

Denton No. 5

Proposed SWD

Fasken Oil and Ranch, Ltd.

Location: 658' FNL, 662' FEL
Sec 11, T15S, R37E
Lea County, New Mexico
Compl.: 12-Jul-52
API #: 30-025-05292
IP:
TD: 9,510'
PBTD: 9121' (CIBPw/36'cmt 4-27-93) (Orig 9505')
Casing: 13-3/8", 27.3#, Armco Spiral Weld @ 349.2'
Cmt 350 sx
TOC surf
8-5/8", 24 & 32#, @ 4648'
Cmt 1750 sx
TOC surf
5-1/2" 15.5-17# @ 9,506'
Cmt 1st stg 275sx 8% gel+100sx 4% gel
Circ 65 sx thru DV
DV: 7692'
Cmt 2nd stg w/625 sx 8% gel
TOC 2000' by Temp

Perfs: Wolfcamp
9215'-9224' To be Sqzd
9225'-9243' Sqzd, reperf 9224'-39'
9243'-9315' w/hydromite plug
9415'-9440' w/hydromite
9470'-9495 sqzd

Wolfcamp @ 9237'

Cisco (T/Penn) @ 9775'

DF: 3808'

13-3/8", 27.3#, Armco Spiral Weld @ 349.2'
Cmt 350 sx
TOC surf

8-5/8", 24 & 32#, @ 4648'
Cmt 1750 sx
TOC surf

DV: 7692'
Circ 65 sx thru DV

Proposed 3-1/2" IPC tubing
with seal bore & 2-3/8" IPC tailpipe

Proposed 3 1/2" liner hanger w/packoff

Prf 9215'-9224' To be Sqzd
Prf 9225'-9243' Sqzd, reperf 9224'-39'

Prf 9415'-9440' w/hydromite

Perfs: 9470'-9495 sqzd
TD: 9,510'
5-1/2" 15.5-17# @ 9,506'
TOC 2000' by Temp

Proposed 3-1/2" Liner 9100'-9775'
with packer cementing collar

OIL CONSERVATION DIVISION
Case No. 13601 Exhibit No. 14
Submitted By:
Fasken Oil and Ranch
Hearing Date: December 15, 2005
BEFORE THE

Denton No. 5
APPLICATION FOR AUTHORIZATION TO INJECT

III. Proposed Salt Water Disposal Well Data:

A.

1. Denton No. 5
658' FNL and 662' FEL
Section 11, T15S, R37E
Lea County, NM
API number: 30-025-05292
2. Surface Casing: 13-3/8", 27.3#/ft, Armco Spiral Weld @ 349.20', cemented w/350 sx circulated to surface.
Intermediate Casing: 8-5/8", 24 & 32#/ft, @ 4648', cemented w/1750 sx circulated to surface.
Production Casing: 5-1/2", 15.5-17#/ft, @ 9,506', Stage tool at 7692', cemented 1st stage w/375 sx circulated 65 sx through stage tool, cemented 2nd stage w/625 sx, TOC 2000' by temp survey.
Proposed Liner: 3-1/2" @ 9100'-9775' w/liner hanger w/packoff and packer cementing collar
3. Total Depth 9,510'
4. Tubing: 3-1/2" 9.5#/ft N-80 w/Tuboscope TK70 (or equivalent) plastic coating
5. Packer: 3-1/2" liner hanger packer +/-9100'.

B.

1. Injection formation: Pennsylvanian
Field: Denton
2. Injection interval through open hole: 9775'-10950'
3. Original purpose of well: Devonian Oil Well
4. Other perforations/plugs:
9215'-9224' (to be squeezed)
9243'-9315' (to be squeezed)
9415'-9440' (to be squeezed)
9470'-9495' sqzd with 45 sx
5. Depths and names of higher and lower oil or gas zones:
Wolfcamp: 9237'
Devonian: 12103'

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APPLICATION FOR AUTHORIZATION TO INJECT

VII. Proposed Operation Data:

1. Average Daily Rate: 8,000 BWPD
Maximum Daily Rate: 10,000 BWPD
2. Closed System
3. Average Pressure: 1000 psig
Maximum Pressure: 1900 psig
4. Water Sources: Devonian and Wolfcamp produced water from the Denton Field.
Analyses attached.
5. Analysis of Pennsylvanian zone water is not available.

VIII. The proposed injection zone is the Pennsylvanian age limestone/dolomite at a depth of approximately 9,775' with a gross thickness of +/-1075'.

Fresh water aquifer at this site is the Ogalalla and Base Cretaceous (Chinle) found from near surface to a depth of +/-250'.

- IX. Stimulation program: the injection interval will be acidized with 15% NEFE acid prior to initial injection.
- X. Copies of current well logs are on file with the Oil Conservation Division.
- XI. Chemical Analysis of fresh water is attached.
- XII. The Applicant attests that a thorough examination has been made of all available geologic, engineering, and well data and that no hydrologic connection exists between the proposed injection interval and the overlying fresh water aquifer.

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