

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

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

1. Operator Name and Address MARBOB ENERGY CORP PO Box 227 Artesia, NM 88211		2. OGRID Number 14049
		3. API Number 30-015-36130
4. Property Code 37003	5. Property Name MUNNYNTHABANK STATE	6. Well No. 001H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	34	24S	27E	H	2279	N	330	E	EDDY

**8. Pool Information**

WILLOW LAKE BONE SPRING, WEST	96415
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**Additional Well Information**

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3184
14. Multiple N	15. Proposed Depth	16. Formation Bone Spring	17. Contractor	18. Spud Date 3/13/2008
Depth to Ground water 250		Distance from nearest fresh water well		Distance to nearest surface water

Pit: Liner: Synthetic ☐ mils thick Clay ☐ Pit Volume: bbls Drilling Method:  
Closed Loop System ☒ Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

**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	350	350	0
Int1	12.25	9.625	36	2300	500	0
Prod	7.875	5.5	17	10300	800	2000

**Casing/Cement Program: Additional Comments**

We propose to drill 17 1/2" hole to 350' with fresh water, run 48# H40 casing and set @ 350' with 350 sk cement circulated to surface: drill 12 1/4" hole to 2300' with Brine water, run 2300' of 36# 9 5/8" J55 casing and cement to surface with 500 sk cement: drill 7 7/8" hole to 8700' then begin drilling curve to be horizontal @ 8200' to TD of 10300' with cut brine: Run 10300' of 5 1/2" 17# N80 casing and cement with 800 sk cement TOC 2000'.

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	Cameron

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input type="checkbox"/> a general permit <input type="checkbox"/> or an (attached) alternative OCD-approved plan <input type="checkbox"/> . Printed Name: Electronically filed by Diana Briggs Title: Production Analyst Email Address: production@marbob.com Date: 2/13/2008   Phone: 505-748-3303	<b>OIL CONSERVATION DIVISION</b>	
	Approved By: Bryan Arrant	
	Title: Geologist	
	Approved Date: 2/20/2008	Expiration Date: 2/20/2010
	Conditions of Approval Attached	

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(505) 393-6161 Fax:(505) 393-0720

**District II**  
 1301 W. Grand Ave., Artesia, NM 88210  
 Phone:(505) 748-1283 Fax:(505) 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

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Form C-102  
 Permit 69339

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-36130	2. Pool Code 96415	3. Pool Name WILLOW LAKE BONE SPRING, WEST
4. Property Code 37003	5. Property Name MUNNYNTHABANK STATE	6. Well No. 001H
7. OGRID No. 14049	8. Operator Name MARBOB ENERGY CORP	9. Elevation 3184



**10. Surface Location**

UL - Lot H	Section 34	Township 24S	Range 27E	Lot Idn H	Feet From 2279	N/S Line N	Feet From 330	E/W Line E	County EDDY
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**11. Bottom Hole Location If Different From Surface**

UL - Lot A	Section 34	Township 24S	Range 27E	Lot Idn A	Feet From 330	N/S Line N	Feet From 330	E/W Line E	County EDDY
12. Dedicated Acres 80.00		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**

**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: Diana Briggs

Title: Production Analyst

Date: 2/13/2008

**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: Gary Eidson

Date of Survey: 1/21/2008

Certificate Number: 12641

## Permit Comments

Operator: MARBOB ENERGY CORP , 14049  
Well: MUNNINTHABANK STATE #001H  
API: 30-015-36130

Created By	Comment	Comment Date
MARBOB4	Marbob Energy 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.	2/13/2008
MARBOB4	Marbob will be using a closed mud loop system with fresh water pits.	2/13/2008

# Permit Conditions of Approval

Operator: MARBOB ENERGY CORP , 14049

Well: MUNNINTHABANK STATE #001H

API: 30-015-36130

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	Operator must use fresh water mud when drilling surface hole.