

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

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

RECEIVED

MAY 13 2004

ODD-ARTESIA

5. Lease Designation and Serial No.

NM 3606

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SW-1035

8. Well Name and No.

Lake Federal No. 1

9. API Well No.

30-015-21503

10. Field and Pool, or Exploratory Area
Avalon Upper Penn

11. County or Parish, State

Eddy County, New Mexico

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Fasken Oil and Ranch, Ltd.

3. Address and Telephone No.

303 W. Wall, Suite 1800, Midland, TX 79701 (432) 687-1777

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

1180' FSL, 435' FWL of Section 3, T21S, R26E Admin Order NSL-707

12. CHECK APPROPRIATE BOX(es) 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

- ☐ 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.)*

Fasken Oil and Ranch, Ltd. proposes to plugback the Lake Federal No. 1 from the Avalon Morrow to the Avalon Upper Penn. Please see the attached procedure for details of this work.

APPROVED

MAY 11 2004

LES BABYAK
PETROLEUM ENGINEER

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

Signed [Signature]

Title Regulatory Affairs Coordinator

Date 5/7/2004

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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

Lake Federal No. 1
1180' FSL & 435' FWL
Sec 3, T21S R26E
AFE # 810

OBJECTIVE:	Recomplete to Canyon
WELL DATA:	API # 30-015-21503
13-3/8" 48#/ft H-40 ST&C casing:	Set at 374.61' KB Cmt w/300 sx, TOC 135' survey.
8-5/8" 24.0#/ft K-55 ST&C casing:	Set at 4212.00' KB, Cmt w/ 2185 sx, TOC 75'.
4-1/2" 11.6# & 13.5#N-80 LT&C:	Set at 11,195.59, Cmt w/450 sx. TOC 9240' by temp survey. 13.5# from TD- 10,269', 11.6# from 10,269 to surface
Perfs:	10,817'- 10,836' 2 DJPF (38 holes)
Packer:	4-1/2" Otis Perma-latch set @ 10,626' w/ 1.80" "N" profile nipple, TOSSD.
Tubing:	341 jts 2-3/8" EUE 8rd N-80 tubing, 3 subs (1-4', 1-8', 1-10')
TD:	11,195.59' KB csg landed
PBTD:	11,164.06' KB float collar

1. Test mast anchors. Dig and line work over pit.
2. RUPU and pump truck. Blow down tubing and load with 41 bbls 3% Kcl water.
3. NDWH and NU BOP. Release packer and POW with tubing and TOSSD. Lay down bottom 35 jts tubing. Well head will need to be inspected.
4. RUWL and pack off and RIW with 3.75" gauge ring to 10,620' +/- . POW and RIW with 4-1/2" CIBP and set @ 10,600' and spot 35' Class "H" cement on top for new PBTD of 10,565'. Test casing and CIBP to 2000 psi for 10 minutes. Bleed casing down to 1000 psi and run CBL from 10,000' to TOC estimated @ 9240'.
5. RIW with WL entry guide, 4-1/2" Arrowset 10K packer with 1.781" "F" frac hardened profile nipple, TOSSD and tubing testing to 9500 psi above slips to 9280' +/- . Set packer and release TOSSD from packer. Reverse circulate well with 120 bbls 3% Kcl water containing oxygen scavenger and corrosion inhibitor.
6. ND BOP and NUWH landing tubing in 20 pts compression. Test tubing, casing and packer to 2000 psi for 15 minutes.
7. RU5000 psi lubricator. Perforate Canyon Lime with 1-11/16" strip gun with 1jspf at 9324'-9330' (7h) and 9333'-9336' (4h) total 11 holes. Correlate to Schlumberger Compensated Neutron- Formation Density Log Dated May 25, 1975.
8. RU BJ Services. Install treesaver. Trap 2000 psi on tubing/casing annulus. Stimulate Canyon Lime perfs 9324'-9336' with 1000 gal 15% NEFE acid and 1000 scf/bbl nitrogen. Flush with 3% KCL water containing 1000 scf/bbl nitrogen. Max pressure 9500 psi. BJ Additives are:
0.5 gpt Clay Master-5C, 2 gpt FAW-18W surfactant, 2 gpt NE-13 Non-emulsifier, 1 gpt Cl-27 organic inhibitor, 6 gpt Ferrotrol-270L, 2 gpt Ferrotrol-271L, flush with 3% KCL water containing and NE-13 surfactant.

9. Flow or swab well back to pit and allow to clean up and evaluate for further stimulation. May need to rent test tank and gas production unit to flow test well.
10. If well is commercial set and hook up surface equipment while selling gas through rental equipment and evaluate for fracture treatment.

Add Canyon Lime

11. RU 5000 psi lubricator. Perforate Canyon Sand zone with 1-11/16" strip gun 9428', 30', 32', 34' 36', 9441'-49' (9h), 9454', 56', 60', 62', 68', 70', 72', 81', 98', 9500', 9502' Total 25 holes. Correlate to Schlumberger Compensated Neutron- Formation Density Log Dated May 25, 1975.
12. Flow or swab well back to pit and allow to clean up and evaluate for further stimulation.
13. If further stimulation required RU BJ Services. Install treesaver. Trap 2000 psi on tubing/casing annulus. Acidize Canyon Lime and Canyon Sand perms 9324'-9502' with 1500 gal mixture of 7-1/2% HCL +25% methanol and 1000 scf/bbl nitrogen dropping 48 7/8" RCNB sealers. Flush with 3% KCL water containing 1000 scf/bbl nitrogen. Max surface pressure 4000 psi.
Additives: 0.5 gpt Clay Master-5C, 2 gpt CI-27, 6 gpt FE-270, iron control, 2 gpt FE-271 Iron Control activator, 1 gpt NE-940 Non-emulsifier, 1 gpt Inflo-150 Surface Tension reducer
14. Swab back load and acid water and evaluate. Return well to sales.
15. RDPU.