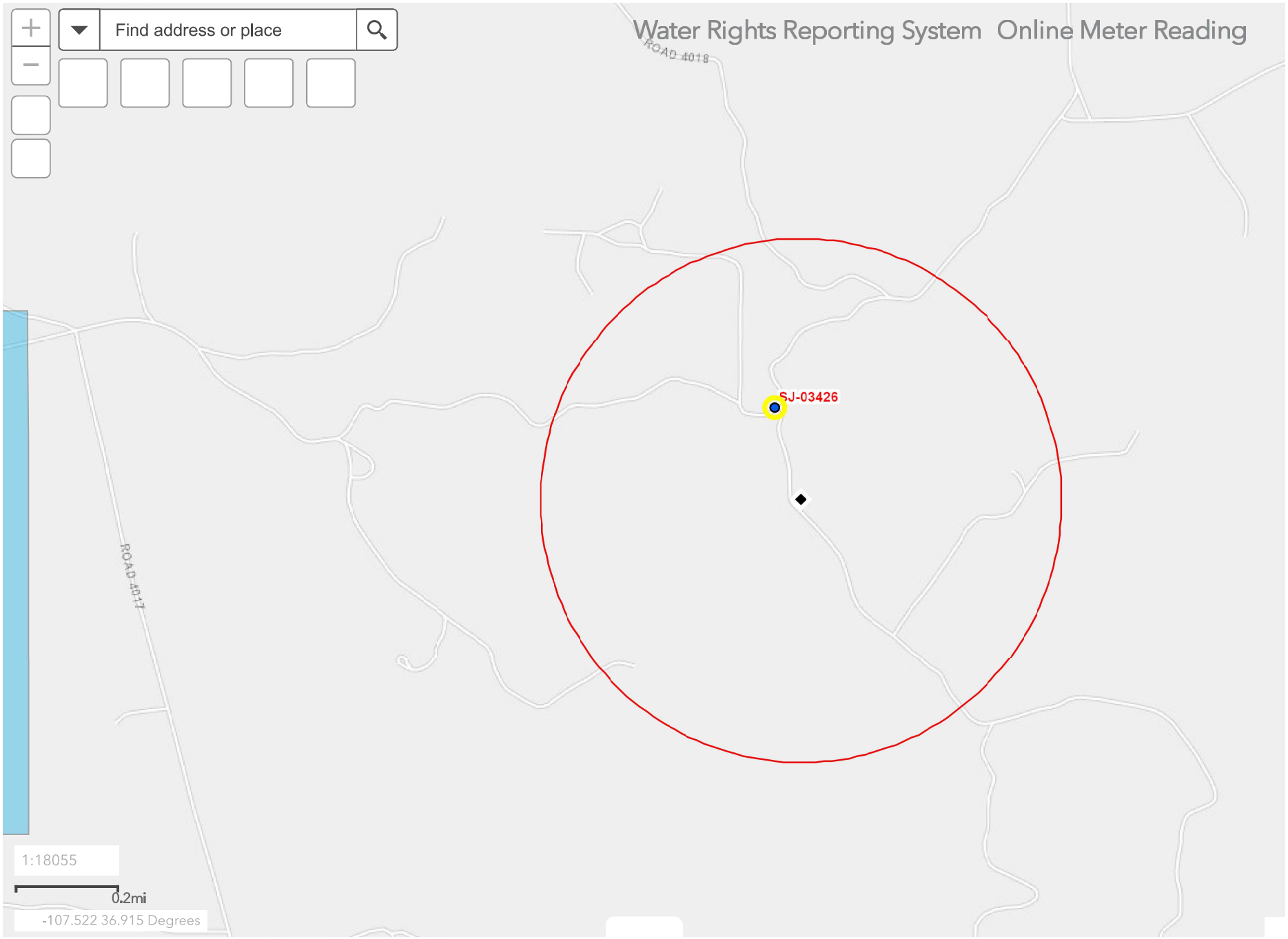
1199 Main Ave Suite #101
Durango CO 81301
DIRECT: 505-330-9179
SMoskal@IKAVENERGY.COM
#
#




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
NEBU 231 Wellhead
Release Point
Released to Imaging: 2/7/2022 4:19:58 PM
Received by OCD: 1/13/2021 12:00:15 AM
Page 13 of 29
N
1000 ft
Google Earth

OSE POD Locations

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



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) 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**

Revised June 1972

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. _____ ¼ SE ¼ NE ¼ NW ¼ 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 [X] shallow [ ] artesian. Depth to water upon completion of well 420 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

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

04 DEC 19 PM 2:46

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
5	12.92	WELD	0	540	540	DRILLDEX 6	20 460	60 480
							500	540

Section 4. RECORD OF MUDDING AND CEMENTING

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

STATE OFFICE AZTEC 03 DEC 19 AM 9 29

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:
_____
State Engineer Representative

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

NEW MEXICO OIL CONSERVATION DIV. 2003 DEC 19 AM 9 29

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

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	490	490	SAND AND SHELL
490	500	10	RED CLAY
500	540	40	SAND

Section 7. REMARKS AND ADDITIONAL INFORMATION

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

Don 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.

HC5-2133
#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 ¼ NE ¼ NW ¼ of Sec. 14 Twp. 31N Rge. 7W NMPM, 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):

X One household, non-commercial trees, lawn and garden not to exceed one acre.

X Livestock watering.

___ More than one household, non-commercial trees, lawns and gardens not to exceed a total of one acre.

___ 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 lawns 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: _____

'03 OCT 10 PM 4 24
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

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

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2101053**
Date Reported: **1/12/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE
Client Sample ID: SS01 W of Tank
Project: NEBU 231
Collection Date: 12/31/2020 12:00:00 PM
Lab ID: 2101053-001 **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	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2101053**
Date Reported: **1/12/2021**

Hall Environmental Analysis Laboratory, Inc.

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2101053**
Date Reported: **1/12/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE
Client Sample ID: SS03 NE Corner
Project: NEBU 231
Collection Date: 12/31/2020 12:10:00 PM
Lab ID: 2101053-003 **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	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 Quanitative 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 Quanitative 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 Quanitative 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 Quanitative 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 Quanitative 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

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° 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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes			

Chain-of-Custody Record

Client: Simcoe LLC

Bill to IKAV Energy

Mailing Address: 1199 Main St. Ste 101

Durango Co 81301

Phone #: 505 330 9179

email or Fax#: SMostad@IKAVEnergy.com

QA/QC Package:

☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: NEBU 231

Project #: TBD

Project Manager: Steve Mostad

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.6 -0.2 = 3.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2101053	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride 300.0
12/31/20	11:00	soil	SS01 W of Tank	4oz x1	Cool	001	X	X									X
↓	12:05	↓	SS02 E of Tank	↓	↓	002	X	X									X
↓	12:10	↓	SS03 NE corner	↓	↓	003	X	X									X

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/31/20	1430		Christa Waek		12/31/2020	1436
1/4/21	1753	Christa Waek	Eric Carr		1/5/21	0750

Remarks: Seal intact cmc 1/5/21

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 14560

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 14560
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	None	2/7/2022