Form 3160-4 _ (November 1983) (formerly 9-330)

UNITED STATES

SUBMIT IN DUPLICATE.

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

(See other in-structions on reverse side)

| - o.m approved. | |
|--------------------|----------|
| Budget Bureau No. | 1004-013 |
| Expires August 31, | 1985 |

THASE DESIGNATION AND SERIAL NO.

| WELL CO | | | | | | | | | | ! | | |
|---|--|---|--|--|------------------------------------|--|--------------------------|--|--|--|--|--|
| | MPLETION | OR RECO | OMPLETIO | N REPOR | I AN | DdiO | <u>6</u> ം* ച | | | OTTEE OR TRIBE NAME | | |
| ia. TYPE OF WEL | LL: 01 | L GAS | | | | 7 P. | <u> </u> | 77. UNIT AGE | | .=" | | |
| b. TYPE OF COM | | ELL . WELL | X DRY | Other | | <u> </u> | | T. CRIT AG | EENEN | T NAME | | |
| NEW X | work 🗂 pr | 97.5 | DIFF. RESVR. | | | | / | S. FARM OR | I EASE | NAME | | |
| 2. NAME OF OPERAT | OVER L E | в Ш васк | LJ RESVICE | - "ID) | e G | | | | | i Coal 31 | | |
| | | & Producti | on Company | , IÑS | | - U | 1 440 | WELL NO | | T COAL JI | | |
| 3. ADDRESS OF OPE | | | | | ADD | 0 0 100 | | $\boldsymbol{\mathcal{P}}_1$ | | | | |
| P.O. Box | 2810 Far | mington, N | м 87499 | | | 6 199 | | 10. FIELD A | ND POO | DL, OR WILDCAT | | |
| 4. LOCATION OF WE | LL (Report locat | ion clearly and i | n accordance wit | h any Stae | uir mon | TRI I | 711/ | Basin | Frui | tland Coal | | |
| At surface 80 | 00' FSL, 8 | 00' FWL,Se | c.31, T26N | , R12W | | ST. 3 |)! V • . | 11. SEC., T., OR AREA | | OR BLOCK AND SURVEY | | |
| At top prod. int | terval reported b | elow | | | , –, | J., U | | Sec 31 | т2 | 6N, R12W | | |
| At total depth | | | API# | 30-045-28 |)-045-28482 | | | 540. 31 | , 12 | ON, KIZW | | |
| | | | 14. PERMIT | NO. | DATE | DATE ISSUED | | 12. COUNTY PARISH | OR | 13. STATE | | |
| | | | | | 1 | | | San Jua | n | NM | | |
| . DATE SPUDDED | 16. DATE T.D. | REACHED 17. D | ATE COMPL. (Rea | dy to prod.) | 18. ELEV | VATIONS (1 | DF, RKB, | RT, GR, ETC.)* | 19. | ELEV. CASINGHEAD | | |
| 12-17-90 | 12-19-90 | | -21-91 | | | 2' GLE | | | | | | |
| . TOTAL DEPTH, MD | 1 | UG, BACK T.D., MD | & TVD 22. IF | MULTIPLE COM | PL., | 23. INT | ERVALS LLED BY | ROTARY TO | ora | CABLE TOOLS | | |
| 1300' | | 260.19' | N | /A | | | → | X | | | | |
| . PRODUCING INTER | RVAL(8), OF THIS | S COMPLETION-T | OP, BOTTOM, NAM | E (MD AND TV | •)• | | | | 2 | 5. WAS DIRECTIONAL SURVEY MADE | | |
| 1130' - 1 | 150 | | | | | | | | | | | |
| | 110 | | | | | | | | | Yes | | |
| TYPE ELECTRIC A | AND OTHER LOGS | RUN | | | | | | | 27. V | VAS WELL CORED | | |
| Compensat | ed Density | y-Neutron | logs with | gamma ray | · . | | | |] | No | | |
| | | | SING RECORD | | | n well) | | | <u></u> | | | |
| CASING SIZE | WEIGHT, LB. | | SET (MD) | HOLE SIZE | | | IENTING | RECORD | | AMOUNT PULLED | | |
| 7" | 20# | 131 | .9' 8 | | See | exhi | bit " | A" attacl | ned | | | |
| 4-1/2" | 9.5# | 1296 | | -1/4" | See exhibit | | | | | <u></u> | | |
| | | | | | - | | _ | | | | | |
| | | | | ······································ | _ | | | | | | | |
| | | LINER RECOR | D | | <u> </u> | 30. | | TUBING REC | ORD | <u> </u> | | |
| | | | | | | SIZE | | DEPTH SET (MD | | PACKER SET (MD) | | |
| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMEN | T* SCREEN | (MD) | 3125 | 1 | DEPTH SET () | 10) | LVCVSV GRT (WD) | | |
| | TOP (MD) | BOTTOM (MD) | SACKS CEMEN | T* SCREEN | (MD) | | | · · · · · · · · · · · · · · · · · · · | | PACKER SEI (AD) | | |
| | TOP (MD) | BOTTOM (MD) | SACKS CEMEN | T* SCREEN | (MD) | 1-1/2 | | 1115 | | PACKER SEI (MD) | | |
| SIZE | | | SACKS CEMEN | SCREEN 32. | | 1-1/2 | 2" | · · · · · · · · · · · · · · · · · · · | | | | |
| | | | SACKS CEMEN | 32. | | 1-1/2 | , FRACT | 1115 ture, cemen | T SQU | | | |
| PERFORATION REC | CORD (Interval, s | ize and number) | | 32. | ACI | 1-1/2 | , FRACT | 1115 TURE, CEMEN | T SQU | EEZE, ETC. | | |
| SIZE PERFORATION REC | CORD (Interval, s | ize and number) | sacks cemen | 32. | ACI | 1-1/2 | 2", FRACT | 1115 TURE, CEMEN OUNT AND KINED W/ 131 | T SQU | EEZE, ETC. MATERIAL USED 40/70 Arizona | | |
| SIZE PERFORATION REC | CORD (Interval, s | ize and number) | | 32. | ACI | 1-1/2 | Frace | 1115' URE. CEMEN OUNT AND KIN ed w/ 131 52,790# | T SQU OF 4 | EEZE, ETC. MATERIAL USED 40/70 Arizona /10 Arizona | | |
| SIZE PERFORATION REC | CORD (Interval, s | ize and number) | | 32. | ACI | 1-1/2 | Frace | 1115 TURE, CEMEN OUNT AND KINED W/ 131 | T SQU OF 4 | EEZE, ETC. MATERIAL USED 40/70 Arizona /10 Arizona | | |
| SIZE PERFORATION REC 1130' - 115 | CORD (Interval, s | ize and number) | 30 holes | 32. | ACI | 1-1/2 | Frace | 1115' URE. CEMEN OUNT AND KIN ed w/ 131 52,790# | T SQU OF 4 | EEZE, ETC. MATERIAL USED 40/70 Arizona /10 Arizona | | |
| PERFORATION REC | CORD (Interval, s | ize and number) | 30 holes | 32. DEPTH: 1130' | ACINTERVAL | 1-1/2 | Fracesand, | 1115 TURE CEMEN OUNT AND KIN ed w/ 131 , 52,790 # | T SQU ND OF 0# 4 12/ bls | EEZE, ETC. MATERIAL USED 40/70 Arizona /10 Arizona | | |
| PERFORATION REC | CORD (Interval, 8 | ize and number) | 30 holes | 32. DEPTH: 1130' | ACINTERVAL | 1-1/2 | Fracesand, | 1115 TURE. CEMEN OUNT AND KIND | T SQU ND OF : 0# 4 12/ bls | EEZE, ETC. MATERIAL USED 40/70 Arizona /10 Arizona slurry. B (Producing or | | |
| PERFORATION REC | CORD (Interval, 8 | ize and number) | Proping, gas lift | RODUCTION t, pumping—six | ACINTERVAL -1150 | 1-1/2 | Frace sand, sand, | 1115 TURE. CEMEN OUNT AND KIND | T SQU ND OF 1 0# 4 12/ bls | EEZE, ETC. MATERIAL USED 40/70 Arizona /10 Arizona slurry. B (Producing or | | |
| PERFORATION REC | ion PROD | ize and number) | 30 holes Properties of the second se | RODUCTION t, pumping—six | ACINTERVAL -1150 | 1-1/2 IID. SHOT (MD) | Frace sand, sand, | TURE CEMEN OUNT AND KIN ed w/ 131 , 52,790# , & 574 b | T SQU ND OF 1 0# 4 12/ bls | EEZE, ETC. MATERIAL USED 40/70 Arizona 710 Arizona slurry. B (Producing or iting on PL corrections) | | |
| PERFORATION REC | TORD (Interval, 8 | ize and number) 40" CUCTION METHOD DWING CHOKE SIZE 3/4" RE CALCULATE | PROD'N. FOI TEST PERIO | RODUCTION t, pumping—size OIL—BBL | ACINTERVAL -1150 | 1-1/2 ID, SHOT (MD) | Frace sand, sand, | TURE CEMEN FOUNT AND KIN Ed W/ 131 FOUNT STATE WELL SAM SI - WATER—BBI 3.5 | T SQU ND OF 1 12/ bls STATU tt-in) wai | EEZE, ETC. MATERIAL USED 40/70 Arizona /10 Arizona slurry. B (Producing or iting on PL co | | |
| PERFORATION REC | ION PROD HOURS TESTED 24 CASING PRESSU | ize and number) 40" OUCTION METHOD OWING CHOKE SIZE 3/4" | PROD'N. FOI TEST PERIO | RODUCTION t, pumping—size Coll—BBL Coll—GAS | ACINTERVAL -1150 ze and ty | 1-1/2 IID. SHOT (MD) | Frace sand, sand, | TURE CEMEN FOUNT AND KIN Ed W/ 131 FOUNT STATE WELL SAM SI - WATER—BBI 3.5 | T SQU ND OF 0# 4 12/ bls | EEZE, ETC. MATERIAL USED 40/70 Arizona 10 Arizona slurry. B (Producing or ting on PL c. GAS-OIL RATIO N/A RAVITY-API (CORE.) | | |
| PERFORATION REC | ION PROD HOURS TESTED 24 CASING PRESSU | ize and number) 40" CUCTION METHOD Wing CHOKE SIZE 3/4" RE CALCULATE: 24-HOUR RE | PROD'N. FOI TEST PERIO OIL.—BBL. | RODUCTION t, pumping—size Coll—BBL Coll—GAS | ACINTERVAL -1150 | 1-1/2 IID. SHOT (MD) | Frace sand, sand, | TURE CEMEN FOUNT AND KIN Ed W/ 131 FOUNT STATE WELL SAM SI - WATER—BBI 3.5 | T SQU ND OF 0# 4 12/ 12/ 12/ 12/ 12/ 12/ 12/ 12/ | EEZE, ETC. MATERIAL USED 40/70 Arizona 10 Arizona slurry. B (Producing or ting on PL c. GAS-OIL RATIO N/A RAVITY-API (CORE.) | | |
| PERFORATION REC | TORD (Interval, 8 | ize and number) 40" CUCTION METHOD Wing CHOKE SIZE 3/4" RE CALCULATE: 24-HOUR RE | PROD'N. FOI TEST PERIO OIL.—BBL. | RODUCTION t, pumping—size Coll—BBL Coll—GAS | ACINTERVAL -1150 ze and ty | 1-1/2 IID. SHOT (MD) | Frace sand, sand, | URE, CEMEN OUNT AND KIN ed w/ 131 , 52,790# , & 574 b | T SQU ND OF 0# 4 12/ 12/ 12/ 12/ 12/ 12/ 12/ 12/ | EEZE, ETC. MATERIAL USED 40/70 Arizona 10 Arizona slurry. B (Producing or ting on PL c GAS-OIL RATIO N/A RAVITY-API (CORE.) | | |
| PERFORATION REC 1130' - 115 THE FIRST PRODUCTS 3-21-91 THE OF TEST 3-22-91 TW. TUBING PRESS. 3psi | TORD (Interval, 8 | ize and number) 40" CUCTION METHOD Wing CHOKE SIZE 3/4" RE CALCULATE: 24-HOUR RE | PROD'N. FOI TEST PERIO OIL.—BBL. | RODUCTION t, pumping—size Coll—BBL Coll—GAS | ACINTERVAL -1150 ze and ty | 1-1/2 IID. SHOT (MD) | Frace sand, sand, | URE, CEMEN OUNT AND KIN ed w/ 131 , 52,790# , & 574 b | T SQU ND OF 0# 4 12/ 12/ 12/ 12/ 12/ 12/ 12/ 12/ | EEZE, ETC. MATERIAL USED 40/70 Arizona 10 Arizona slurry. B (Producing or ting on PL companies of the production o | | |
| PERFORATION REC | TORD (Interval, 8 | ize and number) 40" CUCTION METHOD Wing CHOKE SIZE 3/4" RE CALCULATE: 24-HOUR RE | PROD'N. FOI TEST PERIO OIL.—BBL. | RODUCTION t, pumping—size Coll—BBL Coll—GAS | ACINTERVAL -1150 ze and ty | 1-1/2 IID. SHOT (MD) | Frace sand, sand, | URE, CEMEN OUNT AND KIN ed w/ 131 , 52,790# , & 574 b | T SQU ND OF 0# 4 12/ 12/ 12/ 12/ 12/ 12/ 12/ 12/ | EEZE, ETC. MATERIAL USED 40/70 Arizona 10 Arizona slurry. B (Producing or ting on PL companies of the production o | | |
| PERFORATION REC | TORD (Interval, 8 | ize and number) 40" CUCTION METHOD Wing CHOKE SIZE 3/4" RE CALCULATE 24-HOUR RA | PROD'N. FOI TEST PERIO OIL.—BBI OIL.—BBI TE OIL.—BBI | RODUCTION t, pumping—siz | ACINTERVAL -1150 ze and tyMcf. | I-1/2 IID. SHOT (MD) If pe of pun GAS—MG 256 | Fraces sand, sand, sand, | URE, CEMEN OUNT AND KIP ed w/ 131 52,790# SI - WATER-BBI 3.5 | T SQU ND OF 0# 4 12/ 12/ 12/ 12/ 12/ 12/ 12/ 12/ | EEZE, ETC. MATERIAL USED 40/70 Arizona 10 Arizona slurry. B (Producing or ting on PL companies of the production o | | |
| PERFORATION REC | TORD (Interval, 8 | ize and number) 40" CUCTION METHOD Wing CHOKE SIZE 3/4" RE CALCULATE 24-HOUR RA | Proping gas lift From Proping For Period Proping F | RODUCTION t, pumping—siz | ACINTERVAL -1150 ze and ty MCF. 56 | I-1/2 IID. SHOT (MD) If pe of pun GAS—MG 256 | Fraces sand, sand, sand, | URE, CEMEN OUNT AND KIP ed w/ 131 52,790# SI - WATER-BBI 3.5 | T SQU SD OF 0# 4 12/ bls STATU Wait-in) Wait-in) | EEZE, ETC. MATERIAL USED 40/70 Arizona 10 Arizona slurry. B (Producing or ting on PL companies of the production o | | |

| | TOP | TRUE VERT. DEPTH | | | 4 -4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | | | | | | | | |
|--|-----------------------------|---------------------|-------------------------|-----------------|---|-------------------------------------|-----------------|----------|-----------------|-------------|------------------|------|-----------------|
| GEOLOGIC MARKERS | T | MEAS, DEPTH | | | | | | | | | | | |
| | | NAME | | | | | | | | | | | |
| all 38. | | | | | | - · · · · · · · · · · · · · · · · · | | | | | , | | |
| and contents thereof; cored intervals; and all tool open, flowing and shut-in pressures, and | DESCRIPTION, CONTENTS, ETC. | | | | | | | | | | | | |
| ones of porosity and co | DESCE | | | | | | | | | | | | |
| ow all important z erval tested, cusi | BOTTOM | | | | | | | | | | | | |
| OUS ZONES: (Sh cluding depth int | TOP | 1005 | 1128' | 1178' | | | | | | | | | |
| 37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity drill-stem, tests, including depth interval tested, cushion used, time recoveries): | FORMA' 10N | Fruitland | Basal Freitland Coal | Pictured Cliffs | *************************************** | | | tate a m | | | | | |

GIANT EXPLORATION & PRODUCTION COMPANY NORTH BISTI COAL 31 WELL NO. 1 800' FSL, 800' FWL SEC. 31, T26N, R12W LEASE NO. SF 078056 SAN JUAN COUNTY, NEW MEXICO EXHIBIT "A"

CEMENTING RECORD

Surface Casing

- Mixed and pumped 60 sks. (70.8 cu. ft.) of Class "B" cement containing 2% CaCl2 and 1/4#/sk. cellophane flakes. Cement circulated to surface.

Production Casing - Mixed and pumped 70 sks. (144.2 cu. ft.)
Class "B" cement containing 2%
Thriftyment and 1/4#/sk. cellophane
flakes. Tailed in with 75 sks. (88.5 cu.
ft.) Class "B" cement containing 2% CaCl2
and 1/4#/sk. cellophane flakes. Cement
circulated to surface.