| Form<br>(F | Form 9-331 a.<br>(Feb. 1951) |  |  |  |  |  |
|------------|------------------------------|--|--|--|--|--|
|            |                              |  |  |  |  |  |
|            |                              |  |  |  |  |  |

## (SUBMIT IN TRIPLICATE)

| Land Off | ice . S | iante | Fe |      |
|----------|---------|-------|----|------|
| Lease No | •       | CLASS | 73 |      |
| •• ••    |         | Juan  |    | Unit |

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

| SUBSQUENT REPORT OF WATER SHUT-OFF.  SUBSQUENT REPORT OF SACTING OR ACIDIZING.  SUBSQUENT REPORT OF SACTING OR ACIDIZING.  SUBSQUENT REPORT OF SACTING OR REPAIR.  SUBSQUENT REPORT OF ACTING OR ACIDIZING.  SUBSQUENT REPORT OF ACTING OR REPAIR.  SUBSQUENT REPORT OF ACTING OR REPAIR.  SUBSQUENT REPORT OF ACTING OR REPAIR.  SUBSQUENT REPORT OF RADROMENT.  SUBSQUENT REPORT OF RADROMENT.  SUBSQUENT REPORT OF RADROMENT.  SUBSQUENT REPORT OF RADROMENT.  SUPPLEMENTARY WELL HISTORY.  SUBSQUENT REPORT OF RADROMENT.  SUPPLEMENTARY WELL HISTORY.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 19.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 19.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 19.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 24.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 24.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 24.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 24.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 24.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 24.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 24.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 24.  [Indicate MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  JULY 24.  [Indicate MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  [Indicate MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  [Indicate MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  [Indicate MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  [Indicate MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  [Indicate MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  [Indicate MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  [Indicate MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  [Indicate MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  [Indicate MARK NATURE OF | OF INTENTION TO CHANGE PLANS   | 1                |
|--|--|------------------|
| SUBSEQUENT REPORT OF ALTERING CASING.  SUBSEQUENT REPORT OF REPORT.  SUBSEQUENT REPORT.  SUBSEQUENT REPORT OF REPORT.  SUBSEQUENT | OF INTENTION TO TEST WATER SHUT-OFF  | İ                |
| Subsequent report of Re-Orillog Repair well subsequent report of Re-Orillog Repair of Adandonment Supplementary well history worked of intention to pull or alter casing Supplementary well history worked of intention to adandon well.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)  July 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OF ABADOMMENT.  SUPPLEMENTARY WELl HISTORY  SUPPLEMENTARY WELL HISTORY  JULY 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OF ABADOMMENT.  SUPPLEMENTARY WELL HISTORY  JULY 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OF ABADOMMENT.  SUPPLEMENTARY WELL HISTORY  JULY 24 196  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OF ABADOMMENT.  JULY 25 196  JULY 26 196  JULY 26 196  JULY 27 196  JULY 28 196  JULY  | OF INTENTION TO RE-DRILL OR REPAIR WELL  | 1                |
| Subsequent Report of Abandonment.  Supplementary well history.  (Indicate above by check mark nature of report, notice, or other data)  July 24  | OF INTENTION TO SHOOT OR ACIDIZE   |                  |
| Supplementary well history.  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24  (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24  July 25  (Responsible of Section of the first of Section of Sectio | OF INTENTION TO PULL OR ALTER CASING SUPPLEMENTARY WELL HISTORY  | ı                |
| (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24:  July 25:  July 26:  July 27:  July 26:  July 27:  July 28:  July 27:  July 28:  July | OF INTENTION TO FOLL ON ALLEN ON ALLEN OF INTENTION TO FOLL ON ALLEN OF INTENTION TO FOLL ON ALL | i                |
| (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)  July 24  | THE INTENTION IS ARRESTN WELL  |                  |
| ell No. 31 is located 610 ft. from S line and 600 ft. from W line of sec. 7.  W. Section 27-N 4-W 3.M. Fi  (No. Sec. and Sec. No.) (Twp.) (Range) (Meridian)  (Manco Mee. Verde Rio Arriba Rev Mexico  (State or Territory)  The elevation of the derrick floor above sea level is ft.  DETAILS OF WORK  ate names of and expected dopths to objective sands, show sizes, weights, and lengths of proposed casings; indicate mudding jobs, caming points, and all other important proposed work)  Brudded 7-11-61, Total Depth 176's, on 7-11-61.  In 5 joints of 9 5/8" 32.3 casing (162') set at 176'.  Consented with 17c sacks 50/50 poznix, 25 iA-5 circulated to surface.  In 7-17-61, total depth 320'.  Ren 121 joints 7" 20f J-55 casing (3805') set at 3820'.  Consented with 70 sacks regular, 15 gel, 1 cu. st. Strata-  Trete"6"/sk with 50 sacks regular, . Reld 1500#/30 minutes.  I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commanded with 70 sacks regular, . Reld 1500#/30 minutes.   | or interview to remove the second sec |                  |
| is located \$10 ft. from soline and \$10 ft. from soline of sec. 7.  W. Section 27-N 4-W N.H. Fti  (4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  Lanco Mesa Verde Rio Arriba New Mexico  (County or Subdivision) (State or Territory)  the elevation of the derrick floor above sea level is  DETAILS OF WORK  ate names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cern ing points, and all other important proposed work)  and 5 joints of 9 5/8" 32.3" casing (162') set at 176'.  consented with 17c sacks 50/50 pozmix, 25 ila-5 circulated to surface.  and 7-17-61, total depth 3820'.  ten 121 joints 7" 20f J-55 casing (3805') set at 3820'.  consented with 70 sacks regular, by sel, 1 cu. ft. Strata-  rete"6"/sk with 50 sacks regular, Reld 1500#/30 minutes.  I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced ompany  11 Pesso Hatural Gas Company  ddress Box 970  | (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)   |                  |
| lell No. 31 is located S10 ft. from S line and 90 ft. from W line of sec. 7.  W. Section 27-N 4-W N.H. Fti  (4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  Denco Mesa Verde Rio Arriba (Country or Subdivision) (State or Territory)  Dence Mesa Verde Rio Arriba (Country or Subdivision) (State or Territory)  Details of WORK  ate names of and expected dupths to objective ands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cern ing points, and all other important proposed work)  Details of WORK  ate names of and expected dupths to objective ands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cern ing points, and all other important proposed work)  Details of WORK  ate names of and expected dupths to objective ands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cern ing points, and all other important proposed work)  Details of WORK  ate names of and expected dupths to objective ands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cern ing points, and all other important proposed work)  Touth of the derick floor above sea level is  Details of WORK  ate names of and expected dupths to objective ands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cern ing points, and lengths of proposed casings; indicate mudding jobs, cern ing points, and lengths of proposed casings; indicate mudding jobs, cern ing points, and lengths of proposed casings; indicate mudding jobs, cern ing points, and lengths of proposed casings; indicate mudding jobs, cern ing points, and lengths of proposed casings; indicate mudding jobs, cern ing points, and lengths of proposed casings; indicate mudding jobs, cern ing points, and lengths of proposed casings; indicate mudding jobs, cern ing points, and lengths of proposed casings; indicate mudding jobs, cern ing points, and lengths of proposed casings; indicate mudding jobs, cern ing points, and lengths of proposed casings; indicate mudding jobs, cern  | Julyzk   | 19 <sup>.6</sup> |
| Ranco Mess Verde  Rio Arriba (County or Subdivision)  Rev Mexico (State or Territory)  The elevation of the derrick floor above sea level is  DETAILS OF WORK  That names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cemple of the proposed work)  Brudded 7-11-61, Total Depth 176', on 7-11-61.  Ran 5 joints of 9 5/8" 32.3 casing (162') set at 176'.  Consented with 170 sacks 50/50 pormix, 15 ilA-5 circulated to surface.  Held 600#/30 minutes.  On 7-17-61, total depth 3820'.  Ran 121 joints 7" 20# J-55 casing (3805') set at 3820'.  Consented with 70 sacks regular, 16 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 18 led 1500#/30 minutes.  I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced of the company of t | Section 27-N 4-W N.M.Ph  | of sec           |
| (County or Subdivision)  (State or Territory)  he elevation of the derrick floor above sea level is  | (% page and page 140.)   |                  |
| DETAILS OF WORK  tate names of and expected dupths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cem ing points, and all other important proposed work)  Spudded 7-11-61, Total Depth 176', on 7-11-61.  Ran 5 joints of 9 5/8" 32.3# casing (162') set at 176'.  Committed with 170 sacks 50/50 pozmix, 35 iM=5 circulated to surface.  Held 600#/30 minutes.  On 7-17-61, total depth 3820'.  Ran 121 joints 7" 20# J-55 casing (3805') set at 3820'.  Committed with 70 sacks regular, 5 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete"6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete "6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete "6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete "6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete "6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete "6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete "6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete "6"/sk with 50 sacks regular, 6 gel, 1 cu.ft. Strata-  Crete "6"/sk with 50 sacks regular, 6 gel, 1 cu.f | (State or Territor   | y)               |
| Rem 121 joints 7" 20f J-55 casing (3805') set at 3020'. Commented with 70 secks regular, of gel, 1 cu.ft. Strata- Crete"6"/sk with 50 secks regular. Reld 1500#/30 minutes.  I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.  Company  Company  CRISINAL SIGNE. A M. SWI   | ded 7-11-61, Total Depth 176', on 7-11-61.  5 joints of 9 5/8" 32.3 casing (162') set at 176'.  ated with 170 sacks 50/50 poznix, 25 HA-5 circulated to surface  |                  |
| Company Box 990  Address Box 990  CRIS.NAL SIGNEL A.M. SWII  | 121 joints 7' 20f J-55 casing (3005') set at 3020'.  Inted with 70 sacks regular, W gel, 1 cu.ft. Strats-  | JUL 271          |
| Address GRIG.NAL SIGNEL A.M. SWI   | _  | y be commenced.  |
| Original didices of the  | ally   |                  |
| and the contract of the contra | ess  | . AM. SKAT       |
|  | Onto little mane   |                  |