

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form 100-100-1
Budget Category No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

SF-078887

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Rosa Unit

9. WELL NO.

87

10. FIELD AND POOL, OR WILDCAT

Wildcat Gallup

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Section 12, T31N, R4W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

1a. TYPE OF WELL:

OIL WELL ☐GAS WELL ☒DRY ☐

Other

b. TYPE OF COMPLETION:

NEW WELL ☒WORK OVER ☐DEEP-EN ☐PLUG BACK ☐DIFF. RESVR. ☐

Other

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 1100' FNL X 790' FWL

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO.

U.S. GEOLOGICAL SURVEY
FARMINGTON DISTRICT

15. DATE SPUDDED

10-29-81

16. DATE T.D. REACHED

12-19-81

17. DATE COMPL. (Ready to prod.)

10-19-82

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

7017' KB

19. ELEV. CASINGHEAD

7004' GL

20. TOTAL DEPTH, MD & TVD

8986'

21. PLUG, BACK T.D., MD & TVD

8741' 8519'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

O-TD

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

7281' - 8005' Gallup

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction - SP - GR.

Compensated Nevtron

Compensated Formation

Density - GR

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	294'	17 1/2"	see attached	
9 5/8"	323#	4195'	12 1/4"		
5 1/2"	17#	4071'	7 7/8"		

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5 1/2"	4071'	8986'	1966 cu.ft.	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8008'	3739'

31. PERFORATION RECORD (Interval, size and number)

7281'-7380'; 7494'-7506'; 7535'-7555';
7567'-7586'; 7624'-7635'; 7917'-7968';
7990'-8005' with 2 jspf total of 350
.41" holes.

7281-7292, 7320-7336, 7360-7380

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
see attached	

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
10-19-82		Flowing				S.I.	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-19-82	3 hrs.	.75	→		281		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
180 psig	912 psig	→		2246			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be sold

35. LIST OF ATTACHMENTS

Cementing records and fracturing record.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Original Signed By
B.T. Roberson

TITLE Adm. Supervisor

DATE DEC 16 1982
JAN 05 1983

*(See Instructions and Spaces for Additional Data on Reverse Side)

FARMINGTON DISTRICT

Smm

NMOCG

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:				38. GEOLOGIC MARKERS		
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				NAME	MEAS. DEPTH	TOP TRUE VERT. DEPT.
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.			
Tertiary	surface	3350				
Ojo Alamo	3350	3480				
Kirtland	3480	3675				
Fruitland	3675	3939				
Pictured Cliffs	3939	4051				
Lewis Shale	4051	6050				
Cliff House	6050	6265				
Menetee	6265	6398				
Point Lookout	6398	6616				
Mancos	6616	7281				
Gallup	7281	8005				
Mancos	8005	8448				
Greenhorn	8448	8499				
Mancos	8499	8598				
Graneros Dakota	8598	8681				
Dakota	8681	8906				
Morrison	8906					
		Total depth	8989			

Cementing Record:

- 1) Set 13 3/8" 48# surface casing at 294' and cemented with 625 cu.ft. of class "B" neat cement containing 2% CaCl_2 . Good cement circulated to the surface.
- 2) Set 9 5/8" 32.3# intermediate casing at 4195' and cemented in two stages:
 - a. Used 331 cu.ft. of class "B" neat cement containing 50:50 poz, 6% gel, 2# med. tuf plug/SX and .8% F.L.A.
 - b. Used 2433 cu.ft. of class "B" neat cement containing 50:50 poz, 6% gel, 2# med. tuf plug/SX and .8% F.L.A. This was tailed in with 118 cu.ft. of class "B" cement. Circulated good cement to surface.
- 3) Set 5 1/2" 17# production liner from 4071' to 8986' and cemented in with 1848 cu.ft. of class "B" neat cement with 50:50 poz, 6% gel, 2# med. tuf plug/SX and 1.5% Dowell 112 fluid loss additive with .1% D-28 retarder. Tailed in with 118 cu.ft. class "B" neat cement containing 35% Silica flour and 1.5% Dowell 112 F.L.A. with .75% D-65 surfactant. Good cement reversed out following cement of liner.
- 4) Set 5 1/2" 17# production casing at 4071' and cemented with 1263 cu.ft. of class "B" neat cement containing 50:50 poz, 6% gel, 2# med. tuf plug/SX and .8% F.L.A. Tailed in with 118 cu.ft. of class "B" neat cement containing 2% CaCl_2 . Circulated 35 cu.ft. of good cement to surface.

Fracturing Record:

Fraced interval 7917'-8805' with 82,160 gallons of 40# crosslinked gel containing 2% KCL water with 1 gallon surfactant per 1,000 gallons frac fluid and 130,000# of 20-40 sand.

Fraced interval 7494'-7635' with 88,000 gallons of 40# crosslinked gel water containing 2% KCL water, 1 gallon of surfactant per 1,000 gallons of frac fluid and 195,000# of 20-40 sand.

Fraced interval 7281'-7380' with 56,000 gallons of 40# crosslinked gel water containing 2% KCL water, 1 gallon surfactant per 1,000 gallons frac fluid and 123,000# of 20-40 sand.

RECEIVED

JAN 5 1983

OIL CON. DIV.
DIST. 2