

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
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company

Attention:

Lori Arnold

3. Address and Telephone No.

P.O. Box 800, Denver, Colorado 80201

(303) 830-5651

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1070 FNL 1025 FEL Sec. 33 T 31N R 7W

5. Lease Designation and Serial No.

SF-079043

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

NEBU

8. Well Name and No.

NEBU 308

9. API Well No.

3004528985

10. Field and Pool, or Exploratory Area

Basin Dakota

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

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other APD Revision

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ 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 review & approval of the attached casing, liner and cementing revisions for the application for permit to drill approved on 7/21/93.

If you have any questions in regards to this matter you can contact Lori Arnold at the number listed above.

CONFIDENTIAL

RECEIVED
SEP 22 1993
OIL CON. DIV.
DIST. 3

RECEIVED
SLM
SEP 13 PM 12:50
OIL CON. DIV., NM

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

Signed

Lori Arnold

Title

Business Analyst

Date

09-10-1993

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

**APPROVED
AS AMENDED**

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

DISTRICT MANAGER

FINAL COPY

AMOCO PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAMFile: H:\group\srbu\nmexdk\dak13f46.wk3
Revision Date: 09/07/93Lease: Northeast Blanco Unit
County: San Juan, New Mexico
Formerly Reference Well #8Well No. 308
Location: 1070' FNL x 1025' FEL, Sec. 33, T31N, R7W

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	6,545 Est. GL Elev.		6,561 Est. KB Elev.	
Rotary		0 – TD	Marker	Depth (ft)	SS Elev. (ft)	
LOG PROGRAM			Ojo Alamo	2,441	4,120	
Type	Depth Interval		Fruitland	3,076	3,485	
HRI–DIL–CAL–NGT–GR	SFC to TD	Mud Hole	Pictured Cliffs *	3,396	3,165	
FDC–CNL	SFC to TD	Mud Hole	Lewis Shale	3,756	2,805	
MICROLOG	TD + 1000'	Mud Hole	Cliff House *	5,446	1,115	
MRI	*ICP to Top Fruitland (6" tool)		Menefee *	5,561	1,000	
	**TD to PCP (4.5" tool)		Point Lookout *	6,731	(170)	
Epithermal Neutron/			Mancos Shale	7,131	(570)	
Spectral Density/Temp Log	PCP – ICP	Air Hole	Greenhorn	7,739	(1,178)	
DIL–Cal–GR	PCP – ICP	Air Hole	Dakota #	7,921	(1,360)	
REMARKS:			TOTAL DEPTH:	8,351	(1,790)	
Magnetic Resonance Image (MRI), pulls at 7'/min.			# Probable completion interval			
(409) 836 – 2955 (Numar, Brenham District).			* Possible pay.			
*Contact Roger Gierhart (303/830–5053) for authorization.			OJO ALAMO IS POSSIBLE USEABLE WATER.			
**Contact Harry TerBest (303/830–6038) for authorization.						
SPECIAL TESTS			DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE	DEPTH INTERVAL, ETC		FREQUENCY	DEPTH	FREQUENCY	DEPTH
			20'	PCP – TD	Geologist	0 – TD
None			Remarks:			
Remarks:			Mudlogging Program:			
			Mudlogger to monitor chromatograph 100' above Cliff House to TD.			
			Full two man mudlogging services for Dakota Mud Up to TD.			
TIME PROGRAM						

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. Greenhorn	AIR	-		
T. Greenhorn - TD	LSND	9.5 - 10		

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	400	13-3/8"	17-1/2"	1,2
Intermediate	3,906	9-5/8"	12-1/4"	1,2,3
Protective	7,739	7"	8-3/4"	2,4
Production	8,351	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 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.

REVISED FOR LARGER CASING PROGRAM & TO REVISE LOGGING PROGRAM.

Form 46 Reviewed by:

Logging program reviewed by:

PREPARED BY:

APPROVED:

APPROVED:

F. Seidel/H. TerBest
Form 46 7-84bw

For Production Dept

For Exploration Dept

Formerly Reference Well #8

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 protective hole will be drilled with air to the top of the Greenhorn where protective casing will be set.

The production hole will be drilled with a non-dispersed mud system to TD.

Surface Casing:

Quantity (ft)	Size (in)	Wt. (ppf)	Description	Cement program
400	13.375	61	J-55, ST&C	625 cf Class B, 2% CaCl ₂ + 0.25 #/sx Flocele. 1.18 cf/sx, 15.6 ppg

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

Intermediate Casing:

Quantity (ft)	Size (in)	Wt. (ppf)	Description	Cement program
3906	9.625	36	J-55, LT&C	* 2 stage

* 1st Stg Tail: 641 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 3076 ft
Stage tool depth 2976 ft, 100' above top of Fruitland Coal.

* 2nd Stg Lead: 1922 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:

Quantity (ft)	Size (in)	Wt. (ppf)	Description	Cement program
7739	7	23	J-55, LT&C	* 2 stage

* 1st Stg Tail: 672 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 3396 ft Est TCMT 3296
Top of Mesa Verde 5446 ft
Stage tool depth 4946 ft, 500' above top of Mesa Verde.

* 2nd Stg Tail: 352 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:

Quantity (ft)	Size (in)	Wt. (ppf)	Description	Cement program
812	4.5	11.6	N-80, LT&C	* single stage

* 1st Stg Tail: 146 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 8351 ft
Estimated Top of Liner 7539 ft 100' overlap into intermediate casing.

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

BY: FRANK SEIDEL/BARRY PEISER 09/07/93

= input depths from form 46 in shaded areas to calculate cement volumes.

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