Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

2005 AUG 19 PM 3 40

RECEIVED
070 FARMINGTON NM

5. Lease Serial No.
Jicarilla Contract 413

6. If Indian, Allottee or Tribe Name
Jicarilla Apache

7. If Unit or CA/Agreement, Name and/or No.

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

8. Well Name and No.
Chacon Jicarilla D 4

2. Name of Operator
ENERGEN RESOURCES CORPORATION

9. API Well No.
30-039-20206 (43) 30-043-20206

3a. Address
2198 Bloomfield Highway, Farmington, NM 87401

3b. Phone No. (*include area code*)

10. Field and Pool, or Exploratory Area
W Lindrith Gallup Dakota

4. Location of Well (*Footage, Sec., T., R., M., or Survey Description*)
990' FNL, 1650' FWL, Sec. 22, T23W, R3W, N.M.P.M.

11. County or Parish, State
Sandoval
~~Rio Arriba~~ NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☒ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 final site is ready for final inspection.)

Energen Resources intends to plug and abandon this well as per the attached procedure.

SEP 2005
RECEIVED
OIL CONS. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct
Name (*Printed/Typed*)
Vicki Donaghey

Title
Regulatory Analyst

Vicki Donaghey

Date 08/19/05

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **Original Signed: Stephen Mason**

Title

Date **AUG 29 2005**

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.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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.

NMOCD

PLUG AND ABANDONMENT PROCDURE

August 1, 2005

Chacon Jicarilla D #4
Chacon Dakota
990' FNL & 1650' FWL, NW, Section 22, T23N, R3W
Sandoval County, New Mexico, API #30-043-20206

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.
Cement will be ASTM Type III, mixed at 14.8 ppg with a 1.32 cf/sx yield or Class B.

1. Install and test location rig anchors. Prepare blow pit. Comply with all NMOCD, BLM, and Energen safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line and blow down well; kill with water as necessary. ND wellhead and NU BOP. Test BOP.

2. TOH and tally 234 joints 2.375" tubing, total 7435'. If necessary, LD tubing and use a workstring. Roundtrip 4.5" gauge ring or casing scraper to 7266'.

3. **Plug #1 (Dakota perforations and top, 7266' – 7166'):** TIH and set 4.5" CR at 7266'. Pressure test tubing to 1000#. Load casing with water and circulate well clean. Pressure test casing to 800#. *If casing does not test, then spot or tag subsequent plugs as appropriate.* Mix 12 sxs Type II or Class B cement (15.6 ppg) and spot a balanced plug inside casing above CR to isolate the Dakota perforations. TOH with tubing.

6160 6050

4. **Plug #2 (Gallup top, ~~6250'~~ – ~~6150'~~):** Perforate 3 squeeze holes at 6250'. Attempt to establish rate into squeeze holes if the casing pressure tested prior to perforating. Set 4.5" cement retainer at 6200'. Establish rate into squeeze holes. Mix and pump 46 sxs cement (Type II or Type III), squeeze 35 sxs outside the 4.5" casing and leave 11 sxs inside casing to cover the Gallup top. TOH and LD tubing.

5. **Plug #3 (Mesaverde top, 4736' – 4636'):** Perforate 3 squeeze holes at 4736'. Attempt to establish rate into squeeze holes if the casing pressure tested prior to perforating. Set 4.5" cement retainer at 4686'. Establish rate into squeeze holes. Mix and pump 46 sxs cement, squeeze 35 sxs outside the casing and leave 11 sxs inside casing to cover the Mesaverde top. PUH to 3160'.

6. **Plug #4 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 3160' – 2667'):** Mix 37 sxs cement and spot a balanced plug inside casing to cover from the PC top through the Ojo Alamo top. TOH with tubing.

7. **Plug #5 (Nacimiento top, 1470' – 1370'):** Perforate 3 squeeze holes at 1470'. Attempt to establish rate into squeeze holes if the casing pressure tested prior to perforating. Set 4.5" cement retainer at 1420'. Establish rate into squeeze holes. Mix and pump 46 sxs cement, squeeze 35 sxs outside the casing and leave 11 sxs inside casing to cover the Nacimiento top. TOH and LD tubing.

8. **Plug #6 (8.625" Surface casing, 313' - Surface):** Perforate 3 squeeze holes at 313'. Establish circulation out the bradenhead valve with water. Mix and pump approximately 90 sxs cement down the 4.5" casing to circulate good cement out bradenhead valve. Shut well in and WOC.

9. ND BOP and cut off casing below surface casing flange. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

Chacon Jicarilla D #4

Proposed P&A

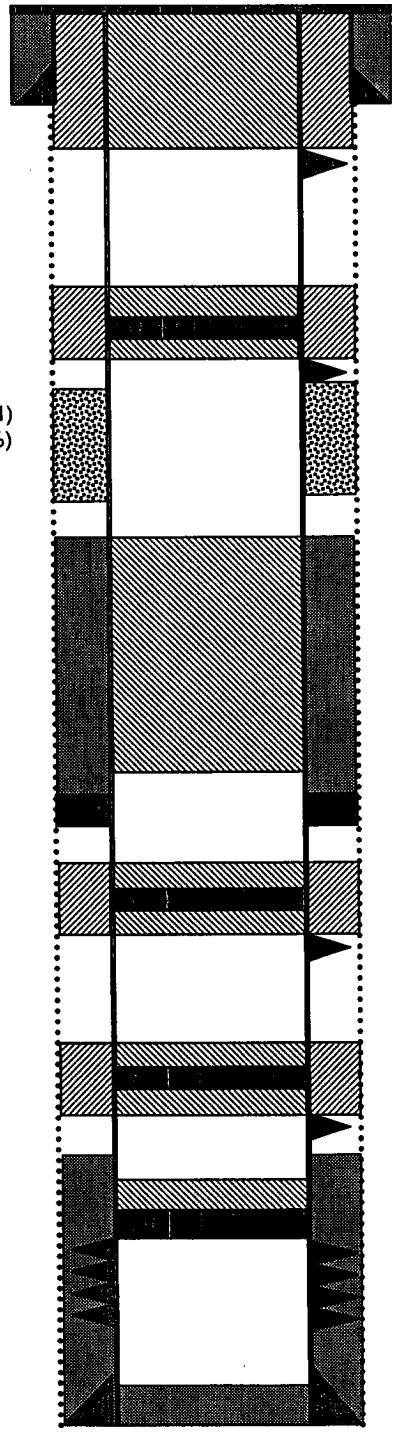
Chacon Dakota

990' FNL & 1650' FWL, Section 22, T-23-N, R-3-W
Sandoval County, NM / API #30-043-20206

Today's Date: **8/1/05**

Spud: 5/10/76
Comp: 7/15/76
Elevation: 7399' GL
7413' KB

12.25" Hole



8.625",24# J-55 Casing set @ 263'
200 sxs cement circulated to surface

Plug #6: 313' – 0'
Type III cement, 90 sxs

Nacimiento @ 1420'

Cmt Retainer @ 1420'

Perforate @ 1470'

Plug #5: 1470' – 1370'
Type III cement, 46 sxs:
35 sxs outside casing
and 11 sxs inside.

Isolate leak at 1635', sqz w/50 sxs (2001)
Top of cmt squeeze @ 1516' (Calc, 75%)

Top of Cmt @ 2697' (Calc, 75%)

Ojo Alamo @ 2717'

Kirtland @ 2875'

Fruitland @ 2945'

Pictured Cliffs @ 3110'

Plug #4: 3160' – 2667'
Type III cement, 37 sxs

DV Tool @ 3373'
Cemented with 150 sxs (210 cf)

Mesaverde @ 4686'

Cmt Retainer @ 4686'

Perforate @ 4736'

Plug #3: 4736' – 4636'
Type III cement, 46 sxs:
35 sxs outside casing
and 11 sxs inside.

6150 6050

Gallup @ 6200'

Cmt Retainer @ 6200'

Perforate @ 6250'

Plug #2: ~~6250'~~ – ~~6150'~~
Type III cement, 46 sxs:
35 sxs outside casing
and 11 sxs inside.

Top of Cmt @ 6570' (Calc, 75%)

Dakota @ 7318'

Set CR @ 7266'

Dakota Perforations:
7316' – 7438'

Plug #1: 7266' - 7166'
Type B cement, 12 sxs

7.875" Hole

4.5" 10.5#&11.6#, K-55 Casing @ 7721'
Cemented with 250 sxs (350 cf)

TD 7722'
PBTD 7465'

Chacon Jicarilla D #4

Current

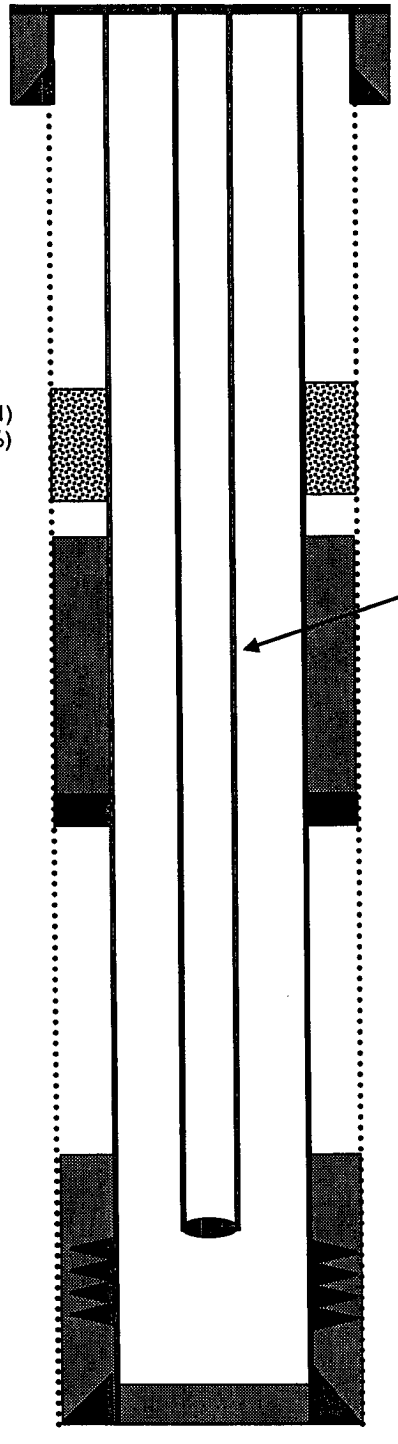
Chacon Dakota

990' FNL & 1650' FWL, Section 22, T-23-N, R-3-W
Sandoval County, NM / API #30-043-20206

Today's Date: **8/1/05**

Spud: 5/10/76
Comp: 7/15/76
Elevation: 7399' GL
7413' KB

12.25" Hole



8.625",24# J-55 Casing set @ 263'
200 sxs cement circulated to surface

Well History

Apr '01: Set RBP at 7110'. Isolate casing leak at 1635', squeeze with 50 sxs. PT okay. Unable to retrieve RBP, push to 7465'. Land tubing.

Jul '01: Change out tubing.
Oct '01: Pump change.

Dec '02: Tubing repair. Run rods and pump.

Sep '03: LD rods and pump.

Nacimiento @ 1420'

Isolate leak at 1635', sqz w/50 sxs (2001)
Top of cmt squeeze @ 1516' (Calc, 75%)

Top of Cmt @ 2697' (Calc, 75%)

Ojo Alamo @ 2717'

2.375" tubing at 7435'
(234 joints, 4.7#, J-55 with SN @ 7398')

Kirtland @ 2875'

Fruitland @ 2945'

Pictured Cliffs @ 3110'

DV Tool @ 3373'
Cemented with 150 sxs (210 cf)

Mesaverde @ 4686'

Gallup @ 6200'

Top of Cmt @ 6570' (Calc, 75%)

Dakota @ 7318'

Dakota Perforations:
7316' – 7438'

7.875" Hole

4.5" 10.5#&11.6#, K-55 Casing @ 7721'
Cemented with 250 sxs (350 cf)

TD 7722'
PBTD 7465'

The Jicarilla Apache Nation requires 45 days to evaluate this well beginning from AUG 2 2 2005 in order to determine if they would like to assume ownership of the well. If the Jicarilla Apache Nation has not contacted your office before the end of the 45 days you may proceed with plugging operations.