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

RECEIVED
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93 AUG 10 AM 10:44
070 FARMINGTON, NM

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.
SF078762

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.
Rosa Unit #131

2. Name of Operator
Amoco Production Company

Attention:
Julie L. Acevedo

9. API Well No.

3. Address and Telephone No.
P.O. Box 800, Denver, Colorado 80201

(303) 830-6003

10. Field and Pool, or Exploratory Area
Basin Dakota

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
940FSL 1660FEL Sec. 12 T 31N R 5W

11. County or Parish, State
Rio Arriba 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 Revise APD	☐ 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 your approval of the attached casing, liner and cementing revisions for the application for permit to drill submitted on 6/10/93.

RECEIVED
SEP - 3 1993
OIL CON. DIV.
DIST. 3

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

Signed Julie L. Acevedo Title Sr. Staff Assistant Date 08-09-1993

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

APPROVED
AUG 26 1993
DISTRICT MANAGER

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 Instructions on Reverse Side

FINAL COPY

AMOCO PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM

File: H:\group\srbu\nmexdk\dak20f46.wk3
Revision Date: 08/05/93

Lease: Rosa Unit
Well No. 131
Field: Basin Dakota
County: Rio Arriba, New Mexico
Location: 940' FSL x 1660' FEL, Sec. 12, T31N, R5W
Formerly Reference Well #20

OBJECTIVE: Evaluate and develop Pictured Cliff, Mesa Verde and Dakota reserves.

METHOD OF DRILLING

TYPE OF TOOLS	DEPTH OF DRILLING
Rotary	0 – TD

LOG PROGRAM

Type	Depth Interval
DIL–CAL–NGT–GR	SFC to TD
FDC–CNL	SFC to TD
MICROLOG	TD + 1000'
MRI	*ICP to Top Fruitland (6" tool)
	**TD to PCP (4.5" tool)

REMARKS:
Magnetic Resonance Image (MRI), pulls at 7'/min.
(409) 836 – 2955 (Numar, Brenham District).
*Contact Roger Gierhart (303/830–5053) for authorization.
**Contact Harry TerBest (303/830–6038) for authorization.

SPECIAL TESTS

TYPE	DEPTH INTERVAL, ETC
None	

Remarks:

APPROXIMATE DEPTHS OF GEOLOGICAL MARKER

6,642 Est. GL Elev. 6,658 Est. KB Elev.

Marker	Depth (ft)	SS Elev. (ft)
Ojo Alamo	2,726	3,932
Fruitland	2,846	3,812
Pictured Cliffs *	3,502	3,156
Lewis Shale	4,193	2,465
Cliff House	5,650	1,008
Menefee	5,799	859
Point Lookout	5,933	725
Mancos Shale	6,433	225
Greenhorn	8,023	(1,365)
Dakota #	8,209	(1,551)
TOTAL DEPTH:	8,533	(1,875)

Probable completion interval
* Possible pay.

OJO ALAMO IS POSSIBLE USEABLE WATER.

DRILL CUTTING SAMPLES		DRILLING TIME	
FREQUENCY	DEPTH	FREQUENCY	DEPTH
20'	Mud Up Pt– TD	Geolograph	0 – TD

Remarks:
Mudlogging Program:
Mudlogger to monitor chromatograph 100' above Cliff House to TD.
Full one man mudlogging services for Dakota Mud Up to TD.

MUD PROGRAM:

Approx Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L, cc's/30 min
0' – 400'	SPUD	8.5 – 9.0	Sufficient to clean hole and maintain hole conditions for logs.	
400'–INT CSG	LSND	8.8 – 11.0		
INT CSG– T. Dakota	AIR	–		
T. Dakota – TD	LSND	9.5 – 10		

REMARKS

* Use minimum mud weight to control formation pressures.

CONFIDENTIAL

CASING PROGRAM:

Casing String	Estimated Depth (ft)	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor				
Surface	400	13–3/8"	17–1/2"	1,2
Intermediate	4,343	9–5/8"	12–1/4"	1,2,3
Protective	8,023	7"	8–3/4"	2,4
Production	8,533	4–1/2"	6–1/4"	2,5

Remarks:
1. Circulate cement to surface.
2. Southern Rockies Drilling Team to design cement programs.
3. Casing set 100'–150' into Lewis Shale.
4. Casing set at top of Greenhorn Limestone.
5. Casing set 50' into Morrison.

GENERAL REMARKS:
Southern Rockies Dakota Engineer to design completion program.

Form 46 Reviewed by:

PREPARED BY:
F. Seidel/R. Gierhart/H. TerBest
Form 46 7–84bw

Logging program reviewed by:

APPROVED:
For Production Dept
8/5/93

APPROVED:
For Exploration Dept

RW #20

Amoco proposes to drill the well to further develop the Dakota reservior.
The well will be drilled to the surface casing point using native mud.
The well will then be drilled to the intermediate casing point with a non-dispersed mud system.
The protective hole will be drilled with air to the top of the Greenhorn were protective casing will be set.
The production hole will be drilled with a non-dispersed mud system to TD.

Surface Casing:

Quanity (ft)	Size (in)	Weight (ppf)	Description	Cement program
400	13.375	68	J-55, ST&C	625 cf Class B, 2% CaCl2 + 0.25 #/sx Flocele. 1.18 cf/sx, 15.6 ppg

Hole size 17.5", 125% excess, circulate cement to surface.

Intermediate Casing:

Quanity (ft)	Size (in)	Weight (ppf)	Description	Cement program
4343	9.625	36	J-55, LT&C	* 2 stage

* 1st Stg Tail: 1100 cf Class B, 0.4% CFR-3, 0.4% Halad 344, 5 #/sx Gilsonite, + 0.25 #/sx Flocele. 1.29 cf/sx, 15.11 ppg.

Top of Fruitland Coal 2846 ft
Stage tool depth 2746 ft, 100' above top of Fruitland Coal.

* 2nd Stg Lead: 1763 cf Class B, 65:35:6, 7#/sx salt, 0.375 #/sx Flocele, 5% Calseal, 2% Microbond. 1.8 cf/sx, 13.0 ppg.

* 2nd Stg Tail: 129 cf Class B, 0.4% CFR-3, 0.4% Halad 344, 5 #/sx Gilsonite, + 0.25 #/sx Flocele. 1.29 cf/sx, 15.6 ppg.

Hole size 12.25", 120% excess, circulate cement to surface.

Protective Casing:

Quanity (ft)	Size (in)	Weight (ppf)	Description	Cement program
8023	7	23	J-55, LT&C	* 2 stage

* 1st Stg Tail: 691 cf Class B, 50/50 poz, 2% gel, 0.4% Halad 413, 0.1% SCR 100, 5 #/sx Gilsonite, 5% Microbond HT, 0.4% VersaSet, 0.25 #/sx Flocele. 1.35 cf/sx, 13.4 ppg.

Top Picture Cliffs 3502 ft Est Top Cmt 3402
Top of Mesa Verde 5650 ft
Stage tool depth 5150 ft, 500' above top of Mesa Verde.

* 2nd Stg Tail: 351 cf Class B, 50/50 poz, 2% gel, 0.4% Halad 413, 5 #/sx Gilsonite, 5% Microbond HT, 0.4% VersaSet, 0.25 #/sx Flocele. 1.35 cf/sx, 13.4 ppg.

Hole size 8.75", 60% excess, circulate cement to surface.

Production Liner:

Quanity (ft)	Size (in)	Weight (ppf)	Description	Cement program
610	4.5	11.6	N-80, LT&C	* single stage

* 1st Stg Tail: 124 cf Class G, 35% SSA 1, 1.0% CFR 3, 0.5% Halad 24, 0.25 #/sx Flocele. 1.56 cf/sx, 15.6 ppg.

Estimated Total Depth 8533 ft
Estimated Top of Liner 7923 ft 100' overlap into intermediate casing.

Hole size 6.25", 60% excess, tie cement back.

BY: FRANK SEIDEL/BARRY PEISER 08/05/93
= input depths from form 46 in shaded areas to calculate cement volumes.
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