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

## 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 153857

APPLICATION FO	R PERMIT TO DRIL	L, RE-ENTER, DEEPEN,	PLUGBACK, OR	ADD A ZONE

	ator Name and Address DPERATING LLC	2. OGRID Number	
	229137		
500 700	ONCHO CENTER .AND , TX 79701	3. API Number	
060107		30-015-40622	
4. Property Code	5. Property Name	6. Well No.	
308166	MUNNYNTHABANK STATE	002H	

#### 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
В	34	24S	27E	В	190	N	2260	E	EDDY

#### 8. Pool Information

WILLOW LAKE BONE SPRING, WEST 964	WILLOW LAKE BONE SPRING, WEST	9641:
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#### Additional Well Information

			. Idditional Well Informa	tion	
9. Work Type New Well	10. Well		11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3221
14. Multiple	iple 15. Proposed Depth		h 16. Formation 17. C		18. Spud Date
N	12	268	2nd Bone Spring Sand	100	8/31/2012
Depth to Ground	water		Distance from nearest fresh water w	el1	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	48	300	300					
Int1	12.25	9.625	36	2375	650					
Prod	7.875	5.5	17	12268	1650	1875				

#### Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 300' with Fresh Water. Run 13-3/8", 48#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 2375' with Brine, and run 9-5/8", 36#, J55 and cement to surface. Drill 7-7/8" curve and lateral with cut brine to approx 12,268' MD. Run 5-1/2", 17#, P-110 csg and cement to 1875' in 1 stage.

Proposed Blowout Prevention Program

	Troposed Blowout Trevention Trogram										
Type	Working Pressure	Test Pressure	Manufacturer								
DoubleRam	3000	3000	Cameron	7							

I hereby certify that the information given a of my knowledge and belief. I further certify that the drilling pit wil	•	OIL CONSERV	ATION DIVISION
NMOCD guidelines , a general permit OCD-approved plan .	t , or an (attached) alternative	Approved By: Randy Dade	
Printed Name: Electronically filed b	y Diane Kuykendall	Title: District Supervisor	
Title: Production Reporting Mgr		Approved Date: 8/20/2012	Expiration Date: 8/20/2014
Email Address: dkuykendall@concl	horesources.com	No. of the second secon	
Date: 8/20/2012 P	hone: 432-683-7443	Conditions of Approval Attac	ched

#### <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

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## State of New Mexico

## Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505 Form C-102 August 1, 2011

Permit 153857

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-40622	2. Pool Code 96415	3. Pool Name WILLOW LAKE BONE SPRING, WEST	
4. Property Code	5. Proper		6. Well No.
308166	MUNNYNTHA		002H
7. OGRID No.	8. Operate		9. Elevation
229137	COG OPERA		3221

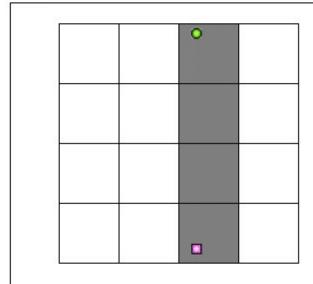
#### 10. Surface Location

-		ATTICK STATES					The second second	1	100 N 100 N 100 N 100 N	Or The Control of the
	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	D	24	246	275		100	NT.	2260	T-	EDDY
4	В	54	245	27E		190	IN	2260	E	EDDY

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

JL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	34	24S	27E	0	330	S	2260	E	EDDY
	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: 8/20/2012

#### 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: Chad Harcrow Date of Survey: 7/17/2012 Certificate Number: 17777

## **Permit Comments**

Operator: COG OPERATING LLC , 229137 Well: MUNNYNTHABANK STATE #002H

API: 30-015-40622

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.	8/20/2012
CSHAPARD	Land	8/20/2012
CSHAPARD	Land s/S	8/20/2012

# Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: MUNNYNTHABANK STATE #002H

API: 30-015-40622

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