Fúrm 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5. Lease Designation and Serial No. SUNDRY NOTICES AND REPORTS ON WELLS NO-C-14-20-3621 Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. 6. If Indian, Allottee or Tribe Name Use "APPLICATION FOR PERMIT - " for such proposals 7. If Unit or CA, Agreement Designation 1. Type of Well Oil Well Well Well 8. Well Name and No. Other Gallegos #4E 2. Name of Operator Attention: 9. API Well No. **Amoco Production Company** D. Tallant 3. Address and Telephone No. (303) 830-5294 10. Field and Pool, or Exploratory Area P.O. Box 800, Denver, Colorado 80201 **Basin Dakota** 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State 1800FWL Sec. 33 T 26N R 11W 1190'FSL **New Mexico** San Juan CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Change of Plane Notice of Intent Recompletion **New Construction** Plugging Back Non-Routine Fracturing Subsequent Report Casing Repair Altering Casing Conversion to Injection Other Revise Final Abandonment Notice (Note: Report results of multiple completion on Weil Completion or 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 approved on 02/09/94. CONFIDENTIAL OIL CON. DIV. APPROVE**D** 03-231994 Staff Assistant Title ACCEPTED FOR RECORD Approved by Conditions of approval, if any: ANY department or entry HICT OFFICE too any false, ficticious, or fraudulent statements or FARMINGTON DISCRICT OFFICE (A) OF LAND MANACES

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

representations as to any matter within its jurisdiction.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to

NGTON DISTRIC

FINAL COPY

Former name:

AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

File No.:

10082sum

Date:

3/17/94

Lease: County:

Gallegos

Well No.

1090' FSL X 1800' FWL, SEC 33, 26N, 11W

San Juan, New Mexico Location: Reference Well #10082 Field:

Basin Dakota

METHOD OF DRILLING		APPROXIMATE DEPTH	S OF GEOLOGICAL	. MARKER	
TYPE OF TOOLS	DEPTH OF DRILLING	Actual GLEstimated I	KB	6292	6308
Rotary	0 - TD	Marker		Depth (ft.)	SS Elev. (ft.)
LOGGING PROGRAM		Ojo Alamo, base		483	5,825
TYPE	DEPTH	Fruitland*		1,073	5,235
		Pictured Cliffs*		1,383	4,925
DIL-CAL-GR		Lewis Shale		1,483	4,825
FDC-CNL-4 ARM CALIPER	SFCTD	Cliff House*		2,784	3,524
		Menefee*		2,866	3,442
		Point Lookout*		3,767	2,541
		Mancos Shale		4,085	2,223
REMARKS:		Greenhorn		5,685	623
		Dakota#		5,797	511
		TOTAL DEPTH		6,193	115
		* Possible pay			
		#Probable completion			
		OJO ALAMO IS POSSIBLE USEABLE WATER			
SPECIAL TESTS		DRILL CUTTING SAMPLES DRILLING TIME		TIME	
TYPE	DEPTH INTERVAL, ETC	FREQUENCY	DEPTH	FREQUENCY	DEPT
None		None	**10'	Geolograph	0 - T
		Remarks:			
Remarks:		Mud Logging Program: **Full two-man mud logging services from top		om top	
		Gallup (4,827') to TD.			
		Coring Program:	None		

Approx. Interval

Type Mud

Weight, #/gal

Vis, sec/qt.

W/L, cc's/30 min.

0-----SCP SCP---TD

SPUD LSND

8.5--9.0

8.8-9.5

Sufficient to clean hole and maintain integrity (Legy, TWG)

REMARKS:

* Use minimum mud weight to control formation pressures.

Note: Mud weight will be raised to +/-9.5 ppg at 5,700° to test hole integrity. If any problems occur; 5.500° intermediate casing will be set, a 4.750" hole will be drilled though the Dakota and a 3.500" or 4.000" liner will be set for production.

CASING PROGRAM: Casing String **Estimated Depth** Casing Size Hole Size Landing Point, Cement, Etc Conductor Surface 750 8 5/8" 12 1/4" 1,2,3 Production 6,193 5 1/2" 7 7/8" 2,4

Remarks:

- 1. Circulate coment to surface.
- 2. Southern Rockies Drilling Team top design cement programs.
- 3. Casing set below base of Ajo Alamo.
- 4. The Burro Canyon member of the Dakota will be drilled if open hole is considered competent to stand 9.5 ppg mud.

GENERAL REMARKS:

Southern Rockies Dakota Engineer to design completion program.

Form 46 Reviewed by:	Logging program reviewed by:		
PREPARED BY:	APPROVED:	APPROVED:	
F. Seidel/A. Logan	bilyeu/mod/3/17/94	ela)	
Form 46 7-84hw	For Production Deal	For Exploration Dept.	

AMOCO PRODUCTION COMPANY

Cementing Procedure/form 46

Well Name:

Gallegos

#4-E

Basin Dakota

Amoce 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 production casing point with a non-dispersed mud system.

Reference Well #10082

Surface Casing:

Quanity (ft) 750 Size (in) 8 5/8* Weight (ppf)

Description J-55, ST&C Cement program
696 cf Class B, 2% CaCl2
+ 0.25 #/sx Flocele.

1.18 cf/sx, 15.6 ppg

Hale Size:

12 1/4" Excess cement:

1.25

Production Casing

Quanity (ft) 6193 Size (in)

Weight (ppf) 15.50 or 17.00 Description J-55, LT&C

Cement program

*3 stage to cover corrosive Menelee water zone and protect Mesaverde.

* 1st Stg Lead:

388 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 Rocele.

1.35 cf/sx, 13.4 ppg.

* 1st Stg Tail:

141 cf Class G, 35% SSA 1, 1.0% CFR 3, 0.5% Halad 24, 0.25#/sx Flocale.

1.58 cf/sx, 15.8 ppg.

Top Picture Cliffs
Top of Mesa Verda
Top of Mancos shale.
Top of Greenhorn

Upper stage tool depth Lower stage tool depth. 1383: ft 2784: ft 4085: ft. 5885: tt.

> 2284 ft, 500' above top of Mesa Verde. 4285 ft, 200' below btm, of Mesaverde.

2nd stage tail:

555 cf Class 8, 50/50 poz, 2% gel, 0.4% Halad 413,

5 #/sx Gilsonite, 5% Microbond HT, 0.4% VersaSet, 0.25 #/sx Flocale.

1.35 cf/sx, 13.4 ppg.

"3rd Stg Tail:

558 of Class B, 50/50 poz, 2% gel, 0.4% Halad 413,

5 #/sx Gilsonite, 5% Microbond HT, 0.4% VersaSet, 0.25 #/sx Flocale.

1.35 cf/sx, 13.4 ppg.

Hale size:

7 7/8*

Excess coment:

60%