

District I,
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

* Amended

Operator: Devon Energy Production Co., L.P. Telephone: 505-748-0173 e-mail address: vivian.rodriguez@dvn.com

Address: P.O. Box 250 Artesia, NM 88210

Facility or well name: Spud 16 State #4 API #: 30-015-33923 U/L or Qtr/Qtr O Sec 16 T 23S R 29E

County: Eddy Latitude Longitude NAD: 1927 ☐ 1983 ☐

Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

RECEIVED

DEC 6 2005

UUU-ARTEZIA

Pit

Type: Drilling ☒ Production ☐ Disposal ☐

Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness 12mil Clay ☐

Pit Volume bbl

Below-grade tank

Volume: bbl Type of fluid:

Construction material:

Double-walled, with leak detection? Yes ☐ If not, explain why not.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet

(20 points) 20

50 feet or more, but less than 100 feet

(10 points)

100 feet or more

(0 points)

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes

(20 points)

No

(0 points) 0

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet

(20 points)

200 feet or more, but less than 1000 feet

(10 points)

1000 feet or more

(0 points) 0

Ranking Score (Total Points)

20

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

Devon Energy Production Company L.P. plans to close the drilling pit on the Spud 16 State #4 as per New Mexico Oil Conservation

Division Rule 50 in the Pit and Below Grade Tank Guidelines. Devon plans to encapsulate the pit contents and liner capping with 20 mil

liner, then cover with 3' of native material capable of supporting native plant growth. We will contour the pit area to prevent erosion

and ponding of rainwater. We will notify the OCD 48 hours prior to beginning work.

Please see attached water analysis for pre-existing chlorides in section 16

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 12-7-05

Printed Name/Title Vivian Rodriguez/Field Tech

Signature

Vivian Rodriguez

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Gerry Guye
Compliance Officer

Printed Name/Title

Signature

Gerry Guye

Date:

12-6-05



Water Analysis

Date: 3/7/2005

2401 Sivley, Artesia NM 88210

Phone (505) 746-3140 Fax (505) 746-2293

Analyzed For

Company	Well Name	County	State
Devon	Spud 18 Federal 2		New Mexico

Sample Source

Sample #

1

Formation

Depth

Specific Gravity	1.200	SG @ 60 °F	1.201
pH	7.33	Sulfides	
Temperature (°F)	65	Reducing Agents	

Cations

Sodium (Calc)	In Mg/L	99,713	in PPM	83,025
Calcium	In Mg/L	4,800	in PPM	3,997
Magnesium	In Mg/L	4,320	in PPM	3,597
Soluble Iron (FE2)	In Mg/L	0.0	in PPM	0

Anions

Chlorides	In Mg/L	174,000	in PPM	144,879
Sulfates	In Mg/L	200	in PPM	167
Bicarbonates	In Mg/L	122	in PPM	102
Total Hardness (as CaCO3)	In Mg/L	30,000	in PPM	24,979
Total Dissolved Solids (Calc)	In Mg/L	283,155	in PPM	235,766
Equivalent NaCl Concentration	In Mg/L	239,006	in PPM	199,006

Scaling Tendencies

*Calcium Carbonate Index 585,600

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 960,000

Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks

Report # 1739



Frac Water Analysis

Date:

2401 Sively, Artesia NM 88210

Phone (505) 746-3140 Fax (505) 746-2293

1

Analyzed For

Company	Well Name	County	State
Devon	Spud 16 #2	Eddy	New Mexico

Specific Gravity	1.065	SG @ 60 °F	1.070
pH	7.28	Sulfides	
Temperature (°F)	86	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	30,948	in PPM	28,918
Calcium	in Mg/L	3,040	in PPM	2,841
Magnesium	in Mg/L	2,736	in PPM	2,557
Soluble Iron (FE2)	in Mg/L	0.0	in PPM	0

Anions

Chlorides	in Mg/L	60,000	in PPM	56,064
Sulfates	in Mg/L	1,600	in PPM	1,495
Bicarbonates	in Mg/L	127	in PPM	119

Total Hardness (as CaCO3)	in Mg/L	19,000	in PPM	17,754
Total Dissolved Solids (Calc)	in Mg/L	98,451	in PPM	91,993

Remarks