

McMillan, Michael, EMNRD

From: danny@pwllc.net
Sent: Tuesday, May 30, 2017 2:27 PM
To: McMillan, Michael, EMNRD; Kautz, Paul, EMNRD
Cc: Bill Prichard
Subject: SWD-1594-B Raz Oil & Gas, LLC's YO State SWD #1 (30-025-38162)
Attachments: YO State SWD #1 Rev Wellbore Diagram 053017.pdf

Michael and Paul,
Raz Oil and Gas, LLC requests approval to deepen the injection interval on the referenced well. They propose to deepen the well an additional 522' from the current TD of 13968' to a new TD of 14490'. That would change the injection interval from 13490' - 13968' to 13490' - 14490'. The base of the Devonian is expected to be around 14700'. The resulting completion would be a combination of perforations in cased hole and open hole below. This proposed new completion would still be several hundred feet above the Ellenburger formation. Attached is a new proposed wellbore diagram reflecting this request.

This request is necessary as the completion of the permitted interval (13490' - 13968') found decent porosity, but would not take water. Raz has acidized the interval twice with no improvement. As a result, they request to deepen the well in search of better Devonian porosity.

There would be no change to the top of the injection interval. There would also be no change in the list of affected parties. Michael, upon approval of SWD order amendment, Raz will file Notice of Intent with the District Office to deepen the well.

If you have any questions, please let me know.
Thank you,
Danny J. Holcomb
Pueblo West, LLC
Cell: 806-471-5628
Email: danny@pwllc.net

PROPOSED WELLBORE

Well Configured for SWD Service

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, NM

All Depths KB

KB 3603'

GL 3587'

17-1/2" Hole

13-3/8" 48# H40 Csg

Set @ 850'

Cement to surface: yes

T. Anhydrite 1850'

T. Salt 1945'

Base Salt 3490'

T. San Andres 4200'

12-1/4" Hole

9 5/8" 40# HCK55 Csg

Set @ 5420'

Cement to surface: yes

T. Del Sand 5530'

T. Bone Spring 7578'

T. Wolfcamp 10156'

T. Barnett Shale 12510'

8-3/4" Hole

7" 26# J55/HCL80 Csg

Set @ 12536'

Cement to surface: yes

T. Mississippi 12740'

T. Woodford Shale 13285'

T. Devonian 13490'

6-1/8" Hole

5" 15# L80 Liner

Hung @ 12273'

Set @ 13962'

Cement to TOL: no

DV Tool @ 4166'

ECP @ 4169'

DV Tool @ 5335'

ECP @ 5340'

Pkr Fluid in Annulus

DV Tool @ 9797'

ECP @ 10002'

Tapered Injection Tubing

4-1/2" x 2-7/8" IPC/IPL

Changeover @ 12244'

TOC @ 12662' (4/19/17 CBL)

Injection Packer - Arrowset 1-X

5" x 2-3/8" Nickel Plated

Set @ 13495'

Perfs - 13518'-58' (2SPF)

Perfs - 13558'-658' (4SPF)

Perfs - 13658'-718' (2SPF)

Proposed Injection Interval

13490' - 14490'

SWD-1594

4-1/8" Open Hole

TD @ 14490'



www.pwtic.net

Drawing Not to Scale

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Wednesday, May 31, 2017 10:32 AM
To: Kautz, Paul, EMNRD; danny@pwillc.net
Cc: Bill Prichard; Jones, William V, EMNRD; Goetze, Phillip, EMNRD
Subject: RE: SWD-1594-B Raz Oil & Gas, LLC's YO State SWD #1 (30-025-38162)

Danny:

The Engineering Bureau will approve the change in injection interval and completion with the following stipulations.

- Before injection, the OCD Engineering Bureau and Hobbs District Office must receive a mudlog ,summary description of log tops, and well logs (if ran).
- The approved administrative order only allows injection into the Devonian formation only. Therefore, injection into the Montoya formation is prohibited.
- If the well penetrates the Montoya formation, it must be plugged back.

Thank You

MICHAEL A. MCMILLAN

Engineering Bureau, Oil Conservation Division
1220 south St. Francis Dr., Santa Fe NM 87505
O: 505.476.3448
Michael.McMillan@state.nm.us

From: Kautz, Paul, EMNRD
Sent: Wednesday, May 31, 2017 10:20 AM
To: danny@pwillc.net; McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Cc: Bill Prichard <billy@pwillc.net>
Subject: RE: SWD-1594-B Raz Oil & Gas, LLC's YO State SWD #1 (30-025-38162)

Danny,

I can conditionally approve a C-103 to depend the well. The conditions of approval will be conditional on Santa Fe approving a change in your injection interval.

Paul Kautz
Hobbs District Geologist
Energy Minerals Natural Resources Dept.
Oil Conservation Division
1625 N. French Dr.
Hobbs, NM 88240
575-393-6161 ext. 104