FORM 2 Rev

State of Colorado Oil and Gas Conservation Commission

Document Number:

1120 Lincoln Street, Suite 801, Denver, Colorado 80203

08/13 Phone: (303) 894-2100 Fax: (303) 894-2109	OIL&	400525095				
APPLICATION FOR PERMIT TO:						
▼ Drill ■ Deepen ■ Re-enter ■ Recomplete and	Operate	Date Received:				
TYPE OF WELL OIL GAS K COALBED OTHER	Date Neceived.					
ZONE TYPE SINGLE ZONE 🔀 MULTIPLE ZONES 🔲 COMMINGLE ZONES 🔲	Sidetrack					
Well Name: 696-5C Well Number: 25						
Name of Operator: MARATHON OIL COMPANY CO	GCC Operator Num	ber:53650				
Address: 5555 SAN FELIPE RD						
City: HOUSTON State: TX Zip: 77056						
Contact Name: Brittny Smith Phone: (405)728-5228 Fax: (Email: brsmith@marathonoil.com	405)720-5562					
RECLAMATION FINANCIAL ASSURANCE						
Plugging and Abandonment Bond Surety ID:19880020						
WELL LOCATION INFORMATION						
QtrQtr: Lot 12 Sec: 5 Twp: 6S Rng: 96W Meridian: 6	_					
Latitude: 39.554800 Longitude: -108.135510						
FNL/FSL FEL/FWL Footage at Surface: 3502 feet FNL 1343 feet FWL						
Field Name: GRAND VALLEY Field Number: 31290						
Ground Elevation: 8138 County: GARFIELD						
GPS Data:						
Date of Measurement: 09/28/2008 PDOP Reading: 2.3 Instrument Operator's Name	: William H. Dolina	<u>ır </u>				
If well is 🗵 Directional — Horizontal (highly deviated) submit deviated drilling plan						
Footage at Top of Prod Zone: FNL/FSL FEL/FWL Bottom Hole: FNL/FSL 1189 FSL 2282 FWL 1189 FSL	FEL/FW 2282 FWL					
Sec: 5 Twp: 6S Rng: 96W Sec: 5 Tw						
LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT						
Surface Ownership: 🔀 Fee 📗 State 📗 Federal 📗 Indian						
The Surface Owner is: is the mineral owner beneath the location. (check all that apply) is committed to an Oil and Cool age.						
X is committed to an Oil and Gas Lease.						
is the applicant.						
The Mineral Owner beneath this Oil and Gas Location is: 🗵 Fee 📗 State 🔲 Fede	eral 🔲 Indian					
The Minerals beneath this Oil and Gas Location will be developed by this Well: Yes						
The right to construct the Oil and Gas Location is granted by: oil and gas lease						
Surface damage assurance if no agreement is in place: Surface Surface	e Surety ID:					

LEASE INFORMATION						
Using standard QtrQtr, Sec, Twp, beneath surface location if produc					this well (Descr	ibe lease
Please see map submitted with	previous filir	ng				
Total Acres in Described Lease:	3441	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:	1189	Feet	
CULTURAL DISTANCE INFORM	MATION			INSTRUCTIONS:		dad from contour of
Distance to nearest:					ents shall be provi Vell to nearest of	ded from center of each cultural
Building	q: 245	7 Feet			ribed in Rule 303.a distance greater	` '
Building Uni		0 Feet		- Building - near	est building of any	y type. If nearest
High Occupancy Building Uni		0 Feet		Building is a Builboth.	ilding Unit, enter s	ame distance for
Designated Outside Activity Area		o Feet		- Building Unit,	High Occupancy B	-
Public Road		0 Feet		Designated Out -Series Rules.	side Activity Area	- as defined in 100
Above Ground Utility	y: 528	 0 Feet				
Railroad	d: 528	 0 Feet				
Property Line	e: 116	7 Feet				
DESIGNATED SETBACK LOCA Check all that apply. This location		MATION Buffer Zone		1,000' of a Build		le 604.a.(2), within Rule 604.a.(1),
		Exception Zone		within 500' of a	Building Unit. ion Area - as defin	ed in 100-Series
		Urban Mitigation Are	ea	Rules.		
Pre-application Notifications (requ	uired if location	on is within 1,000 feet of a	building unit):			
Date of Rule 305.a.(1) Urbar	n Mitigation A	rea Notification to Local G	Sovernment:			
Date of Rule 305.a.(2) Buffe	r Zone Notific	ation to Building Unit Owr	ners:			
SPACING and UNIT INFORMAT	TON					
Distance from Completed Portion	of Wellbore	to Nearest Wellbore Perm	itted or Complete	ed in the same	formation:	663 Feet
Distance from Completed Portion	of Wellbore	to Nearest Unit Boundary	Fee	et (Enter 5280 f	or distance grea	ter than 1 mile.)
Federal or State Unit Name (if ap	pl):			Unit Nu	mber:	
SPACING & FORMATIONS COM	MMENTS					
OBJECTIVE FORMATIONS						
	tion Code	Spacing Order Number(s)	Unit Acreage As	ssigned to Well	Unit Configurat	tion (N/2, SE/4, etc.)
WILLIAMS FORK WMFK		510-11				
DRILLING PROGRAM						
Proposed Total Measured Dep	th: 10466	Feet -				
Distance to nearest permitted of	or existing we	Ilbore penetrating objectiv	e formation:	663 Feet (Including plugge	ed wells)
Will a closed-loop drilling syste	m be used?	Yes				
Is H ₂ S gas reasonably expecte	d to be enco	untered during drilling ope	rations at concer	ntrations greate	r than	
or equal to 100 ppm? No	(If Yes, atta	ich an H2S Drilling Operat	ions Plan)			
Will salt sections be encountered	ed during drill	ing? No				

Will salt base	d (>15,000 pp	om CI) drilling fluids	be used?	No				
Will oil based	drilling fluids	be used? No)					
BOP Equipm	ent Type: 🗵	Annular Preventor	⋉ Doub	le Ram 🗵 I	Rotating Head	No.	one	
GROUNDWAT	ER BASELINI	E SAMPLING AND	MONITOR	ING AND WATER	WELL SAMPLI	ING		
Water well sa	ampling require	ed per Rule60	09					
DRILLING WA	STE MANAGE	EMENT PROGRAM	M					
Drilling Fluids	Disposal:	ONSITE	Drilling F	luids Disposal Me	thods: Recycle/r	euse		
Cuttings Disp	osal: ON	SITE	Cu	ıttings Disposal M	ethod: Drilling pi	t		
Other Dispos	al Description	:						
Beneficial	reuse or land a	application plan sul	bmitted?	No				
Reuse Fa	acility ID:	or D	ocument Nu	mber:	_			
CASING PROC	·DAM							
		Oins of Ossimm	18/4/ F4	O// : T	Cattin n Danth	Caalaa Caat	Court Diam	Out Tax
Casing Type CONDUCTOR	Size of Hole	Size of Casing	<u>Wt/Ft</u> 53	Csg/Liner Top	Setting Depth	Sacks Cmt	<u>Cmt Btm</u> 100	Cmt Top
SURF	14+3/4	9+5/8	36	0	2000	1000	2000	0
1ST	8+3/4	4+1/2	11.6	0	10466	675	10466	5500
Conductor	Casing is NO	T planned						
DESIGNATED	SETBACK LO	OCATION EXCEPT	TIONS					
Check all that a	pply:							
Rule 604.	a.(1)A. Except	ion Zone (within 50	00' of Buildin	g Unit)				
Rule 604.l	o.(1)A. Except	ion Location (existi	ing or approv	ed Oil & Gas Loc	ation now within	a Designated	Setback as a	result of
Rule 604.	•							
	o.(1)B. Except on after Locati	ion Location (existi on approval)	ing or approv	ed Oil & Gas Loc	ation is within a I	Designated Se	tback due to I	Building Unit
Rule 604.l	o.(2) Exception	n Location (SUA or	site-specific	development plai	n executed on or	before Augus	t 1, 2013)	
Rule 604.l		n Location (Building	g Units cons	tructed after Augu	st 1, 2013 within	setback per a	n SUA or site	-specific
GREATER WA	TTENBERG A	AREA LOCATION	EXCEPTION	NS				
Check all that a	pply:							
Rule 318A	.a. Exception	Location (GWA Wi	indows).					
Rule 318A	.c. Exception	Location (GWA Tw	vinning).					
RULE 502.b V	ARIANCE REC	QUEST						
Rule 502	2.b. Variance F	Request from COG	CC Rule or	Spacing Order Nu	mber			
OTHER LOCA	TION EXCEPT	TIONS						
Check all that a	pply:							
Rule 318	s.c. Exception	Location from Rule	or Spacing	Order Number _				
Rule 603	3.a.(2) Exception	on Location (Prope	erty Line Sett	oack).				
	ns and variand fications, SUA	ces require attache s).	d Request L	etter(s). Refer to	applicable rule fo	or additional re	quired attachi	ments (e.g.

OPERATOR COMMENTS AND SUBMITTAL

additional gas wells Rule 306.d.(1).(A).(ii	constructed. One we are proposed for thi). The location is no	ell is producing; two (s location. Location o t in a wildlife restricte	2) wells are dri loes not require d surface occu	lled and v e a variar upancy ar	ents within 400' of wellhead. Pad vaiting on completions. Five ce from any of the rules listed in ea. The refiled well will not require
tion is in a Comprehe	nsive Drilling Plan		CDP #:		_
413390					
cation being submitte	d with an Oil and Ga	as Location Assessm	ent application	ı?	No
tify all statements ma	ade in this form are,	to the best of my kno	wledge, true, o	correct, ar	nd complete.
		Prir	t Name: Brittr	ny Smith	
Regulatory Complianc	e Rep	Date:		Email:	brsmith@marathonoil.com
	I herein, this Applica	ation for Permit-to-Dri	I complies with	n COGCC	Rules and applicable orders
roved:		Director	of COGCC	Date:	
API NIIMRER	\neg		Expirati	on Date:	
_					
iiit-to-biiii.					
	<u>Description</u>				
	Description				
		<u>Management</u>	Practices		
COA Type	Best Description				perations within the Piceance
	tion is in a Comprehe 413390 cation being submitte rtify all statements ma Regulatory Compliance information provided v approved. API NUMBER 18388 00 sentations, stipulate representations	tion is in a Comprehensive Drilling Plan 413390 cation being submitted with an Oil and Gritify all statements made in this form are, Regulatory Compliance Rep information provided herein, this Applicate approved. Toved: API NUMBER 18388 00 Comprehensive Drilling Plan API NUMBER 18388 100 Compliance Rep Sentations, stipulations and conditions	tion is in a Comprehensive Drilling Plan 413390 cation being submitted with an Oil and Gas Location Assessmentify all statements made in this form are, to the best of my known Pring Regulatory Compliance Rep Date: information provided herein, this Application for Permit-to-Drilly approved. Toved: API NUMBER 18388 00 Conditions Of Approval steer epresentations, stipulations and conditions of approval steer epresentations, stipulations and conditions of applications of applications of applications of applications and conditions applications applications and conditions applications and conditions applications an	tion is in a Comprehensive Drilling Plan 413390 cation being submitted with an Oil and Gas Location Assessment application trify all statements made in this form are, to the best of my knowledge, true, or Print Name: Britter Regulatory Compliance Rep Date: information provided herein, this Application for Permit-to-Drill complies with approved. Troved: Director of COGCC Expiration Sentations, stipulations and conditions of approval stated in the terepresentations, stipulations and conditions of approval for the label to the same extent as all other representations, stipulations	cation being submitted with an Oil and Gas Location Assessment application? Titify all statements made in this form are, to the best of my knowledge, true, correct, are a print Name: Brittny Smith Regulatory Compliance Rep Date: Email: Information provided herein, this Application for Permit-to-Drill complies with COGCC of approved. Toved: Director of COGCC Date: Expiration Date: API NUMBER 18388 00 Conditions Of Approval stated in the Form 2 the representations, stipulations and conditions of approval for this Formulable to the same extent as all other representations, stipulations and conditions of approval stated in the Form 2 the representations, stipulations and conditions of approval for this Formulable to the same extent as all other representations, stipulations and conditions of approval stated in the Form 2 the representations, stipulations and conditions of approval for this Formulable to the same extent as all other representations, stipulations and conditions of approval stipulations and conditions of approval stipulations and conditions and conditions of approval stipulations and conditions approval stipulations and conditions ap

- When actively drilling, Marathon utilizes one Temporary Living camp to house the resources needed to support the drilling operations within the Piceance Basin. The site supports approximately 50 personnel that function on 12-hour shifts. The shift work schedule is 2-weeks on and 2-weeks off. This is a traffic reduction of 25 vehicles per day, 7-days per week. There is an understanding that the reduction of traffic as a whole reduces the opportunity for wildlife impacts.
- 3. Infrastructure Layout for Wildlife Protection
- Marathon has installed consolidated and centralized fluid collection facilities and water pipelines to manage fluids in the field. Through 2011, Marathon has installed approximately 50 miles of pipelines to manage existing production as well as future developments. The majority of the water pipelines are located adjacent to existing roads and within existing ROWs. The installation of most of the water pipelines was performed in conjunction with the installation of gas gathering lines performed by Enterprise. During the installation, both Marathon and Enterprise utilized the same contractor to reduce the overall disturbance and traffic by making one ground disturbance; thereby, reducing manpower, pieces of equipment and installation schedule.
- From 2008 through 2011, Marathon has utilized the fluid infrastructure to move approximately 2.2 million barrels of water throughout the field. The use of the pipelines and central facilities has saved approximately 22,000 truck loads and over 330,000 trucking miles. As Marathon continues to produce from this field, there will be continued utilization of this infrastructure to manage fluids which will continue to reduce disturbances and traffic. Produced water can be pumped via pipeline to Pad 18A for storage and offsite disposal. Produced water can be pumped via pipeline to Pad 32C for storage and enhanced evaporation. The use of Pads 18A and 32C for managing produced water effectively minimize truck traffic within the field.
- Based on development to date, future development of the field will utilize the infrastructure that has been installed. Each future well requires approximately 25,000 barrels of water to drill and complete. The water trucks used for transport carry approximately 100 barrels per load. As a result, continuing to utilize the infrastructure will save up to 250 truck loads per well during future development. Total development will require an average of eight wells per pad to achieve 20 acre spacing. This equates to 2,000 truck loads per pad and would increase with more aggressive development. As stated earlier, the traffic reduction will continue as long as the wells are producing and the water pipelines and facilities are utilized to manage fluids.
- 4. Drilling and Completions Operations for the Protection of Wildlife
- Marathon will review annually the scheduled civil construction, drilling and completion activities (Plan of Development [POD]) to avoid portions of SWH, specifically for the GrSG. Additionally, Marathon through the POD will schedule our activities in an effort to avoid and/or minimize operations near and within lek sites, elk production areas and active raptor nests.

The POD will be submitted to the CPW by the end of January for each calendar year. This component of the WMP will be a living document. Marathon will utilize C-K Associates, LLC (C-K) as our third party review team jointly with our regulatory compliance group to balance developments and ecological concerns within the Piceance Basin.

Marathon's goal during the annual POD scheduling is to avoid at a minimum 66% of the GrSG SWH.

- If for some reason an area cannot be avoided, Marathon will attempt to avoid the timing period associated with the wildlife category of concern. Lek avoidance is from March 1 through May 15 for major activities; Elk Production is rotation of production areas on a seasonal basis; 4-mile buffer for GrSG March 1-June 30 (4-months) Note: there is an overlap of geographical areas between the elk production areas and the 4-mile GrSG buffer area (SWH). In Marathon's effort to meet the timing for an elk production area, we also achieve avoidance for a portion of the 4-mile buffer area.
- Marathon has agreed to seasonal rotation development activities for the elk production areas.
- As of January 2012, Marathon has closed all drilling reserve pits.
- No drilling has occurred since June 2010; no completions have occurred since December 2010.
- 5. Additional Minimizations for Wildlife Protection
- Marathon is following the rule requirements for noise. Regarding raptor perch deterrents, Marathon will provide deterrents in areas where surrounding habitats do not provide natural perches.
- Marathon joint ownership properties can utilize approved seed mixes and restore

		1
		disturbed sagebrush. In lease areas the land owner dictates the decision on seed mix and restoration of sagebrush. There are discussions with land owners on decisions regarding high priority habitat (lek areas and adjacent lands) where sagebrush can be restored. In other areas the approved land owner seed mix would be applied. • Marathon conducts raptor surveys and utilizes the CPW's approach to evaluate survey data protocols. 6. Additional Awareness for Wildlife Protection • Marathon requires that each individual (company and contractor) go through orientation prior to working on locations and annually thereafter. Wildlife awareness is discussed. • Marathon shares a general site map that includes Marathon locations, roads, personnel contacts, etc. In addition, the map highlights Wildlife Timing Periods and the two lek sites within Marathon's acreage. The map is shared with company employees, contractors, and other operators. • Marathon conducts monthly HES mtg (1/yr on wildlife issues)
2	Drilling/Completion	Well Surveying & Anti-Collision Policy
	Operations	Scope - An anti-collision risk assessment will be performed during the planning of all directional wells or vertical wells drilled in a field with directional wells. Wellbore anti-collision evaluation is part of WWD&C's risk assessment policy. An anti-collision report will be included in the well plan utilizing both existing wells and planned wells as offset wells.
		Policy - to obtain accurate directional surveys of its wellbores in order to 1) fulfill the requirements of applicable governmental regulations, 2) intersect geologic targets within established tolerances, and 3) provide survey data in order to maintain the minimum allowable separation between wells.
		During the well planning phase, the directional plan will be designed to have a separation factor greater than or equal to 1.75 (S.F. = 1.75) in order to allow some deviation from the planned path when the well is drilled. If the directional path cannot be planned greater than or equal to 1.75 then the drilling manager's approval is required for the directional plan. If the planned well path has a separation factor less than or equal to 1.0 (S.F. = 1.0) then the approval from the WWD&C General Manager is required.
		During drilling operations, wellbore anti-collision will be monitored by calculating a separation factor of the projected well path ahead of the bit and applying the actions listed below. Separation Factor = 1.5 Drill ahead
		1.0 < Separation Factor = 1.5 Drilling manager approval required. Implement precautions and procedures developed in the risk assessment Separation Factor = 1.0 Stop drilling. Drilling may not proceed without the WWD&C General Manager approval or until the separation factor has been increased above a 1.0

Total: 2 comment(s)

Attachment Check List

Att Doc Num	<u>Name</u>
400525107	DEVIATED DRILLING PLAN
400525110	DIRECTIONAL DATA

Total Attach: 2 Files

General Comments

<u>User Group</u>	Comment	Comment Date

Total: 0 comment(s)