## SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 12-R1425.

## UNITED STATES

|     |  |  | ED STATES                  | reverse s   |                                  | 30-045-22937  |
|-----|--|--|----------------------------|---|----------------------------------|---|
|     |  | DEPARTMENT                             | OF THE INT                 | ERIOR   |                                  | 5. LEASE DESIGNATION AND SERIAL NO.   |
|     |  | GEOLO                                  | GICAL SURVEY               |   |                                  | SF 078510   |
|     | APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  |  |                            |   |                                  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  |
|     | 1a. TYPE OF WORK   | LL X                                   | DEEPEN 🗌                   | PLUG BA   | ск 🗌                             | 7. UNIT AGREEMENT NAME  |
|     | b. Type of well  | ,                                      |                            | SINGLE TO MULTH   | DIE (                            | Sight Street  |
|     | OIL GA<br>WELL WI<br>2. NAME OF OPERATOR   | S X OTHER                              | <del></del>                | SINGLE X MULTII   |                                  | 8. FARM OR LEASE NAME   |
|     |  | tald Compone                           |                            |   |                                  | Jacquez 9. WELL NO.   |
|     | Atlantic Richfield Company  Address of Operator  |  |                            |   |                                  | 1-A   |
|     | 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  |  |                            |   |                                  | 10. FIELD AND POOL, OR WILDCAT  |
| _   |  |  |                            |   |                                  | Blanco Mesaverde  |
| P   |  |  |                            |   |                                  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA                                  |
|     | Approx. same   |  |                            |   |                                  | Sec. 6-31N-8W   |
|     | 14. DISTANCE IN MILES A  | ND DIRECTION FROM NEA                  | BEST TOWN OR POST OF       | FICK*   | 12. COUNTY OR PARISH   13. STATE |   |
|     | Approx. 7 miles from La Boca, Colorado   |  |                            |   |                                  | San Juan New Mexico   |
|     | 15. BISTANCE FROM PROPO<br>LOCATION TO BEAREST<br>PROPERTY OR LEASE I.<br>(Also to nearly drig | SED* 850: f/Lse.                       | & Unit   16.               | it 16. NO. OF ACRES IN LEASE                            |                                  | OF ACRES ASSIGNED 321, 32   |
|     | (Also to nearset drig  | ine, fr.<br>. unit line, if any)       | Line                       | 2047.19   | _                                | eres - E/2 Sec. 6   |
|     | 18. DISTANCE FROM PROPE<br>TO NEAREST WELL, DE<br>OR APPLIED FOR, ON THI                       | OSED LOCATION* HILLING, COMPLETED, 344 | O f/Jacquez 19.            | Jacquez 19. PROPOSED DEPTH                              |                                  | RY OR CABLE TOOLS   |
|     | OR APPLIED FOR, ON THE   | then DE PT CR etc.)                    | esaverde)                  | 59501   | <u> </u>                         | Rotary  |
|     |  | mer 171, 111, (111, 110.)              |                            |   |                                  | 22. APPROX. DATE WORK WILL START* Dirt Work when app 1. re                        |
|     | 6470 GR   Est. March 16, 1978  |  |                            |   |                                  |   |
|     |  |  |                            |   | AM                               |   |
|     | SIZE OF HOLE   | SIZE OF CASING                         | WEIGHT PER FOOT            | SETTING DEPTH   | 200 =                            | QUANTITY OF CEMENT  |
|     | 1/1-3/1:" - 15"<br>8-3/1:"   | <u>9-5/8"</u>                          | 32.3#<br>20.0#             | 2001<br>37501   | 200 s                            |   |
| 17: | or) 6-1/8" 4-1/2"  |  | 11.6#                      | 3600' - T.D.  | 260 sx                           |   |
|     | Propose to dritest, stimula  | ill well to dep<br>te if necessary     | th sufficient, and complet | to test the Mes<br>e well in the Me                     | averde,<br>saverde               | , set liner, perforate,   |
|     | Pursuant NTL-  | 6, attached are                        | Drillin                    | ed Location Plat<br>g Plan w/attach.<br>Use and Operati |                                  | an w/attach.  |
| i   |  |  |                            |   |                                  | luctive zone and proposed new productive d and true vertical depths. Give bloweut |
|     |  | Halther Jr.                            | TITLE                      | Operations Mana   | ger                              | 2/13/78.  |
|     | PERMIT NO.   |  |                            | APPROVAL DATE   |                                  |   |
|     | APPROVED BYCONDITIONS OF APPROV  | At IV AVV                              | TITLE _                    |   |                                  | DATE  |
|     | () (II)  | ^ A                                    |                            |   |                                  | RECEIVE   |

\*See Instructions On Reverse Side

FEB 15 1978

U.S. Garrier

## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION FLAT

All distances must be from the outer boundaries of the Section Well No. Operator JACQUEZ 1 A THE ATLANTIC RICHFIELD COMPANY County Section 1 Township Range Unit Letter 6 31 NORTH 8 WEST SAN JUAN Actual Fostage Location of Well: 850 EAST feet from the 850 feet from the SOUTH line and Ground Level Elev. Producing Formation Dadicated Avereac 6470 Mesaverde Blanco Mesaverde 1. Outline the acerage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty), 3. If more than one lease of different awnership is dedicated to the well, have the interests of all awners been consolidated by communitization, unitization, force-pooling. etc? N/A - 100% Atlantic Richfield Company. If answer is "yes," type of consolidation ...... ) Yes ( ) No If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forcedpooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

## CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and ballet. uallalla Nome W. A. Walther, Jr Operations Manager Position SF-078510 Atlantic Richfield Company Atlantic Richfield Co Company E/2|Section 6-31N-8W February 8, 1978 San Juan County New Mexico I hereby certify that the well location shown o 1 this plat was platted from field notes of acres N surveys made by me or under my supervision, on i that the same is true and correct to the best of my ſ knowledge end belief.

FARMINGTON, N. M.

SCALE-4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY,

Certificate No. 1463

end/or Lend Surveyor James P. Leen.

Date Surveyed 23 January

Mostered Professional Engineer

JACQUEZ, WELL NO. 1-A SE SE Section 6-31N-8W San Juan County, New Mexico

1. Surface Formation: Tertiary - Wasatch

2. Geologic Markers: Oio Alamo - 1780' Pictured Cliffs - 3370'

- 3580' Lewis Shale - 50001 Mesaverde

- 57001 Point Lookout - 5900' Upper Mancos

Anticipated Mineral Bearing Formations: 3. Ojo Alamo - 17801 (Poss. Wtr.)

Pictured Cliffs - 3370' (Poss. Gas) Mesaverde - 5000' (Poss. Gas)

Point Lookout - 5700' (Poss. Gas)

Surface  $-200^{1\pm}$  9-5/8" OD 32.3# H-40 ST&C New Intermediate  $-3750^{1\pm}$  7" OD 20# K-55 ST&C New Casing Program: Surface

- 2350' ± 4-1/2" OD 11.6# K-55 ST&C New

Blowout Preventer - Ram Type, hydraulic operated Control Equipment:

Rams - Two: One blind ram & one pipe ram Series - 900 (3000# WP, 6000# TP) Manufacturer - Cameron or Shaffer

Pressure test @ 1000 psi prior to drilling out of casing string. Operational checks to be made

daily and on trips.

Rotating Head - Type 50 Shaffer, or equivalent.

Sketch attached.

6. Drilling Fluid: 0 - 2001 Gel and lime to drill surface hole and set casing.

200 - 3750' Gel-Chem to maintain hole and set intermediate casing.

3750 -TD Air drill

7. Auxiliary Equipment: Kelly Cock

Sub on floor with full opening valve for use in drill pipe when

kelly is not in the string.

Drill pipe float while air drilling.

8. Testing, Logging, Coring: At this time no drill stem tests or cores are planned. Hole conditions, or information obtained while drilling

may alter these plans.

Logs: Open Hole - Bottom of Intermediate to Surface Casing:

DIL W/SP 2" and 5" scales

5" scale FDC-CNL-GR

TD to btm of Intermediate Casing:

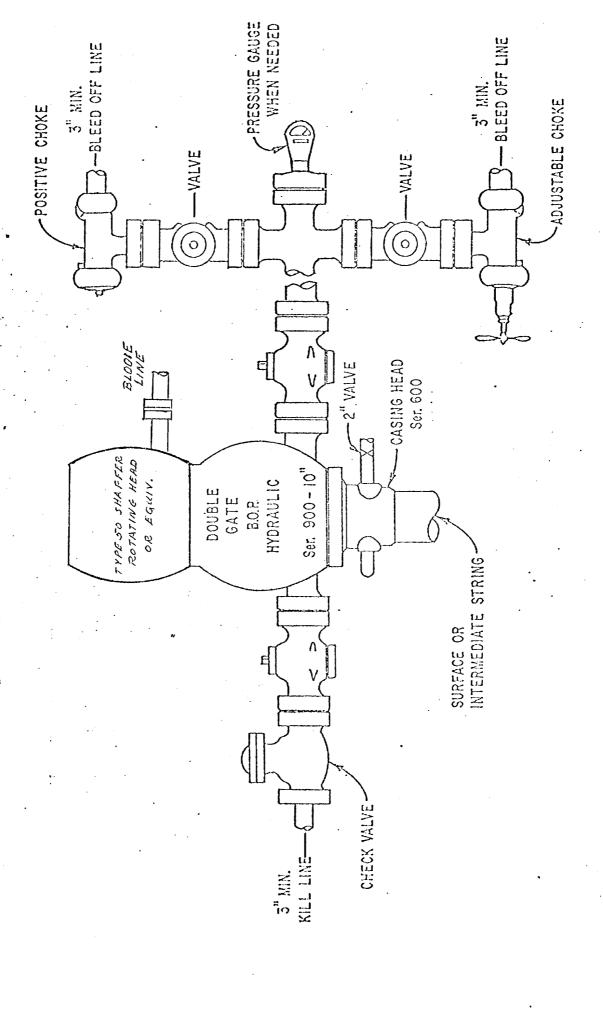
2" and 5" scales DIL-GR

5" scale FDC-SNP-GR

Cased Hole- Casing collar correlation log, CBL for Intermediate casing and liner.

- 9. Abnormal Pressures, Temperatures, Potential Hazards: There are no abnormal pressures, temperatures, or potential hazards in the area. The maximum anticipated pressure is 1000 psi. Weight material will be maintained on location and BOP will be pressure tested and kept in good working condition.
- 10. Starting Date - Completion: Building of the road and location will commence upon receipt of the District Engineers approval, requiring 7-10 days. Moving in and rigging up should require 4 days. Drilling to completion is estimated to require an additional 20 days, or a total time of 34 days. In the event of delays, the overall time could be considerably extended. Drilling operations possibly will not be commenced until sometime in May, 1978.

NTL-6 indicates a minimum of 30 days are required to obtain approval, in which case operations could not be commenced until about March 16, 1978.



JACQUEZ, WELL NO. 1-A SE SE Section 6-31N-8W San Juan County, New Mexico

- 1. Existing Roads: A portion of the Navajo Dam, N. Mex., Navajo Dam Quadrangle, map is attached with existing access roads colored "red". Main access would be from Blanco, N. M., approximately 15.5 miles east on State Hwy. 511 to Navajo Dam. From Navajo Dam proceed approximately 11.5 miles north and northwest on the "Ignacio Hwy." to a turn-off in the northern part of Section 33-32N-8W. Turn southwest approximately 1.8 miles as shown on the attached map. None of these existing roads as shown will require improvement. Insofar as is known, existing roads within a 1 mile radius are shown on this map.
- 2. Planned Access Road: The planned access road will leave the existing road in the NE NE of Section 6, extending south approximately 3/4 mile to the well site as shown in "blue" on the attached map. This planned road will have a width of approximately 18', sufficient to handle drilling equipment. No grades are anticipated in excess of 8%. Grading will be kept to a minimum and very little alteration of the natural drainage of the area is expected. There will be no major cuts, fills, culverts, turnouts, gates, cattleguards, or fence cuts. The area is a sandy type soil and no special surfacing material will be required.
- 3. Existing Wells: As shown on the attached map.
- 4. Existing/Proposed Facilities: Atlantic's Jacquez Well #1 is located 2/3 mile north of this proposed well site and production facilities have not yet been installed. This Well #1-A is a proposed single completion Mesaverde well. The maximum facilities anticipated would be a production unit and one tank, depending upon the amount of liquids produced, if any. All facilities would be located on the drill pad, and there would not be any additional surface disturbance. The tank pad would be approximately 18' X 18' X 10" high with 4" peagravel or sand on top. The production unit pad would be approximately 9' X 24', including small drain pit, and erected on concrete piers. The drain pit will be fenced for protection of livestock and wildlife. The gas gathering company will connect at the production unit. The area not required for facilities, or operation of the well, will be contoured as near as possible to original contours, and restored as directed by the Bureau of Land Management.
- 5. Water Supply: It is anticipated that it will be necessary to obtain water from the Pine River near LaBoca, Colorado. The water will be trucked and no new roads (other than 2. above) will be required.
- 6. Construction Materials: None anticipated to be required.
- 7. Waste Disposal: Cuttings and drilling fluids will be disposed of in the reserve pit. A trash, or burn, pit will be used to dispose of trash, garbage, etc. If the reserve pit is sufficiently dry when the well is completed, both the reserve pit and trash pit will be filled upon completion of the well. If not, the trash pit will be filled upon completion of the well, and the reserve pit will be fenced to be filled when sufficiently dry.

Any produced fluids will be disposed of in the reserve pit. Any oil accumulations on the reserve pit during drilling and completion will be skimmed and disposed of immediately after the completion rig is moved off. Oil produced during completion will be held in temporary tank for later disposition. Trash and debris cleanup will commence as soon as completion rig moves out, and final cleanup and contouring will begin as soon as possible.

- 8. Ancillary Facilities: None are proposed.
- 9. Well Site Layout: Per the attached sketches. The reserve pit, which will be approximately 50' X 75', will be unlined.
- 10. Restoration of Surface: Upon completion of the well, the drill site will be cleaned, rat and mouse holes filled, and trash pit filled. If sufficiently dry, the reserve pit will be filled. If not, any oil accumulation will be removed and the pit fenced for protection of livestock and wildlife. Other than the area needed for operation and production facilities, the site will be contoured as near as possible to its original state. Gas line ditch will be backfilled and the access

road graded for proper drainage and minimum surface damage. Reseeding, or any other restoration, will be as specified by the Bureau of Land Management. Any topsoil will be stockpiled for distribution over the disturbed area upon final grading and for reseeding.

The area of this location slopes slightly from north to south 11. Other Information: and will require an approximate cut of 2-1/2' to 3' on the north side with a corresponding fill on the south side. The surface is sandy with no apparent rock. The vegetation is pinon, cedar, oak, bitter brush, antelope brush and very little grass.

The nearest dwelling is a ranch house approximately 9 miles away on the San Juan River. The nearest town or village is LaBoca, Colorado and is approximately 7 miles away. Drainage is into Rattlesnake Canyon to the southwest and on into the San Juan River approximately 9 miles to the south.

The lands involved are Federal Lands in a gas field. There is sheep and cattle grazing in the area. To our knowledge there are no archeological, historical or cultural sites in the area. However, due to the present snow cover and since an archaeological inventory cannot be made at this time, if this permit is approved, we will provide an archaeologist on the site at the time snow is removed and construction begins. Sufficient time will be allowed during construction for a thorough inventory.

With the short period of operations and the restoration of the surface, any disturbance to vegetation and wildlife will be temporary and minimal. It is not anticipated that there will be any substantial impact on the environment.

12. Lessee's or Operator's Representatives:

W. A. Walther, Jr. Atlantic Richfield Company 1860 Lincoln Street, Suite 501 Denver, Colorado 80295 Telephone: (303) 573-4049 Res: (303) 798-5729

B. J. Sartain Atlantic Richfield Company 1860 Lincoln Street, Suite 501 Denver, Colorado 80295 Telephone: (303) 573-4053 Res: (303) 770-7849

Local Representative:

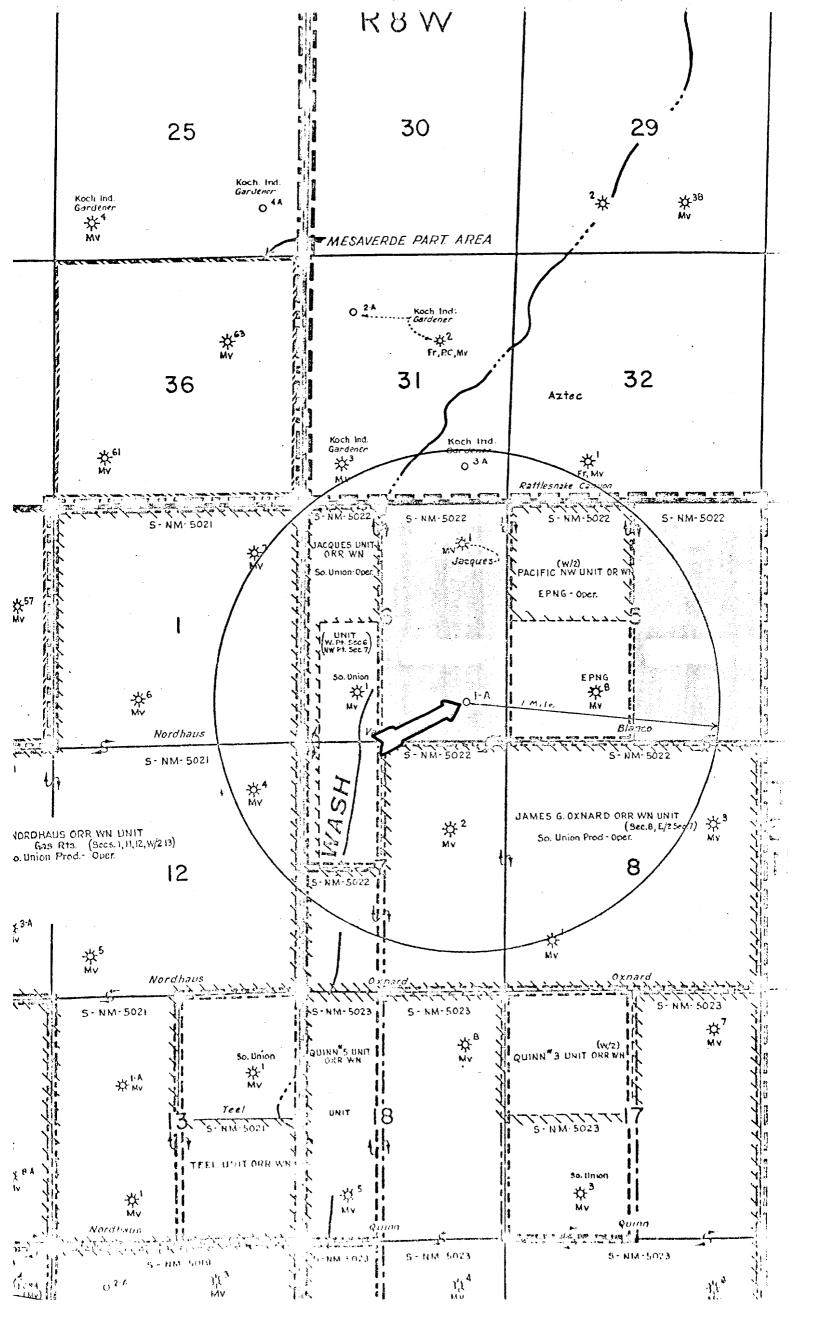
J. E. Taylor Atlantic Richfield Company P. 0. Box 2197 Farmington, New Mexico 87401 Telephone: (505) 325-7527 Res: (505) 325-7968

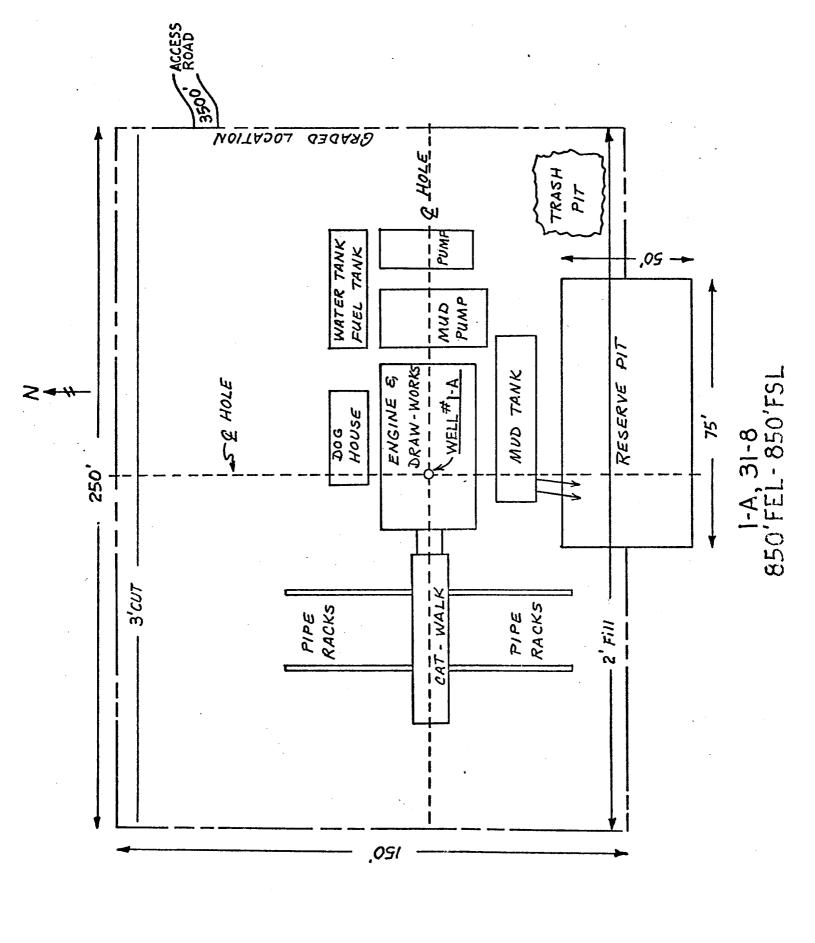
Certification: I hereby certify that I, or persons under my direct supervision, 13. have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Atlantic Richfield Company and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

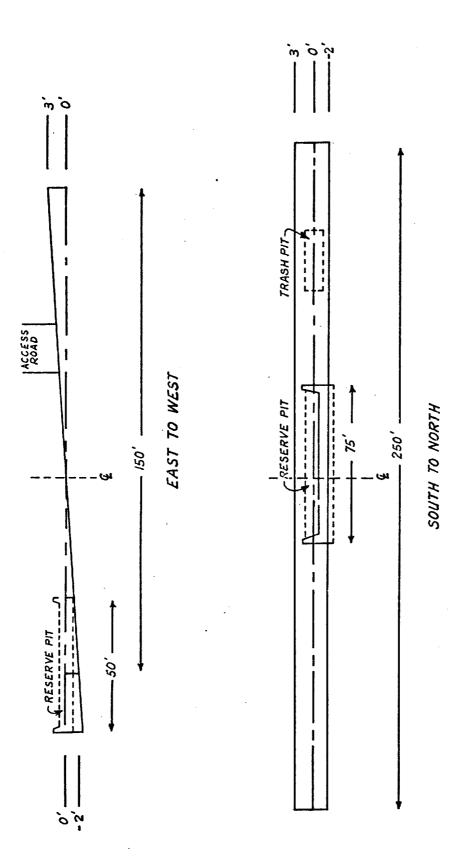
176 13 1918 Date

W. A. Walther, Jr.

Operations Manager







JACQUEZ 1-A, 31-8