

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NO. SF-078200 | | | | | | | | | | | | | | | | | | | |
|--|----------------------------------|---|---------------|---------------------------------|----------------------------------|-----------------|---------------|--|---------------|-------------|---|---------|--------|--------------------------|--|-------------|----------|-------|-------|---------------------------|--|
| b. TYPE OF COMPLETION: NEW <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/> | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | | | | | | | | | | | | | | | | | | | |
| 2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY | | 7. UNIT AGREEMENT NAME | | | | | | | | | | | | | | | | | | | |
| 3. ADDRESS AND TELEPHONE NO. P.O. BOX 3092, Houston, TX | | 8. FARM OR LEASE NAME, WELL NO. W. H. Riddle #1B | | | | | | | | | | | | | | | | | | | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 2480' FSL 1440' FWL At top prod. interval reported below At total depth | | 9. API WELL NO. 3004529717 | | | | | | | | | | | | | | | | | | | |
| 14. PERMIT NO. | | 10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde | | | | | | | | | | | | | | | | | | | |
| 15. DATE SPUDDED 12/21/1998 | | 11. COUNTY OR PARISH San Juan | | | | | | | | | | | | | | | | | | | |
| 16. DATE T.D. REACHED 12/27/1998 | | 12. STATE New Mexico | | | | | | | | | | | | | | | | | | | |
| 17. DATE COMPL. (Ready to prod.) 02/02/1999 | | 13. ELEV. CASINGHEAD 6331' G L | | | | | | | | | | | | | | | | | | | |
| 18. ELEVATIONS OF RKB, RT, GR, ETC.) | | 19. ELEV. CASINGHEAD | | | | | | | | | | | | | | | | | | | |
| 20. TOTAL DEPTH, MD & TVD 5701 | | 21. PLUG, BACK T.D., MD & TVD 5665' | | | | | | | | | | | | | | | | | | | |
| 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)* BLANCO MESAVERDE 4585' - 5425' | | 25. WAS DIRECTIONAL SURVEY MADE NO | | | | | | | | | | | | | | | | | | | |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN CBL, TDT | | 27. WAS WELL CORED N | | | | | | | | | | | | | | | | | | | |
| 28. CASING RECORD (Report all strings set in well) | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>CASING SIZE/GRADE</th><th>WEIGHT, LB./FT.</th><th>DEPTH SET (MD)</th><th>HOLE SIZE</th><th>TOP OF CEMENT, CEMENTING RECORD</th><th>AMOUNT PULLED</th></tr></thead><tbody><tr><td>9.625" K-55</td><td>36#</td><td>279'</td><td>12.25"</td><td>145 SXS CLS B TO SURFACE</td><td></td></tr><tr><td>7.000" K-55</td><td>20 & 23#</td><td>3100'</td><td>8.75"</td><td>415 SXS CLS B LEAD & TAIL</td><td></td></tr></tbody></table> | | | | CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED | 9.625" K-55 | 36# | 279' | 12.25" | 145 SXS CLS B TO SURFACE | | 7.000" K-55 | 20 & 23# | 3100' | 8.75" | 415 SXS CLS B LEAD & TAIL | |
| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED | | | | | | | | | | | | | | | | |
| 9.625" K-55 | 36# | 279' | 12.25" | 145 SXS CLS B TO SURFACE | | | | | | | | | | | | | | | | | |
| 7.000" K-55 | 20 & 23# | 3100' | 8.75" | 415 SXS CLS B LEAD & TAIL | | | | | | | | | | | | | | | | | |
| 29. LINER RECORD | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>SIZE</th><th>TOP (MD)</th><th>BOTTOM (MD)</th><th>SACKS CEMENT*</th><th>SCREEN (MD)</th></tr></thead><tbody><tr><td>4.500"</td><td>2896</td><td>5701</td><td>300 sxs</td><td></td></tr></tbody></table> | | | | SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | 4.500" | 2896 | 5701 | 300 sxs | | | | | | | | | |
| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | | | | | | | | | | | | | | | | | |
| 4.500" | 2896 | 5701 | 300 sxs | | | | | | | | | | | | | | | | | | |
| 30. TUBING RECORD | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>SIZE</th><th>DEPTH SET (MD)</th><th>PACKER SET (MD)</th></tr></thead><tbody><tr><td>2 3/8"</td><td>4592'</td><td></td></tr></tbody></table> | | | | SIZE | DEPTH SET (MD) | PACKER SET (MD) | 2 3/8" | 4592' | | | | | | | | | | | | | |
| SIZE | DEPTH SET (MD) | PACKER SET (MD) | | | | | | | | | | | | | | | | | | | |
| 2 3/8" | 4592' | | | | | | | | | | | | | | | | | | | | |
| PERFORATION RECORD (Interval, size, and number) | | | | | | | | | | | | | | | | | | | | | |
| 1. 5025' - 5425' w/ JSPF .300 inch diameter; total 18 shots | | | | | | | | | | | | | | | | | | | | | |
| 2. 4585' - 4956' w/ JSPF .300 inch diameter; total 18 shots | | | | | | | | | | | | | | | | | | | | | |
| 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>DEPTH INTERVAL (MD)</th><th>AMOUNT AND KIND OF MATERIAL USED</th></tr></thead><tbody><tr><td>5024</td><td>5425</td><td>70% quality foam, 1165 bbls water w/150431# 16/30 Arizona sand</td></tr><tr><td>4585</td><td>4956</td><td>1077 bbls water, 1495 SCF N2 w/141877# 16/30 Arizona sand</td></tr></tbody></table> | | | | DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED | 5024 | 5425 | 70% quality foam, 1165 bbls water w/150431# 16/30 Arizona sand | 4585 | 4956 | 1077 bbls water, 1495 SCF N2 w/141877# 16/30 Arizona sand | | | | | | | | | | |
| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED | | | | | | | | | | | | | | | | | | | | |
| 5024 | 5425 | 70% quality foam, 1165 bbls water w/150431# 16/30 Arizona sand | | | | | | | | | | | | | | | | | | | |
| 4585 | 4956 | 1077 bbls water, 1495 SCF N2 w/141877# 16/30 Arizona sand | | | | | | | | | | | | | | | | | | | |
| 33.* PRODUCTION | | | | | | | | | | | | | | | | | | | | | |
| DATE FIRST PRODUCTION 02/01/1999 | | PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) Flowing | | | | | | | | | | | | | | | | | | | |
| DATE OF TEST 02/02/1999 | | WELL STATUS (Producing or shut-in) SI | | | | | | | | | | | | | | | | | | | |
| HOURS TESTED 12 hrs | | CHOKE SIZE 3/4" | | | | | | | | | | | | | | | | | | | |
| PROD'N FOR TEST PERIOD | | OIL - BBL. Trace | | | | | | | | | | | | | | | | | | | |
| FLOW TUBING PRESS N/A | | GAS - MCF. 2.4MMCF | | | | | | | | | | | | | | | | | | | |
| CASING PRESSURE 150# | | WATER - BBL. 0 | | | | | | | | | | | | | | | | | | | |
| CALCULATED 24-HOUR RATE | | OIL GRAVITY - API (CORR.) | | | | | | | | | | | | | | | | | | | |
| OIL - BBL. | | GAS - MCF. | | | | | | | | | | | | | | | | | | | |
| WATER - BBL. | | OIL GRAVITY - API (CORR.) | | | | | | | | | | | | | | | | | | | |
| 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 Mary Corley TITLE Sr. Business Analyst

ACCEPTED FOR RECORD
DATE 02-16-1999

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

Tide 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.

NMCCD

FARMINGTON FIELD OFFICE
BY Sm

FEB 18 1999

W. H. Riddle #1B

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. | TOP | | |
|-----------------|------|--------|-----------------------------|------|-------------|------------------|
| | | | | NAME | MEAS. DEPTH | TRUE VERT. DEPTH |
| Ojo Alamo | 1661 | | | | | |
| Kirtland | 1811 | | | | | |
| Fruitland Coal | 2421 | | | | | |
| Pictured Cliffs | 2961 | | | | | |
| Lewis Shale | 3031 | | | | | |
| Cliff House | 4476 | | | | | |
| Menefee | 4726 | | | | | |
| Point Lookout | 5201 | | | | | |
| Mancos | 5501 | | | | | |

W. H. RIDDLE #1B
COMPLETION SUBSEQUENT REPORT
2/16/99

1/2/99 MIRUSU to run logs from 5610' to 5701' for total depth control. NU TBG Head and Frac valve - pressure test CSG to 3000#. Held OK.

RU & Perf 1st stage at 5425'; 5321'; 5314'; 5292'; 5279'; 5264'; 5251'; 5234'; 5228'; 5222'; 5214'; 5162'; 5153'; 5138'; 5128'; 5065'; 5052'; & 5025' with 1 JSPF, .300 inch diameter, total 18 shots fired. RU & breakdown formation. Formation broke after 1000 GALS of 15% acid - at 2000#. Dropped 36 ball sealers. Had complete ball off.

Frac 1st stage with 70% quality foam and 1165 BBLS of water with 150,431 # of 16/30 Arizona sand. RU to flow back starting with 1/4" choke at 400#. Flow frac with 1/2" choke. FCP 375#. Upsize choke to 3/4". Flowing CSG pressure for 17 hrs 200#. RU & set CIBP At 5000'. Pressure test to 2000#. Held OK.

RU & perf 2nd stage at 4956'; 4932'; 4912'; 4895'; 4755'; 4734'; 4726'; 4712'; 4692'; 4684'; 4672'; 4662'; 4654'; 4642'; 4630'; 4605'; 4598'; & 4585' with 1 JSPF, .300 inch diameter, total 18 shots fired. RU & breakdown formation. Formation broke at 1700#. Dropped 24 balls. Had good ball action.

Frac 2nd stage with 1077 BBLS of water & 1495 SCF of N2 & 141,877# of 16/30 Arizona sand. Start flowback with 1/4" choke at 1015# - all N2 foam. Flowback frac with 1/4" choke for 8 hrs. Upsize to 1/2" choke - FCP 130#. Flow well for total of 38 hrs. Well logged off. SI waiting for rig.

MIRUSU on 1/18/99. ND flowback tree & NU BOP & start tripping in with TBG. Unload hole with air. RU to flow well. Flow heavy fluid on 3/4" choke at 15#. TIH & tag sand at 4739'. Cleanout to 4970'. PU & flow well with full 2" open TBG to unload fluid. TIH & tag 12' of sand fill. C/O fill & PU. Blow well with air at 300 SCF/MIN to dry well. PU & flow well with 3/4" coke at 22#. Blow well around with air & drill up CIBP @ 5000'. TI PU TBG & tagged fill @ 5427'. C/O to PBD of 5450'. PU & flow well with 1/2" choke - FCP 280#, trace of water & oil. TIH & tag 12' fill. C/O to PBD. RU to flow well with 3/4" choke for weekend. Average FCP 170# with trace of water & oil.

RU & set Ret. BP at 3000'. Pressure test to 1000#. Held OK. Dump 5 gals sand on plug & RU to perf SQZ holes (4 shots) at 2780' for circ CMT on backside of 7". TIH with PKR & set @ 2500'. Tried to establish circ up backside to surface - would not circ. SDFN. RU & tried to circ backside. Unable to circ. Start CMT. Pumped 75 SXS and still no circ. SI well with 500# on CMT. Pressure test CMT to 500#. Held OK. Unseat PKR & TIH & tag CMT at 2767'. TOH with TBG & PKR.

RU & perf 4 SQZ holes at 2150'. SQZ holes - pumped total of 36 sxs class G CMT & tailed. W/50 sxs of neat CMT on backside of 7" CSG - no circ to surface. SI well. Job witnessed by Mike Wade with BLM. Run CBL from 2750' to 1900' - found TOC at 2170'. RU & reperf @ 2150'. TIH & set PKR @ 1950'. RU and pump water ahead to establish circ - OK. Start CMT & circ 33 BBLS of CMT to surface - pumped 257 sxs of Class G CMT & tailed with 50 sxs of neat CMT. Job witnessed by Mike Wade.

TOH with TBG & PKR. TIH with Bit & TBG tag CMT @ 2126'. Drill out and fell free @ 2172'. Pressure test to 500#. Held OK. TIH & tag @ 2757'. Drill out & fell free @ 2805'. Pressure test Held OK. TIH & retrieve BP. TOH with TBG & plug. TIH with BHA & TBG. Tag 20' fill on bottom. RU & C/O with air to 5665' PBD. PU above perfs & flowed well overnight with 3/4" choke. TIH with 2 3/8" tubing. Land @ 4592'. Flowed well up tubing on 3/4" choke for 12 hrs. 150# CP, 2.4 MMCF gas, trace oil & mist of water. Set pressure bombs, locked well in. SI Well

RCMOSU 14:00 hrs 2/2/99.