

District I
PO Box 1280, 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

Re-permitted

☐ AMENDED REPORT

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

¹ Operator Name and Address. Amoco Production Company P.O. Box 800 Denver, CO 80201		¹ OGRID Number 000778
		³ API Number 30 - 045 - 29291
⁴ Property Code 1208	⁵ Property Name Wallace Gas Com	⁶ Well No. 1A

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		1140	North	1640	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 N/320					¹⁰ Proposed Pool 2 72319				

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 5683'
¹⁶ Multiple No	¹⁷ Proposed Depth 4995	¹⁸ Formation Blanco Mesaverde	¹⁹ Contractor Aztec	²⁰ Spud Date 1/1/96

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12.25"	8.625"	24#	120'	106 cu. ft.	Surface
7.875"	5.500"	14#	2625'	727 cu. ft.	Surface
4.750"	2.875"	6.5#	4995'	273 cu. ft.	2300'

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.

RECEIVED
OCT 16 1995

OIL CON. DIV.
DIST. 1

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Patty Haeefe</i>		OIL CONSERVATION DIVISION	
Printed name: Patty Haeefe		Approved by: <i>Emile Busch</i> 10-18-95	
Title: Staff Assistant		Title: DEPUTY OIL & GAS INSPECTOR, DIST. #3	
Date: Oct. 13, 1995		Approval Date: OCT 18 1995 Expiration Date: OCT 18 1996	
Phone: (303) 830-4988		Conditions of Approval: Attached <input type="checkbox"/>	

C-101 Instructions

Measurements and dimensions are to be in feet/inches. Well locations will refer to the New Mexico Principal Meridian.

IF THIS IS AN AMENDED REPORT CHECK THE BOX LABELED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

program. Attach additional sheets if necessary.

23

The signature, printed name, and title of the person authorized to make this report. The date this report was signed and the telephone number to call for questions about this report.

- 1 Operator's OGRID number. If you do not have one it will be assigned and filled in by the District office.
- 2 Operator's name and address
- 3 API number of this well. If this is a new drill the OCD will assign the number and fill this in.
- 4 Property code. If this is a new property the OCD will assign the number and fill it in.
- 5 Property name that used to be called 'well name'
- 6 The number of this well on the property.
- 7 The surveyed location of this well New Mexico Principal Meridian NOTE: If the United States government survey designates a Lot Number for this location use that number in the 'UL or lot no.' box. Otherwise use the OCD Unit Letter.
- 8 The proposed bottom hole location of this well at TD
- 9 and 10 The proposed pool(s) to which this well is being drilled.
- 11 Work type code from the following table:

N	New well
E	Re-entry
D	Drill deeper
P	Plugback
A	Add a zone
- 12 Well type code from the following table:

O	Single oil completion
G	Single gas completion
M	Multiple completion
I	Injection well
S	SWD well
W	Water supply well
C	Carbon dioxide well
- 13 Cable or rotary drilling code

C	Propose to cable tool drill
R	Propose to rotary drill
- 14 Lease type code from the following table:

S	State
P	Private
- 15 Ground level elevation above sea level
- 16 Intend to multiple complete? Yes or No
- 17 Proposed total depth of this well
- 18 Geologic formation at TD
- 19 Name of the intended drilling company if known.
- 20 Anticipated spud date.
- 21 Proposed hole size ID inches, proposed casing OD inches, casing weight in pounds per foot, setting depth of the casing or depth and top of liner, proposed cementing volume, and estimated top of cement
- 22 Brief description of the proposed drilling program and BOP

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 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 <u>30-045-29291</u>		2 Pool Code 72319		3 Pool Name Blanco Mesaverde		
4 Property Code <u>1208</u>		5 Property Name WALLACE GAS COM			6 Well Number # 1A	
7 OGRID No. 000778		8 Operator Name AMOCO PRODUCTION COMPANY			9 Elevation 5683	

10 Surface Location

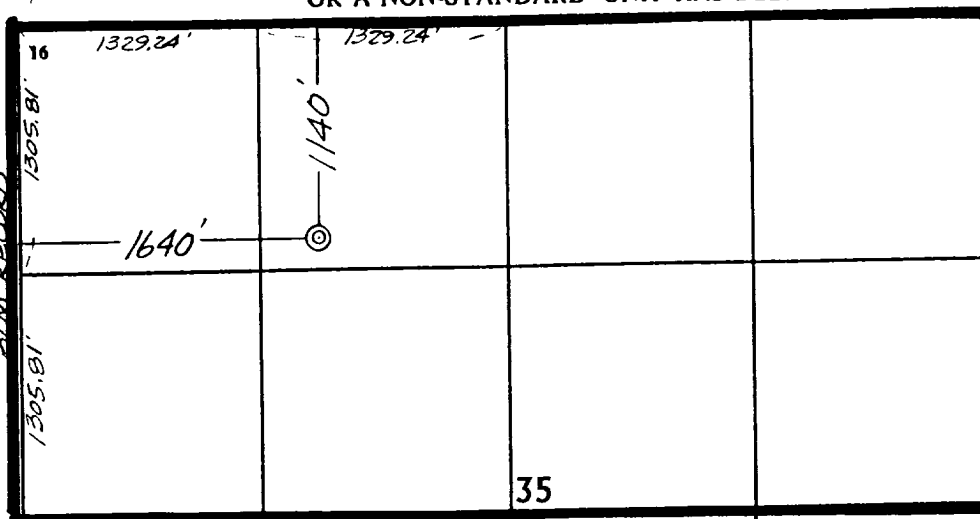
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	35	31 N	11 W		1140	NORTH	1640	WEST	SAN JUAN

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 N 320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Patty Haeefe
Signature
Patty Haeefe
Printed Name
Staff Assistant
Title
10/13/95
Date

18 SURVEYOR CERTIFICATION

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.

July 31, 1995
Date of Survey
Signature and Seal of Professional Surveyor:

GARY D. VAAN
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
7016
Certificate Number

RECEIVED
OCT 16 1995
OIL CON. DIV.
DIST. 3

AMOCO PRODUCTION COMPANY
DRILLING and COMPLETION PROGRAM

Lease/Well#: Wallace Gas Com #1A
 County: San Juan New Mexico
 Former name:

Surface Location: 1140' FNL & 1640' FWL of Section 35, T31N, R11W
 Field:

OBJECTIVE: Mesa Verde Gas				
METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER		
TYPE OF TOOLS		Actual GL-----Estimated KB	5683	5695
Rotary	DEPTH OF DRILLING Ground Level - TD	Marker	Depth (ft.)	SS Elev. (ft.)
LOGGING PROGRAM		Ojo Alamo	835	4,860
TYPE		Kirtland	885	4,810
		Fruitland Coal	1,872	3,823
		PC *	2,263	3,432
		Lewis Shale	2,475	3,220
		Cliff House	3,795	1,900
		Menefee Shale *	3,960	1,735
		Point Lookout *	4,545	1,150
		Mancos	4,938	757
		Gallup		
		Greenhorn		
		Graneros		
		Dakota		
		TOTAL DEPTH	4,995	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		Geograph	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.	
0' - 2625' (1) (2)	Water	8.6 - 9.2	Sufficient to clean hole	N/C	
2625' - TD (3)	Air/Mist				

Mud Program Remarks:
 1 - The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.
 2 - If required to mud up, mud up with a LSND designed for good hole cleaning.
 3 - If required to mud up, mud up with a LSND designed for good hole cleaning, API WL between 10-15.

CASING PROGRAM:				
Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor	120	8-5/8"		
Surface	2,625	5-1/2"	7.875"	1, 2
Production	4,995	2-7/8"	4.75"	3

Casing Program Remarks:
 1 - Circulate cement to surface.
 2 - Set casing a minimum of 150' into the Lewis Shale
 3 - Circulate cement a minimum of 300' into the surface casing overlap.

GENERAL REMARKS:
 Business Unit Engineering staff to design completion program.

Form 46 Reviewed by:	Logging program reviewed by:	
PREPARED BY:	APPROVED:	APPROVED:
P. Edwards/Logan/Ovitz		
Form 46 7-84bw	For Production Dept	For Exploration Dept
Date: 10/3/95	Rev. Date: 10/3/95 15:39	File: wallgc1a.xlw

CEMENTING PROGRAM

Wallace Gas Com #1A

blp

Well Name: Wallace Gas Com #1A
Location: Sec 35, T31N, R11W
County: San Juan
State: New Mexico

Field:
API No.
Well Flac
Formation: Mesa Verde
KB Elev. (est.) 5695 ft.
GL Elev. (est.) 5683 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.)
Conductor	120	12.25	8.625	8R, ST&C	Surface	NA	
Surface	2,625	7.88	5.500	8R, ST&C	Surface	NA	
Production	4,995	4.75	2.875	8R, EUE	2300	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.)
Conductor	8.625	24	J-55	2950	1370	244	0.0636	7.972
Surface	5.500	14	J-55	4270	3120	172	0.0244	6.241
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)
0 - SCP	Water/Spud	8.6-9.2
SCP - TD	Air/Mist	NA

Recommended Mud Properties Prior Cementing:

PV	<20
YP	<10
Fluid Loss	<15

Cementing Program:

	Conductor	Surface	Production
Excess %, Bit	75	60	30
Excess %, Caliper	NA	NA	20
BHST (est. deg. F)	60	100	140
Pipe Movement	NA	Rotate/Reciprocate	Rotate/Reciprocate
Rate, Max. (bpm)	6	6	4
Rate, Recommended (bpm)	6	6	4
Pressure, Max. (psi)	200	2000	2000
Shoe Joint	40	80	40
Batch Mix	NA	NA	NA
Circulating prior cmtng (hr.)	0.5	1.5	1
Time Between Stages, (hr.)	NA	NA	NA
Special Instructions	1,6,7	1,6,8	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 rig less completions.

CEMENTING PROGRAM

Wallace Gas Com #1A

Conductor:

Preflush	10 bbl.	Fresh Water	
Slurry 1 TOC@Surface	90 sk	Standard Cement + 2% CaCl ₂ (not mixed) or 1.5 cu. yard Ready Mix	106 cu. ft.

Slurry Properties:	density (lb/gal)	yield (ft ³ /sk)	water (gal/sk)
slurry 1	15.60	1.18	5.20

Casing Equipment: (Halliburton) 8 5/8", 8R, ST&C
1 Top Wooden Plug

Surface:

Preflush	20 bbl. 20 bbl.	Mud Flush Fresh Water + dye marker	
Lead Slurry 1 TOC@Surface		50/50 Standard Cement/Blended Silicalite + 0.2% gel (total) + 0.5% Versaset + 0.4% Halad-344 + 0.2% CaCl ₂ + 1/4 lb/sk flocele	598 cu. ft.
Tail slurry 2	100 sk	Standard Cement + 0.4% Halad-344 + 0.4% CFR-3 + 2.0% Microbond + 5 lb/sk gilsonite + 1/4 lb/sk flocele	129 cu. ft.

Slurry Properties:	density (lb/gal)	yield (ft ³ /sk)	water (gal/sk)
slurry 1	12.00	2.03	11.45
slurry 2	15.11	1.29	5.40

Casing Equipment: (Halliburton) 5 1/2", 8R, ST&C
1 Type Regular Guide Shoe
1 Super Seal II Float Collar
1 Weld A
14 S-4 Centralizer 1 ea. on 1st 12 joints, 1 ea. above and below Ojo Alamo
1 Top Rubber Plug

CEMENTING PROGRAM

Wallace Gas Com #1A

Production:

Preflush	05 bbl.	Chemical Wash	
	02 bbl.	Fresh Water	
Lead Cement		50/50 Std. Cmt/Poz A	273 cu. ft.
Slurry 1		+ 2% gel (total)	
TOC @ 2300 ft.		+ 5 lb/sk gilsonite	
		+ 0.4% Halad-344	
		+ 1/4 lb/sk floccs	

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, (no need to cut long pin)

- 1 Super Seal II Float Shoe
- 10 S-4 Fluidmaster Centralizer (2 7/8" * 4 3/4")
- 1 Lock Clamp
- 1 Weld A
- 1 Omega Latch Down Plug and Baffle

