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.
SF-080112

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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

8. Well Name and No.
Riddle Com 9

2. Name of Operator
Amoco Production Company

Attention:
Patty Haefele

9. API Well No.
3004525017

3. Address and Telephone No.
P.O. Box 800, Denver, CO 80201 (303) 830-4988

10. Field and Pool, or Exploratory Area
Blanco Mesaverde

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1730' FSL 1050' FWL Sec. 17 T 28N R 8W Unit L

11. County or Parish, State
San Juan New Mexico

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☒ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other _____	☐ 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.)*

Amoco Production Company requests permission to recomplete the subject well to the Mesaverde formation per the attached procedures.

RECEIVED
FEB 13 1996
OIL CON. DIV.
DIST. 3

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

Signed Patty Haefele Title Staff Assistant Date 01-24-1996

APPROVED

(This space for Federal or State office use)

Approved by _____ Title _____ Date FEB 09 1996

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.

DISTRICT MANAGER

NMOCD

Mesaverde

See Instructions on Reverse Side

Hold C-104 for NSL/DHC
Well Name & No. Chg

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-045-25017	72319	Blanco Mesaverde

4 Property Code	5 Property Name	6 Well Number
980	Riddle Com	9

7 OGRID No.	8 Operator Name	9 Elevation
000778	Amoco Production Company	5724'

10 Surface Location

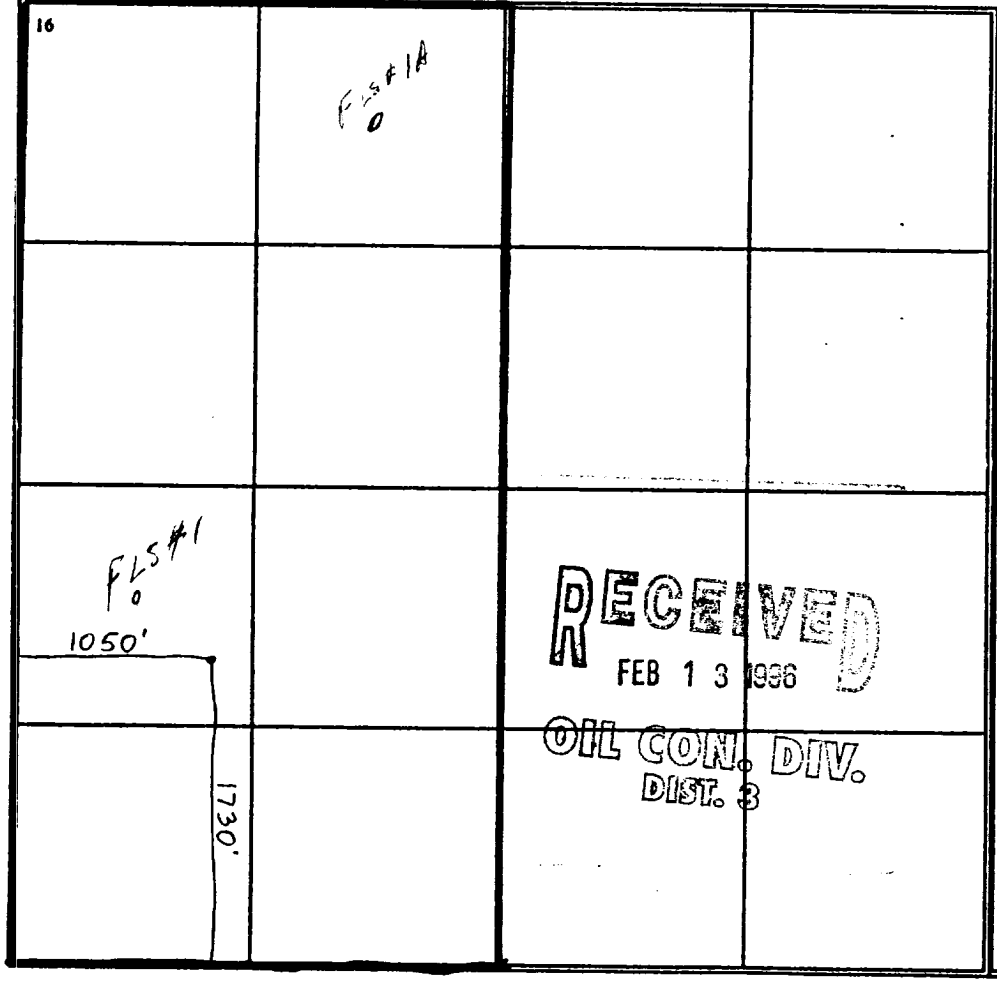
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	17	28N	8W		1730	South	1050	West	San Juan

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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OIL CON. DIV.
DIST. 3

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Patty Haefele
Signature

Patty Haefele
Printed Name

Staff Assistant
Title

1/24/96
Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

2/9/81
Date of Survey

Signature and Seal of Professional Surveyer:

Original on file

3950
Certificate Number

SJOET Well Work Procedure

Wellname: **Riddle Com 9**
Version: #1
Date: Jan. 21, 1996
Budget: Major Cash
Workover Type: Recompletion

Objectives:
1. Check for and eliminate casing leaks.
2. Repair Bradenhead.
3. Recomplete the Point Lookout, Menefee, and Cliffhouse in one frac.
4. Establish gas rates and shut-in pressures on the MV.
5. Place well on production and commingle MV with existing DK.

Pertinent Information:

Location:	1730' FSL, 1050' FWL, L17-28N-8W	Horizon:	DK
County:	San Juan	API #:	30-045-25017
State:	New Mexico	Engr:	Mark Rothenberg
Lease:	Federal # SF-080112	Phone:	W--(303)830-5612
Well Flac:	979020		H--(303)696-7309
			P--(303)553-6448

Economic Information:

APC WI:	75%	DK Prod. Before:	70 MCFD
Estimated Cost:	$170,000	DK Anticipated Prod:	70 MCFD
Payout:	4.9 years	MV Anticipated Prod.:	200 MCFD
PV15:	$33.9M	Total Anticipated Prod.:	270 MCFD

NOTE: Bradenhead costs not included in economics due to DRA account.

Formation Tops: (Estimated formation tops)

Nacimento:		Menefee:	3830
Ojo Alamo:		Point Lookout:	4297
Kirtland Shale:		Mancos Shale:	4558
Fruitland:		Gallup:	5521
Pictured Cliffs:		Greenhorn:	6272
Lewis Shale:		Graneros:	6339
Chacra:		Dakota:	6383
Cliffhouse:	3732	Morrison:	

Bradenhead Test Information:
Test Date: 9/5/92 **Tubing:** 590 **Casing:** 590 **BH:** 35

Time	BH	CSG	INT	CSG
5 min				
10 min				
15 min				

Comments: Had steady flow of clear water

Suggested Procedure:

1. Check location for anchors. Install if necessary. Test anchors.
2. MIRUSU. Record DK SITP and CPs. Blow down well. Kill only if necessary with water.
3. NDWH. NUBOP.
4. TOH with 2 3/8" tubing.
5. RIH with tbg and RBP, set RBP at 4700'. Circulate hole clean, spot 10' of sand on RBP and pressure test casing to 1500#. Isolate any leaks found and contact Denver. DO NOT repair any leaks before running CBL.
6. Run CBL/CCL/GR from 4700 to surface to determine condition of cement behind pipe. Relay CBL info to Mark Rothenberg in Denver (continuous fax # 303-830-4264) to verify if remedial cement squeezes will be needed prior to any frac treatment (Note: if cement squezzes are needed, also repair BH as mentioned in step 11 and frac down fracstring).
7. Correlate GR to Schlumberger Induction-GR log (11/3/81) for depth control. Perf select fire 58 shots at:

   3736, 3746, 3752, 3801, 3803, 3809, 3811, 3819, 3821, 3826, 4055, 4078, 4222, 4224, 4234
   4236, 4238, 4300, 4302, 4304, 4306, 4308, 4310, 4312, 4314, 4316, 4318, 4320, 4322, 4331
   4340, 4342, 4344, 4352, 4356, 4358, 4360, 4367, 4369, 4371, 4373, 4375, 4384, 4386, 4388
   4390, 4392, 4394, 4402, 4406, 4435, 4437, 4439, 4441, 4470, 4513, 4531, 4552
8. Frac well according to attached frac procedure, NOTE: THIS FRAC WILL HAVE BALLS DROPPED DURING FRAC.
9. Flow well back as soon as possible to tank on a 1/4" choke for 8 hours, then increase choke to 1/2". Establish and record gas, water, oil rates and producing and shut-in TP and Cps. Obtain water and gas samples.
10. RIH with bit and scraper for 4.5" csg and c/o sand to RBP at 4700'. Retreive RBP and TOOH.
11. RIH with tbg and RBP and set at depth determined from CBL and repair BH according to best practice procedure #3.
12. TIH with 2 3/8" production string, tag for fill and clean out if necessary, and land at 6550' (1/2 mule shoe on btm and a SN 1 JT off btm). RDMOSU
13. Place well on production.

Note: Since this procedure invloves recompletion and DRA expenditures, please be sure to label all invoices accordingly so that costs can be accounted for properly.

If problems are encountered, please contact:
MARK ROTHENBERG
(W) (303) 830-5612
(H) (303) 696-7309
(P) (303) 553-6448

Proc. #3

Riddle Com #9

1. Contact Federal or State agency prior to starting repair work.

2. Catch gas and/or water sample off of bradenhead and casing, and have analyzed.

3. Install and/or test anchors.

4. MIRUSU. Check and record tubing, casing and bradenhead pressures.

5. Blow well down, kill well if necessary with 2% KCL.

6. Nipple down well head, nipple up and pressure test BOP's.

7. Trip in the hole and tag PBTD, check for fill, trip and tally out of hole with tubing checking condition of tubing.

8. Trip in the hole with bit and scraper for the intermediate casing and trip in to the top of the liner. Trip out of the hole with bit and scraper. Trip in hole with second bit and scraper and run from the top of the liner to the top of the perforations. A seating nipple and standing valve may be run in order to pressure test the tubing.

9. Trip in the hole with RBP and PKR. Set RBP 50-100 ft. above perforations. Trip out of hole one joint and set PKR and pressure test RBP to 1500 psi. Release PKR, spot sand on RBP and pressure test csg to 1000 psi. If no leak is found, trip out of hole with PKR and skip to step 11.

10. Trip out of hole isolating leak in liner, if any. If a liner leak is found, establish injection rate and check for circulation around liner top. Also, determine if there is a leak above the top of the liner. Trip out of hole with PKR.

11. Determine from well file and history, the interval a CBL needs to be run between the RBP and the surface. If a CBL is needed, run CBL over the interval necessary under 1000 psi and report results to Denver. Different size CBL tools may be required in the liner versus the intermediate casing.

12. If there are no casing leaks, skip to step 14.

13. If there is a leak in the liner and a leak above the top of the liner, trip in hole with a RBP that fits the liner and a PKR that fits the intermediate casing. Set RBP 30-60' below the top of the liner. Release PKR and trip out of hole isolating leak in the intermediate casing.

14. Based on the location of the leak, if any, and the results of the CBL, perforate casing if necessary with 4 JSPF and circulate dye if possible to determine cement volume. Depending on the depth of the hole and circulating pressure, a PKR or a cement retainer may be needed.

15. Mix and pump sufficient cement (class B or equivalent with two hour setting time) to circulate to surface, if circulation to surface is possible. Shut bradenhead valve and attempt to obtain a squeeze pressure and WOC.

16. Trip out of hole. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leaks if casing fails pressure test.

17. If cement is not circulated to the surface, it may be necessary to run another CBL (and/or temperature survey 8-10 hours after cementing) and repeat steps 14 thru 16.

18. Trip in the hole with retrieving head for RBP, circulate sand off of RBP and trip out of hole with plug.

19. If there is a leak in the liner top, trip in hole with a PKR. If there is no leak in the liner top, skip to step 22.

20. Mix and pump sufficient cement (class B or equivalent with two hour setting time) to squeeze liner top. Attempt to obtain a squeeze pressure and WOC.

21. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leak if liner top fails pressure test.

22. If there is a second RBP in the liner, trip in the hole with a retrieving head, circulate sand off of the RBP and trip out of hole with the plug.

23. If there is a leak in the liner or squeeze work is required based on the CBL, perforate casing, if necessary with 4 JSPF. Trip in hole with a cement retainer and set above the leak or perforations.

24. Mix and pump sufficient cement (class B or equivalent with two hour setting time) and attempt to obtain a squeeze pressure and WOC.

25. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leaks if casing fails pressure test.

26. Trip in the hole with retrieving head for RBP set in the liner, circulate sand off of RBP with 2% KCL and trip out of hole with plug.

27. Trip in hole with a sawtooth collar and/or bailer and clean out to PBTD and trip out of hole.

28. Trip in the hole with the production string (1/2 mule shoe on bottom and a seating nipple one joint off bottom), land tubing to original depth. Nipple down BOP's, nipple up well head.

29. Swab well in and put well on production.

30. Rig down move off service unit.

31. Take final bradenhead pressures and log date/pressures in CRWS.