FORM 2 Rev

08/16

State of Colorado

Oil and Gas Conservation Commission

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



Document Number:

401078400

APPLICATION FOR PERMIT TO:		
▼ Drill Deepen Re-enter Recomplete and Open		
TYPE OF WELL OIL 🗵 GAS 🗌 COALBED 🔲 OTHER	Refiling	Date Received:
ZONE TYPE SINGLE ZONE MULTIPLE ZONES COMMINGLE ZONES	Sidetrack	07/18/2016
Well Name: Coalmont 0781 Well Number: 4-13H	•	
Name of Operator: SANDRIDGE EXPLORATION & PRODUCTION LLC COGO	C Operator Num	nber: 10598
Address: 123 ROBERT S KERR AVE		
City: OKLAHOMA CITY State: OK Zip: 73102		
Contact Name: Laci Bevans Phone: (405)429-5610 Fax: ()	
Email: lbevans@sandridgeenergy.com		
RECLAMATION FINANCIAL ASSURANCE		
Plugging and Abandonment Bond Surety ID:20160010		
WELL LOCATION INFORMATION		
QtrQtr: Lot 4 Sec: 18 Twp: 7N Rng: 80W Meridian: 6		
Latitude: 40.571594 Longitude: -106.424583		
FNL/FSL FEL/FWL		
Footage at Surface: 419 Feet FSL 175 Feet FWL Field Name: WILDCAT Field Number: 99999		
Ground Elevation: 8207 County: JACKSON		
GPS Data:		
Date of Measurement: 06/10/2016 PDOP Reading: 1.4 Instrument Operator's Name: I	Darren Shanks, (G.W.
If well is Directional X Horizontal (highly deviated) submit deviated drilling plan.		
Footage at Top of Prod Zone: FNL/FSL FEL/FWL Bottom Hole: FNL/FSL	FEL/FW	′L
1112 FSL 1650 FEL 300 FNL	1650 FEL	
Sec: 13 Twp: 7N Rng: 81W Sec: 13 Twp:	7N Rng:	81W
LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT		
Surface Ownership:		
The Surface Owner is: is the mineral owner beneath the location.		
(check all that apply) is committed to an Oil and Gas Lease.		
has signed the Oil and Gas Lease.		
is the applicant.		
The Mineral Owner beneath this Oil and Gas Location is: X Fee State Federal	Indian	
The Minerals beneath this Oil and Gas Location will be developed by this Well: No		
The right to construct the Oil and Gas Location is granted by: Surface Use Agreement		
Surface damage assurance if no agreement is in place: Surface	urety ID:	

LEASE INFORMATION							
Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)							
All: Sec 13-7N-81W							
Total Acres in Described Lease:	640	Described Mineral Lo	ease is: 🗵 Fee	e 🔲 State	e Federal Indian		
Federal or State Lease #							
Distance from Completed Portion	of Wellbore to	Nearest Lease Line of c	lescribed lease:	300	Feet		
CULTURAL DISTANCE INFORM	MATION			INSTRUCTIONS:	ents shall be provided from center of		
Distance to nearest:				the Proposed W	'ell to nearest of each cultural		
Building: 4172 Feet					ibed in Rule 303.a.(5). distance greater than 1 mile.		
Building Unit: 4172 Feet					est building of any type. If nearest lding Unit, enter same distance for		
High Occupancy Building Uni	High Occupancy Building Unit: 5280 Feet			both.			
Designated Outside Activity Area	a: 5280	Feet			High Occupancy Building Unit, and side Activity Area - as defined in		
Public Road	d: 4850	Feet		100-Series Rules			
Above Ground Utility	y: 4713	Feet					
Railroad	d: 5280	Feet					
Property Line	e: 175	Feet					
DESIGNATED SETBACK LOCA	TION INFORM	MATION		- Buffer Zone – a 1,000' of a Build	as described in Rule 604.a.(2), within		
Check all that apply. This location	n is within a:	Buffer Zone		- Exception Zone	e - as described in Rule 604.a.(1),		
		Exception Zone		within 500' of a Building Unit Urban Mitigation Area - as defined in 100-Series			
		Urban Mitigation Are	ea	Rules.			
Pre-application Notifications (requ	uired if location	n is within 1,000 feet of a	building unit):				
Date of Rule 305.a.(1) Urbar	n Mitigation Ar	ea Notification to Local G	overnment:				
Date of Rule 305.a.(2) Buffe	r Zone Notifica	ation to Building Unit Own	ers:				
SPACING and UNIT INFORMAT	ION						
Distance from completed portion of proposed wellbore to nearest completed portion of offset wellbore permitted or completed in the							
same formation:660Feet							
Distance from Completed Portion of Wellbore to Nearest Unit Boundary 300 Feet (Enter 5280 for distance greater than 1 mile.)							
Federal or State Unit Name (if appl): Unit Number:							
SPACING & FORMATIONS COMMENTS							
OBJECTIVE FORMATIONS							
Objective Formation(s) Forma NIOBRARA NBRR	tion Code	Spacing Order Number(s) 531-28	Unit Acreage As		Unit Configuration (N/2, SE/4, etc.) Sec 13: All		
INDIVITA INDIVITA		JJ 1-20		•	000 TO. All		

DRILLING PRO	GRAM							
Proposed Total	al Measured D	epth:11725 _ F	eet					
Distance from	the proposed	wellbore to nearest	existing or	proposed wellbore	belonging to and	ther operator,	including plug	ged wells:
Enter distance	if less than or	equal to 1,500 feet	:	Feet 🗵 N	o well belonging	to another ope	rator within 1	,500 feet
Will a closed-l	oop drilling sys	stem be used?	/es					
Is H2S gas rea	asonably expe	cted to be encounte	ered during o	drilling operations a	at concentrations	greater than		
or equal to 10	0 ppm?No	(If Yes, attach	an H2S Drill	ing Operations Pla	n)			
Will salt section	ns be encount	ered during drilling	? <u>No</u>					
Will salt based	d (>15,000 ppn	n CI) drilling fluids b	e used?	No				
Will oil based	drilling fluids b	e used? Yes						
BOP Equipme	ent Type: 🔀 A	nnular Preventor	▼ Double	e Ram 🗵 Ro	tating Head	None	Э	
GROUNDWATI	ER BASELINE	SAMPLING AND	MONITORII	NG AND WATER \	WELL SAMPLIN	G		
Water well sa	mpling require	d per Rule 609	9					
DRILLING WAS	STE MANAGE	MENT PROGRAM						
Drilling Fluids	Disposal:	OFFSITE	Drilling Flu	uids Disposal Meth	ods: Commercia	l Disposal		
Cuttings Disp	osal: OFFS	SITE	Cut	tings Disposal Met	hod: Commercia	l Disposal		
Other Dispos	al Description:							
		d with water based one of the design with water based of the will use oil						reused
Beneficial r	euse or land a	polication plan sub-	mittad2					
	oaco oi iaila a	ppiication pian subi	muear					
Reuse Fa			cument Nun	nber:				
Reuse Fa	cility ID:			nber:	-			
Reuse Fa	RAM	or Do	cument Nun		- Sotting Donth	Saaka Cmt	Crest Párm	Cmt Ton
Reuse Fa CASING PROG Casing Type	RAM Size of Hole	or Do	cument Nun	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
Reuse Fa	RAM	or Do	cument Nun		Setting Depth 90 2500	Sacks Cmt 190 629	<u>Cmt Btm</u> 90 2500	<u>Cmt Top</u> 0 0
Reuse Fa CASING PROG Casing Type CONDUCTOR	RAM Size of Hole	or Do Size of Casing 16+1/4	cument Nun Wt/Ft 42	Csg/Liner Top	90	190	90	0
CASING PROG Casing Type CONDUCTOR SURF	RAM Size of Hole 26 12+1/4	Size of Casing 16+1/4 9+5/8 5+1/2	Wt/Ft 42 36	Csg/Liner Top 0 0	90 2500	190 629	90 2500	0 0
CASING PROG Casing Type CONDUCTOR SURF 1ST Conductor	FRAM Size of Hole 26 12+1/4 8+3/4 Casing is NOT	Size of Casing 16+1/4 9+5/8 5+1/2	Wt/Ft 42 36 20	Csg/Liner Top 0 0	90 2500	190 629	90 2500	0 0
CASING PROG Casing Type CONDUCTOR SURF 1ST Conductor	Size of Hole 26 12+1/4 8+3/4 Casing is NOT SETBACK LO	Size of Casing 16+1/4 9+5/8 5+1/2 planned	Wt/Ft 42 36 20	Csg/Liner Top 0 0	90 2500	190 629	90 2500	0 0
CASING PROG Casing Type CONDUCTOR SURF 1ST Conductor DESIGNATED Check all that a Rule 604.a	Size of Hole 26 12+1/4 8+3/4 Casing is NOT SETBACK LO pply: a.(1)A. Exception	or Do Size of Casing 16+1/4 9+5/8 5+1/2 planned CATION EXCEPTION On Zone (within 500)	wt/Ft 42 36 20 ONS	Csg/Liner Top 0 0 0	90 2500 11725	190 629 1915	90 2500 11725	0 0 0
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RULE 502.b VARIANCE REQUEST

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OTHER LOCATION EXCEPTIONS	
Rule 603.a.(2) Exception Loca	n from Rule or Spacing Order Numberation (Property Line Setback). uire attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g.
OPERATOR COMMENTS AND SUE	 RMITTΔI
	with the Open Range 18 pad Doc #: 401073954
This application is in a Comprehensi	-
Location ID: 447512	
Is this application being submitted v	with an Oil and Gas Location Assessment application? Yes
I hereby certify all statements made	e in this form are, to the best of my knowledge, true, correct, and complete.
Signed:	Print Name: Laci Bevans
Title: Regulatory Analyst	Date: 7/18/2016 Email: lbevans@sandridgeenergy.com
Based on the information provided he and is hereby approved. COGCC Approved: API NUMBER 05 057 06583 00	Perein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders Director of COGCC Date: 9/7/2016 Expiration Date: 09/06/2018
03 037 00303 00	
All representations, stipulations, stipulati	Conditions Of Approval ons and conditions of approval stated in the Form 2A for this location shall stipulations and conditions of approval for this Form 2 Permit-to-Drill and are ent as all other representations, stipulations and conditions of approval stated in
All representations, stipulations constitute representations, senforceable to the same external constitutes and constitutes are constituted in the same external constituted in the same external constitutes are constituted in the same	ons and conditions of approval stated in the Form 2A for this location shall stipulations and conditions of approval for this Form 2 Permit-to-Drill and are
All representations, stipulatic constitute representations, senforceable to the same extentions permit-to-Drill.	ons and conditions of approval stated in the Form 2A for this location shall stipulations and conditions of approval for this Form 2 Permit-to-Drill and are ent as all other representations, stipulations and conditions of approval stated in

No BMP/COA Type Description One of the first wells drilled on the pad will be logged with openhole Resistivity Log and Gamma Ray Log from the kick-off point into the surface casing. All wells on the pad will have a cement bond log with gamma-ray run on production casing (or on intermediate casing if production liner is run) into the surface casing. The horizontal portion of every well will be logged with a measured-while-drilling gamma-ray log. The Form 5, Completion Report, for each well on the pad will list all logs run and have those logs attached. The Form 5 for a well without open-hole logs shall clearly state "No open-hole logs were run" and shall clearly identify (by API#, well name & number) the well in which openhole logs were run.

Total: 1 comment(s)

Applicable Policies and Notices to Operators

Policy

NW Colorado Notification Policy.

http://cogcc.state.co.us/documents/reg/Policies/nw_notification_procedures.pdf

Notice Concerning Operating Requirements for Wildlife Protection. http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf

Attachment Check List

Att Doc Num	<u>Name</u>
401078400	FORM 2 SUBMITTED
401080118	DRILLING PLAN
401080119	DEVIATED DRILLING PLAN
401080122	DEVIATED DRILLING PLAN
401080123	DEVIATED DRILLING PLAN
401080140	SURFACE AGRMT/SURETY
401080168	WELL LOCATION PLAT
401084683	DIRECTIONAL DATA
401098745	OffsetWellEvaluations Data
401098758	OFFSET WELL EVALUATION

Total Attach: 10 Files

General Comments					
User Group	Comment	Comment Date			
Permit	Final review is complete.	9/7/2016 10:51:23 AM			
Engineer	Offset water well check: COGCC evaluated offset water wells within one mile of this proposed well's surface hole location. This information was used in addition to locally-available geophysical logs and hydrogeologic information to evaluate the adequacy of the operator's proposed surface casing setting depth. The deepest water well within one mile is 455 feet.	8/24/2016 3:29:54 PM			
	The Coalmont Formation is considered a potential freshwater resource in the North Park Basin (CGS Ground Water Atlas of Colorado, 2003). The proposed surface casing setting depth of 2400' will not cover the entire Coalmont Formation, based on the operator's drilling prognosis in the drilling plan. Minimum cement isolation standards are specified in Condition of Approval #2.				
Engineer	"No offset wells within 1500 feet" is incorrectly checked. Offset well spreadsheet is required.	8/24/2016 3:29:53 PM			
	Removed distance to well owned by another operator and checked no well belonging to another operator within 1,500 feet per operator. Changed attachment labeled anti-collision waiver to deviated drilling plan (anticollision report).				
	Offset Well Evaluation: Offset wells within 1,500 feet of the wellbores planned on this pad are horizontal Niobrara wells. No mitigation required. Attached offset well evaluation spreadsheet provided by operator.				
Permit	Initial review complete.	8/23/2016 3:03:37 PM			
Permit	Passes completeness.	8/17/2016 10:13:56 AM			
Permit	Returned to draft. Why is "the minerals beneath this oil and gas well will be developed by this well" marked as "YES"?	3/5/2016 2:55:19 PM			
Permit	Returned to draft. 1.) Please round the elevation value to the nearest whole number. 2.) Please include a value in the Location data field on the Directional Data attachment. Why does the Directional Data differ from the Deviated Drilling Plan? 3.) Please correct the Spacing Unit to the updated orders that permit the requested setbacks. 4.) Please use the Lot assignment rather than the "SWSW" designation. 5.) Commingle value should be selected. 6.) Why is the right to construct "oil and gas lease" on the Form 2 but "Surface Use Agreement" on the related Form 2A? 7.) The total acres in described lease do not match the area described in the Lease Information box.	7/22/2016 2:03:04 PM			

Total: 7 comment(s)