Form 9-330
(Rev. 5-63)

CORRECTED FORM 9-330

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.: SF-077951-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Jack Frost "B"

9. WELL NO.: 1E

10. FIELD AND POOL, OR WILDCAT: Angel Peak Gallup

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SW/4, SW/4, Section 27, T27N, R10W

12. COUNTY OR PARISH: San Juan

13. STATE: New Mexico

JUN 11 1982 OIL CON. DIV. DIST. 3

RECEIVED
MAY 17 1982
U.S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

## 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

3. ADDRESS OF OPERATOR: 501 Airport Dr., Farmington, NM 87401

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 615' FSL x 810' FWL
At top prod. interval reported below: Same
At total depth: Same

14. PERMIT NO. | DATE ISSUED

| 15. DATE SPUDDED | 16. DATE T.D. REACHED | 17. DATE COMPL. (*Ready to prod.*) | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* | 19. ELEV. CASINGHEAD |
|---|---|---|---|---|
| 12-20-80 | 1-5-81 | 2-3-82 | 6171' KB | 6158' GL |

| 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 |
|---|---|---|---|---|---|
| 6615' | 6566' | 2 | ——→ | 0 - TD | |

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5757' - 5489'; Angel Peak Gallup

25. WAS DIRECTIONAL SURVEY MADE: NO

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, SP, GR, FDC, CNL

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 |
|---|---|---|---|---|---|
| 9-5/8" | 32# | 300' | 12-1/4" | 300 sx | |
| 7" | 26# | 6615' | 8-3/4" | 1800 sx | |
| | | | | | |

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" | 6509' | Sliding Sleeve at 5825' |

31. PERFORATION RECORD (*Interval, size and number*)
5757'-5782', with 2 spf, total of ~~74~~ 50 .38" holes.
5489'-5497', 5503'-5508', 5590'-5609', 5618'-5623', 5661'-5711', with 2 spf, a total of ~~114~~ .38" holes.

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---|---|
| 5757'-5782' | 20,500 gallons of frac fluid and 71,000 pounds of 20-40 sand. |
| 5489'-5711' | 100,000 gallons of frac fluid and 125,000 pounds of 20-40 sand. |

33.* ~~104~~ PRODUCTION

| DATE FIRST PRODUCTION | PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*) | WELL STATUS (*Producing or shut-in*) |
|---|---|---|
| * * | Flowing | Shut-In |

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD → | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|---|---|---|---|---|---|---|---|
| 10-22-81 thru 11-3-81 | 288 hrs | Open | | 25.8 | 2707 | 5.8 | 104,922 |

| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE → | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |
|---|---|---|---|---|---|---|
| 100 psig | | | 2.15 | 226 | .48 | 55° est |

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): To be Sold.

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS

ACCEPTED FOR RECORD

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

SIGNED _____ TITLE Dist. Admin. Supvr. DATE MAY 21 1982

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

FARMINGTON DISTRICT
BY

* * Date will be reported when well is first delivered.

NMOCC

# 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

38. GEOLOGIC MARKERS

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP MEAS. DEPTH | TOP TRUE VERT. DEPTH |
|---|---|---|---|---|---|---|
| Main Dakota | 6419' | 6512' | | | | |
| Graneros Dakota | 6334' | 6419' | | | | |
| Graneros Shale | 6307' | 6334' | | | | |
| Greenhorn | 6250' | 6307' | | | | |
| Gallup | 5398' | 5941' | | | | |
| Mancos | 4295' | 6250' | | | | |
| Point Lookout | 4127' | 4295' | | | | |
| Menefee | 3542' | 4127' | | | | |
| Cliffhouse | 3480' | 3542' | | | | |
| Chacra | 2780' | 3480' | | | | |
| Picture Cliffs | 1880' | 1953' | | | | |
| Fruitland | 1702' | 1880' | | | | |

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9 5/8" Casing cemented with 300 sx of class "B" neat cement containing 2% CaCl2. Good cement was circulated to the surface. Drilled a 8 3/4" hole to a TD of 6615'. Set 7" 26# production casing at 6615', on 1-6-81, and cemented in two stages.

1) Used 800 sx of Class "B" neat cement containing 50/50 POZ, 6% gel, 2# medium tuf plug per sack, and .8% fluid loss additive. THis was tailed in with 270 sx of Class "B" neat cement. Cement was circulated throughout the 1st stage.

2) Used 630 sx of Class "B" neat cement containing 50/50 POZ, 6% gel, 2# medium tuf plug per sack, and .8% fluid loss additive. This was tailed in with 100 sx of class "B" neat cement. Cement was circulated throughout the