

5 - USGS

1 - Navajo Nation

1 - File 1 - TR

Form 9-331
Dec. 1973Form Approved.
Budget Bureau No. 42-R1424UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other ☐2. NAME OF OPERATOR
Dugan Production Corp.3. ADDRESS OF OPERATOR
P O Box 208, Farmington, NM 874014. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 790' FSL - 790' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

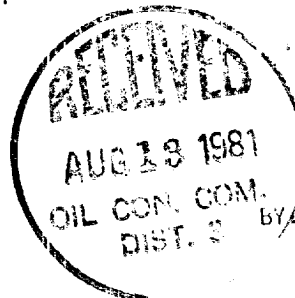
SUBSEQUENT REPORT OF:

☒ completion

RECEIVED

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)

See reverse for report of perfs 7-23-81
frac 7-23-81
tbgs. 7-24-81

Subsurface Safety Valve: Mark and Type _____ Set @ _____ Ft.

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

SIGNED Thomas A. Dugan TITLE Petroleum Engineer DATE 8-6-81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

NM000

DAILY REPORT

7-23-81 Rig up Blue Jet. Ran CCL & GR correlation log from PBTD 5385 to 4900'.

Perforated intervals from 5312 to 5078', 49 shots:

5303 to 5311, 9 shots, 1 jspf, 8'
5249 to 5356, 8 shots, 1 jspf, 7'
5218 to 5225, 8 shots, 1 jspf, 7'
5209 to 5213', 5 shots, 1 jspf, 4'
5128 to 5133, 6 shots, 1 jspf, 5'
5104 to 5111, 8 shots, 1 jspf, 7'
5078 to 5082, 5 shots, 1 jspf, 4'

Rig up Western Co. Frac as follows:

Spearheaded 500 gal 15% HCL 2 BPM
5,000 gal slickwater pad 10 BPM/900 psi
70,000 gal slickwater w/ 1#/gal 20-40 sand treated at 1600 spi
& 42 BPM up to 964 bbl.
Dropped 10 ball sealers then at 1800 psi & 42 BPM up to 1172 bbl
Dropped 10 more balls treated at ± 2200 psi & 42 BPM
At 1380 bbl into sand dropped 10 balls
Pressure went to 3400 - geared down
Pumped at 33 BPM
Dropped 10 more balls at 1588 bbl

When the last of the ball sealers got on the perms, the treating pressure climbed rapidly. One pressure peak went to 4500 bbls. Slowed pumps to 17 BPM. Pumped sand away. Flushed csg. at 38,000 psi.

Closed in well w/ 1000 psi. S.D.F.N.

7-24-81 Opened up casing valve after frac. Flowed back water. Started bubbling gas. Ran mud anchor, perforated joint, seat nipple 2-3/8" tubing into hole. Tagged frac sand 15' up on joint no. 166. Pulled up to collar on no. 165 and hung that from the tubing head. Ran 165 jts. 2-3/8" OD, 4.7#, V-55, 8R, EUE tbg. set at 5327'.
Setting depths: mud anchor (tubing set at) 5327' RKB
perforated joint 5291.69 --- 5294.69
seat nipple ± 5290
lowest perforation 5311
Sand Depth: 5342 RKB
Began swabbing ± 1230 hrs. Swabbed down to $\pm 500'$ by 1500 hrs. Making gas and water. Swabbed down to $\pm 900'$ by 1630 hrs. Began to see oil in the water. Swabbed down to $\pm 1200'$ by 1730 hrs.

At 1800 hrs. S.D.F.N.