

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, ~~DEEPEN~~, PLUGBACK, OR ADD A ZONE

Operator Name and Address: Amoco Production Company P.O. Box 800 Denver, CO 80201		OGRID Number 000778
Property Code 1208		API Number 30-045-10168
Property Name Wallace Gas Com		Well No. 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	35	31N	11W		990	North	1650	West	San Juan

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
⁹ Proposed Pool 1 Blanco Mesaverde					¹⁰ Proposed Pool 2				

¹¹ Work Type Code D	¹² Well Type Code G	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 5695'
¹⁶ Multiple No	¹⁷ Proposed Depth 5007'	¹⁸ Formation Mesaverde	¹⁹ Contractor Aztec	²⁰ Spud Date 1/15/96

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
4.740"	2.875"	6.5#	5007'	340 cu. ft	2088'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Amoco Production Company requests permission to deepen the Wallace Gas Com #2 to the Mesaverde formation & to plugback the Pictured Cliffs and to move the location of the existing undrilled location to this existing wellbore. After we receive approval to deepen the Wallace Gas Com #2, then we want to abandon the approved APD location (Sec 35-31N-11W, API # 3004529291, approved 10/18/95 as the Wallace Gas Com #1A). This will result in renaming the Wallace Gas Com #2 to the Wallace Gas Com #1A.

Replacing New drill w/ the #2 to 1A

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Patty Haefele</i> Printed name: Patty Haefele Title: Staff Assistant Date: 1/9/96		OIL CONSERVATION DIVISION Approved by: <i>Emile Bussch</i> 1-10-96 Title: <i>DEPUTY OIL & GAS INSPECTOR DIST #6</i> Approval Date: JAN 10 1996 Expiration Date: JAN 10 1997 Conditions of Approval: <i>HOLD C-104 For well abandonment</i> Attached <input type="checkbox"/> <i>Change Number Change</i>	
--	--	--	--

District I
PO Box 1988, Hobbs, NM 88241-1988
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brava Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-10168		2 Pool Code 72319		3 Pool Name Blanco Mesaverde		
4 Property Code 1208		5 Property Name Wallace Gas Com			6 Well Number 2	
7 OGRID No. 000778		8 Operator Name Amoco Production Company			9 Elevation 5695'	

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	35	31N	11W		990	North	1650	West	San Juan

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 320	13 Joint or In/In	14 Consolidation Code	15 Order No.
---------------------------	-------------------	-----------------------	--------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>16</div> <p>1650'</p> <p>990'</p>	<div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Patty Haefele</i></p> <p>Signature: Patty Haefele</p> <p>Printed Name: Staff Assistant</p> <p>Title: 1/9/96</p> <p>Date:</p>					
			<div>18 SURVEYOR CERTIFICATION</div> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey:</p> <p>Signature and Seal of Professional Surveyer:</p> <p>Certificate Number:</p>			

AMOCO PRODUCTION COMPANY
DRILLING and COMPLETION PROGRAM

Lease/Well#: Wallace Gas Com #2 (deepening)
 County: San Juan New Mexico
 Former name:

Surface Location: 990' FNL & 1650' FWL of Section 35, T31N, R11W
 Field:

OBJECTIVE: Mesa Verde Gas

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER		
TYPE OF TOOLS	DEPTH OF DRILLING	Actual GL-----Estimated KB	5695	5707
Rotary	Base of 5.5" casing (2388') - TD	Marker	Depth (ft.)	SS Elev. (ft.)

LOGGING PROGRAM		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER		
TYPE	DEPTH	Marker	Depth (ft.)	SS Elev. (ft.)
Triple Combo (GR-SP-CAL-HRI-SDL-DSN-ML)	Production hole only	Ojo Alamo	847	4,860
		Kirtland	897	4,810
		Fruitland Coal	1,884	3,823
		PC	2,275	3,432
		Lewis Shale	2,487	3,220
		Cliff House	3,807	1,900
		Menefee Shale	3,972	1,735
		Point Lookout	4,557	1,150
		Mancos	4,950	757
		Gallup		
		Greenhorn		
		Graneros		
Dakota				
TOTAL DEPTH			5,007	700

Logging Program Remarks:

* Possible pay
 ** Probable completion
 Ojo Alamo is possible usable water

SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE	DEPTH INTERVAL, ETC	FREQUENCY	DEPTH	FREQUENCY	DEPTH
None				Geolograph	Int - TD

Remarks:

Remarks:
 Mud Logging Program: None
 Coring Program: None

MUD PROGRAM:

Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L, cc's/30 min.
2325' - TD (3)	Air/Mist			

Mud Program Remarks:

CASING PROGRAM:

Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor				
Surface				
Production Liner	5,007	2 3/8" 3-12	4.75"	1

Casing Program Remarks:

1 - Cement top 200' above the liner top (estimated toc 1888').

GENERAL REMARKS:

Business Unit Engineering staff to design completion program.

Form 46 Reviewed by:

Logging program reviewed by:

PREPARED BY:	APPROVED:	APPROVED:
Webb/Ovitz		
Form 46 7-84bw	For Production Dept	For Exploration Dept
Date: 12/7/95	Rev. Date: 1/3/96 10:52	File: wall02dp.xdw

Version No. 1
12/08/95
~ME3C38.XLS

CEMENTING PROGRAM

rn

Wallace Gas Com #2

(Deepening from PC to MV)

Well Name: Wallace Gas Com #2 (deepening)
Location: Sec, 35, T31N, R11W
County: San Juan
State: New Mexico

Field: Blanco Mesaverde
API No.
Well Flac
Formation: Mesaverde
KB Elev. (est.) 5007 ft.
GL Elev. (est.) 5007 ft.

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Circ. Out (bbl.)
Surface							
Intermediate							
Production	5,007	4.750	2.875	8R, EUE	2088	NA	

Casing Properties:

(No Safety Factor Included)

Casing String	Size (in.)	Weight (lb/ft.)	Grade	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Drift (in.)
Surface								
Intermediate								
Production	2.875	6.5	N-80	10570	11160	144	0.00579	2.347

Mud Program:

Apx. Interval (ft.)	Mud Type	Mud Weight (lb/gal)	Recommended Mud Properties Prior Cementing:	
			PV	<20
			YP	<10
2325-TD	Air/Mist		Fluid Loss	<15

Cementing Program:

	Surface	Intermediate	Production
Excess %, Bit			50
Excess %, Caliper			30
BHST (est. deg. F)			140
Pipe Movement			NA
Rate, Max. (bpm)			4
Rate, Recommended (bpm)			4
Pressure, Max. (psi)			2000
Shoe Joint			40
Batch Mix			NA
Circulating prior cmtng (hr.)			1
Time Between Stages, (hr.)			NA
Special Instructions			2,4,6

- 1 Do not wash pumps and lines
- 2 Wash pumps and lines.
- 3 Do not reverse out
- 4 Run Blend Test on Cement
- 5 Record Rate , Pressure, and Density on 3.5" disk
- 6 Confirm densometer with pressurized mud scales
- 7 1" cement to surface if cement is not circulated.
- 8 If cement is not circulated to the surface, run temp. survey 10-12 hr. after landing plug.

Notes:

- *** Displace top plug on the production casing job with 0.2% Clay Fix II or 2% KCl water.
- *** Do not wash up on top of plug. Wash pumps and lines. We want to do rigless completions.

CEMENTING PROGRAM

Wallace Gas Com #2

(Deepening from PC to MV)

Production:

Preflush	10	Chemical Wash	
	5	Fresh Water	
Lead Cement		50/50 Std. Cmt/Poz A	340 cu. ft.
Slurry 1		+ 2% gel (total)	
TOC @ 2088 ft		+ 5 lb/sk gilsonite	
		+ 0.4% Halad-344	
		+ 1/4 lb/sk flocele	

Slurry Properties:	density (lb/gal)	yield (ft ³ /sk)	water (gal/sk)
slurry 1	13.50	1.32	5.59

Note: The job should be pumped at 4 bpm max rate. Do not exceed 2 bpm on displacement.
Slow to 2 bpm for the displacement. Displace with 2% KCl or 0.2% Clay Fix II water.
This is to be a rigless completion. Wash pumps and lines before displacing.

Casing Equipment: Halliburton 2 7/8", 8R, EUE

- 1 Super Seal II Float Shoe
- 10 S-4 Fluidmaster Centralizer
- 1 Lock Clamp
- 1 Weld A
- 1 Omega Latch Down Plug and Baffle

BOP Test Pressure

Amoco Production Company BOP Pressure Testing Requirements

Lease/Well#: Wallace Gas Com #2 (deepening)
County: San Juan State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	847		
Kirtland	897		
Fruitland Coal	1,884		
PC	2,275		
Lewis Shale	2,487		
Cliff House *	3,807	1200	362
Menefee Shale *	3,972		
Point Lookout *	4,557	1700	697
Mancos	4,950		
Gallup	0		
Greenhorn	0		
Graneros	0		
Dakota	0		

** Note: Determined using the following formula: $ABHP - (.22 * TVD) = ASP$

Requested BOP Pressure Test Exception:

750
