Form 3160-5
November 1983
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Artesia, NM 88210

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

clsf

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 "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: LC-029387-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL XXX GAS WELL ☐ OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Southland Royalty Company

8. FARM OR LEASE NAME: Shugart "A"

3. ADDRESS OF OPERATOR: 21 Desta Drive, Midland, Texas 79705

9. WELL NO.: 3

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 330' FSL & 1650' FEL, Sec. 29, T-18-S, R-31-E

10. FIELD AND POOL, OR WILDCAT: Shugart (Y,SR,Q,G)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29, T-18-S, R-31-E

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O. C. D.
ARTESIA, OFFICE

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): Unknown

12. COUNTY OR PARISH: Eddy

13. STATE: N.M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) Complete Queen & Penrose	XX			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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 ATTACHED PROCEDURE

DEC 2 1986

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

SIGNED Cathy Wolfe TITLE Engineering Tech III DATE 12/1/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE 12-4-86

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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.

Shugart A #3

1. MIRUPU. Unload ± 3800' 2 3/8" workstring. ND wellhead. NU BOP.
2. RIH w/pkr & RBP & set RBP @ ± 2400'. Set pkr & press test RBP to ± 1000#. Spot ± 20' sand on top RBP. Press test csg to 500# to check for holes. POH w/pkr.
3. RU electric line. Perf two sqz holes @ 850' w/4" OD csg guns.
4. Tie onto 5 1/2" csg. Break circ between 5 1/2" & 8 5/8" csg. Circ out ± 50 bbl prod wtr. Low-press cmt sqz by pmpg ± 165 sx Cl "C" w/2% CaCl & displ w/± 20 bbl in order to leave 50' cmt in 5 1/2" csg. Close in bradenhead & obtain ± 500 psi sqz. SION.
5. RU reverse unit. Set 1-500 bbl steel tank & load w/prod wtr. RIH w/4 3/4" bit w/±6-3 1/2" DC. DO cmt. Press test sqz to ± 500#. POH w/bit.
6. RIH w/RBP catcher & circ snd off & POH w/RBP.
7. RIH w/bit w/±6-3 1/2" DC's. DO cmt @ 5 1/2" csg shoe @ 2694'. CO probable cmt, wood & gravel in open hole to original TD @ 3763'. Circ hole clean w/prod wtr. POH w/bit.
8. Unload ± 3800' 4" flush joint csg. Drift & visually inspect @ location. PU & RIH w/4" full-length liner.
9. Circ annular volume twice to clean hole. While rotating the 4" liner, cmt in place w/±500 gals reactive spacer + 475 sx 50/50 pozmix Cl "C" cmt. Cmt volume designed to circ to surf w/50% excess in open hole & 25% excess in cased hole.
10. Install 4" x 5 1/2" 2000# csg head. Cut off excess 4" liner. SION.
11. RU reverse unit. RIH w/bit. Clean & DO cmt to float shoe. Circ hole clean w/2% KCl. POH w/bit & LD workstring.
12. RU electric line. Run GR-CNL-CCL from PB to ± 2000'. Run CBL log from PB to ±2000' w/both 0 and ± 1000# press.
13. RDPU for preparation of completion procedure & obtain stimulation bids. Pick perfs & determine if channels exist & if cmt sqz is needed.
14. Based on offset wells, 3 intervals (lower Penrose @ ± 3650', Upper Penrose @ ± 3500' & Queen @ ± 3250') will be separately completed. Each should involve ±20' of perfs, ± 2000 gals acid clean ups & ± 25,000 gals 30 ppg cross-linked 2% KCl wtr & ± 60,000# 20/40 snd frac jobs. Shown below is a general procedure for one interval:

    a. Perf ±20' w/3 1/8" OD csg guns @ 2 JSPF.
    b. RIH w/pkr to btm perf. Spot ± 200 gals 15% HCl.
    c. Breakdwn perfs & acdz w/±2000 gals 7 1/2% HCl + additives + RCNBS @ minimum 4 BPM.
    d. Swb back acid load & test.
    e. If needed, frac dwn 2 3/8" tbg w/± 25,000 gals 30 ppg cross-linked 2% KCl wtr + 60,000# 20/40 sd @ ± 10 BM. Flush w/slick 2% KCl wtr.
    f. Pull & set RBP above perfs. Press test. POH w/pkr.
    g. Repeat step #14 for each zone.

15. POH w/pkr & RBP. LD & truck away workstring.
16. MIRUPU on Shugart A #5. POH & LD insert pmp & steel rods. POH & LD 2 3/8" tbg. RDPU. Leave well shut-in. Move tbg & rods to #3.
17. PU & RIH w/prod tbg from #5 as follows: ±3100', ±100 jts 2 3/8" tbg, cup type SN @ ±3100', 1-2 3/8" x 4' perf sub @ ±3101' & 1 jt 2 3/8" mud anchor w/bull plug to ± 3131'.
18. RIH w/pmp & rods from #5 as follows: 25'-1" x 1 1/4" polish rod, 3050' - 122-3/4" steel rods (grade D) & 1-2" x 1 1/2" x 12' insert pmp. RDPU.
19. Transfer from Shugart "A" #5 a Conventional Cabot 57-95-48 pmpg unit & 15 hp electric motor & set on subject well. Tie into electric system. Set on full 48" storke & ± 10 spm.
20. Tie flowline to pmpg tee. Hook up portable tester. Start well pmpg. Report daily tests. When frac snd stops being prod, lower pmp to below btm perf.