

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

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. Lease Designation and Serial No. <b>SF-0784983</b>
2. Name of Operator <b>Amoco Production Company</b>		7. If Unit or CA, Agreement Designation
3. Address and Telephone No. <b>P.O. Box 800, Denver, Colorado 80201</b>		8. Well Name and No. <b>San Juan Unit 28-7 193M</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>800' FNL 1040'FWL Sec. 28 T 28N R 7W</b>		9. API Well No. <b>30-039-25337</b>
		10. Field and Pool, or Exploratory Area <b>Blanco Mesaverde Basin Dakota</b>
		11. County or Parish, State <b>Rio Arriba New Mexico</b>

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input checked="" type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion 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 to drill submitted on 09/10/1993.

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**FEB 25 1994**  
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**WISLA**  
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**FEB -3 1994**  
**070 FARMINGTON, NM**

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

Signed *Julie L. Acevedo* Title Sr. Staff Assistant Date 02-02-1994

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date 02-04-1994

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 statement or representation as to any matter within its jurisdiction.

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AMOCO PRODUCTION COMPANY  
DRILLING AND COMPLETION PROGRAM

File: C:\553at\46.wk3

Revision Date:

02/02/94

Lease: San Juan Unit  
County: Rio Arriba, New Mexico  
Formerly Reference Well #553

Well No. 193M

Location: 800' FNL x 1040' FWL, Sec. 28, T28N, R7W

Field: Basin Dakota

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  
HRIL, HRFDC-CNL, GR, SP, ML, CAL, MRI\* PC-FTLND  
DIL, GR, SP (Pull HR tools at normal speed ICP-SC<sup>2</sup>  
across all interval not specified for high resolution).  
HRIL, HRFDC-CNL, GR, CAL TD - ICP

## REMARKS:

Numar, Magnetic Resonance Image (MRI), pulls at 3'/min.  
(409) 836 - 2955 (Numar, Brenham District).

\* Run at discretion of Amoco Geologist.

**SPECIAL TESTS**  
TYPE DEPTH INTERVAL, ETC

None  
Remarks:

## MUD PROGRAM:

Approx Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L, cc's/30 min
0 - SCP	SPUD	8.5 - 9.0	Sufficient to clean hole and maintain hole conditions for logs.	
SCP - ICP	LSND	8.8 - 11.0		
ICP - TD	AIR	-		

## REMARKS:

\* Use minimum mud weight to control formation pressures.

## CASING PROGRAM:

Casing String	Estimated Depth (ft)	Casing Size	Hole Size	Landing Point, Cement, Etc.
Conductor				
Surface (SCP)	250	11-3/4"	14-3/4"	1,2
Intermediate (ICP)	3,050	8-5/8"	10-5/8" or 11"	1,2,3
Production (TD)	7,280	5-1/2"	7-7/8"	2,4

## Remarks:

1. Circulate cement to surface.
2. Southern Rockies Drilling Team to design cement programs.
3. Casing set 150' into Lewis Shale.
4. Casing set 275' into Dakota, at discretion of Amoco Geologist.

## GENERAL REMARKS:

Southern Rockies Dakota Engineer to design completion program.

REVISED FOR SURFACE CASING, FORMATION TOPS &amp; MUDLOGGING PROGRAM.

Form 46 Reviewed by:

PREPARED BY:

F. Selde/A. Logan  
Form 46 7-84bw

Logging program reviewed by:

APPROVED:

For Production Dept

APPROVED:

For Exploration Dept

## APPROXIMATE DEPTHS OF GEOLOGICAL MARKER

Marker	6,144 Est. GL Elev.		6,160 Est. KB Elev.	
	Depth (ft)	SS Elev. (ft)		
Ojo Alamo (Base)	1,920	4,240		
Fruiland *	2,535	3,625		
Pictured Cliffs *	2,770	3,390		
Lewis Shale	2,900	3,260		
Cliff House *	4,400	1,760		
Menefee *	4,540	1,620		
Point Lookout *	4,965	1,195		
Mancos Shale	6,950	(790)		
Greenhorn	6,915	(755)		
Dakota #	7,005	(845)		
TOTAL DEPTH:	7,280	(1,120)		

# Probable completion interval \* Possible pay.  
OJO ALAMO IS POSSIBLE USEABLE WATER.

DRILL CUTTING SAMPLES		DRILLING TIME	
FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		Geologist	0 - TD

Remarks:  
Mudlogging Program: None

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24 FEB - 3 M 10: 13  
OJO FORMATION, NM

2/2/94

Formerly Reference Well #553

Amoco proposes to drill the well to further develop the Dakota reservoir.  
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 production hole will be drilled with air to TD.

Surface Casing:

Quantity (ft)	Size (in)	Wt. (ppf)	Description	Cement program
250	11.75	42	H-40, ST&C	244 cf, * See Cmt Type

\* Cmt Type: Class B, 2% CaCl<sub>2</sub> + 0.25 #/sx Flocele, 1.18 cf/sx, 15.6 ppg.  
Hole size 14.75", 125% excess, circulate cement to surface.

Intermediate Casing:

Quantity (ft)	Size (in)	Wt. (ppf)	Description	Cement program
3050	8.625	24 & 32	J-55, LT&C	* 2 stage

\* 1st Stg Tail: 344 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 2535 ft  
Stage tool depth 2435 ft, 100' above top of Fruitland Coal.

\* 2nd Stg Lead: 1233 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 11", 120% excess, circulate cement to surface.

Protective Casing:

Quantity (ft)	Size (in)	Wt. (ppf)	Description	Cement program
7280	5.5	15.5	J-55, LT&C	* 2 stage

\* 1st Stg Tail: -39 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 2770 ft Est TCMT 2670  
Top of Mesa Verde 7920 ft  
Stage tool depth\*\* 7420 ft, 500' above top of Mesa Verde.

\* 2nd Stg Tail: 1279 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 7.875", 60% excess, circulate cement to surface.

\*\*A stage tool will only be used if this hole section has to be mud drilled.

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