Form 3160-4
(October 1990)

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*

5. LEASE DESIGNATION AND SERIAL NO.: JICARILLA CONTRACT 109

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: JICARILLA APACHE

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER

7. UNIT AGREEMENT NAME:

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☒ OTHER Recompletion

8. FARM OR LEASE NAME, WELL NO.: JICARILLA /B/ #5E

2. NAME OF OPERATOR: Amoco Production Company
Attention: Kelly Stearns

9. API WELL NO.: 3003922899

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

10. FIELD AND POOL, OR WILDCAT: TAPACITO GALLUP

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 1850' FNL 870' FWL
At top prod. interval reported below
At total depth

RECEIVED
SEP1 51993
OIL CON. DIV
DIST. 3

11. SEC., T., R., M., OR BLOCK. AND SURVEY OR AREA: Section 21 Township 26N Range 5W

14. PERMIT NO. | DATE ISSUED | 12. COUNTY OR PARISH: RIO ARRIBA | 13. STATE: NM

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
06/21/82	07/06/82	08/03/92	6590' KB	6578' GR

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
7500' KB	7456' KB	1	→	YES	NO

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
6682'-6728' Gallup

DHC-956
12-14-93

25. WAS DIRECTIONAL SURVEY MADE: NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED: NO

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
9 5/8"	36#	295' KB	12 1/4"	240 CF CL-B + 2% CaCl2 + 1/4# / sx flocele	
4 1/2"	11.5, 10.5#	7499' KB	8 3/4", 7 7/8"	1st: 622 CF econolite, 177 CF Cl-B	
				2nd: 204 CF econolite, 118 CF Cl-B	
Lower DV @ 4018' KB, Upper DV @ 2583' KB				3rd: 622 econolite, 118 CF Cl-B	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	~~not yet set~~ w/on commingling approval	RBP @ 7082'

31. PERFORATION RECORD (Interval, size and number)
See Attached.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6682' - 6728'	See Attached.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)	WELL STATUS (Producing or shut-in)
08 02 1993	Flowing	SI w/on Pipeline

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD →	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
08 02 1993	24	no choke - 245# back pressure		20.4	638	14.4	

FLOW TUBING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)
255	380		20.4	638	14.4	58

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

ACCEPTED FOR RECORD

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Note: RBP will be removed and tubing landed once downhole commingling is approved.

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 08-04-1993

*(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, [illegible] statements or representations as to any matter within its jurisdiction.

NMOCD

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:
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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Ojo Alamo	2300'	2610'	Sand, shale, water
Kirtland	2610'	2870'	Shale
Fruitland	2870'	3012'	Sand, shale, coal, gas, water
Pictured Cliffs	3012'	3098'	Sand, gas
Lewis	3098'	3528'	Shale
Chacra -	3528'	4690'	Shale, sand, gas
Cliffhouse	4690'	4808'	Sand, gas, water
Menefee	4808'	5215'	Sand, shale, coal, water, gas
Point Lookout	5215'	5364'	Sand, water, gas
M os	5364'	6244'	Shale
Gallup	6244'	7106'	Siltstone and shale
Graneros	7165'	7190'	Shale
Dakota	7190'	TD	Sand, shale, gas

NOTE: All depths expressed in terms of KB.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Greenhorn	7106'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

GPO 680-147

MIRUSU 6/30/93. NDWH,NUBOP. TIH TAG FILL AT 7377' KB, 76' OF FILL TO PBTD. TOH. TIH W/RBP AND PKR TO 5000'. SET RBP AT 7082 AND TEST, HELD. TOH W/40 STDS, SET PKR AT 4865'. TST INTERVAL FROM 4865' TO 7082' AT 4200 PSI, HELD. TOH TO 4740' SET PKR. TST CSG TO SURFACE, DID NOT TST. TOH TO 4680', SET PKR, TST CSG TO SURFACE. LOCATED CSG LEAK BETWEEN 2200' AND 2850'. TOH W/TBG AND PKR. RIG UP.

TIH PERF 6682' TO 6728' W/4 JSPF .38 INCH DIAMETER. RIG DN. TIH W/PKR TO 4880'. TST TBG TO 7500 PSI, HELD. TIH RET STD VALVE. TOH. SET PKER AT 4879'. TEST ALL LINES, HELD.

FRAC 6682' TO 6728' PUMP 95,000 GALLONS NITROGEN FOAM AND 192,000 POUNDS 20/40 SAND. AIP 5300PSI, AIR 35 BARRELS PER MINUTE.

REL PKR. PICKUP 2ND RBP AND PKR. TIH SET RBP AT 4859'. TOH 3 STDS SET PKR. TST MV SQZ TO 1000 PSI, HELD. TOH 38 STDS, TST CSG 1000 PSI HAVE A SLIGHT BLEEDOFF. TIH REL RBP. TOH RESET RBP AT 3152'. TOH SET PKR AT 2224'. LOAD CSG TST 2224' TO SURFACE TO 1000 PSI, HELD. TST DN TBG 3152' TO 2224'. LOCATE 2 SMALL LEAKS 2467' TO 2224'. RBP SET AT 3152' . DUMP SAND ON RBP. TOH W/PKR, TIH TBG TO 2567'. PMP 50 BBLS WATER TO CIRC HOLE CLEAN. MIX AND PUMP 8.4 BBLS CLS B CMT ACROSS LEAK INTERVAL TO 2224'. DISP CMT W/7 BBLS. TOH. SQUEEZE LEAKS AT 2000 PSI W/2.5 BBLS CMT. STAGE SQUEEZES TILL LEAKS MAINTAIN SQUEEZE PRESS AT 2000 PSI. TIH W/BIT. TAG CMT AT 2109'. DRL CMT TO 2609'.PRESS TST SQZ TO 1000 PSI, HELD. TOH. TIH W/RET, CIRC SAN OFF RBP AT 2906 '. REL PLG. TOH TO 6726' LAND TBG. NDBOP, NUWH. RDMOSU 07/21/93.