

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-8161 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) 334-8178 Fax:(505) 334-6170
District IV
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 194003

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

1. Operator Name and Address COG OPERATING LLC One Concho Center Midland, TX 79701		2. OGRID Number 229137
4. Property Code 40401		3. API Number 30-015-42719
5. Property Name DARTHROW STATE		6. Well No. 004H

7. Surface Location

UL - Lot	C	Section	19	Township	20S	Range	30E	Lot Idn	Feet From	230	N/S Line	N	Feet From	1630	E/W Line	W	County	Eddy
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8. Proposed Bottom Hole Location

UL - Lot	N	Section	19	Township	20S	Range	30E	Lot Idn	N	Feet From	330	N/S Line	S	Feet From	2260	E/W Line	W	County	Eddy
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9. Pool Information

PARKWAY;BONE SPRING	49622
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3314
16. Multiple N	17. Proposed Depth 13000	18. Formation Bone Spring	19. Contractor	20. Spud Date 10/13/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	26	20	94	350	800	0
Int1	17.5	13.375	54.5	1750	1000	0
Int2	12.25	9.625	40	3500	2500	0
Prod	8.75	7	29	7779	800	0
Prod	8.75	5.5	17	13000	600	3500

Casing/Cement Program: Additional Comments

Plan to drill 26" hole to 350' w/fresh water, run 20" 94# H40 casing and cement to surface. Drill 17 1/2" hole to 1750' w/brine water, run 13 3/8" 54.5# J55 casing and cement to surface. Drill 12 1/4" hole to 3500' w/cut brine, run 9 5/8" 40# J55 casing and cement to surface. Drill 8 3/4" hole w/cut brine to approximately 7879', kick off and drill 8 3/4" curve to approximately 8691' MD, 8400' TVD. Drill 8 3/4" lateral w/cut brine to approximately 13000' MD. Run tapered casing string of 7" 29# P110 and 5 1/2" 17# P110 casing and cement.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Diane Kuykendall Title: Production Reporting Mgr Email Address: production@concho.com Date: 10/14/2014	Approved By: Randy Dade Title: District Supervisor Approved Date: 10/14/2014 Expiration Date: 10/14/2016 Conditions of Approval Attached

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Form C-102
August 1, 2011
Permit 194003

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-42719	2. Pool Code 49622	3. Pool Name PARKWAY,BONE SPRING
4. Property Code 40401	5. Property Name DARTROW STATE	6. Well No. 004H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3314

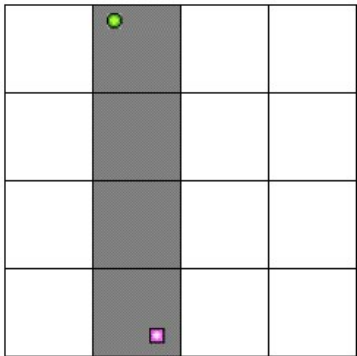
10. Surface Location

UL - Lot C	Section 19	Township 20S	Range 30E	Lot Idn	Feet From 230	N/S Line N	Feet From 1630	E/W Line W	County Eddy
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11. Bottom Hole Location If Different From Surface

UL - Lot N	Section 19	Township 20S	Range 30E	Lot Idn N	Feet From 330	N/S Line S	Feet From 2260	E/W Line W	County Eddy
12. Dedicated Acres 160.00	13. Joint 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

	<p style="text-align: center;">OPERATOR CERTIFICATION</p> <p><i>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.</i></p> <p>E-Signed By: Diane Kuykendall Title: Production Reporting Mgr Date: 10/14/2014</p> <hr/> <p style="text-align: center;">SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p>Surveyed By: CHAD HARCROW Date of Survey: 7/17/2014 Certificate Number: 17777</p>
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Form APD Comments

Permit 194003

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-015-42719
	Well: DARTHROW STATE #004H

Created By	Comment	Comment Date
mparker	This well is a skid of Darthrow State #3H, API #30-015-42521	10/13/2014
RDADE		10/14/2014

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Form APD Conditions

Permit 194003

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-015-42719
		Well: DARTHROW STATE #004H
OCD Reviewer	Condition	
CSHAPARD	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	