

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU 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

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

5. Lease Designation and Serial No.

NM-0498

6. If Indian, Apottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company

Attention:

Patty Haeefe

3. Address and Telephone No.

P.O. Box 800, Denver, CO 80201

(303) 830-4988

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

1170' FSL 1180' FEL

Sec. 8 T 30N R 12W

8. Well Name and No.

John Schumacher

2E

9. API Well No.

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

TYPE OF ACTION

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

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other

- ☒ 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 approval of the attached casing and cementing revisions to the APD approved on 11/13/95.

RECEIVED  
DEC 15 1995  
OIL CON. DIV.  
DIST. 3

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

Signed

*Patty Haeefe*

Title

Staff Assistant

Date

12-05-1995

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

APPROVED

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

**AMOCO PRODUCTION COMPANY**  
**DRILLING and COMPLETION PROGRAM**

Lease/Well#: John Schumacher #2E  
 County: San Juan New Mexico  
 Former name:

Surface Location: 1170' FSL & 1180' FEL of Section 8, T30N, R12W  
 Field: Basin Dakota

**OBJECTIVE:** Develop Dakota Gas formation.

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER		
TYPE OF TOOLS	DEPTH OF DRILLING	Actual GL-----Estimated KB	5824	5836
Rotary	Ground Level - TD	Marker	Depth (ft.)	SS Elev. (ft.)
<b>LOGGING PROGRAM</b> TYPE  SP-GR-Cal-HRI-SDL-DSN-ML (Triple Combo)	DEPTH  Minimum run required	Ojo Alamo	506	5,330
		Kirtland	581	5,255
		Fruitland Coal	1,736	4,100
		PC	2,036	3,800
		Lewis Shale	2,251	3,585
		Cliff House	3,606	2,230
		Menefee Shale	3,746	2,090
		Point Lookout	4,401	1,435
		Mancos	4,806	1,030
		Gallup	5,666	170
		Greenhorn	6,424	-588
		Graneros	6,476	-640
		Dakota **	6,536	-700
		TOTAL DEPTH	6,886	-1,050

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:  
 Mud Logging Program: One man to pick TD or an automated unit.  
 Coring Program: None

MUD PROGRAM:					
Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L, cc's/30 min.	
0' - 250'	Spud				
250' - 4806' (1)	Water	8.6 - 9.0	Sufficient to clean hole	N/C	
4806' - TD (2, 3)	LSND	8.8 - 9.6	Sufficient to clean hole and run logs	As required	

Mud Program Remarks:  
 1 - The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.  
 2 - Mud up at the top of the Mancos Shale with a LSND designed for good hole cleaning.  
 3 - Sweep the hole as necessary.

CASING PROGRAM:				
Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor				
Surface	250	7"	8.75"	1
Production	6,886	2-7/8"	6.25"	1

Casing Program Remarks:  
 1 - Circulate cement to surface.

**GENERAL REMARKS:**

Business Unit Engineering staff to design completion program.

Form 46 Reviewed by:	Logging program reviewed by:	
<b>PREPARED BY:</b>	<b>APPROVED:</b>	<b>APPROVED:</b>
Webb/Logan/Ovitz		
Form 46 7-84bw	For Production Dept	For Exploration Dept
Date: 10/3/95	Rev. Date: 12/4/95 13:16	File: jschum2e.xlw

# CEMENTING PROGRAM

blp

John Schumacher #2E

Well Name: John Schumacher #2E  
Location: Sec 08, T30N, R12W  
County: San Juan  
State: New Mexico

Field: Basin Dk  
API No.  
Well Flac  
Formation: Dakota  
KB Elev. (est.) 5836 ft.  
GL Elev. (est.) 5824 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							
Surface	250	8.75	7.000	8R, ST&C	Surface	NA	
Production	6,886	6.25	2.875	8R, EUE	Surface	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								
Surface	7.000	20	J-55	3740	2270	234	0.0404	6.331
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
			Fluid Loss	< 15
0 - SCP	Water/Spud	8.6-9.2		
SCP - 4800	Water	8.6-9.0		
4800-TD	LSND	8.8-9.6		

## Cementing Program:

	Conductor	Surface	Production
Excess %, Bit		75	30
Excess %, Caliper		NA	20
BHST (est. deg. F)		80	165
Pipe Movement		NA	NA
Rate, Max. (bpm)		6	6
Rate, Recommended (bpm)		6	4
Pressure, Max. (psi)		200	2000
Shoe Joint		40	80
Batch Mix		NA	NA
Circulating prior cmtng (hr.)		0.5	1
Time Between Stages, (hr.)		NA	NA
Special Instructions		1,6,7	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

John Schumacher #2E

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Surface:

Preflush	20 bbl.	Fresh Water + dye marker	
Slurry 1 TOC@Surface	60 sk	Standard Cement + 2% CaCl <sub>2</sub> + 1/4 lb/sk flocc	70 cu. ft.

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

Casing Equipment: (Halliburton) 7", 8R, ST&C

- 1 Type M Guide Shoe
- 1 Insert Float w Auto Fill
- 1 Weld A
- 3 S-4 Centralizer
- 1 Top Wooden Plug

# CEMENTING PROGRAM

John Schumacher #2E

blp

## Production: (Foam Cement)

Preflush	20 bbl. 40 bbl.	Mud Flush + dye marker + 150 scf/bbl nitrogen Fresh Water + 150 scf/bbl nitrogen	
Lead Cement Slurry 1		50/50 Std. Cmt/Poz A + Nitrogen + 2% gel (total) + 5 lb/sk gilsonite + 0.4% Halad-344 + 1/4 lb/sk floccula	1042 cu. ft.
Tail Cement Slurry 2 TOC@5500		50/50 Std. Cmt/Poz A + 2% gel (total) + 5 lb/sk gilsonite + 0.4% Halad-344 + 1/4 lb/sk floccula	280 cu. ft.
Top Out Cement Slurry 3	85 sk	Standard Cement + 2% Calcium Chloride	100 cu. ft.

## Slurry Properties:

	surf. density (lb/gal)	foam density (lb/gal)	surf. yield (ft <sup>3</sup> /sk)	foam yield (ft <sup>3</sup> /sk)	water (gal/sk)	nitrogen rate (scf/bbl)	depth of fill (ft)
slurry 1	13.50	10.00	1.32	1.85	5.59	130	500 - 2500
slurry 1	13.50	10.00	1.32	1.85	5.59	275	2500 - 4000
slurry 1	13.50	10.00	1.32	1.85	5.59	400	4000 - 5500
slurry 2	13.50	NA	1.32	NA	5.59	NA	5500 - TD
slurry 3	15.60	NA	1.18	NA	5.20	NA	0 - 500

**Note:** The job should be pumped at 6 bpm max FOAM rate. Do not exceed 4 bpm on displacement.  
Slow to 2 bpm for the last 40 bbl of 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", EUE

- 1 Super Seal II Float Shoe
- 25 S-4 Fluidmaster Centralizer 1st 10 centralizers. every other joint, then one every 10 joints,  
1 above and below the Ojo Alamo
- 1 Lock Clamp
- 1 Weld A
- 1 Omega Latch Down Plug and Baffle