Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

NMNM105217	•	
If Indian Allottee or T	ribe Name	

abandoned well. Use form 3160-3 (APD) for such proposals. SUBMIT IN TRIPLICATE - Other instructions on reverse side.			6. If Indian, Allottee	If Indian, Allottee or Tribe Name The Name and/or No. 7. If Unit or CA/Agreement, Name and/or No.		
			7. If Unit or CA/Ag			
Type of Well Gas Well □ Other				8. Well Name and No. BLUE THUNDER 4 FEDERAL 2		
2. Name of Operator COG OPERATING LLC		ORMI S DAVIS horesources.com	9. API Well No. 30-015-34780-00-X1			
3a. Address 550 WEST TEXAS AVENUE MIDLAND, TX 79701	SUITE 1300 P	b. Phone No. (include area cod Ph: 575-748-6946 x: 575-748-6950	e) 10. Field and Pool, WILDCAT	10. Field and Pool, or Exploratory		
4. Location of Well (Footage, Sec., 7	T., R., M., or Survey Description)		11. County or Paris	h, and State		
Sec 4 T19S R31E SWSW 45	0FSL 760FWL		EDDY COUN	EDDY COUNTY, NM		
			·			
12. CHECK APPI	ROPRIATE BOX(ES) TO II	NDICATE NATURE OF	NOTICE, REPORT, OR OTH	ER DATA		
TYPE OF SUBMISSION		ТҮРЕ (OF ACTION	·		
Notice of Intent	☐ Acidize	Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off		
_	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	□ Well Integrity		
☐ Subsequent Report	☐ Casing Repair	New Construction	Recomplete	Other		
☐ Final Abandonment Notice	☐ Change Plans	Plug and Abandon	☐ Temporarily Abandon			
	Convert to Injection	□ Plug Back	☐ Water Disposal			
COG Operating LLC requests Thunder 4 Federal #2 (30-015) The approved Form 3160-3 a	5-34780). nd site diagrams are attache Accepted for		RECEIVE MAY 0.9 201 NMOCD ART	D II ESIA		
	Electronic Submission #105 For COG OPE nmitted to AFMSS for process	RATING LLC, sent to the Gring by KURT SIMMONS or	Carlsbad n 04/05/2011 (11KMS1308SE)			
Name(Printed/Typed) RAND FRENCH		Title REGU	Title REGULATORY COORDINATOR			
Signature (Electronic Submission)		Date 04/05/	Date 04/05/2011			
	THIS SPACE FOR	FEDERAL OR STATE	OFFICE USE			
Approved By (BLM Approver Not Specified) Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease				Date 05/06/2011		
which would entitle the applicant to cond Title 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it a cri	me for any person knowingly a	nd willfully to make to any department	or agency of the United		
States any false, fictitious or fraudulent	statements or representations as to	any matter within its jurisdiction	on	· .		

If earthen pits are used in association with the drilling of this obtained prior to pit construction.

F-06-08

Form 3160 3 (April 2004)

well, an OCD pit permit must be

FORM	APPROV	ED
OMB N	lo. 1004-0	137
Expires	March 31,	200

UNITED STATES			NMJC 105217			
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT						
			6. If Indian, Allotee or Tribe Name			
APPLICATION FOR PERMIT TO	DRILL OR REENTER		O. II UIUIAN, AIR	otee of thoe N	airc	
la. Type of work. DR LL REENTI	ER	1 1/29	7 If Unit or CA	Agreement, Van	ne and No	
<u> </u>	34	1747	8. Lease Name a	and Malt Na		
ib. Type of Well Oil Well Gas Well Other	Single Zone Multip	ple Zone		ald weil No. ider "4" Fede:	rai #2	
2 Name of Operator			API Well No.			
cog Operating LLC 229	137		<u>50 - C</u>)15-	5418	
3a Address 550 W. Texas Ave. Ste. 1300 Midland, TX 79701	35. Phone No. (include area code)		10. Field and Pool			
	(432) 683-7443 9	6085	Wildcat, Wolfcamp			
4. I ocation of Well (Report location clearly and in accordance with an	ry State reduitements.		H. Sec., T. R. M.	or Blk. and Surv	ey of Area	
At surface 450' FSL & 760' PWL	APR 1 4 2006		Section 4,	T-19-S, R-31-	E	
At proposed prod. zone Same	OCD-ARTESIA					
14. Distance in miles and direction from nearest town or post office*			12. County or Pari		13 State	
Approximately 50 miles Southwest of Hobbs, NM	Lik No of some in large	1,0 5-0-1-0	Eddy Coun		NM	
15 Distance from proposed* location to nearest	16. No. of acres in lease	17 Spacing	Unit dedicated to t	THIS ALEN		
property or lease line, ft. Also to nearest drig, unit line, if any) 450*	320	40				
18 Distance from proposed location*	19. Proposed Depth	20 BLMBI	A Bond No. on fil	t		
to nearest well, drilling, completed, applied for, on this lease, ft.	10,500	NMB 0	00125			
21 Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approximate date work will sta	n+	23. Estimated du	ration		
3557' Gr	05/15/2006		45 days			
			breded Wa	es redu		
The following completed in accordance with the requirements of Onsho	re Oil and Gas Order No.1, shall be a	tlached to this	form:			
1 Well plat certified by a registered surveyor	4. Bond to cover t	he operations	unless covered by	y an existing bo	ind on file (see	
2. A Drilling Plan.	Item 20 above).	****				
3 A Surface Use Plan (if the location is on National Forest System St PO shall be filed with the appropriate Forest Service Office)	6. Such other site	specific infon	mation and/or plan	ns as may be rec	quired by the	
	authorized offx	cer.				
25 Signature	Name (Printed Typed) Erick Nelson			Date	er, i	
Title Operations Engineer-New Mexico	Dick (1030)			1.5		
Approved by (Signature)	Name (Printed Typed)			Date A Di	R 1 2 200	
/s/ Tony J. Herrell	/s/ Tony	v.I Ha	emall	- AP	I T & Chi	
Title FIELD MANAGER	Office CARLSB	AD FI	ELD OF	FICE		
Application approval does not warrant or certify that the applicant hold				-	policantto	
conduct operations thereon.	_	PPAO		D 1 V		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

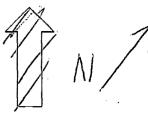
DECLARED WATER BASIN CEMENT BEHIND THE CASING MUST BE C/A

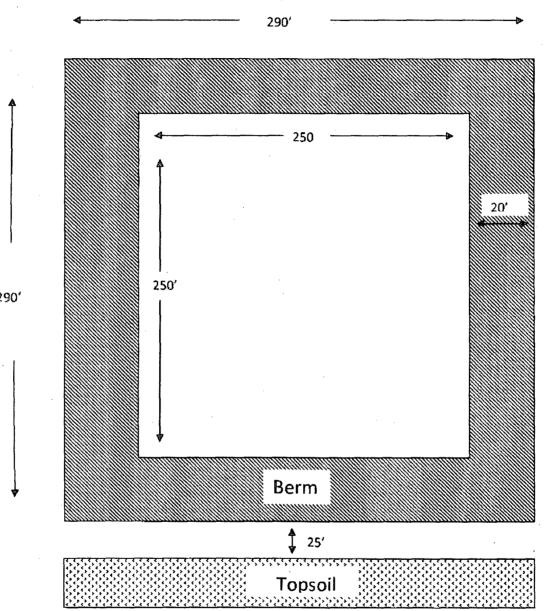
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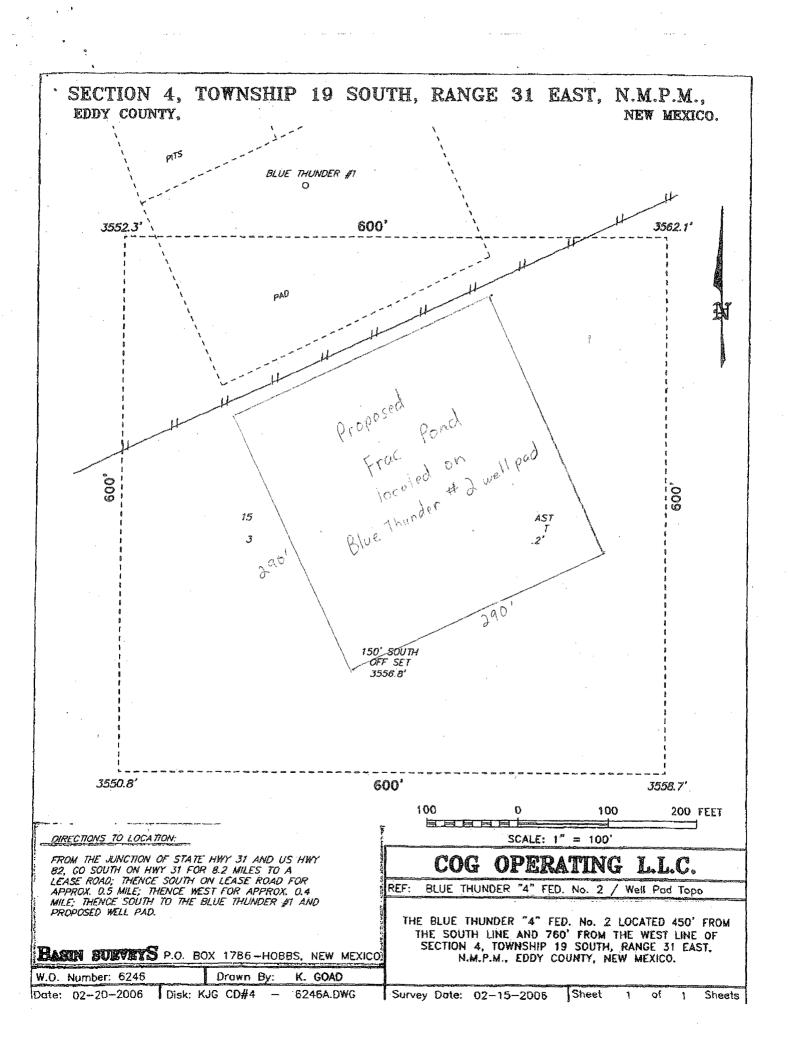
CORROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

Blue Thunder 4 Fed #2 Frac Pond





Pond depth: 12-14 feet



BLM LEASE NUMBER: NMNM-105217 COMPANY NAME: COG Operating LLC ASSOCIATED WELL NO. & NAME: Blue Thunder 4 Federal No 2 frac pond

FRAC POND CONDITIONS OF APPROVAL

A copy of the APD, Right-of-Way Request, or Sundry Notice and attachments, including stipulations, survey plat and diagram, will be on location during construction. BLM personnel may request to see a copy of your permit during construction to ensure compliance with all conditions of approval.

Holder agrees to comply with the following conditions of approval to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this permit.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated.
- 3. Required Standard Conditions of Approval:
 - Contact the Supervisory Environmental Protection Specialist, Jim Amos, at 575-234-5909 at least 24 hours prior to starting construction.
 - The frac pond will only be authorized to contain freshwater and testing of water quality is required. Additives are not allowed without consent of the authorized officer.
 - If at any time the water in the frac pond becomes polluted with salts or other contaminants, use of the frac pond will cease and desist, and all liquids will be removed from the frac pond and disposed of properly.
 - Confine all construction and maintenance activity to the authorized area.
 - Temporary pipelines flowing from the frac pond to the target well will be laid along existing roadways unless an exception has been granted by the authorized officer.
 - Mineral materials extracted during construction of the frac pond will be stored onlocation and/or used for constructing the frac pond.
 - The frac pond will be lined.

- The operator shall stockpile topsoil approximately 25 feet outside the bermed perimeter of the pond in a low profile manner, reasonably protected from wind and water erosion
- Topsoil shall not be used for constructing the frac pond. The topsoil will be used for final reclamation purposes only.
- The frac pond shall be fenced on all sides.
- Frac pond boundary fences will be marked by using highly visible and/or reflective markers
- Inner walls of the frac pond will have a minimum of a 3:1 slope ratio in order to minimize the entrapment of fauna
- Install earthen erosion-control structures as are suitable for the specific terrain and soil conditions.
- The plastic lining will be removed prior to final abandonment
- Reclamation efforts will commence immediately after the frac pond is no longer needed for the purpose of completing wells.
- Within 3 months of completion of frac operations on associated wells, all earthwork and final reclamation must be completed. This includes reclaiming and/or removal of:

Any roads approved for use with the pond

Surface water lines

Tanks, pumps, fencing etc.

• Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Requirements for Operations and Final Reclamation:

- 4. If, during any phase of the construction, operation, maintenance, or termination of the frac pond, any pollutant should be released from the contaminated frac pond, the control and total removal, disposal, and cleaning up of such pollutant, wherever found, shall be the responsibility of holder, regardless of fault.
- 5. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The

holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

- 6. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 7. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 8. After all disturbed areas have been satisfactorily contoured and prepared for seeding the location needs to be revegetated with the seed mixture provided. Seeding may need to be repeated until revegetation is successful. Operators shall contact Jim Amos, Supervisor, Environmental Protection (575)234-5909, **prior** to beginning surface reclamation operations.
- 9. Seeding is required: Use the following seed mix.

() seed mixture 1	() seed mixture 3
() seed mixture 2	() seed mixture 4
(x) LPC mixture	() Aplomado Falcon mix

10. The topsoil to be stripped is approximately 6 inches in depth.

11. Special Stipulations:

The reserve pit area located to the south of the existing Blue Thunder 4 Federal #2 well pad shall be reclaimed during reclamation of the frac pond.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical

exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted.

12. Upon failure of holder to control, dispose of, or clean up such discharge, or to repair all damages resulting there-from, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

EA File #: EA-11-337