

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Harken Southwest Corporation

3. Address and Telephone No.
P.O. Box 612007, Dallas, TX 75261-2007 (972) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NW/SE Section 12-29N-19W
2008' FSL & 2348' FWL

5. Lease Designation and Serial No.

NOG 8707-1145

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Rattlesnake 149

9. API Well No.

30-045-08505

10. Field and Pool, or Exploratory Area

Rattlesnake Field

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

- ☒ 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.)*

Harken Southwest Corporation (HSW) personnel have concluded the evaluation of the subject wellbore. It has been determined that the subject well can not maintain economic production rates. Therefore, attached you will find the following information for your review and approval:

1. Current wellbore information.
2. Diagram of current wellbore configuration
3. Plug and Abandonment procedures
4. P&A'd wellbore diagram

RECEIVED
MAY - 4 1998

OIL CON. DIV.

Upon receipt of BLM approval, HSW will schedule the permanent abandonment of this well during the 3rd or 4th quarter of 1998. Should any questions arise, please feel free to contact Mr. Richard Cottle or the undersigned at (972) 753-6900.

CC: State of Utah
Navajo Nation - Minerals Dept
BIA - Gallup, NM

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

Signed

Title Production Administrator

Date 4/23/98

(This space for Federal or State office use)

Approved by B/ Duane W. Spencer
Conditions of approval, if any:

Title

Date MAY - 1 1998

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
NMOCH

Rattlesnake #149
1980' FSL & 2310' FEL
Section 12, T29N, R19W
San Juan County, New Mexico
April 2, 1998

Present Status: SI – uneconomic oil well

Elevation: 5396' GL (DF)

Total Depth: 1006'

Casing Program: 5 ½", 14#, J-55, Set @ 1006' with 225 sxs cement

Open Perforations: 861'-868', 922'-927'

PBTD: 954'

Production Equipment: 28 joints, 2 3/8" tubing, SN @ 848'
 33 - 5/8" rods, 2 ½" X 2" X 12' bottom hold down pump (?)

Casing and Tubing Detail

| Depth | Size (in.) | Wt. #/ft | Grade Thread | Burst (psi) | Collapse (psi) | Yield M# | Drift (in.) | Capacity (bbl/ft) |
|---------------|------------|----------|--------------|-------------|----------------|----------|-------------|-------------------|
| Surf 1006' | 5 1/2 | 14.0 | J-55 | 4270 | 3120 | 172 | 4.887 | 0.0244 |
| Surf 848' | 2 3/8 | 4.7 | J-55 EUE | 7700 | 8100 | 71.7 | 1.901 | 0.00387 |

WELL REPORT

COMPANY: Harken Southwest Corp

WELL NAME: Rattlesnake # 149

Present Configuration

SURFACE CSG. SET @ NONE

NOTES:

(33) 5/8" x 25' rods

2 1/2" x 2' x 12' bottom hole down
Pump

28 joints
2 3/8" log

PERFS: 861' - 868'

PERFS: 922' - 927'

PERFS: _____

PRODUCTION STRING CSG. SET @ 1006'
5 1/2", 14 #, J-55 @ 225 5x3

TUBING SET @ 848'

PLUG BACK TOTAL DEPTH: 954'

← EOT @ 848'

861'

868'

922'

927'

954'

972'

TD 1006'

PLUG AND ABANDONMENT
Rattlesnake #149
1980' FSL & 2310' FEL
Section 12, T29N, R19W
San Juan County, New Mexico

P & A Procedure

1. MIRU, hold safety meeting, blowdown well, ND horseshed, unseat pump.
2. POH with rods and pump. NU BOP's.
3. POH with 2 3/8" tubing. Remove SN. Install serrated collar.
4. RIH with 2 3/8" tubing, tag sand @ 954'.
5. Mix up 140 sxs (28 bbls) of Class 'B' cement and fill casing from PBTD @ 954' to surface (150% volume used for cement calculations).
6. W.O.C. 3 hours. RIH with 2 3/8" tubing to tag cement top. Fill to surface, if necessary. RD move out rig.
7. Cut casing 4' below surface. Weld on subsurface marker plate.
8. Reclaim location.

WELL REPORT

COMPANY: Harken Southwest Corp.

WELL NAME: Rattlesnake # 149

Plug & Abandonment

SURFACE CSG. SET @ NONE

NOTES:

Subsurface marker @ 4' below
Ground level

PERFS: 861'-868'

PERFS: 922'-927'

PERFS: _____

PRODUCTION STRING CSG. SET @ 1006'
5 1/2", 14 #, J-55 (W) 225 3x3

TUBING SET @ _____

PLUG BACK TOTAL DEPTH: Surface

cement from bottom hole to surface

861'

868'

922'

927'

DAKOTA 'A' perms

DAKOTA 'B' perms

TD 1006'