

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101  
May 27, 2004

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

JUL 23 2007  
Submit to appropriate District Office  
OCD-ARTESIA  
☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address COG OPERATING LLC 550 W Texas, Suite 1300 Midland, TX 79701		<sup>2</sup> OGRID Number 299137
		<sup>3</sup> API Number 30-015-34654
<sup>4</sup> Property Code 35472	<sup>5</sup> Property Name Aladdin 11 State	<sup>6</sup> Well No. 1
<sup>9</sup> Proposed Pool Hess Hills w/ Atoka		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location									
UL or lot no. K	Section 11	Township 24S	Range 23E	Lot ldn	Feet from the 1707	North/South line South	Feet from the 1950	East/West line West	County Eddy

<sup>8</sup> Proposed Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>11</sup> Work Type Code BCP					<sup>12</sup> Well Type Code G		<sup>13</sup> Cable/Rotary Rotary		<sup>14</sup> Lease Type Code S		<sup>15</sup> Ground Level Elevation 4380 GL	
<sup>16</sup> Multiple N		<sup>17</sup> Proposed Depth 10,890			<sup>18</sup> Formation Strawn			<sup>19</sup> Contractor		<sup>20</sup> Spud Date 09/23/06		
Depth to Groundwater 100				Distance from nearest fresh water well >1000				Distance from nearest surface water 250				
Pit: Liner: Synthetic <input type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume: 35000 bbls Drilling Method:												
Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>												

<sup>21</sup> Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	48#	405	365	Surface
12 1/4	8 5/8	32#	2606	900	Surface
7 7/8	5 1/2	17#	10890	1400	5430

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

COG Operating, LLC proposes to recomple to the Wildcat; Strawn (Gas) as follows:

- Set RBP @ 9650' and dump bail 2 sx sand on top. Perforate Strawn w/ 1 jsfp from 9502-28' (27 holes).
- TIH w/ 5 1/2" packer testing tubing to 7000 psi. Set packer @ 9575' and test RBP to 3000 psi.
- Pull packer to 9528' and spot 3 bbls 15% acid across perms. Pull packer to 9350' and reverse acid into tubing.
- Set packer and flange up wellhead. Pressure casing to 1000 psi. Acidize perms w/ 4000 gals 15% NEFE and 54 ball sealers.
- Flow well back and swab. Evaluate for further treatment or run build up.

<sup>23</sup> 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 ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name. Kanicia Carrillo  
Title: Regulatory Analyst  
E-mail Address. kcarrillo@conchoresources.com

Date. 07/20/07

Phone: 432-685-4334

4332

OIL CONSERVATION DIVISION

Approved by.

BRYAN G. ARRANT

DISTRICT II GEOLOGIST

Approval Date.

AUG 07 2007

Expiration Date.

AUG 07 2008

Conditions of Approval Attached ☐

State of New Mexico

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-34654	Pool Code 97398	Pool Name Hess N. 11 S. 1 E. A Toke GAS
Property Code 35472	Property Name ALADDIN 11 STATE	Well Number 1
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 4380

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	11	24-S	23-E		1707	SOUTH	1950	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill	Consolidation Code	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>1950'</p> <p>1707'</p> <p>GEODETTIC COORDINATES NAD 27 NME Y=447292.2 N X=426371.4 E LAT = 32°13'46.20" N LONG. = 104°34'17.20" W</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p></p> <p>Signature</p> <p>Kanicia Carrillo</p> <p>Printed Name</p> <p>Regulatory Analyst</p> <p>Title</p> <p>07/20/07</p> <p>Date</p>
	<p><b>SURVEYOR CERTIFICATION</b></p> <p>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 knowledge and belief.</p> <p></p> <p>Date Surveyed SEP 14/06</p> <p>Signature &amp; Seal of Professional Surveyor</p> <p>05.11.1516</p>
	<p>Certificate No. RONALD J. EIDSON 3239</p>