Form 9-330
(Rev. 5-63)

# 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.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: SF 047017-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Angel Peak "B"

9. WELL NO.: 24-E

10. FIELD AND POOL, OR WILDCAT: Wildcat Gallup

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 13, T28N, R11W, N.M.P.M.

12. COUNTY OR PARISH: San Juan

13. STATE: New Mexico

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Union Texas Petroleum Corporation

3. ADDRESS OF OPERATOR: P.O. Box 808, Farmington, New Mexico 87499

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1680 ft./S; 850 ft./E line
At top prod. interval reported below: Same as Above
At total depth: Same as Above

RECEIVED
APR 25 1983
U.S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

MAY 10 1983

14. PERMIT NO.: — 15. 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 |
|---|---|---|---|---|
| 12/19/82 | 1/3/83 | 2/17/83 | 5850 R.K.B. | 5838 |

| 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 |
|---|---|---|---|---|---|
| 6576 MD & TVD | 6518 MD & TVD | 2 | → | 0-6576 | ---- |

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5431 - 6051 Gallup (MD & TVD)

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: D.I.L., Comp. Density, Comp. Neutron

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" | 48.00 | 280 | 17" | See Reverse Side | |
| 9-5/8" | 40.00 | 5390 | 12-1/4" | See Reverse Side | |
| 7" | 23.00 | 5211 - 6569 | 8-1/2" | See Reverse Side | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) |
|---|---|---|---|---|
| 7", 23.00# | 5211 | 6569 | | |

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|
| 2-3/8"E.U.E. | 5799 | 6150 |

31. PERFORATION RECORD (*Interval, size and number*): See Attachment

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---|---|
| See Attachment | |

33.* PRODUCTION

| DATE FIRST PRODUCTION | PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*) | WELL STATUS (*Producing or shut-in*) |
|---|---|---|
| 2/18/83 | Flowing | Producing |

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD → | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|---|---|---|---|---|---|---|---|
| 4/15/83 | 24 | 1-1/4" | → | 25 | 378 | 0 | 15,120 |

| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE → | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |
|---|---|---|---|---|---|---|
| 225 | 391 | → | 25 | 378 | 0 | 40° |

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Sold — Hooked - up 4-10-83

TEST WITNESSED BY: Bennie Brown

35. LIST OF ATTACHMENTS: Perforation and Fracture Record

ACCEPTED FOR RECORD

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

SIGNED Kenneth E. Roddy — Kenneth E. Roddy — TITLE Area Production Supt. — DATE April 21, 1983

MAY 05 1983

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

NMOCC

FARMINGTON DISTRICT
BY

# 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.)

Item 28: 13-3/8" Casing: Cemented with 360 cu. ft. of class "B" with 3% $CaCl_2$ and 1/4 lb. of Flocele per sack.
9-5/8" Casing: Cemented first stage with 1675 cu. ft. of 65-35 Pozmix with 6% gel, 12-1/2 lb. of gilsonite per sack, 1/4 lb. of cello flakes per sack and 118 cu. ft. of class "B" with 2% CaCl2. Cemented second stage with 920 cu. ft. of 65-35 Pozmix with 12% gel, 1/4 lb. of cello flakes per sack, 12-1/2 lb. of gilsonite per sack, and 118 cu. ft. of class "B" with 2% $CaCl_2$.
7" Casing: Cemented with 225 cu. ft. of 50-50 Pozmix with 2% gel, 18% salt, 0.5% CFR-2, 0.6% Halad-9.

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. |
|---|---|---|---|

38. GEOLOGIC MARKERS

| NAME | TOP MEAS. DEPTH | TOP TRUE VERT. DEPTH |
|---|---|---|
| Ojo Alamo | 775 | |
| Kirtland | 885 | |
| Fruitland | 1620 | |
| Pictured Cliffs | 1872 | |
| Chacra | 2450 | |
| Cliff House | 3450 | |
| Point Lookout | 4207 | |
| Gallup | 5428 | |
| Greenhorn(Base) | 6262 | |
| Dakota | 6295 | |

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636
837-497

871-233

Union Texas Petroleum Corporation
Angel Peak "B" No. 24-E
1680 ft./S; 850 ft./E line
Sec. 13, T28N, R11W
San Juan County, New Mexico



Item No. 31 and No. 32
Perforation and Fracture Record

Lower Gallup

Perforations: 5815, 20, 30, 40, 50, 55, 64, 74, 83, 92, 98, 5904, 12, 18, 22, 38, 48, 60, 69, 75, 81, 89, 98, 6004, 10, 14, 22, 32, 42, 51. (Total of 30 - 0.40" holes)

Spotted 300 gallons of 7-1/2% HCl across perforations.
Broke down perforations and acidized with 1500 gallons of 7-1/2% HCl and ball sealers.
Pumped 6500 lb. of 20-40 sand into formation - well screened off.
Acidized with 1500 gallons of 7-1/2% HCl and ball sealers.
Frac'd. with 155,750 gallons of 75 quality foam and 90,000 lb. of 20-40 sand.

Middle Gallup

Perforations: 5644, 50, 56, 60, 66, 70, 74, 80, 86, 88, 92, 99, 5706, 10, 14, 17, 24, 27, 32, 34, 37, 44, 47, 51, 55, 60, 64, 70, 74, 80. (Total of 30 - 0.40" holes)

Spotted 300 gallons of 7-1/2% HCl across perforations.
Broke down perforations and acidized with 1500 gallons of 7-1/2% HCl and ball sealers.
Frac'd. Middle Gallup zone with 170,360 gallons of 75 quality foam and 100,000 lb. of 20-40 sand.

Upper Gallup

Perforations: 5431, 35, 39, 42, 47, 54, 62, 68, 74, 81, 88, 96, 5502, 07, 11, 18, 25, 32, 38, 43, 52, 62, 68, 78, 83, 90, 94, 5602, 06. (Total of 29 - 0.40" holes)

Spotted 200 gallons of 7-1/2% HCl across perforations.
Broke down perforations and acidized with 1600 gallons of 7-1/2% HCl and ball sealers.
Frac'd. with 129,000 gallons of 70 quality foam and 112,500 lb. of 20-40 sand.

Form 9-330
(Rev. 5-68)

# 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.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED

5. LEASE DESIGNATION AND SERIAL NO.: SF 047017 B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

8. FARM OR LEASE NAME: Angel Peak "B"

2. NAME OF OPERATOR: Union Texas Petroleum Corporation

9. WELL NO.: 24-E

3. ADDRESS OF OPERATOR: P.O. Box 808, Farmington, New Mexico 87499

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1680 ft./S; 850 ft./E line
At top prod. interval reported below: Same as above
At total depth: Same as above

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 13, T28N, R11W N.M.P.M.

RECEIVED MAR 25 1983 U.S. GEOLOGICAL SURVEY FARMINGTON, N. M.

14. PERMIT NO. | DATE ISSUED

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

| 15. DATE SPUDDED | 16. DATE T.D. REACHED | 17. DATE COMPL. (*Ready to prod.*) | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* | 19. ELEV. CASINGHEAD |
|---|---|---|---|---|
| 12/19/82 | 1/3/83 | 1/31/83 | 5850 R.K.B. | 5838 |

| 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 |
|---|---|---|---|---|---|
| 6576 MD & TVD | 6518 MD & TVD | 2 | → | 0-6576 | ---- |

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 6300 - 6419 Dakota (MD & TVD)

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: D.I.L., Comp. Dens., Comp. Neutron

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" | 48.00 | 280 | 17" | See Reverse Side | |
| 9-5/8" | 40.00 | 5390 | 12-1/4" | See Reverse Side | |
| 7" | 23.00 | 5211 - 6569 | 8-1/2" | See Reverse Side | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) |
|---|---|---|---|---|
| 7", 23.00# | 5211 | 6569 | | |

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|
| 2-3/8", E.U.E. | 6375 | 6150 |

31. PERFORATION RECORD (*Interval, size and number*)
1 - 0.40" hole at each of the following depths: 6300,01,02,22,23,24,25,77,78,79,80,81,82,83, 84,85,86,89,90,94,95,96,97,99,6403,04,05,08, 12,18,19. (Total of 31 holes)

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---|---|
| 6300-6419 | 1625 gal. 15% HCl, 86,000 lb. of 20-40 sand, 86,000 gal. of slick KCl water, and 1,790,000 SCF of Nitrogen. |

33.* PRODUCTION

| DATE FIRST PRODUCTION | PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*) | WELL STATUS (*Producing or shut-in*) |
|---|---|---|
| 2/2/83 | Flowing | Shut-In |

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD → | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|---|---|---|---|---|---|---|---|
| 3/22/83 | 3 | 3/4" | → | | 46 | | |

| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE → | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |
|---|---|---|---|---|---|---|
| 20 | ---- | → | | 367 | | |

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

TEST WITNESSED BY: Clifton Gates

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 Kenneth E. Roddy (Kenneth E. Roddy) TITLE Area Production Supt. DATE March 23, 1983

ACCEPTED FOR RECORD
MAY 05 1983
FARMINGTON DISTRICT

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

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.
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**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.
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**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.)

13-3/8" Casing: Cemented with 360 cu. ft. of class "B" with 3% $CaCl_2$ and 1/4 lb. of Flocele per sack.
9-5/8" Casing: Cemented first stage with 1675 cu. ft. of 65-35 Pozmix with 6% gel, 12-1/2 lb. of gilsonite per sack, 1/4 lb. of cello flakes per sack and 118 cu. ft. of class "B" with 2% $CaCl_2$. Cemented second stage with 920 cu. ft. of 65-35 Pozmix with 12% gel, 1/4 lb. of cello flakes per sack, 12-1/2 lb. of gilsonite per sack, and 118 cu. ft. of class "B" with 2% $CaCl_2$.
7" Casing: Cemented with 225 cu. ft. of 50-50 Pozmix with 2% gel, 18% salt, 0.5% CFR-2, 0.6% Halad-9.

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. |
|---|---|---|---|

38. GEOLOGIC MARKERS

| NAME | TOP MEAS. DEPTH | TOP TRUE VERT. DEPTH |
|---|---|---|
| Ojo Alamo | 775 | |
| Kirtland | 885 | |
| Fruitland | 1620 | |
| Pictured Cliffs | 1872 | |
| Chacra | 2450 | |
| Cliff House | 3450 | |
| Point Lookout | 4207 | |
| Gallup | 5428 | |
| Greenhorn(base) | 6262 | |
| Dakota | 6295 | |

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