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State of New Mexico

Form C-101
Revised July 18, 2013

HOBBS OCD

Energy Minerals and Natural Resources

Oil Conservation Division

☐ AMENDED REPORT

JUL 25 2013

1220 South St. Francis Dr.

RECEIVED

Santa Fe, NM 87505

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

1. Operator Name and Address Paladin EnergyCorp.		2. OGRID Number 164070
		3. API Number 30-025-37122
4. Property Code 35080	5. Property Name South Vacuum	6. Well No. 274 SWD

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	27	18S	35E		960	South	693	East	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

9. Pool Information

SWD; Mississippi-Devonian Vacuum; Devonian, South & Vacuum; Mississippian, South (co-mingled)	90319 62010-97411
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Additional Well Information

11. Work Type P	12. Well Type S	13. Cable/Rotary Rotary	14. Lease Type S	15. Ground Level Elevation 3886'
16. Multiple No	17. Proposed Depth 12,635'	18. Formation Devonian	19. Contractor	20. 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 at 14,230', 262 sacks cement, TOC at 12,227'

22. Proposed Blowout Prevention Program

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

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 applicable.
Signature: *David Plaisance*

Printed name: David Plaisance

Title: VP Exploration & Production

E-mail Address: dplaisance@paladinenergy.com

Date:

Phone: 214-654-0132 ext 3

OIL CONSERVATION DIVISION

Approved By:

Title:

Petroleum Engineer

Approved Date:

DEC 18 2013

Expiration Date:

Conditions of Approval Attached

SWD - 1444

DEC 18 2013

South Vacuum 274 SWD
Workover Procedure
Convert to SWD Operations with co-mingled
Mississippian & Devonian Perforations

Move in and Rig Up Pulling Unit. Nipple up BOP's and set up closed loop system. Pick up 6" bit and bottom hole assembly. GIH through 7" casing and drill out CIBP at 12,050'. Clean and condition hole to top of 5" liner at 12,227'. POOH with bit assembly.

Pick up 4-1/8" bit and go in top of 5" liner from 12,227' and clean down to 12,700'. POOH.

GIH with e-line and set CIBP at 12,635'. Dump Bail 35' of cement on top of plug. GBIH with e-line and perforate lower Devonian from 12,300'-400'. GIH with 2-7/8" work string and acidize existing Devonian perforations from 11,760'-820, 11,840-900' & lower Devonian perforations from 12,300-400'; and the existing Mississippian perforations from 10,858-78', 10,890-900', 10,920-30' with 12,000 gallons of 15% HCL (three stages). POOH with work string.

RIH with 4-1/2" plastic coated tubing and 7" packer and set packer at 10,785' (+,-), or within 100' of the top of the Mississippian perforations.

Pressure test casing annulus to 500 psi for 30 minutes and chart results. Rig down BOP's and Pulling unit, nipple up wellhead and connections. Place well on SWD operations.

- Form C-108 Application for Authorization to Inject was filed on 7/9/2013
- Form C-102 for Vacuum;Mississippian, South Pool #97411, already submitted