| District I 1625 N. French Dr., Hobbs, NM 88240 | State of New Mexico | Form C-101 |
|--|---|------------------------|
| Phone: (575) 393-6161 Fax. (575) 393-0720 District II | Energy Minerals and Natural Reso | Revised July 18, 2013 |
| 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District HI | Oil Conservation Division | |
| 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax (505) 334-6170 | 1220 South St. Francis Dr. | |
| District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax (505) 476-3462 | Santa Fe, NM 87505 | |
| APPLICATION FOR PER | RMIT TO DRILL, RE-ENTER, DEEPEN, P | LUGBACK, OR ADD A ZONE |
| ' Ope | rator Name and Address | ~ OGRID Number |
| 00 | | |

| 2208 West Main Street Artesia, NM 88210 | | | | | | | | 30-02 | 229137 API Number | | |
|---|---------------------|-----------------|--|--|---------------------|---------------------|----------------------|--------------------------------------|--------------------------------------|----------------------|--|
| | | | | Property Name | om | | 70-02 | Well No 24H | | | |
| 21 | 7. Surface Location | | | | | | | | | | |
| UL - Lot | | | Feet from | | | Feet From | E/W Line Cou | | | | |
| 0 | 20 | 245 | 35E | | 210' | 5 | South | 2230 | East | Lea | |
| * Proposed Bottom Hole Location UL-Lot Section Township Range Lot Idn Feet from N/S Line Feet From E/W Line County | | | | | | | | | | | |
| UL - Lot G | Section 32 | Township 24S | Range 35E | Lot Idn | Feet from 2440' | | | | E/W Line East | County | |
| | | | | | | | | 2310' | | | |
| | | | | And the subscription of th | ol Informatio | on | | | | | |
| Wildcat; Wolfcam | un L | VC- | 025 | 9-09 | S24 | 357 | 32M | WOLFE | BONE | 99090 | |
| | | | | , | | | 1 | | | | |
| 11 Work | Type | | 12. Well Type | Additional Well Information | | | mation 14 Lease Type | | ¹³ Ground Level Elevation | | |
| New V | Well | | Oil | Oil | | | | State | | 3318.7' | |
| ¹⁶ Multiple | | 20200 | Proposed Depth ¹⁴ Formati 20200' Wolfcam | | | | " Contractor | ²⁰ Spud Date 5/15/2017 | | | |
| Depth to Groun | id water | | Distance from nearest fresh water | | | vell Distance to ne | | | to nearest surface | earest 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 | | Casing Size | Casing Weight/ft | | Setting Depth Sacks | | Sacks of C | Cement | Estimated TOC | | |
| Surface 13-1/2 | | -1/2 | 10-3/4 | 10-3/4 45.5 | | 900' | | 700 | | | |
| Intrind 1 9-7/8 | | 7/8 | 7-5/8 | 29.7 | | 118 | 11875' 10 | | 0 | | |
| 7) Intend 2 | 6- | -3/4 | 5-1/2 | 23 | | 0' 11375' | | | | | |
| Production | 6- | 3/4 | 5 | 18 | | 11375' - 20200' | | 150 | D | 11000* | |
| Casing/Cement Program: Additional Comments | | | | | | | | | | | |
| Drill 13-1/2" hole to ~900' w/ fresh water spud mud. Run 10-3/4" 45.5# HCN80 BTC casing to TD and cement to surface in one stage. Drill 9-7/8" hole to ~11,875' with brine diesel emulsion WBM. Run 7-5/8" 29.7# HCP110 BTC casing to TD and cement to surface in one stage. Drill 6-3/4" vertical hole, curve & lateral to 20,200' with OBM. Run 5-1/2" 23# P110 BTC casing from 0' – 11,375' and 5" 18# HCP110 BTC from 11,375 to TD and cement to 11,000' in one stage. | | | | | | | | | | | |
| 22. Proposed Blowout Prevention Program | | | | | | | | | | | |
| Туре | | ` | Working Pressure | | Test Pressure | | | | Aanufacturer | | |
| Double Ram 50 | | | 5000 | 5000 5000 | | | Can | | 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 that I have complied with 19.15.14.9 (A) NMAC And/or 19.15.14.9 (B) NMAC , if applitable. | | | | and/or | Approved By: | | | | | | |
| Printed name: Mayte Reyes | | | | 8 | Titl | le: | // | | Pre- | etroleum Engi | |
| | | | | | | | | | | | |

| Printed name: Mayte Reyes | 1 8 | Title: Petroleum Engined | | | | |
|------------------------------------|---------------------|---|---|--|--|--|
| Title: Regulatory Analyst | | Approved Date: 01/02/17 Expiration Date: 06/02/19 | 7 | | | |
| E-mail Address: mreyes 1@concho.co | m | 7/0/11 | | | | |
| Date: 5/1/2017 | Phone: 575-748-6945 | Conditions of Approval Attached | | | | |

Viking Helmet State Com #24H

Casing and Cement

| String | Hole Size | Csg OD | PPF | Depth | Sx Cement | TOC |
|--------------|------------------|---------|-------|-----------------|-----------|---------|
| Surface | 13-1/2" | 10-3/4" | 45.5# | 900' | 700 | 0' |
| Intermediate | 9-7/8" | 7-5/8" | 29.7# | 11,875' | 1600 | 0' |
| Production | 6-3/4" | 5-1/2" | 23# | 0'-11,375' | | |
| Production | 6-3/4" | 5" | 18# | 11,375'-20,200' | 1500 | 11,000' |

Well Plan

Drill 13-1/2" hole to ~900' w/ fresh water spud mud. Run 10-3/4" 45.5# HCN80 BTC casing to TD and cement to surface in one stage.

Drill 9-7/8" hole to ~11,875' with brine diesel emulsion WBM. Run 7-5/8" 29.7# HCP110 BTC casing to TD and cement to surface in one stage.

Drill 6-3/4" vertical hole, curve & lateral to 20,200' with OBM. Run 5-1/2" 23# P110 BTC casing from 0' - 11,375' and 5" 18# HCP110 BTC from 11,375 to TD and cement to 11,000' in one stage.

Well Control

<u>Type</u> Double Ram Working Pressure 5000 psi Test Pressure 5000 psi Manufacture Cameron