

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Div.
111 S. 1st
Albuquerque, NM 87102-2834

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Sonat Exploration Co. - Midland

3. Address and Telephone No

110 W. Louisiana, Ste. 500 Midland, TX 79701 915/684-0400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2310' FSL 2310' FEL (NW/4 SE/4) Sec. 9 T24S R31E

5. Lease Designation and Serial No.

NM 29234

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Lotos Federal #4

9. API Well No.

30 015 27593

10. Field and Pool, or Exploratory Area

Sand Dunes Delaware West

11. County or Parish, State

Eddy County, N M

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

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Squeeze perfs

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ 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.)*

SEE ATTACHED

RECEIVED
FEDERAL SERVICE
NOV DEC 17 A 11:05

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

Signed Todd W. Muehlenbachs

Title Senior Petroleum Engineer

Date 12/16/97

(This space for Federal or State office use)

(ORIG. SGD.) ALEXIS C. SWOBODA

PETROLEUM ENGINEER

Date DEC 22 1997

Approved by
Conditions of approval, if any

Lotos Federal No. 4
Workover Procedure
Squeeze Off Cherry Canyon Interval

1. MIRU pulling unit. Kill well w/produced water if required. TOH w/rods and pump.
2. NU 3000# 7-1/16" manual double ram BOP w/2-7/8" pipe rams. Release TAC, tag for fill. TOH w/2-7/8" production tbg.
3. TIH w/5-1/2" RBP on 2-7/8" tbg and set @ +/- 6400'. Dump 10' sand on top of RBP, allow to fall. TOH w/tbg.
4. TIH w/5-1/2" cement retainer on 2-7/8" tbg. Set cement retainer above Cherry Canyon perms (6305'-6317') @ +/- 6250' (+/- 50' above squeeze holes). Sting out of retainer and load backside. Sting back into retainer, close retainer valve and test tbg to 3000#. Sting back into retainer. Establish rate and pressure into perms. Squeeze perms with the following:

Lead - 75 sxs Class 'C' w/0.7% Halad 322 (fluid loss & dispersant) mixed at 14.8 ppg, Y=1.32 cu.ft/sk, W=6.31 gal/sk

Tail - 75 sxs Class 'C' Neat mixed @ 14.8 ppg, Y=1.32 cu.ft/sk, W=6.31 gal/sk

Max pressure - 3000# (500-1000# over pump in pressure)
Rate - < 1 BPM, hesitate if required
Temp - 115 deg F
Min pump time - 3 hrs

Sting out of retainer, pull up 10', reverse out tbg, TOH. WOC.

5. TIH w/4-3/4" bit, 6 3-1/2" DC's on tbg. RU reverse unit w/power swivel. Drill out cement retainer and cement to RBP @ +/- 6400'. Close pipe rams and test squeeze to 500# surface pressure for 30 minutes. After tests OK, wash sand off RBP. TOH w/tbg DC's and bit.
6. TIH w/retrieving tool on 2-7/8" tbg. Latch onto RBP, TOH w/the same.
7. If tagged fill in step 2, TIH w/bit on tbg. Clean out fill to PBD @ 8227'. TOH w/tbg and bit.
8. TIH w/production tbg, set SN below perms @ +/- 8150'. TIH w/rods and pump, return to production.

TWM (12/10/97)