Form 3169-5 (June 1990)

Conditions of approval, if any:

UNITED STATES DEPARTMENT OF THE INTERIOR BURFAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

BUNEAU	OF LAND MANAGEMENT			
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			6. Lease Designation and Serial No. NO-C-14-20-3621 8. If Indian, Allottee or Tribe Name	
1. Type of Well Oil Ges Well Other		8. Welt Nam	a and No.	
2. Name of Operator			Gallegos	#4E
Amoco Production Company	Attention:	9. API Well		# TE
3. Address and Telephone No.	D. Tallant			
P.O. Box 800, Denver, Colorado	80201 (303) 830-5294	10. Field and	d Pool, or Explorate	ry Area
4. Location of Well (Footage, Sec., T., R., M., or Su	rvey Description)		Basin Dakota	
44001501 40005114	0 00 T 00N D 44N	11. County	or Parish, State	
1190'FSL 1800FWL	Sec. 33 T 26N R 11W		San Juan	New Mexico
			all Juali	INEW MEXICO
12. CHECK APPROPRIA	TE BOX(s) TO INDICATE NATURE OF N	IOTICE, REPORT, (OR OTHER	DATA
TYPE OF SUBMISSION	TYPE	OF ACTION		
Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Cesing Repair Altering Casing Other Revise APD	Change of Pick New Construction In Conversion to Dispose Wate Recompletion Report and Lecture 1 Pick Note: Report 1 Pick N	ction Fracturing Off o Injection or ultiple completion o	n Well Completion or
13. Describe Proposed or Completed Operations (Cla	erly state all pertinent details, and give pertinent dates, including estimate	ed date of starting any proposed	work . If well is di	rectionally drilled, give
subsurface locations and measured and true ve	rtical depths for all markers and zones pertinent to this work.)* equests your approval of the attached casing, line			
DECEIVI N APR 0 4 199 OIL COM. I DIST. 3	ED CONFIDENTIA	AL.	94 MAR 21 AM II: 45 070 FARMINGTON, NM	RECEIVED
14.1 hereby certify that the foregoing is true and cor Signed	/	Staff Assistant	Date	03-18-1994
(This space for Federal or State office use)				
Approved by	Title		Date	

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning

the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

Itam 4 - If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones,

or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE - The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2)
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal, or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION - Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Wasington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

FINAL COPY

AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

File No.:

10082sum

Date:

3/17/94

Lease:

Gallegos

Well No.

#4·E

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

County: San Juan, New Mexico Location: Reference Well #10082 Field: Basin Dakota Former name:

OBJECTIVE: Evaluate a	nd develop Gallup and Dakota reserve	·\$.			
METHOD OF DRILLING		APPROXIMATE DEPTH	S OF GEOLOGICAL	. MARKER	
TYPE OF TOOLS	DEPTH OF DRILLING	Actual GLEstimated	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
		Paint 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 POSSIBL			
SPECIAL TESTS		DRILL CUTTING SA	AMPLES	DRILLING	G TIME
TYPE	DEPTH INTERVAL, ETC	FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		None	**10'	Geolograph	0 · TD
		Remarks:			
Remarks:		Mud Logging Program:		mud logging services fo	rom tap
			Gallup (4,827	'') to TD.	
		Coring Program:	None		

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.

SCP---TD LSND 8.8-9.5 Sufficient to clean hole and maintain integrity (Leg

REMARKS:

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 cement 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	
Form 46 7-84bw	For Production Dept	For Exploration Dept.

^{*} Use minimum mud weight to control formation pressures.

AMOCO PRODUCTION COMPANY

Cementing Procedure/form 46

Well Name:

Gallegos

#4-E

Basin Dakota

Amoco proposes to driff 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 (pp!)

Description J-55, ST&C Coment program 898 of Class B, 2% CaCl2

+ 0.25 #/sx Flocale. 1.18 cf/sx, 15.6 ppg

Hole Size:

12 1/4" Excess cement:

1.25

Production Casing

Quanity (10) 6183

Size (in) 5 1/2" Weight (ppf) 15,50 or 17,00 Description J-55, LT&C

Coment program

* 2 stage/3 stage if Mesaverde has potential

* 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% VarsaSet, 0.25 #/sx Hacele.

1.35 cf/ex, 13.4 ppg.

* 1st Stg Tail:

141 cf Clase G, 35% SSA 1, 1.0% CFR 3, 0.5% Haled 24, 0.25#/sx Flocele.

1.58 cf/sx, 15.8 ppg.

Top Picture Cliffs

Top of Mesa Verde

Top of Mancos shale.

Top of Greenhorn

Upper stage tool depth

Lower stage tool depth.

1383 It Est Top Cmt

2784 (t 4085 (t.

4085 ft. 5085 ft.

2284 ft, 500' above top of Mora Verde.

4285 ft. 200' below btm. of Mesaverds.

(to be utilized only if Mesaverde has potential.)

2nd stage tail;

Will be comented only if Mesaverde has potential.

Cement program will cover area between the two stage tools.

'3rd Stg Tail:

558 cf 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 cl/sx, 13.4 ppg.

Hole size:

7 7/8"

Excess coment:

60%

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