

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  
June 16, 2008

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

Submit to appropriate District Office

☐ AMENDED REPORT

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

Operator Name and Address Manzano, LLC, P.O. Box 2107, Roswell, NM 88202-2107		231429 <sup>2</sup> O&G RID Number
30-015-38971 <sup>3</sup> API Number		
<sup>4</sup> Property Code 38503	<sup>5</sup> Property Name CROWN-APPLE 12 STATE	<sup>6</sup> Well No. 1H
<sup>9</sup> Proposed Pool 1 Ishelake CROWN-APPLE ABO		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no. M	Section 12	Township 16-S	Range 28-E	Lot Idn	Feet from the 400	North/South line SOUTH	Feet from the 200	East/West line WEST	County EDDY
--------------------	---------------	------------------	---------------	---------	----------------------	---------------------------	----------------------	------------------------	----------------

<sup>8</sup> Proposed Bottom Hole Location If Different From Surface

UL or lot no. P	Section 12	Township 16-S	Range 28-E	Lot Idn	Feet from the 400	North/South line SOUTH	Feet from the 330	East/West line EAST	County EDDY
--------------------	---------------	------------------	---------------	---------	----------------------	---------------------------	----------------------	------------------------	----------------

Additional Well Information

<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3533'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 6680'TVD/11150'MD	<sup>18</sup> Formation ABO	<sup>19</sup> Contractor	<sup>20</sup> Spud Date 06/01/2011

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17.5	13.375	48	275	300	0
12.25	9.625	36	2300	1000	0
8.75	7.00	26	7000	1250	0
6.125	4.50	11.6	11150	0	N/A

<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.

DRILL 17.5" HOLE TO 275' W/FW MUD, RUN 13.375" CASING TO TD & CEMENT TO SURFACE.  
DRILL 12.25" HOLE TO 2300' W/BW MUD, RUN 9.625" CASING TO TD & CEMENT TO SURFACE.  
DRILL 8.75" HOLE THRU CURVE TO 7000' W/CBW, RUN 7" CASING TO TD & CEMENT TO SURFACE. DRILL 6.125" LATERAL TO 11150', RUN 14 STAGE PACKER PLUS TOOLS TO TD  
FRAC WELL W/1,250,000# SAND & PUT ON PRODUCTION

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

*Mike Hanagan*

Printed name: MIKE HANAGAN

Title: MANAGING MEMBER

E-mail Address: mhanagan@qwestoffice.net

Date: 03/09/11

Phone: 575-623-1996

OIL CONSERVATION DIVISION

Approved by:

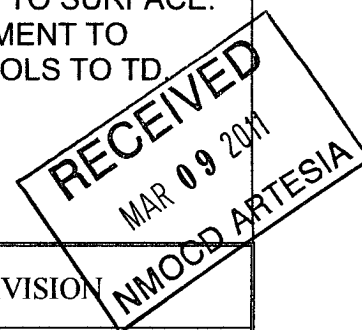
*Jacqueline Reen*  
Geologist

Title:

Approval Date: 4/21/2011

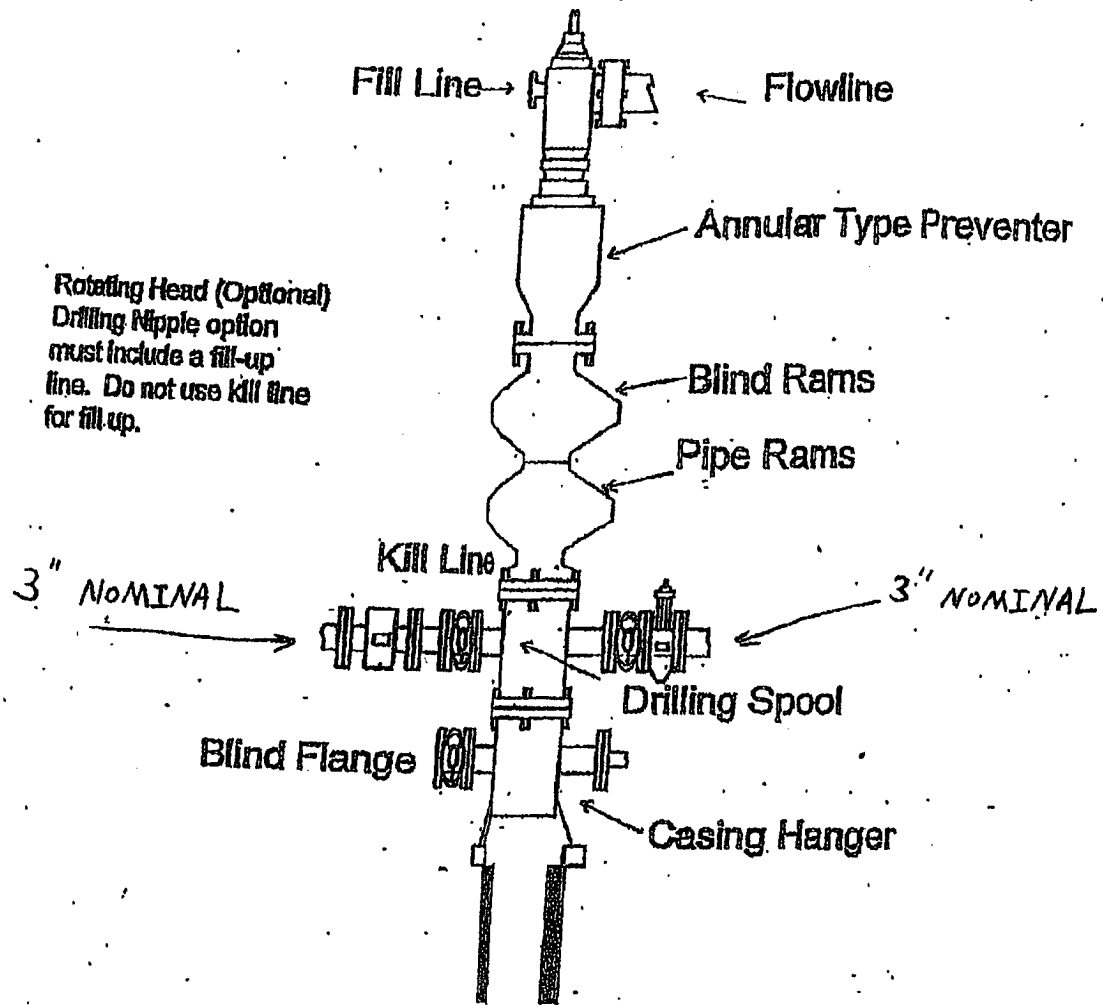
Expiration Date: 4/21/2013

Conditions of Approval Attached ☐



# EXHIBIT "G"

## BOPE SCHEMATIC



900 SERIES