

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**District III**  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101  
Revised July 18, 2013

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address Paladin Energy Corp. 10290 Monroe Dr., Suite 301 Dallas, Texas 75229		<sup>4</sup> OGRID Number 164070
		<sup>3</sup> API Number 30-025-37122
<sup>6</sup> Property Code	<sup>5</sup> Property Name South Vacuum <i>(36080)</i>	<sup>8</sup> Well No. 274 SWD

**7. Surface Location**

UL - Lot P	Section 27	Township 18S	Range 35E	Lot Idn	Feet from 960	N/S Line South	Feet From 693	E/W Line East	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
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**9. Pool Information**

<sup>9</sup> Pool Name Vacuum; Devonian, South & Vacuum; Mississippian, South (co-mingled)	<sup>10</sup> Pool Code 62010, 97411
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**Additional Well Information**

<sup>11</sup> Work Type P	<sup>12</sup> Well Type S	<sup>13</sup> Cable/Rotary Rotary	<sup>14</sup> Lease Type S	<sup>15</sup> Ground Level Elevation 3886'
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 12,635'	<sup>18</sup> Formation Devonian	<sup>19</sup> Contractor	<sup>20</sup> Spud Date
Depth to Ground water 68'		Distance from nearest fresh water well 1/2 Mile		Distance to nearest surface water 1500 Feet

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
	17-1/2"	13-3/8"	48#	450'	328	sur
	12-1/4"	9-5/8"	40#	3943'	1298	Sur
	8-3/4"	7"	26# & 29#	12,550'	810	6,500'

**Casing/Cement Program: Additional Comments**

Liner = 6-1/4" hole, 5" casing, 18#, set from 12,227' to 14,230', 262 sacks cement, Top of cement at 12,227'
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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
6" Annular Dual Ram	3,000 psi		

<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 I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> if applicable. Signature: <i>David Plaisance</i>		<b>OIL CONSERVATION DIVISION</b>	
Printed name: David Plaisance		Approved By: <i>[Signature]</i>	
Title: VP Exploration & Production		Title: Petroleum Engineer	
E-mail Address: dplaisance@paladinenergy.com		Approved Date: 11/01/13 Expiration Date: 11/01/15	
Date: 11/1/2013	Phone: 214-654-0132 ext 3	Conditions of Approval Attached	

NOV 04 2013

## DISTRICT I

1625 N. Fmeh Dr., Hobbs, NM 88240

## DISTRICT II

1301 W. Grand Avenue, Atesia, 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 Department

Form C-101

May 27, 2004

Submit to Appropriate District Office

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, NM 87505

AMENDED REPORT

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

1 Operator Name and Address PALADIN ENERGY CORP. 10290 Monroe Drive, Suite 301 Dallas, Texas 75229						2 OGRID Number 164070			
4 Property Code 22557						5 Property Name South Vacuum			
9 Proposed Pool 1 Vacuum Devonian, South						10 Proposed Pool 2 Vacuum Mississippian, South			
7 Surface Location									
UL or lot No. P	Section 27	Township 18-S	Range 35-E	Lot. Ind	Feet from the 960	North/South Line South	Feet from the 693	East/West Line East	County Lea
8 Proposed Bottom Hole Location If Different From Surface									
UL or lot No.	Section	Township	Range	Lot. Ind	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
Additional Well Information									
11 Work Type Code P		12 Well Type Code SWD		13 Cable/ Rotary Rotary		14 Lense Type Code S		15 Ground Level Elevation 3886'	
16 Multiple No		17 Proposed depth 12,500'		18 Formation Devonian		19 Contractor		20 Spud Date	
Depth to Groundwater: approx 68'			Distance from nearest fresh water well 1/2 mile plus			Distance from nearest surface water: Playa - 1500 feet			
Pit: Liner: Synthetic <input type="checkbox"/> Clay <input type="checkbox"/> Pit Volume: <input type="checkbox"/>			Drilling Method: Brine <input type="checkbox"/> Diesel/Oil-Based <input type="checkbox"/> Gas/Air <input type="checkbox"/>			Fresh Water <input type="checkbox"/>			
Closed-Loop System <input checked="" type="checkbox"/>									
21 Proposed Casing and Cement Program									
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks Cement	Estimated TOC				
17-1/2	13-3/8	48#	420'	450	Sur				
12-1/4	9-5/8	40#	3,800'	1300					
8-3/4"	7	26# & 29#	12,600	700	7500'				
6-1/4"	5	18#	15,000	250	12,000'				

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.

(Convert to SWD with Co-mingled Mississippian & Devonian Perforations)

Move in and Rig Up pulling unit with closed loop system. Pick up 6" bit and bottom hole assembly. GIH and drill out CIBP at 12,050', Clean & circ. 7" casing to Top of 5" Liner at 12,227'. Clean & condition hole, POOH with bit assembly.

Pick 4-1/8" bit assembly and GIH to 5" liner. Clean out liner to PBTD at 13,500' (+,-). POOH. GIH and perforate lower Devonian at 12,300'-400'. Acidize existing Devonian perforations at 11,840'-11,900' & 11,760'-11,820' and lower Devonian perms at 12,300'-400' and existing Mississippian perforations at 10,858-78', 10,890-900', 10,920-30', with 12,000 Gallons 15% HCL ( three stages)

RIH w/ 3-1/2" coated tubing, and 5-1/2" coated packer. Set Packer at 10,785', above Mississippian & Devonian perforations.

Pressure test Casing annulus to 500 psi for 30 Minutes and chart results. Place well on SWD

operations in co-mingled Mississippian and Devonian perforations.

(Administrative Order SWD-1444)

47 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drill pit will be constructed according NMOCD guideline X, a general permit     , Or an (attached) alternative

OCD-approved plan     

Printed name: David Plaisance

Title:

V.P. Exploration & Production

E-mail Address:

dplaisance@paladinenergy.com

Date: 11/1/2013

Phone: 214-654-0132

## OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

**District I**  
1625 N. French Dr., Hobbs, NM 88240

**District II**  
811 South First, Artesia, NM 88210

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410

**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-37122		<sup>2</sup> Pool Code 62010		<sup>3</sup> Pool Name Vacuum; Devonian, South	
<sup>4</sup> Property Code 35080		<sup>5</sup> Property Name South Vacuum			<sup>6</sup> Well Number 274 SWD
<sup>7</sup> OGRID No. 164070		<sup>8</sup> Operator Name Paladin EnergyCorp.			<sup>9</sup> Elevation 3886'

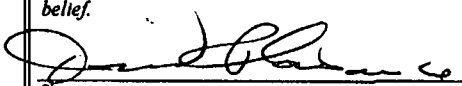
<sup>10</sup> Surface Location

UL or lot no. P	Section 27	Township 18-S	Range 35-E	Lot Idn	Feet from the 960	North/South line South	Feet from the 693	East/West line East	County Lea
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<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code		<sup>15</sup> 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

<sup>16</sup>				<u>Sec 27, T18S, 35E</u>	<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature David Plasiance Printed Name VP Exploration & Production Title 11/1/2013 Date
					<sup>18</sup> SURVEYOR CERTIFICATION <i>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.</i> Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

S. Vac 274 SWD  
960 FSL, 693 FEL  
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