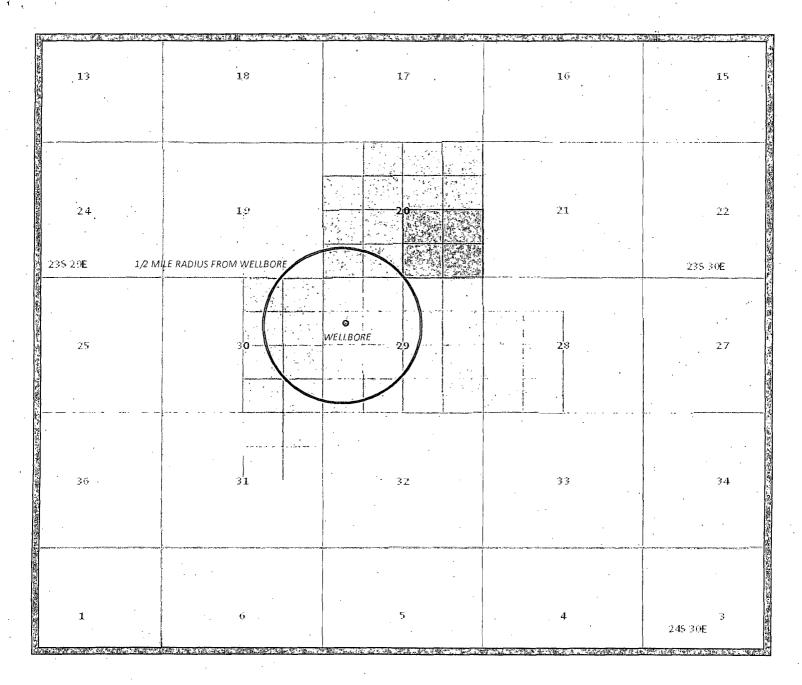
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| Name of Operator DG OPERATING, LLC | | | | | 9. API Well No. 30-015-28808 | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
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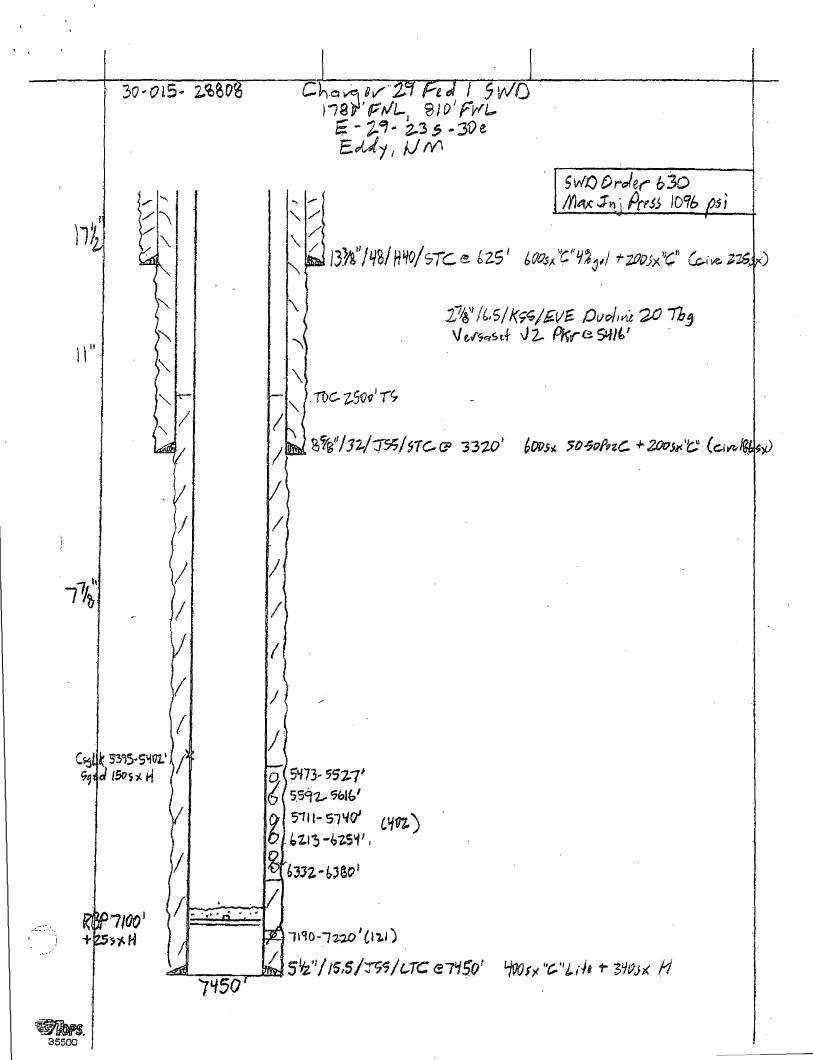
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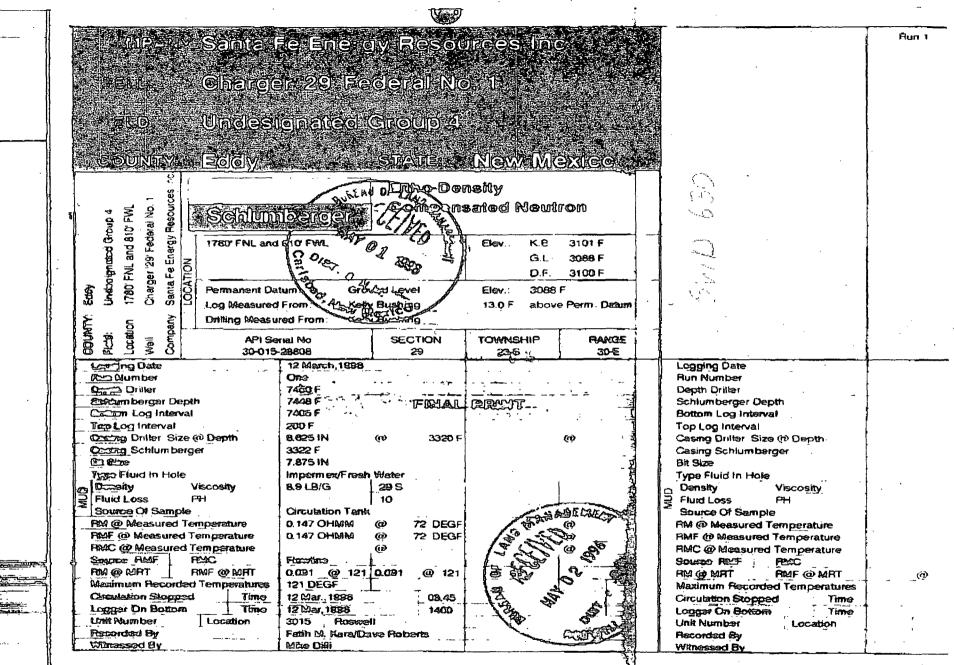
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Bureau of Land Management

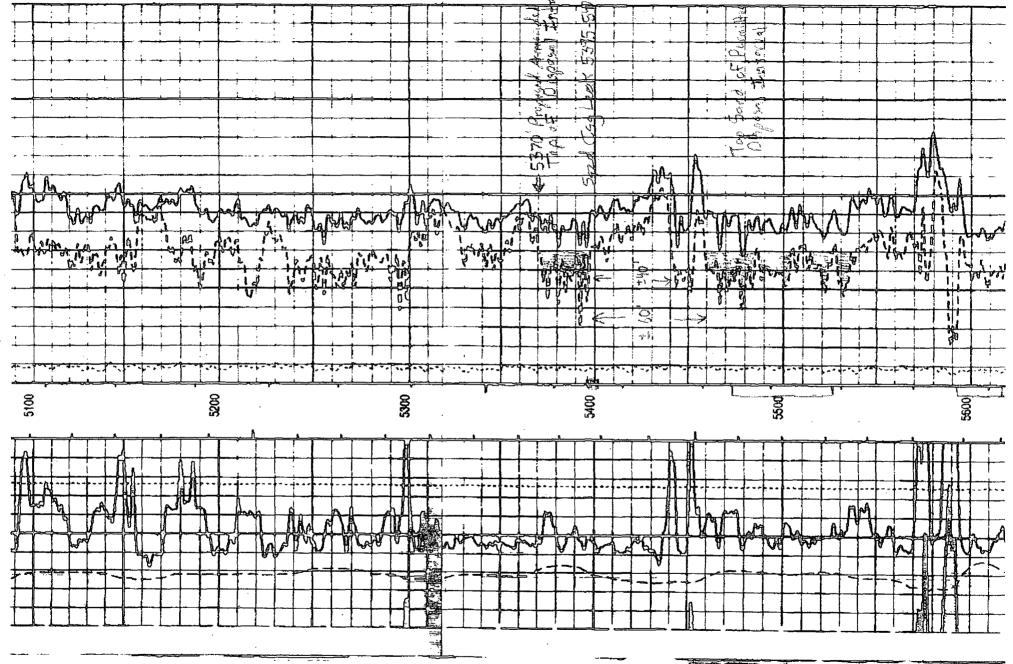
CHARGER 29 FEDERAL #1 SW 1780 FNL & 810 FWL Section 29; T23S - R30E





MAXIMUM STRING DIAMETER 6.88 IN MEASUREMENTS RELATIVE TO TOOL ZERO

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Conditions of Approval

Upstanding Operating Company Mighty Good - 99 API 30015xxxxx, TxxS-RxxE, Sec xx Month xx, 2014

This draft is being attached to inform operators of water disposal wells that BLM - CFO is requiring a Notice of Intent request for increased wellhead pressures be filed <u>**PRIOR**</u> to a Step Rate Test. Below is the text of conditions of approval that will be attached to such a notice of intent.

Stabilized injection: after perforation and acid stimulation workover, and the daily disposal volume rates and injection pressures have leveled out for about 3 months.

A profile survey is a wireline survey log that determines what perforations are taking produced water. You may want to use the same contractor that will run your step rate test. That log presentation should list the information requested by items 1-7.

- 1. If available, submit an electronic copy (Adobe Acrobat Document) cement bond log record from the top of the injection interval to top of cement. The CBL may be attached to a pswartz@blm.gov email.
- 2. Submit a stabilized injection profile survey for the well for review.
- 3. Submit the well's stabilized current psig/ft surface pressure to the top perforation.
- 4. Submit an anticipated bottom hole fracture pressure for the field or pool formation.
- 5. State the targeted maximum bbl/min injection rate. The objective is to avoid fracturing the injection formation.
- 6. Submit the injection fluid lbs/gal weight.
- 7. Submit an anticipated formation fracture or breakdown pressure at the injection top.
- 8. Stop injection a minimum of 48 hours and record the tubing pressure as it drops. The pressure should stabilize at or below the NMOCD permitted pressure for 8 hours. Document the pressure test on a seven day full rotation calibrated recorder chart registering within 25 to 85 per cent of its full range.
- 9. Calculate seven injection rates by multiplying the targeted maximum bbl/min injection by 0.05 for Step 1, 0.10 for Step 2, 0.20 for Step 3, 0.40 for Step 4, 0.60 for Step 5, 0.80 for Step 6, and 1.00 for Step 7. Record both surface and top perforation step pressures at five minute increments. Each step's time duration (usually 30 minutes) should be within 1 minute or less of the preceding step. If stabilized pressure values ($\Delta \pm 15$ psig) are not obtained between the last two (five minute) increments the test results will be considered inconclusive.
- 10. The Step Rate fluid used should be the same as the proposed injection fluid.
- 11. Flow rates are to be controlled with a constant flow regulator and measured with a turbine flow meter calibrated within 0.1 bbl/min. Record those rates using a chart recorder or strip chart.

- 12. Use a down hole transmitting pressure device and a surface pressure device with accuracies of ± 10 psig to measure pressures.
- Notify BLM 575-200-7902, if there is no response, 575-361-2822 Eddy Co. or 575-393-3612 Lea Co 24 hours before beginning the test. If no answer, leave a voice mail or email with the API#, workover purpose, and a call back phone number. Note the contact, time, & date in your subsequent report.
- 14. When breakdown pressure is not achieved at the **targeted rate** the formation is accepting the injection fluid without fracturing, which is the **objective**. Stop the test.
- 15. When the formation fracture pressure has been exceeded as evidenced by at least two rate-pressure combinations greater than the breakdown pressure stop the test and record the bottom hole Instantaneous Shut-in Pressure. This ISIP is considered the minimum pressure to hold open a fracture in this formation at this well. Fifty psig less than the ISIP is the maximum bottom hole pressure BLM will approve.
- 16. Record with each five minute interval the corresponding rate (bbl/min), down hole, and surface pressure (psig). Provide BLM with the tabulation of each five minute interval. Include a graph showing the stabilized pressure at each injection rate. Submit that data to BLM with the shut-in pressure recording of paragraph 8.

Notes:

These conditions of approval for a step-rate test is an adaptation of principals and comments from several sources. The major resource being a paper dated January 12, 1999 from the United States Environmental Protection Agency, Region VIII, 999 18th Street – Suite 500, Denver, Colorado.

The intent of a step rate test is to establish that a proposed rate of injection into a formation is below fracture. Because it becomes likely that fracture pressure may be attained and exceeded it is considered a nonroutine fracturing job and requires a notice of intent. Reference: 43 CFR 3162.3-2 Subsequent well operations.

Compliance of the operator with these BLM conditions of approval is necessary for consideration of an injection pressure increase.