

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

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

¹ Operator Name and Address SAGA PETROLEUM LLC 415 W. WALL, SUITE 1900 MIDLAND, TX 79701		² OGRID Number 148967
		³ API Number 30-025- 36489
⁴ Property Code 33155	⁵ Property Name COPPERHEAD 18 STATE	⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	24S	33E		660	S	660	E	LEA

⁸ Proposed 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
P	18	24S	33E		660	S	660	E	LEA

⁹ Proposed Pool 1 #86430 Triste Draw Atoka, East Gas	¹⁰ Proposed Pool 2 #96765 Triste Draw Morrow, East Gas
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¹¹ Work Type Code New drill	¹² Well Type Code Gas	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code State Lease VA-564	¹⁵ Ground Level Elevation 3541' Gr
¹⁶ Multiple	¹⁷ Proposed Depth 15,800	¹⁸ Formation Morrow	¹⁹ Contractor Grey Wolf	²⁰ Spud Date 12/01/2003

²¹ 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#	700'	575 sx	circ surf
12-1/4"	9-5/8"	40#	5000'	1185 sx	circ surf
8-3/4"	7"	26#	12,600'	575 sx	8000'
6-1/8"	4-1/2"	13.5#	15,800'	325 sx	

²² 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.

Spud 17-1/2" hole, drl to 700' & set 13-3/8" 48# csg, cmt w/575 sx & circ surf. Drl 12-1/4" hole to 5000' & set 9-5/8" 40# csg, cmt w/1185 sx cmt & circ surf. Drl 8-3/4" hole to 12,600' & set 7" 26# csg, cmt w/575 sx cmt. Drl 6-1/8" hole to 15,800' & set 4-1/2" 13.5# csg & cmt w/325 sx cmt. Possible DST's in the Wolfcamp @ estimated 8530', Strawn @ est 9990' & Atoka @ est 10,300'. Before drlg below the 13-3/8" csg, the BOP assy shall consist of a minimum of One Annular Preventer or Two Ram-Type Preventers and a Kelly cock/Stabbing valve. Before drlg below the 9-5/8" inter csg, the BOP assy shall consist of a min of One Annular Preventer, Two Ram-Type Preventers and a Kelly Cock/Stabbing Valve. Before drlg below the 13-3/8" csg, min work'g press of the BOPE shall be 2000 psi. Before drlg below the 9-5/8" csg, min work'g press of the BOPE shall be 5000 psi. Before drlg below the 7" prod csg, min work'g press of the BOPE shall be 10000 psi.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: <i>Bonnie Husband</i>		Approved by: <i>Paul G. Hays</i>	
Printed Name: Bonnie Husband		Title: PETROLEUM ENGINEER	
Title: Production Analyst		Approval Date: NOV 24 2003	Expiration Date:
Date: 11/17/2003	Phone: (432)684-4293	Conditions of Approval: Attached <input type="checkbox"/>	

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

P.O. Box 1980, Hobbs, NM 88241-1980

P.O. Drawer DD, Artesia, NM 88211-0719

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department.

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025- 36489		Pool Code 96765	Pool Name Triste Draw Morrow, East Gas
Property Code 33155	Property Name COPPERHEAD 18 STATE		Well Number 1
OGRID No. 148967	Operator Name SAGA PETROLEUM LLC		Elevation 3541'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	24-S	33-E		660'	SOUTH	660'	EAST	LEA

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
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Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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

LOT 1	
38.43 AC LOT 2	
38.51 AC LOT 3	<p align="center">GEODETTIC COORDINATES</p> <p>NAD 1927 NME</p> <p>Y = 441651.7 N</p> <p>X = 725405.7 E</p> <p>LAT. 32°12'43.62"N</p> <p>LONG. 103°36'16.31"W</p>
38.57 AC LOT 4	
38.65 AC	

A diagram consisting of two perpendicular arrows meeting at a point. The horizontal arrow points to the right and is labeled "660'". The vertical arrow points downwards and is also labeled "660'".

OPERATOR CERTIFICATION

I hereby certify the information contained herein is true and complete to the best of my knowledge and belief.

Bonnie Husband

Signature _____
Bonnie Husband
Printed Name _____
Production Analyst
Title _____
Nov 18, 2003
Date _____

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.

November 05, 2003

Date Surveyed _____ AWB

Signature & Seal of Professional Surveyor _____

The seal is circular with "GARY L. EIDSON" around the top edge and "NEW MEXICO" around the bottom edge. In the center, it says "03.114208". A signature "Gary L. Eidson" and date "11/13/03" are written over the seal.

Certificate No. GARY EIDSON 12641