

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-078566

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Storey LS #4A

9. API Well No.

10. Field and Pool, or Exploratory Area

Blanco Mesaverde/Basin Dakota

11. County or Parish, State

San Juan

New Mexico

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

2. Name of Operator
Amoco Production Company

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1790'FNL 1570FWL Sec. 34 T 28N R 8W

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"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> 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 to drill submitted on 12/13/93.

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DIST. 3

070 FARMINGTON, NM

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

Signed [Signature] Title Sr. Staff Assistant Date 01-25-1994

(This space for Federal or State office use)

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

APPROVED

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.

JAN 31 1994

DISTRICT MANAGER

* See Instructions on Reverse Side
NMOCD

Lease: Storey LS
County: San Juan, New Mexico
Formerly Reference Well #10149

Well No. 4A
Location: 1790' FNL x 1570' FWL, Sec. 34, T28N, R8W
Field: Basin Dakota

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

METHOD OF DRILLING			APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING		5,859 Est. GL Elev.		5,875 Est. KB Elev.	
Rotary	0 - TD		Marker	Depth (ft)	SS Elev. (ft)	
LOG PROGRAM			Ojo Alamo (Base)	1,410	4,465	
Type	Depth Interval		Fruitland	1,915	3,960	
HRIL, HRFDC--CNL, GR, SP, ML, CAL, MRI*	NONE		Pictured Cliffs	2,205	3,670	
DIL, GR, SP (Pull HR tools at normal speed across all interval not specified for high resolution).	NONE		Lewis Shale	2,295	3,580	
HRIL, HRFDC--CNL, GR, CAL	TD - ICP		Cliff House *	3,875	2,000	
			Manefee *	3,913	1,962	
			Point Lookout *	4,450	1,425	
			Mancos Shale	4,855	1,020	
			Greenhorn	6,370	(495)	
			Dakota #	6,465	(590)	
REMARKS:			TOTAL DEPTH:	6,735	(860)	
Numar, Magnetic Resonance Image (MRI), pulls at 3'/min. (409) 836 - 2955 (Numar, Brenham District).			# Probable completion interval * Possible pay.			
* Run at discretion of Amoco Geologist.			OJO ALAMO IS POSSIBLE USEABLE WATER.			
SPECIAL TESTS			DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE	DEPTH INTERVAL, ETC		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None			NONE		Geolograph	0 - TD
Remarks:			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)	400	11-3/4"	14-3/4"	1,2
Intermediate (ICP)	2,445	8-5/8"	10-5/8" or 11"	1,2,3
Production (TD)	6,735	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 270' into Dakota, at discretion of Amoco Geologist.

GENERAL REMARKS:

Southern Rockies Dakota Engineer to design completion program.

REVISED WELLPLAN FROM MORRISON TD TO UPPER DAKOTA TD, REVISE LOG AND MUDLOG.

Form 46 Reviewed by:	Logging program reviewed by:	
PREPARED BY:	APPROVED:	APPROVED:
F. Seidel/A. Logan	<i>J. R. Pantaleo</i>	
Form 46 7-84bvr	For Production Dept	For Exploration Dept

Formerly Reference Well #10149

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
400	11.75	42	H-40, ST&C	390 cf, * See Cmt Type
* Cmt Type: Class B, 2% CaCl2 + 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
2445	8.625	24 & 32	J-55, LT&C	* 2 stage

* 1st Stg Tail: 352 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 1915 ft
Stage tool depth 1815 ft, 100' above top of Fruitland Coal.

* 2nd Stg Lead: 886 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
6735	5.5	15.5	J-55, LT&C	* 2 stage

* 1st Stg Tail: 932 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 2205 ft Est TCMT 2105
Top of Mesa Verde 3875 ft
Stage tool depth** 3375 ft, 500' above top of Mesa Verde.

* 2nd Stg Tail: 318 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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BY: FRANK SEIDEL/BARRY PEISER 01/24/94
= input depths from form 46 in shaded areas to calculate cement volumes.
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