

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(See other instructions on reverse side)

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

5. LEASE DESIGNATION AND SERIAL NO.

NMSF-078828-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Gallegos Canyon Unit #231

9. API WELL NO.

3004511631

10. FIELD AND POOL, OR WILDCAT

Kutz Pictured Cliffs, West (Gas)

11. SECTION, TOWNSHIP, RANGE, OR BLOCK AND SURVEY

Section 27

Township 28N Range 12W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)

5747'

19. ELEV. CASINGHEAD

23. INTERVALS DRILLED BY

ROTARY TOOLS

YES

CABLE TOOLS

NO

25. WAS DIRECTIONAL SURVEY MADE

NO

27. WAS WELL CORED

N

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 AND TELEPHONE NO.

P.O. BOX 800 DENVER, CO. 8020

(303)830-6157

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

At surface

790' FNL

1450' FEL

At top prod. interval reported below

At total depth

Attention:

Gail M. Jefferson

Unit B

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

02/25/1966

16. DATE T.D. REACHED

03/08/1966

17. DATE COMPL. (Ready to prod.)

12/21/1998

20. TOTAL DEPTH, MD & TVD

6205

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

1753'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

YES

CABLE TOOLS

NO

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

Kutz Pictured Cliffs, West (Gas) 1515'-1682'

26. TYPE ELECTRIC AND OTHER LOGS RUN

CBL

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	366'	12-1/4"	225 sxs	
4-1/2"	10.5#	6205'	7-7/8"	500 sxs 1st stage, 550 sxs 2nd stage, 400 sxs 3rd stg	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	1583'	

PERFORATION RECORD (Interval, size, and number)

1506'-1520' w/4 jsfp, .330 inch diameter, total 57 shots fired.
1530'-1544' w/4 jsfp, .330 inch diameter, total 57 shots fired.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1506' 1544'	60,000# 16/30 Arizona Sand

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)					WELL STATUS (Producing or shut-in)	
04/07/1966		Flowing					SI	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO	
12/12/1998	12 hrs	1/2"		Trace	69 mcf	Trace		
FLOW TUBING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)		
N/A	10#		Trace	137 mcf	Trace			

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

TO BE SOLD

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED

Gail M. Jefferson

TITLE

Sr. Admn Staff Asst.

DATE

12-18-1998

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

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.

NMOCD

ARMINGTON DISTRICT OFF

JAN 06 1999

Gallegos Canyon #231

37. SUMMARY OF POROUS ZONES: (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):

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Pictured Cliffs	1515					
Lewis Shale	1745'					
Mesaverde	3080'					
Mancos	4250'					
Gallup	5135'					
Base Gallup	5642					
Greenhorn	5925'					
Graneros Shale	5989'					
Graneros Dakota	6022'					
Main Dakota	6091'					

(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

RECEIVED
BLM
98 DEC 21 AM 10:09

070 FARMINGTON, NM

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

2. Name of Operator

AMOCO PRODUCTION COMPANY

Attention:

Gail M. Jefferson

3. Address and Telephone No.

P.O. BOX 800 DENVER, COLORADO 80201

303-830-6157

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

790 FNL

1450 FEL

Sec. 27 T 28N R 12W

UNIT B

5. Lease Designation and Serial No.

NMSF - 078828A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

GALLEGOS CANYON UNT 231

9. API Well No.

3004511631

10. Field and Pool, or Exploratory Area

Kutz Pictured Cliffs, West (Gas)

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 Recomplete

- ☐ 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 RECEIVED PERMISSION TO RECOMPLETE THIS WELL AND DURING OPERATIONS REQUESTED APPROVAL FROM THE BLM (STEVE MASON) TO PUT ADDITIONAL PLUGS IN THE WELLBORE. UPON APPROVAL OF THE ADDITIONAL PLUGS THE BLM REQUESTED THAT AMOCO REVISE IT'S ORIGINAL RECOMPLETION PROCEDURES TO INCLUDE THE ADDITIONAL PLUGS. ATTACHED YOU WILL FIND THE REVISED PROCEDURES. THE GCU #231 WAS RECOMPLETED AS FOLLOWS:

MIRUSU 12/4/98. Tag and PU CIBP, TIH set at 5975'. Test CIBP to 1000#, held okay. TOH to run CBL. Ran CBL from 5975' to surface. 65-75% bond all the way to surface.

Cemented from 5975' to 5725' with 20 sxs Clas B cmt to plug Dakota. Cemented from 4936' to 5186' with 20 sxs of Class B cmt to plug Gallup. Cemented from 2880' to 3130' with 20 sxs Cl B cmt to plug Mesaverde. Cemented from 1753' to 1942' with 20 sxs Class B cmt for PBTD.

Perforated at 1506'-1520' with 4 jspf, .330 inch diameter, total 57 shots fired. Perforated at 1530'-1544' with 4 jspf, .330 inch diameter, total 57 shots fired. Frac'd from 1506'-1544' with 60,000# of 16/30 Arizona sand.

Flow well back up casing after frac, start with 1/4" choke, flowed for 12 hrs, changed to 1/2" choke flowed 12 hrs making little water. No tubing in hole, casing pressure 10#, flowing trace of oil, and 69 mcf.

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

Signed

Title

SR. ADMIN. STAFF ASST.

Date

12-18-1998

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

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

Gallegos Canyon Unit #231 - Recompletion Subsequent Cont'd
December 18, 1998

TIH with dump bailer, cleaned out 10' could not bail any deeper. TOH with bailer and lay down dump bailer, install production bottom hole assembly and TIH to clean out with N2 from 1531' to 1753'. Wait one hour TIH no fill.

Land 2-3/8" tbg at 1583'.

RDMOSU 12/15/98

GCU Well Work Procedure

GCU 231

Date: 10/20/98

Objective:

Recomplete from Dakota to Pictured Cliffs

Pertinent Information:

Location: NE27-28N-12W

County: San Juan

State: New Mexico

Lease:

Well Flac: 98570301

Horizon: Dak to PC

API #: 30-045-11631

Engr: Wayne Peterson

Phone: H--(303)795-0171

W-(303)830-4332

Call Tom Feldkamp 303-830-5575 or Wayne Peterson 303-830-4332 in Denver to see if steps 6-7 are necessary.

1. Check anchors. MIRUSU.
2. Check and record tubing, casing and bradenhead pressures.
3. Blow down wellhead, kill if necessary.
4. Nipple down wellhead, nipple up and pressure test BOP.
5. TOH with tubing.
6. TIH with tubing conveyed perforating gun and packer. Set packer 1 jt above interval to be perfed and perforate Lower Dakota as specified.
7. Test Lower Dakota and report results to Tom Feldkamp or Wayne Peterson before proceeding. If the Lower Dakota is determined to be uneconomic go to step 8. If it is economic a modified procedure will be prepared.
8. PXA Dakota. Set CIBP within 50' of top Dakota perf. Spot 150' cmt plug on top of CIBP.
9. Log Pictured Cliffs interval with CBL/GR/CCL to insure zonal isolation across PC.
10. Set cmt plugs as follows:
4935-5185 (Gallup top at 5135)
2880-3130 (Mesaverde top at 3080)
1753-1942 (PC rathole plug)
Note: verbal approval to set plugs received from Steve Mason (BLM) to Wayne Peterson 12/8/98
11. Perforate the following interval with 4JSPF, 120 deg. phasing: PC 1526-1554
12. Fracture stimulate down casing according to schedule 'A'.
13. CO to PBTD.
14. TIH with 2 3/8" tbg, rods, and pump. Land 1 joint below perfs if possible.
15. RDMO. Hook up to pumping unit and well head compressor.