COGCC Interim Form 2B: Cumulative Impacts Data Identification Introduction, Definitions, & Filling It Out

Operator Training

January 19, 2021 Revised January 21, 2021





Department of Natural Resources

<u>Overview</u>

- Interim Form 2B Instructions
 - What it is
 - How to use it
 - How to submit it
- Form 2B Important Definitions
 - Estimate
 - At time of submittal
 - Describe versus Evaluate
 - Minimize versus Mitigate
- Form 2B How to fill it out
 - Text Boxes & Tables (Interim Form 2B)
 - Sections: Location Scale Data versus OGDP Scale Data (eForms & Interim Form 2B)
 - Following Instructions (eForms & Interim Form 2B)



COLORADO Oil & Gas Conservation Commission Department of Natural Resources

Thank you

- Melissa Housey
- Greg Deranleau, John Noto, Sabrina Trask
- Our partners at CPW
- Our partners at CDPHE, particularly APCD

Answers to Form 2B questions may need to be redirected to multiple people in multiple agencies to get the most complete answer to a given question...please be patient

Stephen Schwarz



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Interim Form 2B - what is it

- Until the Form 2B is finished going through development, testing, and release in eForms, an "Interim Form 2B" will be used
- The Interim Form 2B is an Excel spreadsheet based on the Form 2B Checklist
 - Form 2B Checklist will be released closer to the Form 2B eForms release
- Spreadsheet mirrors the layout and tabs as they will be in the eForms version

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	A B	с	D	E	F G H I J K L M N O P Q R S T A
1	Inter	im Form 2B Version: Januar			
2			Contact & Plan Information Tab		
3	Ref	# Form 2B Field	What is this?	Operator Answer	
4	1	Contact Name (First Name)			"Chocklist" style format
5	2	Contact Name (Last Name)	The name and contact information for		"Checklist" style format
6	3	Phone	an employee of the Operator who is available and able to answer technical		 Ref # - cite the "Ref#" and "tab" when asking
-	4	Fax	questions related to the form. (REQUIRED)		questions (example: "I have a question about the
	5	Email			OGDP name, Ref #12 on the Contact & Plan
8			COGCC Operator Number assigned to		
9	6	Operator Num	the operator upon registration (Form 1) with the COGCC. (REQUIRED)		Information tab")
	_	- "	Drop-down to indicate a Suffix for the Operator Number, that is associated		- Form 2B Field – the unique data field, dropdown,
10	7	Suff	with a regional mailing address.		checkbox, title, question, or other prompt on the
10	8	Address			
12	9	City	Corporate mailing address from the operator's registration (Form 1).		eForm 2B
13	10	State	(REQUIRED)		- What is this? - description of the information the data
14	11	Zip			- what is this? - description of the information the data
	12	Oil & Gas Development Plan	This is the name for the entire Oil and Gas Development Plan. Must match the name of the OGDP on the		field is asking for
15		Name:	associated Form 2C and OGDP Hearing Application. (REQUIRED)		- Operator Answer – this is where you'll put the answer
15	13	Oil & Gas Development Plan Docket #:	The docket number the COGCC Hearings Unit has assigned to the Oil and Gas Development Plan Hearing		to the question (unless the answer is a table, then fill out the table)
16			Application. (REQUIRED)		
	14	OGDP ID#:	The OGDP ID number the COGCC has assigned to the Oil and Gas Development Plan. This will only be used when an existing approved OGDP is being modified, amended, or otherwised changed. (OPTIONAL)		
.,			If this Oil and Gas Development Plan		
		This Oil & Gas Development	(OGDP) is part of a Comprehensive		
ا Ready		Overview Resources Cont	Cil & Gas Location	on #XX Info (2 Oil & Gas Location #XX Inf	ormat OGDP Scale Data Benefi 🕂 🗄 📢 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘

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1		iterin	Form 26 Version: January	Contact & Plan Information									_							
2			1	Contact & Plan Information																-
3	F	Ref #	Form 2B Field	What is this?	Operator Answer															
4		1	Contact Name (First Name)																	
5		2	Contact Name (Last Name)	The name and contact information for an employee of the Operator who is																
6		3	Phone	available and able to answer technical questions related to the form.																_
7		4	Fax	(REQUIRED)																_
8		5	Email																	
9		6	Operator Num	COGCC Operator Number assigned to the operator upon registration (Form 1) with the COGCC. (REQUIRED)		Tabs	across t	hol	hot	tom	n sir	mila	or to	th						
10		7	Suff	Drop-down to indicate a Suffix for the Operator Number, that is associated with a regional mailing address. (OPTIONAL)			ut of the									rm	s			
11		8	Address																	
12		9	City	Corporate mailing address from the																
12		10	State	operator's registration (Form 1). (REQUIRED)																
			Zip	(REQUIRED)																
14		12	Oil & Gas Development Plan Name:	This is the name for the entire Oil and Gas Development Plan. Must match the name of the OGDP on the associated Form 2C and OGDP Hearing Application. (REQUIRED)																
16		13	Oil & Gas Development Plan Docket #:	The docket number the COGCC Hearings Unit has assigned to the Oil and Gas Development Plan Hearing Application. (REQUIRED)																
17		14	OGDP ID#:	The OGDP ID number the COGCC has assigned to the Oil and Gas Development Plan. This will only be used when an existing approved OGDP is being modified, amended, or otherwised changed. (OPTIONAL) If this Oil and Gas Development Plan																
			This Oil & Gas Development	(OGDP) is part of a Comprehensive		1														
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rim Form 20 version. Ja	• •	TAR											
	OIL & GAS LOCATION DATA			_1 Oi	& Gas L	ocation #	≠XX Infor	mation t	ab				
	Oil & Gas Location Information Section												
# Form 2B Field	What is this?	Operator Answer		1-	REFORE	you fill t	his tad c	out, make	e a copy				
		•				5							
	nation is provided for each Oil & Gas Location within the	Dil & Gas Development Plan.			for each	location	i you are	e includin	ig in the				
2 - Copy/duplicate this	tab for as many Oil and Gas Locations within this OGDP.						5		0				
	Name of proposed Oil and Gas				UGDP ar	nd this Fo	Drm 2B						
Oil & Gas Location Name													
	2A. (REQUIRED)				inis is th	ne UNLY	tab whe	re you w	iii do thi				
	Number of proposed Oil and Gas							5					
Oil & Gas Location Numb	er: Location. Must match associated Form 2A. (REQUIRED)			I -	The info	rmation	on this t	ab should	d be				
	Indicate the approval and construction												
	status of the Location at the time of				filled out for every location								
	the Form 2C submittal using the						5						
Status:	following choices (REQUIRED):				 Other tabs are related to the OGDP a 								
	Proposed			1									
	Active, unbuilt				whole								
	• Active, built				whole								
	The eForm-assigned Document Number												
Form 2A Doc#:	of the Form 2A for this Oil & Gas												
	Location, as submitted with this OGDP.												
	(REQUIRED)												
	The 6-digit Location ID number the												
	COGCC has assigned to an approved Oil and Gas Location.												
	A Location ID Number only exists if the												
Loc ID#:	location was existing prior to April 1,												
	2009 or if a Form 2A has been												
	approved for the location. (OPTIONAL;												
	Required only if Loc ID# exists for this												
	Location.)												
	Quarter-Quarter or Lot or Tract of the			-									
QTRQTR:	proposed Oil and Gas Location. Must												
	match the associated Form 2A.												
	(REQUIRED)												
Sec.	Section of the proposed Oil and Gas												
Sec:	Location. Must match the associated Form 2A. (REQUIRED)												
	Township of the proprised Oit and Gas												
T	Location Must match the associated												
Overview Resources	Contact & Plan Information Oil & Gas Location #XX	Informat OGDP Scale Data Benef	ficial Impacts Mitigati	on Measure									



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	Interi	m Form 2B Version: January	19, 2021				
		<u>(</u>	DIL & GAS LOCATION D	DATA TAB			
			Oil & Gas Location Information	Section			<u> </u>
	Ref #	Form 2B Field	What is this?	Operator Answer		Copying th	
		1 - The following information i	is provided for each Oil & Gas Location wit	hin the Oil & Gas Development Plan.		nformatio	n
		2 - Copy/duplicate this tab for	as many Oil and Gas Locations within this	OGDP.	-		
			Name of proposed Oil and Gas			 Right cl 	1(
	1	Oil & Gas Location Name:	Location. Must match associated Form			- Select "	ľ
			2A. (REQUIRED) Number of proposed Oil and Gas				
	2	Oil & Gas Location Number:	Location. Must match associated Form		-	 Select t 	h
	_		2A. (REQUIRED)				-
			Indicate the approval and construction			Informa	l
			status of the Location at the time of		11	Chock t	h
	3	Status:	the Form 2C submittal using the following choices (REQUIRED):		-	 Check t 	ſ
	2	status.	Proposed		11	- Click "C	١
			Active, unbuilt		-		J
			• Active, built				T
			The eForm-assigned Document Number				
	4	Form 2A Doc#:	of the Form 2A for this Oil & Gas				
			Location, as submitted with this OGDP. (REQUIRED)				
			The 6-digit Location ID number the				
			COGCC has assigned to an approved Oil				
			and Gas Location. Move or Copy	? ×			
	_	L ID#:	A Location ID Number (e			
	5	Loc ID#:	location was existing p Move selected sheet 2009 or if a Form 2A at <u>To book:</u>	5			
			approved for the locali Form_2B_Interim_M	ASTER_11821.xlsx 🗸			
			Required only if Loc ID; Before sheet:				
			Location.) Overview Resources	^			
			Quarter-Quarter or Lot Contact & Plan Info				
	6	QTRQTR:	proposed Oil and Gas match the associated F	*XX Informat			
			(REQUIRED) Beneficial Impacts Mitigation Measure	5			
			Section of the proposed Submit	×			
	7	Sec:	Location. Must match				
			Form 2A. (REQUIRED)	OK Cancel			
	_	Turn	Township of the prop See On and Oas				
< •		Overview Resources Cont		ion #XX Informat OGDP Scale Data	Beneficial Impacts	Mitigation Measure	
ly .						·	



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1	Interir	m Form 2B Version: January										
2		<u>C</u>	DIL & GAS LOCATION D	ATA TAB								
3			Oil & Gas Location Information	Section								
4	Ref #	Form 2B Field	What is this?	Operator	Answer	<u>Copying the C</u>	il & Gas Location #XX					
		1 - The following information is	s provided for each Oil & Gas Location with	nin the Oil & Gas Developmer	nt Plan.	Information ta	ah					
5		2 - Copy/duplicate this tab for	as many Oil and Gas Locations within this	OGDP.	- -		_					
-			Name of proposed Oil and Gas			 Creates co 	py of the tab that can be					
	1	Oil & Gas Location Name:	Location. Must match associated Form			renamed						
6			2A. (REQUIRED) Number of proposed Oil and Gas									
	2	Oil & Gas Location Number:	Location. Must match associated Form			 Rename th 	e tab as: [Location Name &]					
7			2A. (REQUIRED)				-					
			Indicate the approval and construction			n [neamuvi	nformation tab					
			status of the Location at the time of the Form 2C submittal using the			Create and	I rename as many copies as					
	3	Status:	following choices (REQUIRED):		I	,						
			Proposed			there are locations within the OGDP						
			• Active, unbuilt		L							
8			• Active, built									
			The eForm-assigned Document Number									
	4	Form 2A Doc#:	of the Form 2A for this Oil & Gas Location, as submitted with this OGDP.									
9			(REQUIRED)									
-			The 6-digit Location ID number the									
			COGCC has assigned to an approved Oil									
			and Gas Location.									
	-	Log ID#t	A Location ID Number only exists if the									
	5	Loc ID#:	location was existing prior to April 1, 2009 or if a Form 2A has been									
			approved for the location. (OPTIONAL;									
			Required only if Loc ID# exists for this									
10			Location.)									
			Quarter-Quarter or Lot or Tract of the									
	6	QTRQTR:	proposed Oil and Gas Location. Must match the associated Form 2A.									
11			(REQUIRED)									
			Section of the proposed Oil and Gas									
	7	Sec:	Location. Must match the associated									
12			Form 2A. (REQUIRED)									
		Two-	Township of the proposed Oil and Gas									
• •	(act & Plan Information Oil & Gas Locatio	on #XX Info (2 Oil & Gas	Location #XX Informat	DGDP Scale Data Benefi						
Ready	1											



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Interim Form 2B - how to submit it

- [Slide revised January 21, 2021]
- The Interim Form 2B will be submitted to COGCC in ONE place
 - Submitted via eForms as an attachment to the Form 2C (as an excel spreadsheet) with the label INTERIM FORM 2B
- The Interim Form 2B must be submitted in ONLY eForms
- For OGDP eFiling Hearing Application, state that the Interim Form 2B is attached to the Form 2C instead of providing Form 2B doc#
- Once the Interim Form 2B is submitted it will undergo a technical review by COGCC Staff
 - Any changes or edits that arise during the technical review will be made with Operator concurrence
 - We are planning to have the eForms version of the Form 2B ready prior to the Commission hearing any OGDPs
 - The eForms version of the Form 2B must be submitted before the OGDP can go to Commission Hearing
 - Submittal of the eForms version of the Form 2B should not hold up an Operator's OGDP Hearing schedule



<u>Overview</u>

- Interim Form 2B Instructions
 - What it is
 - How to use it
 - How to submit it
- Form 2B Important Definitions
 - Estimate
 - At time of submittal
 - Describe versus Evaluate
 - Minimize versus Mitigate
- Form 2B How to fill it out
 - Text Boxes & Tables (Interim Form 2B)
 - Sections: Location Scale Data versus OGDP Scale Data(eForms & Interim Form 2B)
 - Following Instructions (eForms & Interim Form 2B)



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Form 2B Definitions - Estimate

- For MANY of the data fields on the Form 2B, we are asking for an "estimated value"
 - Examples: "estimated number of truck trips," "estimated weeks to," "estimated emissions"
- The review of the Form 2B will be undertaken with the understanding that the estimated values are based on each individual Operator's own estimation of their operations
 - Remember the purpose of the Form 2B is as a data submittal form directly to the Cumulative Impacts Data Evaluation Repository (CIDER database)
 - In many cases actual values are reported on different forms or to other agencies after the operations have occurred
 - Because the Form 2B is data estimated before operations take place, we are not looking to enforce on discrepancies between the estimates submitted on the Form 2B and the actuals submitted on later forms
 - If significant discrepancies occur, we will reach out to ensure the data quality of future Form 2B submittals to make sure the estimates being provided are accurately reflecting the operations that will occur

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Form 2B Definitions - At time of submittal

- For some of the data fields on the Form 2B, the answer at the time of submittal of the Form 2B may be different from the what the answer would be at the time of OGDP approval
 - Example: number of proposed wells or locations within one mile of a proposed oil and gas location
 - Between submittal and approval some of the locations/wells could be approved or withdrawn

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• With this in mind, the review of the Form 2B will be done within the context of the surrounding conditions at the time of the submittal of the Form 2B



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Form 2B Definitions - Describe vs Evaluate

Describe

- A narrative or qualitative depiction of the situation
- Adjectives

[Operator] has established an investigation level threshold of five (5.0) ppm TVOC based upon previous monitoring. This level was determined to indicate a potential change in onsite emissions that warrants further investigation but has been equivalent to levels below recommended health guideline values. This value was determined using hydrocarbon monitoring and sample data from nearby facilities.

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Evaluate

 An appraisal or assessment of the significance

Math

Air Monitoring Plan - VOC ppm Determination

	VOC Mass	Benzene Mass	VOC to Benzene Ratio	Calculated VOC @ 9ppb Benzene
Sample 1	26.314	0.028	0.001	8.5
Sample 2	29.164	0.028	0.001	9.4
Sample 3	15.647	0.022	0.001	6.4
Sample 4	18.512	0.024	0.001	6.9

This continuous system uses 5 PPM VOC as a marker for benzene to protect public health. The ratios were determined and are conservative because:

- Actual representative gas analyses (referenced in table above) were used to calculate VOC to Benzene ratios
- 5 PPM is at least three times lower than each individual ratio referenced in table above
- The chosen length of time established for the alerts is much shorter in duration than the 14 continuous days referenced by ATSDR 9ppb health guideline values.

Greg Deranleau



Form 2B Definitions – Mitigation Hierarchy

- AVOID ADVERSE IMPACTS means to differentially select alternative locations, practices, or methods for Oil and Gas Operations based on site-specific circumstances, so that those operations will not cause quantifiable direct, indirect, or cumulative adverse impacts to the potentially affected resource(s). Avoidance may include a no action alternative.
- MINIMIZE ADVERSE IMPACTS means, as provided by § 34-60-106(2.5), C.R.S., providing necessary and reasonable protections to reduce the extent, severity, significance, or duration of Unavoidable direct, indirect, and cumulative Adverse Impacts to public health, safety, welfare, the environment, or Wildlife Resources from Oil and Gas Operations.
- MITIGATE ADVERSE IMPACTS means, with respect to Wildlife Resources, measures that compensate for Unavoidable direct, indirect, and cumulative Adverse Impacts and loss of such resources from Oil and Gas Operations, including, as appropriate, habitat replacement, on- or off-site habitat enhancement, habitat banking, or financial payment in lieu of habitat replacement or enhancement to compensate for the loss of habitat and ensure that wildlife populations are protected.



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Form 2B Definitions - Minimize vs Mitigate

Minimize

- To reduce to the smallest amount possible
- Operational
- Addresses unavoidable impacts
- Engineering controls

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- Examples:
- Quiet frac
- Hard or dust free surfaces
- Location size
 - Tankless design

Mitigate

- To offset the intensity or severity of impacts
- Compensatory
- Addresses remaining impacts
- Administrative controls

Examples:

- Timing La
- Payment

Air monitoring

- Landscaping
- Offsite projects

Greg Deranleau



<u>Overview</u>

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Form 2B - How to fill it out

- Interim Form 2B has two types of data fields: text box and data table
 - Text box
 - Number
 - YES/NO answer
 - Narrative Responses
 - Some may require adding rows as needed



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	OIL & GAS LOCATION DATA TAB											
	Oil & Gas Location Information Section											
Ref #	Form 2B Field	What is this?	Operator Answer									
12	Operations Duration	- This section asks about the ESTIMATED duration of different pre-production and production activities on the oil & gas location. 2 - ONLY provide answers for the oil & gas location listed via Ref# 1&2.										
13	Estimated total number of weeks to construct this Oil & Gas Location	The estimated time in weeks to construct the Oil and Gas Location for the activities proposed in this OGDP. (REQUIRED)										
14	Estimated total number of weeks to drill all planned wells for this Oil & Gas Location	The estimated time in weeks to drill ALL proposed, undrilled wells on the Oil and Gas Location for this OGDP. If multiple occupations are planned for drilling all the wells on this Location, indicate the TOTAL number of weeks for all combined occupations. (REQUIRED)										
15	Number of planned drilling occupations to drill all planned wells for this Oil & Gas Location	The number of occupations planned to drill ALL proposed, undrilled wells on the Oil and Gas Location for this OGDP. (REQUIRED)										

		rial and Aquatic Wildlife Resources a	and Ecosystems Section							
Ref #	Form 2B Field	What is this?	Operator Answer							
65	List of High Priority Habitats	1 - This section references the differe	nt types of High Priority Habitats (HPH) within one mile							
05	(HPH) within a mile:	of the Working Pad Surface of the proposed Oil and Gas Location.								
	66	67	68							
	High Priority Habitat name:	High Priority Habitat distance:	High Priority Habitat estimated acreage disturbed:							
	Provide the name of the HPH within one mile of the proposed Oil and Gas Location. (Example: Bald eagle, active nest). (REQUIRED)	Indicate the distance (in feet) from the edge of the Working Pad Surface to the listed HPH. (REQUIRED)	Indicate the amount (in acres) of the listed HPH that is estimated to be disturbed by the construction of the proposed Oil and Gas Location as part of this OGDP. (REQUIRED)							
HPH 1										
HPH 2										
HPH 3										
HPH 4										
HPH 5										
HPH 6										

Add extra rows as needed.

Form 2B - How to fill it out

- Interim Form 2B has two types of data fields: text box and data table
 - Data table out to the right of the "Operator Answer" column
 - Number
 - Reflects the table layout that will be on the eForms version of the Form 2B

Interim Form 2B									Form 2E	B eFor	ms mo	ockup			
	NOx	со	VOCs	Methane	Ethane	CO2	N2O		NOx	CO	VOCs	Methane	Ethane	CO2	N2O
Process Heaters or	HOX		1005	mechane	Lenane	02	1120	Process Heaters or Boile	rs						
Boilers								Storage Tan	s 🗌						
Storage Tanks															
Venting or Blowdowns								Venting or Blowdow	ıs						
Combustion Control								Combustion Control Devic	es 🗌						
Devices															
Non-Road Internal								Non-Road Internal Combustion Engin	25						
Combustion Engines								Drill M	ıd 🗌						
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Flowback or Completions								Flowback or Completio	ns						
								Loado	ut 🗌						
Loadout															



Form 2B – How to fill it out

- Different tabs ask for data at the OGDP level and the individual location level
- See below to make sure the tabs are answered appropriately
 - Contact & Plan Information tab = OGDP Scale
 - Oil & Gas Location #XX Information tab = Location Scale
 - OGDP Scale Data tab = OGDP Scale
 - Beneficial Impacts tab = OGDP Scale
 - If some beneficial impacts are site specific, identify them in the "evaluation" text box answers
 - Mitigation Measures tab = OGDP Scale
 - If some mitigation measures are site specific and will not apply to the entire OGDP, state as such in your "Operator Answer/Mitigation Description"

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- Submit tab = Location Scale or OGDP Scale
 - Specify in the comments

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Form 2B - How to fill it out

- Pay careful attention to the "Form 2B Field" and the "What is this?" columns, as the information being asked is specific and the questions may not necessarily flow into one another
 - Example: Terrestrial and Aquatic Wildlife Resources and Ecosystems Section of the Oil & Gas Location #XX Information tab
 - Some questions ask about the location's disturbance and land use, while other questions ask about the surrounding land use
 - Pay attention to the questions and what they are asking



Form 2B - Oil & Gas Location #XX Info tab

- Multiple sections grouped by topic
- Oil & Gas Location Information section
- Water Resources section
- Terrestrial and Aquatic Wildlife Resources and Ecosystems section
- Public Welfare section
- Air Resource section
- Public Health section
- Existing Oil and Gas section



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Form 2B - Oil & Gas Location #XX Info tab

- Oil & Gas Location Information section
- Location data
 - QtrQtr/Sec/Twnp/Rng
 - # of wells
- Operations Duration
 - Estimated weeks for construction, drilling, & completions
 - Estimated months of production
- Qualitative evaluation of noise, light, & odor during pre-production & production phases

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Form 2B - Oil & Gas Location #XX Info tab

Public Welfare section

- Number of RBU, non-school AND non child care center HOBU, School Facilities, and Child Care Centers
 - 0' 2,000'
 - -2,001' 5,280'
- Recreation and Scenic Value
 - List all State Parks, State Trust Lands, or State Wildlife Area within 1-mile of the Oil & Gas Location
 - COGIS Maps layers
 - List all Designated Outdoor Activity Areas within 1-mile of the Oil & Gas Location
 - COGIS Maps layer

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 List all mapped trails that support recreational activities within 1-mile of the Oil & Gas Location

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Colorado Trail Explorer (COTREX) website: https://trails.colorado.gov/



Form 2B - Oil & Gas Location #XX Info tab Existing Oil and Gas section

- Total number of oil & gas locations within 1-mile
 - Total acreage disturbance during construction of the active and proposed oil & gas locations within 1-mile
 - Source of data: field observation, COGCC location files, aerial photos, and/or other
 - For estimations, use GIS or GoogleEarth to measure approximate length and width, multiple together for square foot area, and divide by 43,560 to convert to acres (1 acre = 43,560 sq. feet)
- Total number of oil & gas wells within 1-mile
- Total permitted capacity of on location storage (in number of pits or tanks) of the active and proposed oil & gas locations within 1mile
 - Existing Storage (optional)
 - Source of data: field observation, COGCC location files, aerial photos, and/or other

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 For estimations, COGCC typically uses a 500 bbl as a typical tank estimate, while 350 bbl may also be reasonable for older locations



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