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10/3/91

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

*SUBMIT IN TRIPLICATE*

5. Lease Designation and Serial No.: SF 078156

6. If Indian, Allottee or Tribe Name:

7. If Unit or CA, Agreement Designation: West Bisti Unit

1. Type of Well: ☐ Oil Well ☐ Gas Well ☒ Other Water Injection Well*

8. Well Name and No.: West Bisti Unit 144

2. Name of Operator: Dugan Production Corp.

9. API Well No.: 30-045-05642

3. Address and Telephone No.: P.O. Box 420, Farmington, NM 87499 (505) 325-1821

10. Field and Pool, or Exploratory Area: *Bisti Lower Gallup

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FNL - 660' FWL
Sec. 34, T26N, R13W, NMPM

11. County or Parish, State: San Juan, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| ☒ Notice of Intent | ☐ Abandonment | ☐ Change of Plans |
| ☐ Subsequent Report | ☐ Recompletion | ☐ New Construction |
| ☐ Final Abandonment Notice | ☐ Plugging Back | ☐ Non-Routine Fracturing |
| | ☒ Casing Repair | ☐ Water Shut-Off |
| | ☐ Altering Casing | ☐ Conversion to Injection |
| | ☐ Other _____ | ☐ Dispose Water |

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

A section of bad casing has been identified in this well. We plan to perforate above and below the bad casing and place cement behind the pipe. The squeeze will be pressure tested to 500 psi. A mechanical integrity test will be scheduled prior to returning to injection.

RECEIVED
OCT 1991
OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct

Signed John Alexander John Alexander Title Operations Manager Date 9-27-91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

NMOCD

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

September 25, 1991

[redacted] Unit No. 144
660' FNL & 660' FWL
D- [redacted]
Bisti Lower Gallup

# WORKOVER PROCEDURE

DATA:

Casing: 9-5/8" 32.3 lb. H-40 @ 198'. Cemented with 175 sks. "regular" cement.

5½" 14 lb. @ 5185', pbtd 5117' (cibp @ 5008). Cemented with 135 sks. "regular" cement with 3% gel. Cement top 4465' by temperature survey.

Tubing: 4936' (158 jts.) 2-3/8" EUE plastic lined @ 4944', open ended.

Perfs.: 4990-5004 (4 JSPF); cibp @ 5008 with perfs. 5014-54 below plug.

Note: Previous work has isolated holes from 3410 - 3724.

PROCEDURE:

1. Run gauge ring to 3825'.
2. Set cibp at 3800'. 3900 Pres test OK 10-3-91
3. Perforate 4 squeeze holes at each of following depths: 3750', 3370'.
4. TIH with packer and pressure test cibp to 2,000 psi.
5. Raise packer to 3630'± (120' above lower perforation).
6. Load annulus and establish communication between perforations by pumping down tubing. Other steps will be taken at this time, if communication not established.
7. TIH with cement retainer on tubing. Set retainer at 3630'±, and test tubing.
8. Establish rate down tubing and confirm communication between perforations.
9. Cement with ~~60~~ 90 sks. Class "B" with 0.6% FL-19 (fluid loss additive) followed by 20 sks. Class "B" with 2% $CaCl_2$. Clear cement retainer by 1½ bbls. (All trade names are B.J Titan)
10. Pull out of retainer and raise tubing to 3,000'.
11. Reverse tubing clear and POH.
12. Load casing with water and shut-in for night.

10-4-91

tagged @ 3000'

13. TIH with 4-3/4" bit and drill any cement through upper perforation. Pressure test casing to ~~700~~ psi. Leaks in p hole ~~stop~~ for evaluation

DRILLED CMT 3000' - Ret @ 3630' 1000 lost 200# in 2 min

14. Continue in hole and drill cement retainer and cement through lower perforation. Pressure test casing to 700 psi.

15. Drill cibp at 3800' and clean out to pbtd (cibp at 5008').

16. POH and pick up 5½" casing scraper with bit. Run to bottom.

17. Run packer and set at 4900'±. Load annulus and pressure to 500 psi.

18. Conduct step rate test. If it appears during this test that injection rate is restricted, go to step 19. If no or small restrictions are detected, go to step 20.

19. Acidize Gallup perforations with 2,500 gal. 28% HCl NE acid with iron and silt suspenders. Over displace acid with 100 bbls. formation water. Maximum pressure 2,000 psi and maximum rate 4 bpm. During over displacement, reduce surface pressure to 700 psi and monitor injection rate for at lease 25 bbls. Shut-in for 30 minutes and back flow until dead.

20. POH and return tubing with injection packer to 4950'±. Load annulus with packer fluid, set packer, and land tubing in well head.

21. Return well to injection service.

TIH w/ PKR - ~~from 3035' Ret @ 3630'~~ leaks @ 1442' - 3035 must have put some holes in old csg when drilling cmt.

TOC - 4400'

Liner to 4867'