

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*

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
Attention: Kelly Stearns

3. ADDRESS AND TELEPHONE NO.: P.O. Box 800, Denver, Colorado 80201 (303) 830-4457

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 960 FNL 1190FWL UNIT D

At top prod. interval reported below

At total depth

CONFIDENTIAL

14. PERMIT NO. DATE ISSUED

12. COUNTY OR PARISH: San Juan
13. STATE: New Mexico

15. DATE SPUDDED: 07/06/93
16. DATE T.D. REACHED: 08/04/93
17. DATE COMPL. (Ready to prod.): 09/21/93
18. ELEVATIONS (DF, RKB, RT, GR, ETC.): 5879' GR
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD: 7304'
21. PLUG, BACK T.D., MD & TVD: 7280'
22. IF MULTIPLE COMPLETIONS, HOW MANY: 1
23. INTERVALS DRILLED BY: 1
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD): 7076' - 7232' Dakota
25. WAS DIRECTIONAL SURVEY MADE: NO
26. TYPE ELECTRIC AND OTHER LOGS RUN: Spectral Density Dual Spaced Neutron DIL,CAL,NGT,GR,FDC,CNL,MICROLOG,DSI,GPIT,CBL,CCL,WELLOG,DUAL INDUCTION SHORT GUARD
27. WAS WELL CORED: N

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

29. LINER RECORD

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8" K55	68#	402'	17 1/2"	465' sx CI B	
9 5/8" K55	36#	2927'	12 1/4"	1st Stage: 260' sx CI B	
				2nd Stage: 615' sx CI B, tail w/100' sx CI B	
7" K55	23#	6860'	8 3/4"	1st Stg: 630' sx CI B, 2nd Stg: 300' sx CI B	

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4 1/2"	6665'	7304'	160' sx CI G		2 3/8"	7161'	Retainer @ 7242'

31. PERFORATION RECORD (Interval, size and number)
SEE ATTACHED.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD): 7076' - 7189'
AMOUNT AND KIND OF MATERIAL USED: SEE ATTACHED.

33.* PRODUCTION
DATE FIRST PRODUCTION: 09 23 1993
PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump): FLOWING
WELL STATUS (Producing or shut-in): Shut In
DATE OF TEST: 09 28 1993
HOURS TESTED: 24
CHOKE SIZE: 18/64
PROD'N FOR TEST PERIOD: 0
OIL - BBL: 0
GAS - MCF: 79
WATER - BBL: 20
GAS-OIL RATIO: 20
FLOW TUBING PRESS: 150
CASING PRESSURE: 1360
CALCULATED 24-HOUR RATE: 0
OIL - BBL: 0
GAS - MCF: 79
WATER - BBL: 20
OIL GRAVITY - API (CORR.):

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): To Be Sold.
TEST WITNESSED BY: JOCEPTE

35. LIST OF ATTACHMENTS: It has not yet been determined if this well will be a commercial producer.

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

SIGNED: Kelly Stearns
TITLE: Business Analyst
DATE: 10-22-1993

*(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.

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Kirkland	1275'	
				Fruitland	2390'	
				Pictured Cliffs	2676'	
				Lewis Shale	2860'	
				Cliff House	4401'	
				Menefee	4531'	
				Point Lookout	4881'	
				Mancos Shale	5258'	
				Greenhorn	6843'	
				Dakota	6963'	

MIRUSU 8/12/93. NDWH. NUBOP. TAGGED CMT @ 6255'. DRILL CMT TO LINER TOP OF 6665'. DRILLED 15' OF CMT IN LINER TOP. PRESSURE TEST TO 1000PSI. HELD. TIH AND TAGGED CMT @ 7200'. DRILL CMT TO FLOAT COLLAR @ 7217'. DRILLED FLOAT COLLAR AND PRESSURE TEST TO 1000 PSI. HELD. DRILLED CMT TO 7280'. CIRC HOLE CLEAN AND PRESSURE TEST TO 1000 SPI. HELD. TOH. RU WLE. RAN CBL CCL GR FROM 7280' TO 2600'. EST. CMT TOP 3920'. RD WLE. RU WIRE LINE AND RAN LOG FROM 7200' TO SURFACE. TIH WITH TBG TO 6752'. RU N2 EQUIP AND UNLOAD HOLE WITH 147 K SCF N2. TOH WITH TBG.

PERF: RU WLE AND RIH AND PERF CSG @ 7252' WITH 4 JSPF .25 HOLE. RIH AND SET CMT RET @ 7242'. RD WLE. TIH WITH STINGER AND STING INTO CMT RET @ 7242'. STUNG OUT OF CMT RETAINER. PRESSURE TEST CSG TO 1500 PSI. HELD. TOH. ND BOP AND SET BAKER LOCKSET PKR @ 7080'. NUWH. PRESSURE TEST PKR AND SEAL TO 500 PSI. HELD. PERF DK FROM 7216-7220' AND 7228-7232' WITH 4 JSPF .51 HOLE. RELEASED PKR. TIH TO LINER TOP @ 6670' TAGGED. TIH TO CMT RET SET @ 7242' AND TOH. RU WLE AND RIH AND SET RBP @ 7213'. ROH AND PRESSURE TEST TO 1500 PSI. HELD. RIH AND DUMPED 1/2 SX SAND ON RBP. NDBOP. RIH AND PERF DK WITH 1 JSPF .34 HOLE. PERF FROM 7182-7189', 7152-7156', 7124-7132', 7102-7107', AND 7076-7078'.

ALL TBG HYDROTESTED TO 6500 PSI. SET PKR @ 6692' AND LAND DONUT. PRESSURE TEST BACKSIDE TO 1500 PSI. HELD. PRESSURE TEST SURFACE LINES TO 7400 PSI. HELD. PMP 143 BBLS GEL WATER TO OBTAIN ISIP.

FRAC 7076' TO 7189'. PUMP 120,877 GALLONS 50#/M LINEAR GEL AND 142,748 POUNDS 20/40 OTTAWA SAND. AIP 5660 PSI. AIR 21.8 BPM.

SCREENED OUT ON 5 PPG SAND. 141,135 BBLS SAND IN FORMATION. AVERAGE RATE OF 23 BPM AT 5750 PSI. ND FRAC VALVE. NUBOPS.

RELEASE PKR. MAKE UP RET HEAD FOR PLUG AND START IN HOLE ON 2 3/8" TBG. RUN 229 JNTS. TAG FILL 7136'. PULL 9 STAND TO CLEAR LINER. TIH WITH 9 STANDS. TAG FILL 7136'. RIG IN HES N2 UNITS. CLEAN OUT TO 7213' USING N2 AND FOAM. LATCH ONTO PLUG AND RELEASE SAME. TOH. RIG IN HES WIRELINE. TIH TO RUN AFTER FRAC LOG. RIG DOWN WIRELINE. TIH. TAG SAND FILL 7194'. TOH. MAKE UP BAILER AND TIH ON 2 3/8" TBG. CLEAN 48' TO DEPTH OF 7242'. TOH WITH BAILER. RIG IN HES WIRELINE. RUN AFTER FRAC DUAL ISOTOPE LOG. RIG DOWN WIRELINE. TIH WITH 1/2 MULESHOE, 1 JNT 2 3/8" TBG, SEATING NIPPLE WITH X-OVER AND 227 JNTS TBG. LAND TBG 7161'. NDBOPS. NUWH. 09/21/93.