

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-14923

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Cynthia Federal A #1

9. API Well No.

10. Field and Pool, or Exploratory Area

Blanco MV/Basin DK/Choza Mesa PC

11. County or Parish, State

Rio Arriba New Mexico

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company

Attention:

Julie L. Acevedo

3. Address and Telephone No.

P.O. Box 800, Denver, Colorado 80201

(303) 830-6003

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

970FSL 1660FEL Sec. 35 T 28N R 4W

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 Revise APD

- ☐ 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, cementing and BOP revisions for the Application for Permit to Drill approved on 7/14/95.

RECEIVED
AUG - 4 1995

OIL CON. DIV.
DIST. 3

RECEIVED
BLM
070 FARMINGTON, NM
05 JUL 31 AM 7:52

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

Signed

Julie L. Acevedo

Title

Staff Assistant

Date

07-26-1995

(This space for Federal or State office use)

Approved by

Title

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

CEMENTING PROGRAM

Location:	970' FSL X 1660' FLL, Sec 35, T28N, R04W	API No.	
County:	Rio Arriba	Well Flag	
State:	New Mexico	Formation:	Mesa Verde
		KB Elev. (est.)	7283 ft.
		GL Elev. (act.)	7271 ft.

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Casing Weight (lb/ft.)	Casing Grade	Thread	TOC (ft.)
Conductor	50	12.25	8.625	24	J-55	8R, ST&C	Surface
Surface	4,439	7.88	5.500	14	J-55	8R, ST&C	Surface
Production	6,557	4.75	2.875	6.5	N-80	8R, EUE	4200

Casing Properties:

(No Safety Factor Included)

Casing String	Casing Weight (lb/ft.)	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Torque (ft. lbs.) Opt/Min/Max	Drift (in.)
Conductor	24	2950.00	1370	244	0.0636		7.972
Surface	14	4270	3120	172	0.0244		6.241
Production	6.4	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	Spud	8.6-9.2		
SCP - TD	Air/Gas	NA		

Cementing Program:

	Surface	Production
Excess %, Bit	60	25
Excess %, Caliper	NA	20
BHST (est. deg. F)	100	170
Pipe Movement	Rotate	Reciprocate
Rate, Max. (bpm)	6	4
Rate, Recommended (bpm)	6	4
Pressure, Max. (psi)	200	2000
Shoe Joint	80	40
Batch Mix	NA	NA
Circulating prior cmntg (hr.)	1.5	1
Time Between Stages (hr.)	NA	NA
Special Instructions	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

blp

Conductor:

Preflush	10 bbl.	Fresh Water	
Slurry 1 TOC@Surface	30 sk	Standard Cement + 2% CaCl ₂ (not mixed) or 1.5 cu. yard Ready Mix	36 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 floccs	972 cu. ft.
Tail slurry 2	200 sk	Standard Cement + 0.4% Halad-344 + 0.4% CFR-3 + 2.0% Microbond + 5 lb/sk gilsonite + 1/4 lb/sk floccs	258 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
15 S-4 Centralizer 1 ea. on 1st 12 joints, 1 ea. above and below Ojo Alamo
1 Top Rubber Plug

CEMENTING PROGRAM

Production:

Proflush	5 bbl.	Chemical Wash	
	02 bbl.	Fresh Water	
Lead Cement Slurry 1 TOC @ 4200 ft.		50/50 Standard Cement/Blended Silicalite + 02% gel (total) + 0.5% Versaset + 0.4% Halad-344 + 02% CaCl2 + 1/4 lb/sk flocele + 5 lb/sk gilsonite	229 cu. ft.

Slurry Properties:	density (lb/gal)	yield (ft3/sk)	water (gal/sk)
slurry 1	12.00	2.03	11.45

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
- 1 Lock Clamp
- 1 Weld A
- 1 Omega Latch Down Plug and Baffle

AMOCO PRODUCTION COMPANY
DRILLING and COMPLETION PROGRAM

County: Rio Arriba New Mexico
 Former name: Cynthia Federal #1

Surface Location: 970' FSL & 1660' FFL of Section 35, T28N, R4W
 Field:

OBJECTIVE: Single MV				
METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER		
TYPE OF TOOLS		Actual GL-----Estimated KB		
DEPTH OF DRILLING				
Rotary	Ground Level - TD	Marker	Depth (ft.)	SS Elev. (ft.)
LOGGING PROGRAM				
TYPE	DEPTH	Ojo Alamo	3,666	3,617
		Kirtland	3,822	3,461
		Fruiland Coal	3,976	3,307
		PC	4,129	3,154
		Lewis Shale	4,289	2,994
		Cliff House *	5,992	1,291
		Monofee Shale *	6,082	1,201
		Point Lookout *	6,367	916
		Mancos	6,507	776
		Gallup		
		Greenhorn		
		Dakota		
Logging Program Remarks:		TOTAL DEPTH	6,557	726

SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE	DEPTH INTERVAL, ETC	FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		None		Geograph	Surf - 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.
50' - 4439' (1) (2)	Water	8.6 - 9.2	Sufficient to clean hole	N/C
4439' - TD (3)	Air/Gas			

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	50	8-5/8"	12.25"	
Surface	4,439	5-1/2"	7.875"	1, 2
Production	6,557	2-7/8"	4.75"	3

Casing Program Remarks:
 1 - Circulate cement to surface.
 2 - Set casing 150' into the Lewis Shale.
 3 - Circulate cement at least 200' into the surface casing overlap.

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

Form 46 Reviewed by:	Logging program reviewed by:	APPROVED:	
PREPARED BY:	APPROVED:		
P. Edwards/Craig/Ovitz			
Form 46 7-84bw	For Production Dept	For Exploration Dept	
Date: 4/13/95	Rev. Date: 6/5/95 10:49	File: vcu40a zlv	

SAN JUAN BASIN MESAVERDE FORMATION PRESSURE CONTROL EQUIPMENT

Background

The objective Mesaverde formation maximum surface pressure is anticipated to be less than 1000 psi, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 psi. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 psi system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 psi rated pressure control equipment will typically be utilized in a double ram type arrangement. Regional drilling rigs to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below surface to total depth. No abnormal temperature, pressures, or Hydrogen Sulfide gas is anticipated.

Equipment Specification

Interval

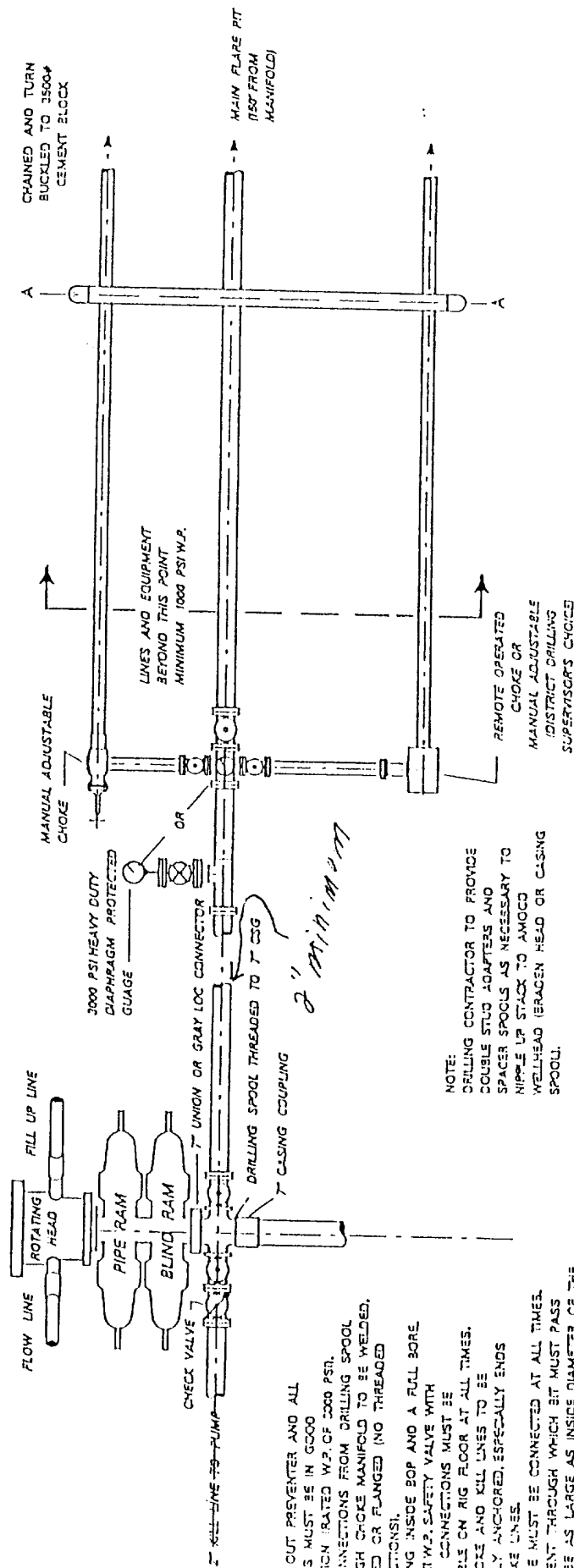
Below surface casing to total depth

BOP Equipment

11" or 7 1/16", 3000 psi double ram preventer with rotating head.

All ram type preventers and related control equipment will be hydraulically tested to 250 psi (low pressure) and 750 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure at the appropriate intervals.

MINIMUM BLOW-OUT PREVENTER REQUIREMENTS 7 7/8" OR 11" (NOMINAL) 3,000 PSI W.P. Typical Dakota /Mesaverde Air /Mud (SRBU)



NOTE:
1. CHOKES ASSEMBLY VERTICAL FOR ILLUSTRATION
ONLY. SHOULD BE HORIZONTAL ON RIG ANCHOR
ALL LINES SECURELY EVERY 20' AND WITHIN 5' OF
END OF LINE
2. DRILLING CONTRACTOR TO BE RESPONSIBLE
FOR PROVIDING ALL LINES AND VALVES.

NOTE:
1. ALL UNMARKED VALVES TO BE FULL-OPENING
GATE OR PLUG VALVES. METAL TO METAL SEAL
3000 PSI W.P.