Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORT 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-03566

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Stewart LS 6M

2. Name of Operator
Amoco Production Company

Attention:
Patty Haefele

9. API Well No.
3004529380

3. Address and Telephone No.
P.O. Box 800, Denver, Colorado 80201 (303) 830-4988

10. Field and Pool, or Exploratory Area
Blanco Mesaverde/Basin Dakota

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
800' FSL & 1165' FEL Section 28 T30N R10W Unit P

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	☐ Abandonment	☒ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other _____	☐ 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 is changing the production casing from 3.5" to 4.5". The new cementing volumes are attached. Please reference APD approved on 5/29/96.

RECEIVED
AUG 26 1996
OIL CON. DIV.
DIST. 3

APPROVED
AUG 23 1996
DISTRICT MANAGER
/s/ Duane Spencer

RECEIVED
BLM
96 AUG 21 AM 10: 15
070 FARMINGTON, NM

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

Signed Patty Haefele Title Staff Assistant Date 08/20/96

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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 statement or representations as to any matter within its jurisdiction..

* See Instructions on Reverse Side

NMOCD

AMOCO PRODUCTION COMPANY

DRILLING and COMPLETION PROGRAM

ease/Well#: Stewart LS #6M
County: San Juan New Mexico
ormer name:
Surface Location: 800' FSL & 1165' FEL of Section 28, T30N, R10W
Field:

OBJECTIVE: Dual Mesa Verde & Dakota

METHOD OF DRILLING
YPE OF TOOLS
otary

DEPTH OF DRILLING
Ground Level - TD

OGGING PROGRAM

YPE	DEPTH
iple Combo (SP-GR-Cal-HRI-SDL-DSN-ML)	Production hole only

ogging Program Remarks:

APPROXIMATE DEPTHS OF GEOLOGICAL MARKER

Actual GL---------Estimated KB 6165 6177

Marker	Depth (ft.)	SS Elev. (ft.)
Ojo Alamo	1,337	4,840
Kirtland	1,507	4,670
Fruitland Coal	2,362	3,815
PC *	2,672	3,505
Lewis Shale	2,807	3,370
Cliff House	4,282	1,895
Menefee Shale *	4,447	1,730
Point Lookout *	4,952	1,225
Mancos	5,357	820
Gallup	6,187	-10
Greenhorn	6,942	-765
Graneros	6,982	-805
Dakota	7,032	-855
TOTAL DEPTH	7,242	-1,065

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

PECIAL TESTS

YPE	DEPTH INTERVAL, ETC
lone	

emarks:

DRILL CUTTING SAMPLES

FREQUENCY	DEPTH

DRILLING TIME

FREQUENCY	DEPTH
Geolograph	Int - TD

Remarks:
Mud Logging Program: One man unit to pick TD

Coring Program: None

MUD PROGRAM:

Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L, cc's/30 min.
' - 2823' (1) (2)	Water	8.6 - 9.2	Sufficient to clean hole	N/C
823' - TD (3)	Air/Mist			

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

ASING PROGRAM:

asing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
onductor	114' ~~120~~	9-5/8"		
urface	2,957	7"	8.75"	1, 2
roduction	7,242	4-1/2"	6.25"	3

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

ENERAL REMARKS:

usiness Unit Engineering staff to design completion program.

orm 46 Reviewed by:
Logging program reviewed by:

REPARED BY:	APPROVED:	APPROVED:
Webb/Ovitz		
orm 46 7-84bw	For Production Dept	For Exploration Dept
ate: 3/26/96	Rev. Date: 4/5/96 8:05	File: stewls6m.xls

Revision No. 2
8/20/96
114A3.XLS

CEMENTING PROGRAM

Dual - Mesaverde/Dakota

rn

Well Name: **Stewart LS #6M**
Location: Sec 28, T30N, R10W
County: San Juan
State: New Mexico

Field:
API No.
Well Flac
Formation: Dakota
KB Elev. (est.) 6177 ft.
GL Elev. (act.) 6165 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	160	12.25	9.625	8R, LT&C	Surface	NA	
Intermediate	2,957	8.75	7.000	8R, LT&C	Surface	NA	
Production	7,242	6.25	4.500	8R, LT&C	2650	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	9.625	36	J-55	3520	2020	394	0.0773	8.765
Intermediate	7.000	23	J-55	4360	3270	284	0.0393	6.241
Production	4.500	11.6	WC-50	4900	4640	149	0.0155	3.875

Mud Program:

Apx. Interval (ft.)	Mud Type	Mud Weight (lb/gal)
0 - 3053	Water	8.6 - 9.2
3053 - TD	Air/Mist	NA

Recommended Mud Properties Prior Cementing:

PV	<20
YP	<10
Fluid Loss	<15

Cementing Program:

	Surface	Intermediate	Production
Excess %, Bit	75	60	30
Excess %, Caliper	NA	NA	20
BHST (est. deg. F)	70	100	175
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 rigless completions.**

Revision No. 2
8/20/96
114A3.XLS

CEMENTING PROGRAM

Dual - Mesaverde/Dakota

rn

Surface:

Preflush	10 bbl.	Fresh Water	
Slurry 1 TOC @ surface	90 sk	Standard Cement + 2% CaCl2 (not mixed) or 1.5 cu. yard Ready Mix	106 cu. ft.

Slurry Properties:	density (lb/gal)	yield (ft3/sk)	water (gal/sk)
slurry 1	15.60	1.18	5.20

Casing Equipment: (Halliburton) 9 5/8", 8R, LT&C

1 Top Wooden Plug

Intermediate:

Preflush	20 bbl. 20 bbl.	Mud Flush Fresh Water + dye marker	
Lead Slurry 1 TOC @ surface		50/50 Standard Cement/Blended Silicalite + 02% gel (total) + 0.4% Halad-344 + 02% CaCl2 + 1/4 lb/sk flocele	589 cu. ft.
Tail slurry 2	100 sk	Standard Cement + 0.4% Halad-344 + 0.4% CFR-3 + 5 lb/sk gilsonite + 1/4 lb/sk flocele	129 cu. ft.

Slurry Properties:	density (lb/gal)	yield (ft3/sk)	water (gal/sk)
slurry 1	12.00	2.03	11.45
slurry 2	15.11	1.29	5.40

Casing Equipment: (Halliburton) 7.0", 8R, LT&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

Dual - Mesaverde/Dakota

Production:

Preflush	10 bbl.	Chemical Wash	
	5 bbl.	Fresh Water	
Lead Cement Slurry 1 TOC @ 2650 ft.		50/50 Std. Cmt/Poz A + 2% gel (total) + 5 lb/sk gilsonite + 0.4% Halad-344 + 1/4 lb/sk flocele	612 cu. ft.

Slurry Properties:	density (lb/gal)	yield (ft3/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 3 1/2", 8R, EUE, (no need to cut long pin)

1	Super Seal II Float Shoe	
20	S-4 Fluidmaster Centralizer (3 1/2" x 6 1/4")	1st 10 centralizers every other joint, then 1 every 10th joint.
1	Lock Clamp	
1	Weld A	
1	Omega Latch Down Plug and Baffle	