Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

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

5. Lease Serial No.
CONT 104

6. If Indian, Allottee or Tribe Name
JICARILLA

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

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

8. Well Name and No.
JICARILLA E #12A

2. Name of Operator
CONOCO, INC.

9. API Well No.
30-039-25844

3a. Address
P.O. BOX 2197 DU 3066 HOUSTON, TX 77252

3b. Phone No. *(include area code)*
(281)293-1005

10. Field and Pool, or Exploratory Area
BASIN DAKOTA/BLANCO MESAVERD

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
D, SEC.22, T26N R4W
30' FNL & 1150' FWL

11. County or Parish, State
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 EXTENDED PRODUCTION TEST
	☐ 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 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.)

Conoco is currently doing an extended production test of the Dakota and will determine soon if a re-stimulation of the Dakota is warrented before moving uphole to do additional work.

After a decision is made on the Dakota, the well will be completed in the Mesaverde for a downhole commingle completion.

Upon completion of the Point Lookout, remedial cementing will be done to isolate the Cliffhouse member of the Mesaverde as well as the Pictured Cliffs and Fruitland formations.

See attached procedure.

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

Title
REGULATORY ANALYST

Signature

Date
10/13/2000

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by /s/ Brian W. Davis

Title Lands and Mineral Resources

Date OCT 31 2000

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, 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.

(Instructions on reverse)

Jicarilla E 12A
Completion Procedure
Part 2
(MV Completion and Remedial Cementing)

Summary:

The Jicarilla E 12A was the second of eight Mesa Verde/Dakota wells to be drilled in South area in 2000. The well was drilled with mud to a TD of 7868'. Surface casing (9 5/8") was set at 514' and 4.5" 10.5 lb/ft production casing was set from TD to surface. A GR/TDT log was run from PBTD to 2000' with the GR continuing on to surface. A CBL/CCL was run prior to perforating the Dakota. It showed that the bulk of the third stage of the primary cement job went down instead of up, so remedial cementing will be required after the Mesa Verde completion. The Dakota formation was fraced with a single-stage slick water frac using multiple low concentration sand stages. The Dakota is being flow tested prior to moving up hole to complete the Mesa Verde. The Mesa Verde will be fraced with a single-stage slick water frac, and after testing and remedial cementing will be down hole commingled with the Dakota.

General Information:

Spud date: 6-21-00 Drilling Rig: Key Rig #49 Rig release date: 7-7-00

AFE # 8421

Location: 30' FNL, 1150' FWL, Sec. 22, T26N, R4W (Lat 36° 28.8', Long 107° 14.7')

Elevation: 6764' KB: 6777' (13' above GL)

TD: 7868 PBTD: approx. 7853

API #: 30-039-25843

Pools: Basin Dakota (# 71599)
Blanco Mesa Verde (# 72319)

DHC Order #: DHC-1942

Logs: Schlumberger TDT
Blue Jet CCL/CBL

Wellhead: 9 5/8" 8RD x 11" 3M – Casing Head
11" 3M x 7 1/16" 5M – Tubing head
7 1/16" 5M x 2 1/16" 5M with Master Valve and Wing Valve

Casing/Cement: 9 5/8" WC-50 36# surface set in 12 ¼" hole with 300 sacks Class B
Silica + .25 pps celloflake (15.2 ppg)

4 ½" J-55 production set in 8 3/4" hole with three stages (DV tool
and 5556')

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Casing/Cement: 9 5/8" WC-50 36# surface set in 12 ¼" hole with 300 sacks Class B + 2% Silica + .25 pps celloflake (15.2 ppg)

4 ½" J-55 production set in 8 3/4" hole with three stages (DV tools at 6900' and 5556')

1st stage 280 sks 50:50 Poz B + 2.75% D20 + .2% D167 + .2% D46 + .25 pps D29 (12.4 ppg) Full returns – No Cmt to surface

2nd stage 400 sks 50: 50 Poz B + 2.75% D20 + .2% D167 + .2% D46 + .25 pps D29 (12.4 ppg) Lost returns after 20 barrels of displacement

3rd stage Lead: 720 sks "B" + 3% D79 + 2% S1 + .1% D46 + .25 pps D29 (11.4 ppg) Tail: 290 sks 50:50 Poz B + 2.75% D20 + .2% D167 + .2% D46 + .25 pps D29 (12.4 ppg) No returns throughout job.

BHT: 180° F

Formation Tops:

OJAM	2901
FRLD	3175
PCCF	3432
LEWS	3599
CHRA	4388
CLFH/MV	5098
MENF	5228
PTLK	5603
MNCS	6047
U. GLLP	6719
L. GLLP	6941
TOCT	7154
GRHN	7554
GRRS	7614
DAKOTA	7638
T.D.	7638

Mesa Verde Completion Procedure:

1. MIRU pulling unit. Conduct pre-job safety meeting. Fill frac tanks for MV frac. Put biocide and KCl concentrate in the tanks prior to their being filled. If the water is not from a supply well or does not appear to be of high quality it should be pumped through a filter into the tanks.
2. Kill Dakota with a minimum amount of very clean 1% KCl water.
3. Add enough tubing to tag for fill at PBTD. POOH
4. RU wireline company and set composite bridgeplug at 6000'. Dump 10 ' of sand on top of bridge plug (approx. 100 lbs).
5. Perforate Mesa Verde as per perforating detail to be provided later with frac design (est. interval from 5603' to 5714'). RD wireline company.
6. RU stimulation company and breakdown the MV perforations down casing using water and ball sealers. RIH with ball catcher and retrieve balls.
7. Frac the MV as per frac procedure to be provide by Lucas Bazan. Note: max pressure set as a percent of test pressure depending on the use of a pressure relief valve or not. Casing was tested to 4250 psi prior to Dakota frac so pressure relief set pressure should be no higher than 3825 psi.
8. Flow back well to unload frac fluid and clean well up.

9. RU wireline company, RIH with composite bridgeplug and set at 5546' (10 ft above DV tool). Load hole, drop 20' of sand on top of bridgeplug (approx. 200 lbs.) and pressure test plug to 3000 psi.
10. Shoot four squeeze hole at 5450' and four squeeze holes at 4300'.

    Note: Notify the BLM at least 24 hours in advance of cementing.

11. RIH with cement retainer on tubing to approx. 5375'. Set retainer and attempt to establish circulation between sets of squeeze holes. If circulation can be established go to step A. If circulation cannot be established go to step B.

    A. Suicide squeeze the perfs with 260 sacks (assumes 50% excess and a yield of 2.11 cubic feet per sack) and flush with 20 bbls of fresh water as per service company cementing detail. Immediately pull out of retainer and circulate hole clean. POOH. Pick up cementing packer. RIH set packer at 4200' and try to pump into upper set of squeeze holes. If injection can be established hesitation squeeze to 1000 psi with 50 sacks if cement returns were seen while pumping the suicide squeeze or 100 sacks if no cement returns were seen while pumping the suicide squeeze. Release packer, reverse hole clean and POOH.

    B. If circulation could not be established, hesitation squeeze the lower set of perforations to 1000 psi with 100 sacks. Pull out of retainer and reverse circulate tubing clean. POOH. Pick up cementing packer. RIH set packer at 4200' and try to pump into upper set of squeeze holes. Hesitation squeeze the upper squeeze holes to 1000 psi with 100 sacks. Release packer, reverse hole clean and POOH.

12. Pressure test squeeze to 1000 psi.
13. RIH and perforate four squeeze holes at 3550'. RD wireline unit.
14. RIH with cement retainer on tubing and set retainer at 3475'. Establish circulation out surface casing. If circulation can be established go to step C. If circulation cannot be established go to step D.

    C. Squeeze the perfs with 680 sacks (assumes 50% excess) flushed with 13 barrels of fresh water as per BJ cementing procedure. Immediately pull out of retainer and circulate hole clean. POOH.

    D. If circulation could not be established, hesitation squeeze the squeeze perforations to 1000 psi with 165 sacks. Pull out of retainer and reverse circulate tubing clean. POOH.
15. RIH with bit and drill out to sand on top of bridge plug at 5526'. Pressure test casing to 1000 psi. Run CBL to verify zonal isolation. If any of the squeeze holes leak or if additional remedial cementing is required, re-squeeze.
16. If casing tests and zonal isolation is achieved, RIH with bit and drill out bridge plugs over Mesa Verde and Dakota and clean out to PBTD. Note that any water in the hole when drilling the bridge plugs should be clean and contain 1% KCl.
17. RIH with tubing with seating nipple for future plunger lift installation and place the end of tubing at mid-Dakota perf. Nipple up wellhead and put well on production.

San Juan South Team

CONDITION OF APPROVAL FOR REMEDIAL CEMENTING

Remedial cementing is to commence within 90 days of receipt of this sundry or 30 days from the completion of and testing of the Mesa Verde formation, which ever comes first.

If cement is not circulated in the remedial cementing of the Jicarilla , the cement top must be verified by either a temperature survey or a cement bond log. Fresh water formations that included the Nacimiento and the Ojo Alamo must be covered during remedial cementing. A copy of that log will be remitted to the Albuquerque Field Office with the subsequent report of operations.

Please direct question to Brian Davis @ 505.761.8756 or Brian_Davis@blm.gov. Thank you for your assistance.