District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

BERRY;BONE SPRING, NORTH

State of New Mexico Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

Permit 140740

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE 1. Operator Name and Address 2. OGRID Number COG OPERATING LLC 229137 550 W TEXAS 3. API Number MIDLAND, TX 79701 30-025-40375 4. Property Code 5. Property Name 6. Well No. 38834 LIGHTNING P-38 STATE 003H 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Ι	1	215	33E	I	1980	S	330	E	LEA

8. Pool Information

5535

Additional Well Information 9. Work Type 10. Well Type 11. Cable/Rotary 12. Lease Type 13. Ground Level Elevation New Well OIL 3752 State 14. Multiple 15. Proposed Depth 16. Formation 18. Spud Date 17. Contractor N 15165 12/12/2011 3rd Bone Spring Sand Depth to Ground water Distance from nearest fresh water well Distance to nearest surface water

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1750	1100	
Int1	12.25	9.625	40	5500	1400	
Prod	7.875	5.5	17	15165	2300	5300

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 1750' with Fresh Water. Run 13-3/8", 54.5#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 5500' with Brine, and run 9-5/8", 40# J55/N80 and cement to surface. Drill 8-3/4" hole with cut brine to 11,600', run logs and plug back. Kick off and drill 8-3/4" curve then drill 7-7/8" lateral to approx 15,950" MD. Run 5-1/2", 17#, P-110 csg and cement to 5300" in 1 stage.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	Cameron

of my knowledge and belief.	ion given above is true and complete to the best ing pit will be constructed according to	OIL CONSERVATION DIVISION			
NMOCD guidelines . a gen OCD-approved plan .	eral permit \Box , or an (attached) alternative	Approved By: Paul Kautz			
Printed Name: Electronica	lly filed by Diane Kuykendall	Title: Geologist			
Title: Production Reporting	ng Mgr	Approved Date: 12/16/2011	Expiration Date: 12/16/2013		
Email Address: dkuykend	all@conchoresources.com				
Date: 11/29/2011	Phone: 432-683-7443	Conditions of Approval Attac	hed		

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **Oil Conservation Division**

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District I

District II

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State of New Mexico Energy, Minerals and Natural Resources

1220 S. St Francis Dr. Santa Fe, NM 87505

W	ELL LOCATION AND ACK	LAGE DEDICATIO	NPLAI
1. API Number	2. Pool Code	BERRY;B	3. Pool Name
30-025-40375	5535		ONE SPRING, NORTH
4. Property Code	5. Property		6. Well No.
38834	LIGHTNING F		003H
7. OGRID No.	8. Operator		9. Elevation
229137	COG OPERA		3752

NELL LOCATION AND ACDEACE DEDICATION DI AT

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	1	215	33E		1980	S	330	E	LEA

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	1	21S	33E	L	1980	S	330	W	LEA
	cated Acres 0.00	13. J	oint or Infill	14	. Consolidation	Code		15. Order No.	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

E-Signed By: Diane Kuykendall Title: Production Reporting Mgr Date: 11/29/2011

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Surveyed By: Filimon Jaramillo

Date of Survey: 11/19/2011

Certificate Number: PLS12797

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: LIGHTNING P-38 STATE #003H

API: 30-025-40375

Created By	Comment	Comment Date
mreyes1	OIL: COG Operating has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore we do not believe that an H2S Contingency Plan would be necessary.	11/29/2011
pkautz	Project area includes more than one state lease. Will require Com agreement with SLO	11/30/2011
pkautz	Land s/S	11/30/2011
pkautz	Disregard muti-lease coment	12/16/2011

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: LIGHTNING P-38 STATE #003H

API: 30-025-40375

OCD Reviewer	Condition
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string