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State of New Mexico

Form C-101
Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

☒ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505



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

¹ Operator Name and Address Raz Oil and Gas, LLC PO Box 1180 Eunice, NM 88231		² OGRID Number 370507
		³ API Number 30-025-38162
⁴ Property Code 315024	⁵ Property Name YO State SWD	⁶ Well No. 001

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	15	21S	35E		660	N	840	W	Lea

⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	15	21S	35E		660	N	840	W	Lea

⁹ Pool Information

Pool Name SWD; Devonian	Pool Code 96101
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Additional Well Information

¹¹ Work Type E	¹² Well Type S	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 3587
¹⁶ Multiple N	¹⁷ Proposed Depth 13000'	¹⁸ Formation Devonian	¹⁹ Contractor Unknown	²⁰ Spud Date Est Late Jan, 2017
Depth to Ground water 100'		Distance from nearest fresh water well 4505'		Distance to nearest surface water Greater than 1 mile

☒ 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
Surface	17-1/2"	13-3/8"	48	850	750	Surface-In Place
Inter	12-1/4"	9-5/8"	40	5420	1900	Surface-In Place
Prod	8-3/4"	7"	26	12560	600	Surface

Casing/Cement Program: Additional Comments

Enclosures: Re-entry Procedure, Revised Wellbore Diagram, Amended C102

²² Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double/Pipe/Blinds	3000	3000	Cameron/Schaffer

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:

DJ Holcomb

Printed name Danny J. Holcomb

Title: Agent for Raz Oil and Gas, LLC

E-mail Address: danny@pwillc.net

Date: 12/15/2016

Phone: 806-471-5628

OIL CONSERVATION DIVISION

Approved By:

[Signature]

Title:

Petroleum Engineer

Approved Date: 02/27/17

Expiration Date: 10/26/18

Conditions of Approval Attached

RAZ OIL AND GAS, LLC
PROPOSED DRILLOUT, DEEPENING
AND COMPLETION PROCEDURE

Wellname: YO STATE SWD #1

Location: 660' FNL & 840' FWL
Sec 15, T21S, R35E
Lea Co, NM

Date: 12/15/16

Csg Size: 9 5/8" 40# HCK55 (8.679" Drift)

Inj Tbg: 4 1/2" Plastic Lined J55 & L80

Set @: 5420'

Packer Depth: 12535'

Prod Csg: 7" 26# HCL-80 & J55 Csg

Packer Type: ArrowSet 1X (nickel plated)

Prod Depth: 12560' to Surface

Existing Perfs: Open hole

New Perfs: Open hole 12275-13000

Directions : From Eunice, go West on highway 8 for 5.7 miles, Turn West onto highway 176. Go West for 5.52 miles. Turn North onto dirt road. Go North for .75 miles. Turn West to location.

Procedure:

- 1) Build Location. Set anchors. Start building disposal battery.
- 2) MI backhoe. Dig out around existing wellbore. MI welder. Strip/Peel back 24" Conductor csg and 13 3/8" Surface csg enough to reveal good 9 5/8" csg. Cut off dry hole marker.
- 3) If good 9 5/8" csg is close to surface proceed to step 4. If good 9 5/8" csg is deep, Weld on (inside and outside) a slip type by threaded collar. Install/screw in short joint. Weld short joint and collar. Cut short joint off at ground level.
- 4) Weld on (inside and outside) a slip type 11" x 5K starting head. NU 11" x 11" 5K csg spool.
- 5) MIRU Drilling Rig. RIH w/8 3/4" bit & Drill Cement plugs @
 - Plug #8 from surface to 30'
 - Plug #7 from 302' to 400'
 - Plug #6 from 742' to 900'
 - Plug #5 from 1856' to 1954'
 - Plug #4 from 5335' to 5458'
 - Plug #3 from 7628' to 7740'
 - Plug #2 from 10226' to 10326'
 - Plug #1 from 12250' to 12300'

Continue drilling Devonian formation from 12300 to 13000'. Pull Bit.

RAZ OIL AND GAS, LLC PROPOSED DRILLOUT, DEEPENING AND COMPLETION PROCEDURE

Procedure (con't):

6) Run in w/Csg as follows:

	Float Shoe	2'
1	Float Collar	2'
1	ECP	25'
1	7" 26# HCL-80 LT&C csg	43.25
1	DV Tool	3'
107	7" 26# HCL-80 LT&C csg	4696.50'
53	7" 26# J55 LT&C csg	2292.25'
1	DV Tool	3'
24	7" 26# J55 LT&C csg	1038'
103	7" 26# HCL-80 Buttress csg	<u>4455'</u>
	Total	12560

- 7) MIRU Cement Company. Pump 2 stage cement job to surface.
- 8) Cut off csg & Hang in 11" x 11" spool, NU 11" x 7 1/16" Csg spool w/cap flange.
- 9) Move off Drilling Rig.
- 10) MIRU pulling unit. RIH w/6 1/8" Bit & 2 7/8" work string, drilling DV tools to hard bottom @ 13000'. Circulate clean, pull bit. Run work string, perform swab test of open hole, pull work string.
- 11) Move in Wireline. Log from TD to surface with GR, CCL, CBL. Move off Wireline.
- 12) Unload & tally 12525' of 4 1/2" J-55 & L80 Plastic lined tbg. RIH w/ WEG, 7" x 4 1/2" Packer (Nickel Coated), On/Off tool & 4 1/2" J-55 & L80 tbg. Set packer 25' above Formation @ 12535'.
- 13) Release on/off tool. Load well & circulate w/pkr fluid. Latch back onto pkr with on/off tool. Test annulus to 500# with chart box (Notify OCD Hobbs Office 24 hrs prior).
- 14) MIRU Acid company. Acidize Formation down tbg with 20000 gals 15% NeFe Acid.
- 15) Establish injection rate & perform step rate test. RDMO Acid Company.
- 16) ND BOP. Hang tbg off in MLE Slip type capping flange. Install 4 1/2" full opening gate valves on tbg. Release all rentals.
- 17) Tie into battery. Start injection. Notify OCD Hobbs Office date of first injection.

PROPOSED WELLBORE DIAGRAM

RAZ OIL AND GAS, L.L.C.

YO STATE SWD #1

API # 30-025-38162

660' FNL X 840' FWL, UL 'D' SEC 15, T21S, R35E, LEA COUNTY N.M.

P & A 6/7/2007

All Depths KB

KB 3603'

GL 3587'

13 3/8" 48# H40

Set @ 850'

Cement to surface: yes

Anhydrite 1850'

Top Salt 1945'

Base Salt 3490'

Top SA 4200'

9 5/8" 40# HCK55

Set @ 5420'

Cement to surface: yes

Top Del Sand 5530'

Top Bone Springs 7578'

Top Wolfcamp 10,156'

Original TD @ 12250'

7" 26# HCL-80 & J-55 Csg

Set @ 12560'

Cement to Surface: yes

8 3/4" Hole

New TD @ 13000'

B1 Slip Type Flange

4 1/2" J55 & L80 11.6# Injection tbg
Internal IPC

DV Tool @ 4166'

ECP @ 4169'

DV Tool @ 5550'

Pkr Fluid in Annulus

DV Tool @ 12485'

Packer Set @ 12535'

7 x 4-1/2 Arrowset Model 1X
(Nickel Coated)

ECP @ 12556'

OH Injection
Devonian Formation
12560'-13000'
(tentative based on DO and logs)

8-3/4"
Open Hole

