N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue

UNITED STATES A TERFORE, NM 88210

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Form	3160-3
(April	2004)

FORM APPROVED OM B No. 1004-0137 Expires: March 31, 2007 BUREAU OF LAND MANAGEMENT 5. Lease Serial No. NM 0374057A SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit or CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE- Other instructions on reverse side. Catclaw Draw Unit (4876) 1. Type of Well Gas Well Other 8. Well Name and No. Catclaw Draw Unit #19 2. Name of Operator HEC Petroleum, Inc. (9812) 9 API Well No. 3b. Phone No. (include area code)
432 498-8662 RECEIVED 30-015-33882 3a Address 500 W. Illinois Midland, Texas 79701 10. Field and Pool, or Exploratory Area Catclaw Draw; Morrow (Gas)(74320) 4. Location of Well (Footage, Sec., T., R, M, or Survey Description) MAR 0 9 2005 11. County or Parish. State 1,117' FNL & 1,147' FWL ODD-ADTEOM UL D, Sec. 24, T-21-S, R-25-E **EDDY County, New Mexico** 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Production (Start/Resume) Water Shut-Off Deepen Notice of Intent Alter Casing Well Integrity Fracture Treat Reclamation Casing Repair Other Change 1st New Construction Recomplete Subsequent Report ✓ Change Plans Temporarily Abandon Intermediate Casing Plug and Abandon Final Abandonment Notice Plug Back Water Disposal Convert to Injection Size & Cement 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) HEC Petroleum, Inc. respectfully submits the following changes to the originally approved casing/cementing program for the 1st Intermediate Casing string. While drilling the 11" hole section, we encountered severe lost circulation within the Capitan Reef Formation. "Dry drilling" will now be required from 720' to the 1st Intermediate Casing setting point at 1750'. The original plan was to run 9-5/8" casing and cement this section of the hole with conventional cement in a single stage. Upon completing drilling through the Capitan Reef, this option is no longer feasible. To attempt to continue utilizing conventional cement would, at best, require use of an ECP and DV Tool and pump cement in two stages. This method runs the risk that the TOC would still be below 720', hence requiring perforating the casing to circulate cement to surface, thus reducing long term casing integrity and zone protection. Also, the possibility of not successfully accomplishing this exists due to time WOC and ECP failure and formation breaking down, thence requiring multiple top-off cement jobs. HEC Petroleum, Inc., therefore, proposes the attached changes and procedures for this section of hole from 0' to 1,750', or 1st Intermediate Casing Plan, to increase the probability of successfully cementing to surface and "properly" isolating the Capitan Reef formation with a good quality cement. This will also save considerable rig time and money and reduce exposure to further possible problems. (See attached "Proposed Changes-1st Intermediat Casing/Cement" sheet - Or Page 2) I hereby certify that the foregoing is true and correct Name (Printed/Typed) Alan W. Bohling Title Regulatory Agent Signature 02/25/2005 Date THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Title

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department of agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease

which would entitle the applicant to conduct operations thereon.

Approved by

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Proposed Changes-1st Intermediate Casing/Cement

Catclaw Draw Unit #19 (API # 30-015-33882) 1,117' FNL & 1,147' FWL UL D, Sec. 24, T-21-S, R-25-E Eddy County, New Mexico

Approved Pre-Drill Plan:

Run and set 9-5/8" casing at ± 1750 ' and cement to surface via a single stage conventional cement job.

Proposed Changes:

Run and set 8-5/8" (vs. 9-5/8") casing at ±1750' and cement to surface via a single stage foamed cement job as follows:

- 1) Make sure there are two side outlet valves (one on each side) RU on casing head.
- 2) TIH with 8 5/8" casing and float equipment to bottom, circulate for a minimum of 1.5 x casing volumes prior to cementing. Double valve the valves off the casing head using Halliburton plug valves.
- 3) Cement the well using Halliburton's ZoneSeal Process as follows:
 - a) 40 bbl Gelled Water Spacer
 - b) 10,000 scf Nitrogen Spacer
 - c) Lead Cement: 600 sx total of Class "C" Cement + 2% ZoneSeal + 2% CaCl₂ (1.34 ft³/sx / 6.34 gps FW)
 - i) 45 bbl ZoneSeal Class C with 40 scf/bbl N2
 - ii) 45 bbl ZoneSeal Class C with 85 scf/bbl N2
 - iii) 53 bbl ZoneSeal Class C with 120 scf/bbl N2
 - d) Tail Cement: 150 sx of Class "C" Cement + 2% ZoneSeal + 2% CaCl₂ (1.34 ft³/sx / 6.34 gps FW)
- 4) Shut-down drop Top Plug
- 5) Displace with fresh water
- 6) Once foam is circluating to surface, hold \pm 100-200 psi backpressure on annulus and shut-in 5 to 10 bbl prior to landing plug
- 7) Check Floats, pressure casing to ± 500 psi
- 8) If Foam Cement is circulated to surface:
 - a) Mix & Pump 75 sacks of Thix-O-Tropic CAP Cement down the annulus
 - b) Displace Cap Cement with ± 5 bbl fresh water to clear pumps, lines, & BOP
 - c) Shut-in annulus, release pressure on casing, and allow cap cement to set
- 9) If Foam Cement is not circulated to surface:
 - a) Pressure 8 5/8" casing to ±500 psi & monitor pressure
 - b) Prepare to Cement down the 8 5/8" X 13 3/8" annulus (via both side outlets on casing head)
 - Mix and pump 300 sacks of Foamed Premium-Plus Cement (70 bbl Premium-Plus Cement with 50 scf/bbl N2)
 - d) Mix & Pump 75 sacks of Thix-O-Tropic CAP Cement down the annulus
 - e) Displace Cap Cement with ± 5 bbl fresh water to clear pumps, lines, & BOP
 - f) Shut-in annulus, release pressure on casing, and allow cap cement to set

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