

State of Colorado  
Oil and Gas Conservation Commission

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Document Number:

402966316

Date Received:

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## CUMULATIVE IMPACTS DATA IDENTIFICATION

Per Rule 303, this form and all required components and attachments will be submitted for any Oil and Gas Development Plan.

Form Type: ☒ OGD ☐ Partial 2B - Rule 803.b.(2).A UIC Conversion

## OPERATOR INFORMATION

OGCC Operator Number: 10651	Contact Name and Telephone:
Name of Operator: VERDAD RESOURCES LLC	Name: Heather Mitchell
Address: 1125 17TH STREET SUITE 550	Phone: (720) 845-6917
City: DENVER State: CO Zip: 80202	Email: regulatory@verdadresources.com

## OIL &amp; GAS DEVELOPMENT PLAN INFORMATION

Oil & Gas Development Plan Name: Harambe 2920  
Oil & Gas Development Plan Docket #: Oil & Gas Development Plan ID #:

Docket Number

220500103

Data not required

☐ This OGD is included in a Comprehensive Area Plan. CAP ID #: \_\_\_\_\_

## OIL &amp; GAS LOCATION DATA

1 Oil &amp; Gas Location Name: Kiwi Number: 2920 Status: Proposed

## OIL &amp; GAS LOCATION INFORMATION

Form 2A Doc#: 402966313

Loc ID#: \_\_\_\_\_

Oil &amp; Gas Location: QTRQTR: SWNE Sec: 32 Twp: 2N Rng: 64W Meridian: 6

Total number of wells planned: 9

## Operations Duration

Estimated total number of weeks to construct this Oil &amp; Gas Location: 2

Estimated total number of weeks to drill all planned wells for this Oil &amp; Gas Location: 7

Number of planned drilling occupations to drill all planned wells for this Oil &amp; Gas Location: 1

Estimated total number of weeks to complete all planned wells for this Oil &amp; Gas Location: 8.5

Number of planned completions occupations to complete all planned wells for this Oil &amp; Gas Location: 1

Will there be simultaneous drilling and completions operations occurring at this Oil &amp; Gas Location? No

Estimated total number of months the Oil &amp; Gas Location will be active, prior to abandonment and reclamation: 360

## Noise Impacts

Provide a qualitative evaluation of the incremental adverse noise impacts to the surrounding receptors during the pre-production activities at this Oil &amp; Gas Location.

There is one residential building units within 2000' of WPS and this is not in HPH.

This location is near urban according to Weld County Code and noise standards will be applied pursuant to 21-5-435: NL-3 for construction operations.

Provide a qualitative evaluation of the incremental adverse noise impacts to the surrounding receptors during the production stage of this Oil & Gas Location.

An Ambient sound study will be conducted if requested. Sound walls will be installed on all sides of the location. Verdad has moved the equipment and wellheads away from the RBU and moved the location away from the HPH. Sound will increase in the area during construction operations, mitigation measures will be utilized to minimize incremental impact.

**Light Impacts**

Provide a qualitative evaluation of the incremental adverse light impacts to the surrounding receptors during the pre-production activities at this Oil & Gas Location.

There is one residential building units within 2000' of WPS and this is not in HPH. This location is subject to 12 lumens per sq. foot light restriction pursuant to Weld County Code 21-5-405 during construction operations.

Provide a qualitative evaluation of the incremental adverse light impacts to the surrounding receptors during the production stage of this Oil & Gas Location.

Sound walls will be installed on all sides of the location. Verdad has moved the equipment and wellheads away from the RBU and moved the location away from the HPH. Light will increase in the area during construction operations, mitigation measures will be utilized to minimize incremental impact.

**Odor Impacts**

Provide a qualitative evaluation of the incremental adverse odor impacts to the surrounding receptors during the pre-production activities at this Oil & Gas Location.

There is one residential building units within 2000' of WPS and this is not in HPH.

Provide a qualitative evaluation of the incremental adverse odor impacts to the surrounding receptors during the production stage of this Oil & Gas Location.

Verdad has moved the equipment and wellheads away from the RBU and moved the location away from the HPH. Odor will increase in the area during construction operations, mitigation measures will be utilized to minimize incremental impact.

**WATER RESOURCES**

☒ This Oil & Gas Location is listed as a sensitive area for water resources.

☐ This Oil & Gas Location is within 2,640 feet of a surface Water of the State.

Estimated depth to groundwater: 500

Estimated total planned on-location storage capacity of the Oil & Gas Location for:

	Number of Tanks	Total Volume (bbls)
Oil	<u>2</u>	<u>800</u>
Condensate	<u>0</u>	<u>0</u>
Produced Water	<u>8</u>	<u>3200</u>
Other volumes of stored fluids, hydrocarbons, chemicals, or E&P Waste Fluids	<u>2</u>	<u>7</u>

List, with volumes, the "Other" fluids planned to be stored on the Oil & Gas Location, including, but not limited to: hydrocarbons, chemicals, or E&P Waste fluids.

3.5 bbls of emulsion breaker, 3.5 bbls of methanol.

**Potential Impacted Surface Water Resources**

Provide the distance and direction of the contaminant migration pathway from the Oil & Gas Location to the nearest downstream riparian corridors, wetlands, and surface Waters of the State. Also provide an evaluation of the baseline condition of the nearest downstream riparian corridors, wetlands, and surface Waters of the State.

Enter 2,640 for distances greater than 1/2-mile. Distances are measured along the migration pathway, not a straight line from the edge of the Oil & Gas Location.

	Distance	Direction	Evaluation of Baseline Condition
Riparian Corridor	<u>550</u>	<u>SW</u>	Riparian corridor is an approximately 115' buffer surrounding Jim Creek. The corridor is composed predominately of Russian olives and Cottonwood trees with Canada thistle, dry grasses, and few shrubs covering the ground.

Wetland 610 S Wetland is the northernmost De Remer Lake of the Banner Lakes State Wildlife Area. The lake had standing water with sandy banks. Vegetation: cattails , Russian olives , Cottonwood trees, Canada thistle, and Kochia .

Surface Waters of the State 610 S De Remer Lake of the Banner Lakes State Wildlife Area 610' . Vegetation: cattails, Russian olives, Cottonwood trees, Canada thistle, and Kochia.

#### Potential Impacts to Public Water Resources

Provide the distance, direction, and evaluation of potential impacts to the nearest Public Water System Intake. Enter 5,280 for distances greater than 1-mile.

Distance Direction Evaluation of Baseline Condition

Public Water System Intake 5280 W No impacts

#### Estimated Water Usage

Provide the estimated total volumes of the following that are anticipated to be used during the drilling and completions stage of the Oil & Gas Location activity.

Water Source	Volume (bbls)		Volume (bbls)		Volume (bbls)		
Surface Water	0	Recycled Water (Produced Water)	0	Unspecified Source	0	Percentage	0 %
Ground Water	2823700	Recycled Water (non-Produced Water)	0	Total Water Usage	2823700	Recycled Water	
					0		

If an unspecified water source is planned to be used, provide a description of the source.

n/a

Evaluate the measures being taken to reduce freshwater use, including reusing and recycling produced water.

Verdad does not have the infrastructure to properly store and transport produced water for completions operations.

#### ECOSYSTEM & WILDLIFE RESOURCES

List High Priority Habitats (HPH) that occur within one mile of the Oil & Gas Location and list the distance from working pad surface. If the location is partially or entirely within a HPH list the distance as '0' and provide the estimated acreage disturbance of that HPH by the location construction.

High Priority Habitat (HPH) Name:	Distance	Estimated Acreage Disturbed
Aquatic Sportfish Management Waters	160	0
Mule Deer Migration Corridor	5250	0

List total size of disturbed acreage and disturbed High Priority Habitat (HPH) area (in acres) during the Oil & Gas Location construction and after interim reclamation.

	Total Acreage (acres)	Total HPH Acreage (acres)	Provide any further information regarding the location's HPH disturbance.
Construction	0	0	No Disturbance in HPH
Post-interim Reclamation	0	0	

Provide the acreage of the existing land use types that occur within one mile of the Oil & Gas Location. Note: a circle with a one mile radius is approximately 2010 acres.

	Existing Acreage	Existing Acreage	Existing Acreage	Existing Acreage
Crop Land: Irrigated	1305	Non-Irrigated		Conservation Reserve Program(CRP)
Non-Crop Land: Rangeland	230	Forestry		Recreation
Subdivided: Industrial	20	Commercial	100	Residential
				215
				Other
				130

If any land use is industrial, provide a description of the use or operation of the industrial facilities.

O&G facilities

If any land use is "Other", provide a description of the land use.

CDOT roads and mapped canals

If any portion of the land use for the proposed oil and gas location includes Rangeland, Forestry, or Recreation, provide a list of the plant community or communities and estimated acreage disturbed for each:

	Estimated Disturbed Acreage		Estimated Disturbed Acreage		Estimated Disturbed Acreage		Estimated Disturbed Acreage
Disturbed Grassland	2	Shrub Land	0	Mountain Riparian	0	Wetland Aquatic	0
Native Grassland	0	Plains Riparian	0	Forest Land	0	Alpine	0

Provide a qualitative evaluation of incremental adverse impacts to ecosystems, including any plant communities, as a result of Oil and Gas Operations associated with the proposed Oil & Gas Location.

Vegetation will be cleared as a result of the oil and gas location. It will impact will be the loss of native habitat, fragmentation of habitat, soil erosion and soil compaction and increased sediment. Measures will be implmented to reduced impact.

#### Soil Resources

List all soil map units that occur within the Oil & Gas Location and list the estimated total area (in acres) disturbance of each soil map unit.

NRCS Map Unit Name:	Estimated Disturbed Acreage
NRCS- 15 Colby Loam 1-3 percent slopes	5.65
NRCS-16 Colby Loam 3-5 percent slopes	4.35

#### PUBLIC WELFARE

☐ This Oil & Gas Location lies within a Disproportionately Impacted Community as defined in the 100-series rules.

#### Building Units within 1-mile

0'-2,000' 2,001'-5,280'

Total number of Residential Building Units:	1	28
Total Number of non-school AND non child care center High Occupancy Building Units:	0	0
Total number of School Facilities:	0	0
Total number of Child Care Centers:	0	0

#### Recreation and Scenic Value

List all State Parks, State Trust Lands, or State Wildlife Area within 1-mile of the Oil & Gas Location.

State Wildlife area is south of the location

List all Designated Outdoor Activity Areas within 1-mile of the Oil & Gas Location.

n/a

List all mapped trails that support any of the following recreational activities within 1-mile of the Oil & Gas Location: Hiking, Biking, Horseback Riding, Motorcycle Riding, ATV Riding, OHV, Nordic Skiing, Snowmobiling, or Snowshoeing.

n/a

#### AIR RESOURCES

##### Pre-Production Emissions

Complete the following chart based on the estimated total equipment emissions (in tons) for the Oil & Gas Location during the pre-production (construction, drilling, completions) stage for Criteria Pollutants by equipment type.

	NOx	CO	VOCs	Methane	Ethane	CO2	N2O
Process Heaters or Boilers	0.055	0.014	0.00094	0.0081	0.0021	198.8	0.0016
Storage Tanks	0.0068	0.031	0.17	0.0058	0.05	0.22	2.2E-05
Venting or Blowdowns	0	0	0	0	0	0	0
Combustion Control Devices	0.015	0.012	0.0008	0.00034	0.00029	17.68	0.00032
Non-Road Internal Combustion Engines	18.68	17.25	2.46	26.62	6.845	5046.17	0.027
Drill Mud	0	0	0.03	0	0	0	0
Flowback or Completions	0.123	0.56	1.97	1.32	0.71	3.3	0.0004
Loadout	0.00037	0.0017	0.18	0.00032	0.0027	0.17	1.2E-06

##### Production Emissions

Complete the following chart based on the estimated full facility equipment emissions (in tons) for the Oil & Gas Location once the Oil &

Gas Location has entered the production stage, for Criteria Pollutants. The table should be filled out based on ONE year of operation.

	NOx	CO	VOCs	Methane	Ethane	CO2	N2O
Stationary Engines or Turbines	12.67	25.34	8.87	60.87	17.52	5356.25	0.0107
Process Heaters or Boilers	2.95	2.48	0.16	0.068	0.059	3542.65	0.065
Storage Tanks	0.12	0.42	1.17	0.69	0.5	9.54	7E-05
Dehydration Units	0	0	0	0	0	0	0
Pneumatic Pumps	0	0	0	0	0	0	0
Pneumatic Controllers	0	0	0	0	0	0	0
Separators	0.1	0.47	2.41	0.3	0.69	1.47	0.00033
Fugitives			0.23	0	0	0	
Venting or Blowdowns	0.0123 8039	0.0564 40013	1.65	0.44	0.37	0.125	0.005
Combustion Control Devices	0.034	0.029	0.0019	0.00079	0.00069	41.29	7.6E-05
Loadout	0.0011	0.0052	1.17	0.0013	0.011	0.16	5E-06
Non-Road Internal Combustion Engines	0	0	0	0	0	0	0
Well Bradenhead	0	0	0.23	0.15	0.082	0.018	0
Well Maintenance	0	0	0	0.24	0.13	0.029	0

#### Diesel Vehicle Road Miles

Complete the following chart for diesel vehicle road miles during each stage of oil and gas location operations.

During Construction:	2600	During Completions:	4820
During Drilling:	5775	During Interim Reclamation:	160
During Production:	7357		

### PUBLIC HEALTH RESOURCES

#### Pre-Production Emissions

Complete the following chart based on the estimated total equipment emissions (in lbs) for the Oil & Gas Location during the pre-production (construction, drilling, completions) stage for Hazardous Air Pollutants (HAP).

	BEN	TOL	ETH	XYL	NHE	TMP	H2S	FDE	MET	HAP
Process Heaters or Boilers	0.0012	0.034	0.000 35	0.000 6	0	0	0	0.18	0	0.22
Storage Tanks	0.51	0.39	0.033	0.1	5.05	0.026	0	0	0	6.11
Venting or Blowdowns	0	0	0	0	0	0	0	0	0	0
Combustion Control Devices	0.0033	0.0032	0.000 52	0.001 4	0.034	2.7E- 05	0	0	0	0.042
Non-Road Internal Combustion Engines	763.03	327.07	0	219.6 1	0	0	0	1723. 89	0	3033.6
Drill Mud	0.0005 99964 00215 987	0.0005 99964 00215 987	0.0119 99280 04319 74	0.011 99928 00431 974	0	0.0479 97120 17278 96	0	0	0	0.073
Flowback or Completions	8	0.0039	0.000 63	0.001 7	0.041	3.3E- 05	0	0	0	8.05
Loadout	0.027	0.021	0.001 8	0.005 5	0.27	0.0014	0	0	0	0.33

#### Production Emissions

Complete the following chart based on the estimated total equipment emissions (in lbs) for the Oil & Gas Location once the Oil & Gas Location has entered the production stage, for Hazardous Air Pollutants (HAP). The table should be filled out based on ONE year of operation.

	BEN	TOL	ETH	XYL	NHE	TMP	H2S	FDE	MET	HAP
Stationary Engines or Turbines	153.87	54.34	2.42	18.99	0	0	0	950.8 6	298	1478.4 8

Process Heaters or Boilers	0.66	0.64	0.104	0.28	6.79	0.0025	0	0	0	8.48
Storage Tanks	35.44	20.69	1.68	4.2	153.3	0.088	0	0	0	215.41
Dehydration Units	0	0	0	0	0	0	0	0	0	0
Pneumatic Pumps	0	0	0	0	0	0	0	0	0	0
Pneumatic Controllers	0	0	0	0	0	0	0	0	0	0
Separators	11.36	10.91	1.11	3.57	110.96	0.67	0	0	0	138.58
Fugitives	0.63	0.54	0.062	0.18	6.24	0	0	0	0	7.65
Venting or Blowdowns	20.24	15.77	1.31	4.02	201.86	1.05	0	0	0	244.25
Combustion Control Devices	0.0077	0.0075	0.00122	0.0033	0.0079	6.4E-05	0	0	0	0.099
Non-Road Internal Combustion Engines	0	0	0	0	0	0	0	0	0	0
Loadout	3.51	2.74	0.023	0.07	3.5	0.0182	0	0	0	9.86
Well Bradenhead	0.92	0.89	0.14	0.39	9.42	0.0076	0	0	0	11.76
Well Maintenance	1.46	1.41	0.23	0.62	15	0.012	0	0	0	18.73

Provide a qualitative evaluation of any potential acute or chronic, short- or long-term incremental impacts to public health as a result of the estimated total pre-production hazardous air pollutant emissions.

The location of the Harambe 2920, has wells and equipment that are greater than 2000' from any residential building unit. In addition to distance from residential building units, operations at the Harambe 2920 will use emission reduction practices to ensure that preproduction emissions from the location will be much lower that of the hypothetical high emission rate facilities used in the Study. The Harambe 2920 wells will use low emission drilling mud, a gas buster on the closed loop mud system to control any gas while drilling, emission controlled flowback process including controlled flowback tanks, and produced gas sent to sales as soon as it is produced to eliminate prolonged flowback flaring. Due to the distance from residential building units and the emission reduction practices to be employed, we estimate no public health impacts will exist. To confirm there are no public health impacts from facility emissions, perimeter ambient air monitoring for VOC and HAPs will be employed for the duration of pre-production operations

Provide a qualitative evaluation of any potential acute or chronic, short- or long-term incremental impacts to public health as a result of the estimated annual production hazardous air pollutant emissions.

The location of the Harambe 2920, has wells and equipment that are greater than 2000' from any residential building unit. In addition to the distance from residential building units, the Harambe Facility is designed to minimize emissions and will ensure that pre-production emissions from the location will be much lower that of the hypothetical high emission rate facilities used in the Study. There will be three stages of liquid production pressure drop controlled by Vapor Recovery Units (VRU) prior to any liquids enter tanks. These pressure drops with VRUs minimize emissions from flash vapors created from liquids in atmospheric tanks. These vapors in storage tanks are controlled in tanks that use auto-gauging to eliminate opening the thief hatches for loadout. The facility will also have instrument air driven pneumatics to eliminate any emissions from pneumatic controllers on the facility. Fugitive leaks will be minimized with a robust preventative maintenance program and frequent infrared gas detection camera inspections. Due to the distance from residential building units and the emission reduction practices to be employed, we estimate no public health impacts will exist. To confirm there are no public health impacts from facility emissions, perimeter ambient air monitoring for VOC and HAPs will be employed when production operations begin for at least 6 months.

#### Dust Impacts

The following are the estimated number of truck trips traveling on or off the Oil & Gas Location.

Total	During Construction	During Drilling	During Completions	During Interim Reclamation	During Production
Monthly	728	2230	2689	96	1081
Annual	728	2230	2689	96	3831
Estimated total pounds (lbs) of proppant to be used during completions activities.				1315860	00

Provide the type of proppant(s) that are planned to be used during completions activities.

100 mesh and 40/70 White sand

Provide an evaluation of the proposed proppant management system that will be used to minimize dust during completions activities, including the estimated amount of silica dust that will leave the Oil & Gas Location.

A sandbox system is used that gravity feeds directly into the frac blender reducing dust to almost nothing, very minimal if any would migrate off the pad.

**EXISTING OIL & GAS**

Total number of oil &amp; gas locations within 1-mile of the Oil &amp; Gas Location:

	Total Number of Locations		Total Number of Wells
Active, built	5	Active, built	25
Permitted by COGCC, unbuilt	0	Permitted by COGCC, unbuilt	0
Permitted by Relevant Local Government & not COGCC, unbuilt	0	Proposed	0
Proposed	0	Plugged and Abandoned	2

Total acreage disturbance during construction of the active and proposed oil & gas locations within 1-mile of the proposed Oil & Gas Location: 36

Source for acreage total:

- ☐ Field Observation/Measurement
- ☒ COGCC Location Files
- ☐ Aerial Photos/Other
- ☐ Other

If "Other" is selected, please describe the source use to determine the acreage total for construction disturbance of the active and proposed oil &amp; gas locations within 1-mile of the proposed Oil &amp; Gas Location.

Total permitted capacity of on-location storage (in number of pits and tanks) of the active and proposed oil & gas locations within 1-mile of the Oil & Gas Location :

NOTE: providing the existing number of pits and tanks on surrounding existing locations is optional.

Source for storage totals:

- ☐ Field Observation/Measurement
- ☒ COGCC Location Files
- ☐ Aerial Photos/Other
- ☐ Other

	Permitted Onsite Storage Capacity	Existing Onsite Storage Capacity
Oil	76	30400
Condensate	0	0
Produced Water	18	7200
Pits	0	0

If "Other" is selected, please describe the source use to determine the tank totals for the active and proposed oil &amp; gas locations within 1-mile of the proposed Oil &amp; Gas Location.

**OIL & GAS DEVELOPMENT PLAN-SCALE DATA**

List High Priority Habitats (HPH) that are estimated be disturbed by the construction of new roads, including access roads, pipelines, and utilities for this OGD, along with the estimated disturbed acreage of each HPH.

No HPH Identified

List the total estimated of disturbed acreage and the total disturbed High Priority Habitat (HPH) area (in acres) during construction and the acreage that will remain disturbed after interim reclamation of the following for the entire OGD:

	Construction			Post-interim Reclamation	
	Total Acreage (acres)	Total HPH Acreage (acres)		Total Acreage (acres)	Total HPH Acreage (acres)
New roads, including access roads	0	0	New roads, including access roads	0	0
Pipelines	0	0	Pipelines	0	0

Utilities 0 0Utilities 0 0

Provide any further information regarding the HPH disturbance from the construction of new roads, including access roads, pipelines, and utilities for this OGDG.

Number of miles of the existing lease road that are planned to be used to access these location(s): 0

### **BENEFICIAL IMPACT INFORMATION**

#### **Equipment and Facility Removal**

Total number of existing wells that are planned to be plugged and abandoned as part of this OGDG: 8

Total number of existing locations that are planned to be closed and undergo final reclamation as part of this OGDG: 0

Total number of acres that are planned to be reclaimed through the closing of existing locations: 0

Total number of existing pits that are planned to be closed and undergo final reclamation as part of this OGDG: 0

Estimated number of vehicle trips that are planned to be prevented from the above mentioned facility closures and equipment upgrades (on an annual basis): 0

Total number of tanks planned to be removed from existing locations through the approval of this OGDG:

Oil Tanks: 0

Condensate Tanks: 0

Produced Water Tanks: 0

Provide a qualitative evaluation of any incremental beneficial impacts to the surrounding community directly and indirectly from this OGDG.

This location will produce oil and natural gas which is affordable energy sourced and produced efficiently, locally in one of the safest and most environmentally sound manners anywhere in the country or the world. That matters, particularly if the alternative is relying on energy produced by countries with poor labor standards and environmental practices.

Because this is locally sourced product the local community will benefit by the local jobs created to produce this resource.

Taxes from this project will benefit the surrounding community. Colorado's oil and natural gas industry is one of the state's largest taxpayers. Colorado's oil and natural gas taxes are paid primarily through three mechanisms: the local ad valorem tax (assessed by each county and various local municipal taxing authorities), the state severance tax, and the state conservation mill levy. All of these taxes will benefit the surrounding community. Colorado's Oil and natural gas tax system is designed to keep a majority of tax revenues in the communities where development occurs, through what is called a local ad valorem property tax. Roughly 70 to 80 percent of the industry's tax obligation goes to local governments, school districts, fire districts, sanitation districts, water districts and a variety of other local taxing entities. In addition, half of the state severance tax obligation goes back to local governments through the mineral impact grant program.

Oil and natural gas are an integral part of our everyday lives, and it is not only the gasoline we put in our cars or the natural gas that heats our homes or businesses. Oil and natural gas are used in everyday products such as lipstick and deodorant and life-saving

medical devices, such as MRI machines and pacemakers. Byproducts from oil refining is used to produce plastics, as well as lubricants, waxes, tars and even asphalt for our roads. Nylon, polyester, and many types of fabrics we use that allow us to camp, recreate, and enjoy the outdoors are all made possible by oil and natural gas. In fact, all forms of transportation including the manufacturing of planes, trains, cars, boats, bikes, scooters, skateboards, and even electric cars require oil and natural gas products and components. Notably, petroleum products are widely used throughout the healthcare industry, from the operating room to those items that support healthy living in our modern society. That includes important lifesaving products and equipment such as pacemakers, MRI machines, IV bags and tubes, surgical instruments, monitors, and stethoscopes. It also includes items that can be critical to daily life, such as prosthetics, hearing aids, glasses, and contact lenses. Chemicals derived from petroleum also help make soaps, antiseptics, aspirin, and lifesaving pharmaceuticals used by emergency care doctors and physicians.

Provide a qualitative evaluation of any incremental beneficial impacts to the surrounding wildlife and ecosystems directly and indirectly from this OGDG.

The OGDG will have require approximately 4 wells be reentered or cement remediated for offset well requirements for the Kiwi location and 4 for the the Georgene location.

### **MITIGATION INFORMATION**

Item	Impacted Resource	Mitigation Description
1	Water Resources	Avoidance of wetlands and riparian areas. Secondary tank containment and tertiary containment for the pad location
2	Soil Resources	Stormwater and erosion control best management practice implemented on location and road



3	Air Resources	Robust preventative maintenance program and frequent infrared gas detection camera inspections. Vapor Recovery Units to minimize flash vapors. Auto-gauging to eliminate thief hatch openings during loadouts. Instrument air driven pneumatics eliminate emissions from pneumatic controllers
4	Public Welfare	Wells and production equipment are sited greater than 2000' from any residential building unit and is not in densely populated area
5	Ecosystem and Wildlife Resources	Location is sited outside any sensitive habitat and is located on crop land.

**OPERATOR COMMENTS AND SUBMITTAL**

Print Name: Mitchell, Heather

Title: Regulatory Manager

Email: HMitchell@verdadresources.com

Date: 05/25/2022

Based on the information provided herein, this Cumulative Impacts Data Identification Form 2B complies with COGCC Rules and is hereby accepted into the Cumulative Impacts Data Evaluation Repository (CIDER database).  
Contact OGLA Staff for consultation.

COGCC Approved: 

**Director of COGCC**

Date: 12/15/2022

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402966316	Form 02B SUBMITTED
403044412	OTHER

Total Attach: 2 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Per Commission request during the November 16, 2022 Hearing of the Harambe 2920 Oil and Gas Development plan and as documented in Order No. 407-3403, Verdad Resources, LLC has requested to change the name of the Oil and Gas Development Plan from the Harambe 2920, as originally submitted, to the Kiwi 2920. COGCC Staff has changed the name where referenced in this Form 2B per email confirmation from Verdad Resources, LLC.	12/14/2022
OGLA	OGDP ID# 482695 and this Form are approved by Commission Order Number 407-3403.	12/07/2022
OGLA	The Director has determined this OGDP application is complete. Form pushed to IN PROCESS.	08/09/2022

Total: 3 comment(s)