Submit 3 Copies to Appropriate District Office

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O.Box 2088
Santa Fe, New Mexico 87504-2088

Form C-103
Revised 1-1-89

WELL API NO. 3004529228

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: Roberts

1. Type of Well: OIL WELL ☐ GAS WELL ☒ OTHER

2. Name of Operator: Amoco Production Company — Attention: Patty Haefele

8. Well No.: #1

3. Address of Operator: P.O. Box 800 Denver Colorado 80201 (303) 830-4988

9. Pool name or Wildcat: West Kutz PC Ext

4. Well Location
Unit Letter A : 1160 Feet From The North Line and 850 Feet From The East Line

Section 14 Township 29N Range 13W NMPM San Juan County

10. Elevation *(Show whether DF, RKB, RT, GR, etc.)*: 5356' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐		CASING TEST AND CEMENT JOB ☐	
OTHER: ☐		OTHER: ☐	

12. Describe Proposed or Completed Operations *(Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work)* SEE RULE 1103.

Amoco Production Company requests your approval of the attached casing and cementing revisions to the APD approved on March 29, 1995.

RECEIVED
DEC - 5 1995
OIL CON. DIV.
DIST. 3

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

SIGNATURE Patty Haefele TITLE Staff Assistant DATE 11-30-1995

TYPE OR PRINT NAME Patty Haefele TELEPHONE NO. (303) 830-4988

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY ERNIE BUSCH TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE DEC - 6 1995

CONDITIONS OF APPROVAL, IF ANY:

AMOCO PRODUCTION COMPANY

DRILLING and COMPLETION PROGRAM

Lease:	Roberts		Well No.	#1	
County:	San Juan	New Mexico	Surface Location:	1160' FNL & 850' FEL of Section 14, T29N, R13W	
Former name:			Field:		

OBJECTIVE: Single PC

METHOD OF DRILLING

TYPE OF TOOLS	DEPTH OF DRILLING
Rotary	Ground Level - TD

LOGGING PROGRAM

TYPE	DEPTH
Triple Combo (SP-GR-FDC-CNL-HRI-Micro)	TD to surface.

Logging Program Remarks:

APPROXIMATE DEPTHS OF GEOLOGICAL MARKER

Actual GL---------Estimated KB 5356 5364

Marker	Depth (ft.)	SS Elev. (ft.)
Ojo Alamo		
Kirtland		
Fruitland Coal	954	4,410
PC *	1,219	4,145
Lewis Shale	1,459	3,905
Cliff House		
Menefee Shale		
Point Lookout		
Mancos		
Gallup		
Greenhorn		
Dakota		
TOTAL DEPTH	1,509	3,855

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

SPECIAL TESTS

TYPE	DEPTH INTERVAL, ETC
None	

Remarks:

DRILL CUTTING SAMPLES		DRILLING TIME	
FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		Geolograph	Surf - TD

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' - 250'	Spud			N/C
250' - TD (1) (2)	LSND	8.6 - 9.4	Sufficient to clean hole	N/C

Mud Program Remarks:
1 - The hole may 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.

CASING PROGRAM:

Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor				
Surface	250	7"	8.75"	1
Production	1,509	4.5"	6.25"	1, 2, 3

Casing Program Remarks:
1 - Circulate cement to surface.
2 - Production cement to be designed by Denver drilling staff.
3 - Casing to be set 50' into the Lewis Shale

GENERAL REMARKS:

Business Unit Engineering staff to design completion program.

Form 46 Reviewed by:	Logging program reviewed by:	
PREPARED BY: Grotke/Ovitz	APPROVED:	APPROVED:
Form 46 7-84bw	For Production Dept	For Exploration Dept
Date: 3/8/95	Rev. Date: 11/30/95 8:20	File: roberts1.xlw

Version No. 3
11/30/95
688A3.XLS

CEMENTING PROGRAM

Roberts #1

blp

Well Name: Roberts #1
Location: 1160' FNL X 850' FEL, Sec 14, T29N, R12W
County: San Juan
State: New Mexico

Field:
API No.
Well Flac
Formation: Pictured Cliff
KB Elev. (est.) 5364 ft.
GL Elev. (est.) 5356 ft.

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Casing Weight (lb/ft.)	Casing Grade	Thread	TOC (ft.)
Surface	250	8.75	7.000	23	J-55	8R, LT&C	Surface
Production	1,509	6.25	4.500	10.5	K-55	8R, ST&C	Surface

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.)
Surface	23	4360	3270	313	0.0393		6.241
Production	10.5	4790	4010	146	0.0159		3.927

Mud Program:

Apx. Interval (ft.)	Mud Type	Mud Weight (lb/gal)
0 - SCP	Spud	8.6-8.8
SCP - TD	LSND	8.6-9.4

Recommended Mud Properties Prior Cementing:

PV	<20
YP	<10
Fluid Loss	<15

Cementing Program:

	Surface	Production
Excess %, Bit	75	60
Excess %, Caliper	NA	40
BHST (est. deg. F)	55	100
Pipe Movement	NA	NA
Rate, Max. (bpm)	1 truck	4
Rate, Recommended (bpm)	6	4
Pressure, Max. (psi)	200	2000
Shoe Joint	40'	40
Batch Mix	NA	NA
Circulating prior cmtng (hr.)	0.5	1
Time Between Stages,(hr.)	NA	NA
Special Instructions	1,6,7	2,4,6,8

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

Roberts #1

Surface:

Preflush	20 bbl.	Fresh Water + dye marker	
Slurry 1 TOC@Surface	60 sk	Standard Cement + 2% CaCl2 + 1/4 lb/sk flocele	70 cu. ft.

Slurry Properties:	density (lb/gal)	yield (ft3/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

Roberts #1

Production:

Preflush	20 bbl.	Mud Flush	
	10 bbl.	Fresh Water	
Lead Cement Slurry 1		50/50 Standard Cement/Blended Silicalite + 02% gel (total) + 0.5% Versaset + 0.4% Halad-344 + 02% CaCl2 + 1/4 lb/sk flocele	220 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.

Casing Equipment: Halliburton 4 1/2", 8R (no need to cut long pin)

1 Regular Guide Shoe
1 Super Seal II Float Collar
10 S-4 Fluidmaster Centralizer
1 Lock Clamp
1 Weld A
1 Top Rubber Plug