

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

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

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 210

9. API Well No.

30-045-21231

10. Field and Pool, or Exploratory Area

Rattlesnake Field

11. County or Parish, State

San Juan, NM

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)

NE/SE Section 2-29N-19W
2100' FSL & 500' FEL

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.
DIST. 3

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

Rachelle Montgomery Title Production Administrator

Date 4/23/98

(This space for Federal or State office use)

Approved by *AS/Dwayne W. Spencer*
Conditions of approval, if any:

Title

Date MAY - 1 1998

Rattlesnake #210
2100' FSL & 500' FEL
Section 2, T29N, R19W
San Juan County, New Mexico
April 2, 1998

Present Status: SI – uneconomic oil well

Elevation: 5294' GL

Total Depth: 848' **PBTD:** 845'

Casing Program: 7" 20#, J-55, Set @ 17.5 with 3 sxs cement
 4 1/2", 9.5#, J-55, Set @ 835' with 20 sxs cement

Open Hole: 835'-848'

Production Equipment: 27 joints, 2 3/8" tubing, SN @ 833'
 32 – 5/8" rods, 2 1/2" 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 835'	4 1/2	9.5	J-55	4380	3310	101	3.965	0.0162
Surf 833'	2 3/8	4.7	J-55 EUE	7700	8100	71.7	1.901	0.00387

WELL REPORT

COMPANY: Harken Southwest Corp

Present Configuration

WELL NAME: Rattlesnake # 210

SURFACE CSG. SET @ 17.5'

7", 20#, J-55 @ 35s

PERFS: NONE

PERFS: _____

PERFS: _____

PRODUCTION STRING CSG. SET @ 835'
4 1/2", 9.5#, J-55 @ 20s x

TUBING SET @ 833'

PLUG BACK TOTAL DEPTH: 845'

NOTES:

Chubb 11 10 Pu
no motor

(32) 5/8" rods

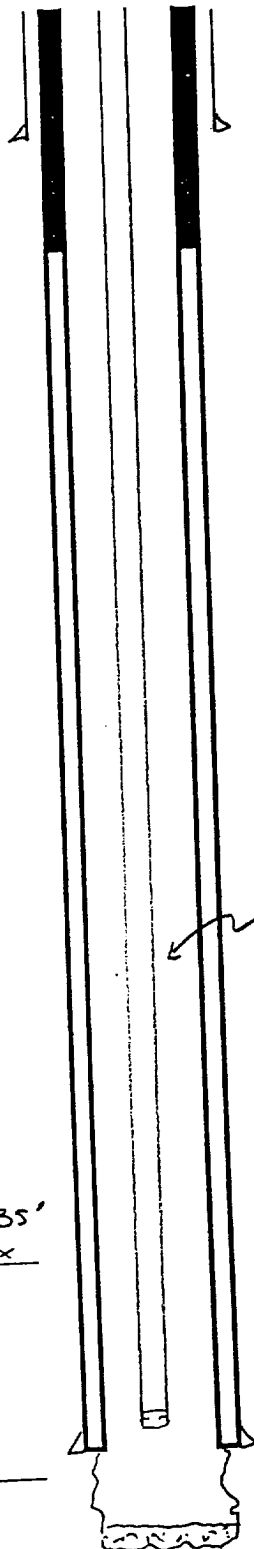
2 1/2" x 2' x 12' Pump
Bottom
Hold Down

27 joints 2 3/8" Hog

EDT @ 833'

OH 835'-845'

TD 848



PLUG AND ABANDONMENT
Rattlesnake #210
2100' FSL & 500' FEL
Section 2, T29N, R19W
San Juan County, New Mexico

P & A Procedure

1. MIRU, hold safety meeting, blowdown well, ND horseshead, 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 @ 848'.
5. Mix up 105 sxs (21 bbls) of Class 'B' cement and fill casing from TD @ 848' 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 # 210

Plug & Abandonment

SURFACE CSG. SET @ 17.5'

7", 20#, J-55 @ 3 x's

NOTES:

Subsurface P&A marker @
4' below GL

cement from bottom hole to surface

PERFS: 720' - 748'

PERFS: _____

PERFS: _____

PRODUCTION STRING CSG. SET @ 835'
4 1/2", 9.5#, J-55 @ 20 x's

TUBING SET @ _____

PLUG BACK TOTAL DEPTH: Surface

720'

748'

DAKOTA 'A' perms

OH 835' - 845'

Dakota 'C' sand

TD 848'