

NMOC-Hebb

Form 3160-5
(June 1990)

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

5. Lease Designation and Serial No.
NM 064194

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Unocal "8" Federal #1

9. API Well No.
30-025-32821

10. Field and Pool, or Exploratory Area
Quail Ridge Morrow (gas)

11. County or Parish, State
Lea County, New Mexico

SUBMIT IN TRIPLICATE

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

2. Name of Operator
Aquila Energy Resources Company

3. Address and Telephone No.
10370 Richmond Avenue, Suite 700, Houston, Texas 77042

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
730' 600' FWL & 1980' FNL
Sec. 8 - T20S - R34E

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 Complete Well
☐ 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.)*

Propose to complete well per attached procedure and wellbore sketch.

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

Signed David L. Wilson/gg Title Director, Engineering

Date 09-05-95

(This space for Federal or State office use)

Approved by **(ORIG. SGD.) JOE G. LARA**

Title **PETROLEUM ENGINEER**

Date 9/16/95

Conditions of approval, if any:

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

GENERAL INSTRUCTIONS

Instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands subject to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special in-

SPECIFIC INSTRUCTIONS

zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

Item 4—If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 13—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.

(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used.

(4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations, or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that: This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

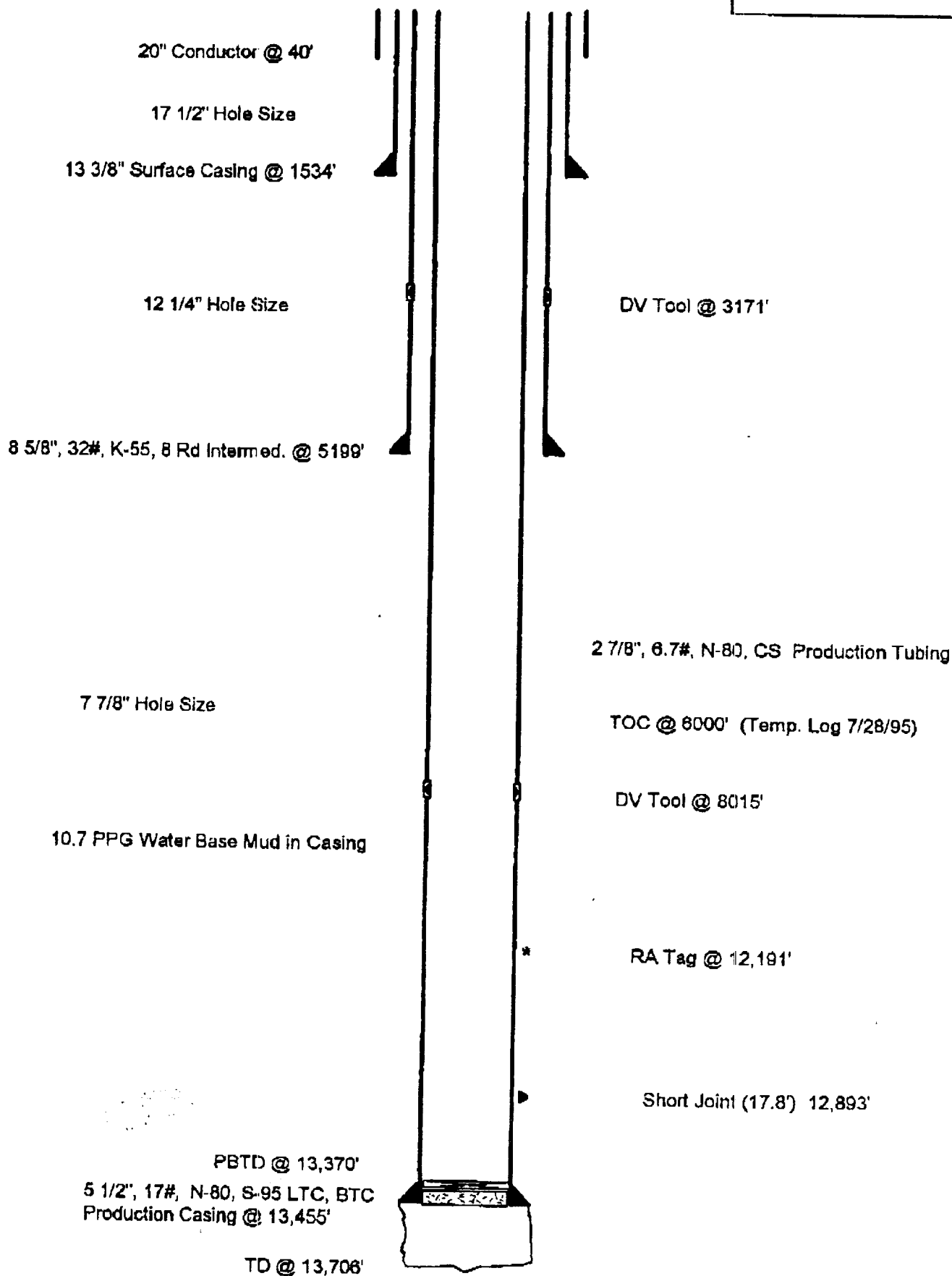
**Unocal Federal 8 #1 (8-20S-34E)
Completion Procedure**

1. MIRU daylight workover rig with power swivel, mud pump and returns tank.
2. Remove dry hole tree and NU BOP's. Test BOP's to 250/4000 psi.
3. PU 4 3/4" bladed mill, 2 stands 4 1/8" collars and TIH picking up 2 7/8", CS Hyd tubing to DV tool at 8,015. Drill DV tool, wash to PBTD at 13,370. Reverse circulate, displace 10.7 ppg mud with 8.5 ppg (3% KCl). Close annulus, test casing to 2000 psi. POOH stand tubing in derrick. (Use tong service w/ integral back up tongs to trip tubing)
4. RU electric line. Run GR/CBL/CCL from PBTD to 9,000'. Correlate depths to the Western Atlas Densilog-Neutron dated 8/17/95.
5. PU wireline re-entry guide, 1-2 7/8" joint, 1 X-nipple (ID=2.313"), 1-2 7/8" joint, and 5 1/2" retrievable production packer per attached wellbore drawing. TIH making up production tubing to recommended torque. Rabbit tubing while GIH.
6. Set packer at 12,400' and hang tubing with 5000# slackoff weight. Run hold down pins all the way in and test tubing and packer by pressuring tubing to 4000 psi for 1 hr. Monitor annulus for flow. Bleed tubing pressure off and test annulus to 2000 psi for 30 min. Monitor tubing for flow. Install tree and test to 4000 psi. RD and demob workover rig.
7. RU swab unit, and swab tank, swab tubing down to 5500'.
8. RU well testers, test flowline & manifold to 4000 psi. RU electric line and test lubricator to 4000 psi. RIH with 1 11/16", 6 SPF, 0° phased, 13 gm strip gun. **Perforate 13,310' - 13,319' (9')** with approximately 1000 psi underbalance. Correlate perforating depths with the Western Atlas open hole log dated 8/17/95.
9. Unload well and obtain a 8 hr test. Shut well in for 12 - 24 hours, run slickline gauges and obtain a static BHP.
10. RU electric line, test lubricator to 4000 psi. RIH with 1 11/16", 6 SPF, 0° phased, 13 gm strip gun. **Perforate 13,240' - 13,248' (8')**.
11. Flow well and obtain an 8 hr test. Shut well in 12 - 24 hours, run pressure gauges on slickline.
12. A stimulation procedure based on BHP information will follow.

RECEIVED

SEP 11 1995
WILLIAMS
OFFICE

AQUILA ENERGY RESOURCES
UNOCAL FED. #8 - 1
LEA CO., NEW MEXICO
By: GJB, Date: 8/31/95

CURRENT COMPLETION

RECEIVED

SEP 11 1885
J. D. HOBBS
OFFICE

AQUILA ENERGY RESOURCES
UNOCAL FED. #8 - 1
LEA CO., NEW MEXICO
By: GJB Date: 8/31/95

PROPOSED COMPLETION

20" Conductor @ 40'

17 1/2" Hole Size

13 3/8" Surface Casing @ 1534'

12 1/4" Hole Size

DV Tool @ 3171'

8 5/8", 32#, K-55, 8 Rd Intermed. @ 5199'

2 7/8", 6.7#, N-80, CS Production Tubing

7 7/8" Hole Size

TOC @ 8000' (Temp. Log 7/28/95)

DV Tool @ 8015'

3% KCl Packer Fluid

RA Tag @ 12,191'

Retrievable Packer @ 12,400'

2.313" X-Nipple @ 12,430'

Short Joint (17.8') 12,893'

PBTD @ 13,370'

Morrow Perfs @ 13,310' - 319
& 13,240' - 248'
(Est. BHP = 4500 psi)5 1/2", 17#, N-80, S-85 LTC, BTC
Production Casing @ 13,455'

TC @ 13,708'

