<u>District I</u> 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 Few (505) 334-6170

Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

# State of New Mexico

# Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505 Form C-101 August 1, 2011

Permit 155108

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

	tor Name and Address DPERATING LLC	2. OGRID Number	
One Concho Center Midland, TX 79701		229137 3. API Number 30-025-40795	
4. Property Code	5. Property Name	6. Well No.	
38834	LIGHTNING P-38 STATE	006H	

#### 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	1	218	33E	P	3174	S	543	E	LEA

#### 8. Pool Information

BERRY:BONE SPRING, NORTH	5535

### Additional Well Information

	T	Additional Well Inform	ation	11
9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lesse Type State	13. Ground Level Elevation 3751
14. Multiple 15. Proposed Depth N 15793		oth 16. Formation 3rd Bone Spring Sand	17. Contractor	18. Spud Date
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	1803	1150	Estimated TOC
Int1	12.25	9.625	40	5500	1400	
Prod	7.875	5.5	17	15793	1475	5000

# Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 1803' 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 in 2 stages. Drill 7-7/8" curve and lateral with cut brine to approx 15,793'MD. Run 5-1/2", 17#, P-110 csg and cement to 5000' in 1 stage.

Proposed Blowout Prevention Program

	1 Toposcu Dionout 1 1	Crention Frogram		
Type	Working Pressure	Test Pressure	Manufacturer	
DoubleRam	3000	3000	Cameron	7

I hereby certify that the information given above of my knowledge and belief. I further certify that the drilling pit will be	•	OIL CONSERVATION DIVISION			
NMOCD guidelines , a general permit . OCD-approved plan .	, or an (attached) alternative	Approved By: Paul Kautz			
Printed Name: Electronically filed by I	Diane Kuykendall	Title: Geologist			
Title: Production Reporting Mgr		Approved Date: 9/26/2012	Expiration Date: 9/26/2014		
Email Address: dkuykendall@conchor	esources.com	1-77/1 2			
Date: 9/18/2012 Phor	ne: 432-683-7443	Conditions of Approval Atta	ched		

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Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form C-102 August 1, 2011

Permit 155108

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-40795			3. Pool Name ONE SPRING, NORTH	
4. Property Code 38834	5. Property Name LIGHTNING P-38 STATE		6. Well No. 006H	
7. OGRID No. 229137		8. Operator Name COG OPERATING LLC		

#### 10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	1	21S	33E	16	3174	S	543	E	LEA

### 11. Bottom Hole Location If Different From Surface

			Dottom						
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	1	218	33E	M	3310	S	330	W	LEA
1	cated Acres	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: 9/18/2012

## 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: Jeffrey Hudson Date of Survey: 7/8/2012 Certificate Number: 20559

# **Permit Comments**

Operator: COG OPERATING LLC , 229137 Well: LIGHTNING P-38 STATE #006H

API: 30-025-40795

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.	9/18/2012
pkautz	Land s/S	9/19/2012
CHERRERA	OCD RECEIVED FORM C144 CLEZ. OCD PERMIT #P1-05243	9/26/2012

# Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: LIGHTNING P-38 STATE #006H

API: 30-025-40795

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				