

Jason Kellahin
W. Thomas Kellahin
Karen Aubrey

KELLAHIN and KELLAHIN
Attorneys at Law
El Patio - 117 North Guadalupe
Post Office Box 2265
Santa Fe, New Mexico 87504-2265

Telephone 982-4285
Area Code 505

November 8, 1985

RECEIVED

NOV 8 1985

Ms. Florene Davidson
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

OIL CONSERVATION DIVISION

"Hand Delivered"

Dear Florene:

Case 8761

Enclosed for filing in the matter of the Application of Chaveroo Operating Company, for Salt Water Disposal, Lea County, New Mexico, is additional data which we received today:

1. Chemical analysis of the water from the disposal well;
2. Schematics (2) for the plugged and abandoned wells within a 1/2 mile radius of the disposal well; and
3. A log of the disposal well.

I appreciate your help in this matter.

Sincerely yours,



Marsha L. Butler
Legal Assistant

MLB:ca
Enc.

cc: W/Enc 1 & 2

Ray Graham, Director
State Land Office
P. O. Box 1148
Santa Fe, New Mexico 87504

Cities Service Petroleum Co.
P. O. Box 69
Hobbs, New Mexico 88240

KELLAHIN and KELLAHIN

Ms. Florene Davidson
November 8, 1985
Page 2

Southwestern, Inc.
P. O. Box 1116
Lovington, New Mexico 88260

Apollo Energy, Inc.
P. O. Box 5315
Hobbs, New Mexico 88241

L. B. Goodheart, Division Manager
Rice Engineering Corporation
122 W. Taylor
Hobbs, New Mexico 88240

Mack Jones
4001 Penbrook, Room 401
Odessa, Texas 79762

Texas Pacific Oil Company
P. O. Box 1069
Hobbs, New Mexico 88240

HALLIBURTON DIVISION LABORATORY
HALLIBURTON COMPANY
LOVINGTON, NEW MEXICO

LABORATORY WATER ANALYSIS

No. W73-584

To Jack Pharis

Date 9-17-73

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. _____

Well No. St. G "36" #1 Depth _____ Formation San Andres

County _____ Field _____ Source _____

_____ 9-16-73 _____ 9-17-73 _____

Resistivity 0.133 @ 74° F. 0.117 @ 74° F.

Specific Gravity 1.051 1.058

pH 7.0 7.0

Calcium (Ca) 5,500 6,600 *MPL

Magnesium (Mg) 1,200 840

Chlorides (Cl) 48,000 54,000

Sulfates (SO₄) 1,990 2,590

Bicarbonates (HCO₃) 1,060 1,075

Soluble Iron (Fe) Light Light

Remarks: _____ *Milligrams per liter

WATER SAMPLE OF INJECTION well

Respectfully submitted,

Analyst: Brewer

cc:

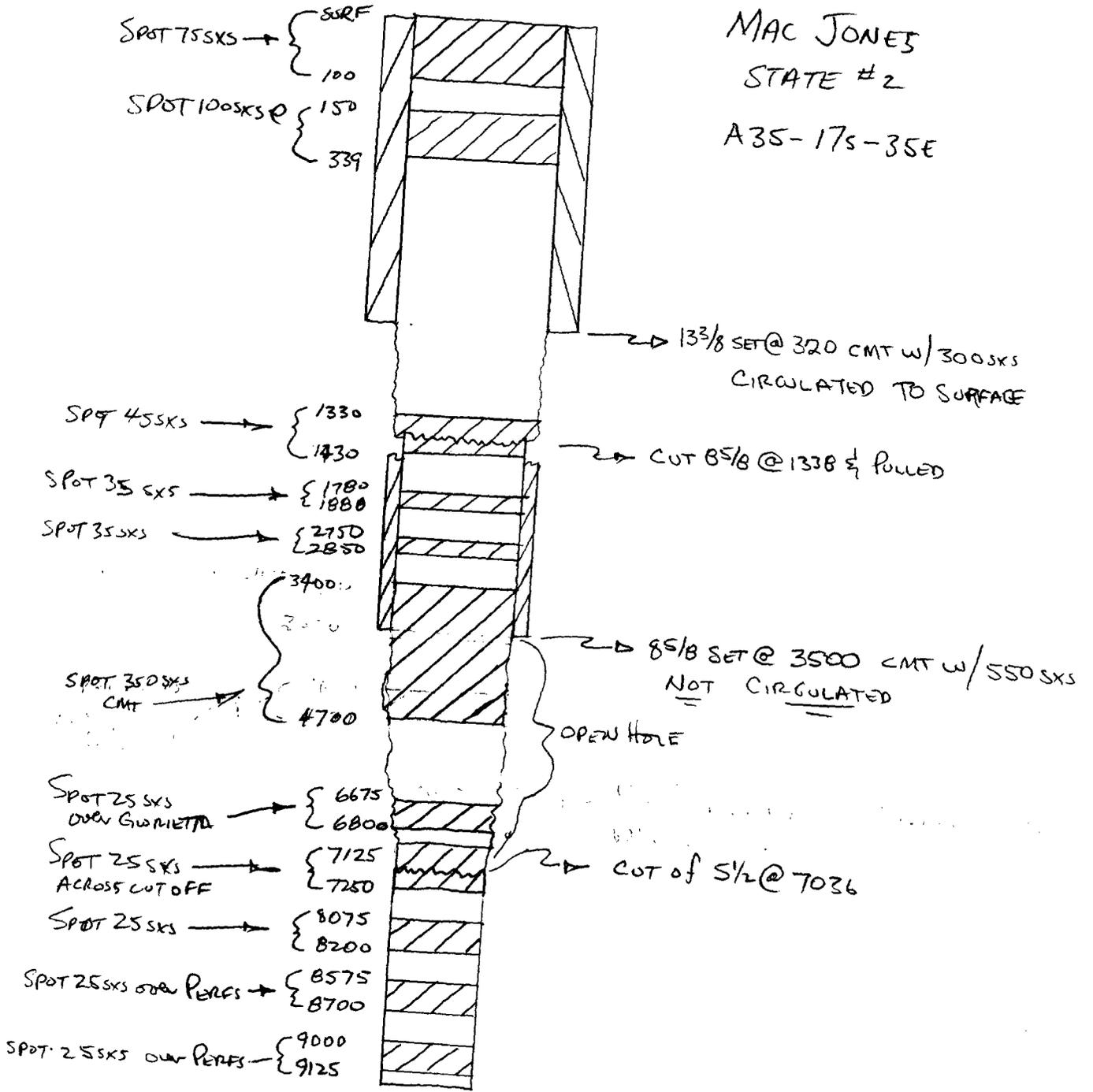
HALLIBURTON COMPANY

By W. L. Brewer
CHEMIST

NOTICE

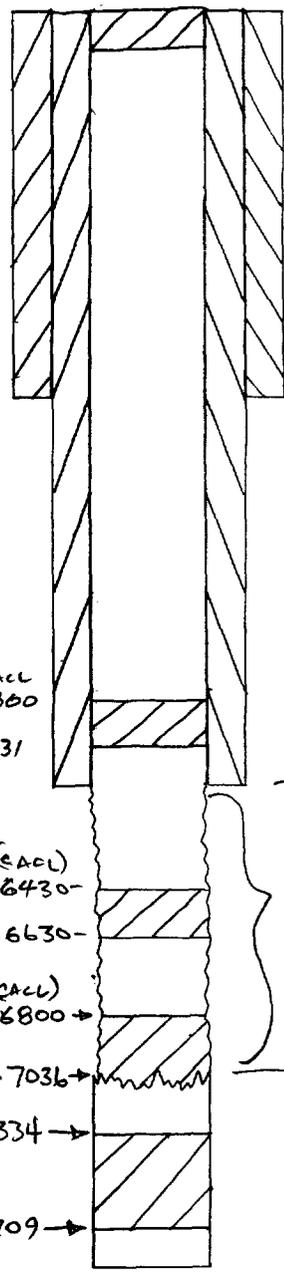
This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

MAC JONES
STATE #2
A35-17s-35E



TEXAS PACIFIC
STATE AB #1
E36-17S-35E

SPOT 10 SXs @ SURFACE →



→ 13 3/8 SET @ 300 FT CMT W/ 300 SXs
CIRCULATED TO SURFACE

SPOT 25 SXs @ SHOE
{ CALL 4300
4531

→ 8 5/8 SET @ 4600 CMT W/ 1500 SXs
CIRCULATED TO SURFACE

SPOT 25 SXs ACROSS GLORIETTA
{ (CALL) 6430-
6630- } OPEN HOLE

SPOT 25 SXs ACROSS TOP OF CUTOFF
{ (CALL) 6800 →
7036 → } → 5 1/2 SHOT OFF @ 7036

SPOT 50 SXs ACROSS PERFORATIONS
{ 8334 →
8709 → }

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS



Induction-Electrical Log

COUNTY LEA FIELD or LOCATION WILDCAT WELL STATE V "C" # 1 COMPANY AMERADA PETROLEUM CORPORATION	COMPANY AMERADA PETROLEUM CORPORATION	Other Surveys SGR ML Location of Well 2050.7' FSL 589.3' FWL.
	WELL STATE V "C" # 1	Elevation: D.F.: 3904 K.B.: 3905 or G.L.: 3893
	FIELD WILDCAT	FILING No.
	LOCATION SEC.36-17S-35E	
COUNTY LEA		
STATE NEW MEXICO		

RUN No.	ONE								
Date	1-13-61								
First Reading	9071								
Last Reading	4584								
Feet Measured	4487								
Csg. Schlum.	4584								
Csg. Driller	4583								
Depth Reached	9072								
Bottom Driller	9075								
Depth Datum	KB								
Mud Nat.	CHEM								
Dens. Visc.	9								
Mud Resist.	1.36 ⁵² 71	F	G	F	G	F	G	F	F
Res. BHT	.74 138	F	G	F	G	F	G	F	F
Rmf	.58 138	F	G	F	G	F	G	F	F
Rmc	9	F	G	F	G	F	G	F	F
pH	9	F	G	F	G	F	G	F	F
Wtr. Loss	8.8 CC 30 min		CC 30 min		CC 30 min		CC 30 min		CC 30 min
Bit Size	7 7/8"								
Spchs.—AM	16"								
IND.	67740								
MI	38"								
Opr. Rig Time	2 1/2 HRS.								
Truck No.	2526-NORRIS								
Recorded By	WILSON								
Witness	SWANSON								

Reproduced By
West Texas Electrical Log Service
 Dallas 2, Texas

REFERENCE W 587K

16 COMPLETION RECORD

SPUD DATE
COMP DATE
DST RECORD

RICE Engineering Corporation

122 WEST TAYLOR TELEPHONE (505) 393-9174

HOBBS, NEW MEXICO 88240

November 12, 1985

718-1-1000
NEW MEXICO
04-07-11-11000

Case 5761 M.S.

State of New Mexico
Department of Energy and Minerals
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Application to Dispose of
Produced Salt Water
Chaveroo Operating Company
State G-36 Well No. 1
1980' FSL & 660' FWL of
Section 36, T17S, R35E,
NMPM, Lea County, New Mexico

Gentlemen:

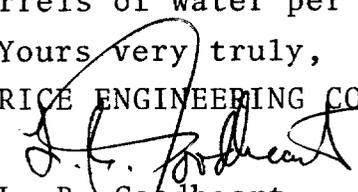
As operator of the Vacuum SWD "H" Well No. 35, Rice Engineering Corporation hereby objects to the subject Application to Dispose as presented by Chaveroo Operating Company.

The Vacuum SWD "H" Well No. 35, located 2310' FNL and 990' FEL of Section 35, T17S, R35E, NMPM, Lea County, New Mexico, disposes of produced waters from the Vacuum Abo, Glorieta, Grayburg-San Andres, Penn and Wolfcamp Pools by gravity injection into the Lower San Andres interval from 5230 feet to 5755 feet.

It is our opinion that pressure injection by Chaveroo Operating Company into the proposed interval from 4804 feet to 5212 feet could adversely affect our existing disposal well, therefore, Rice Engineering Corporation respectfully requests that the applicant be limited to gravity injection and the maximum rate of 500 barrels of water per day.

Yours very truly,

RICE ENGINEERING CORPORATION


L. B. Godheart
Division Manager

LBG/jp
cc: Kellahin and Kellahin
P. O. Box 2265
Santa Fe, N.M. 87504-2265
Attn: W. Thomas Kellahin



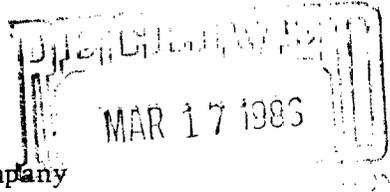
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
 OIL CONSERVATION DIVISION
 HOBBS DISTRICT OFFICE

*MS
DRL*

TONY ANAYA
GOVERNOR

March 13, 1986

POST OFFICE BOX 1980
 HOBBS, NEW MEXICO 88240
 (505) 393-6161



Chaveroo Operating Company
 % Oil Reports and Gas Services
 P.O. Box 755
 Hobbs, New Mexico 88240

Re: Apollo Energy, Inc. State G-36 Well #1-L 36-17-35

Gentlemen:

We have inspected the wells adjacent to the above referenced well which were in need of repair and/or additional cement before you would be able to utilize this well for disposal purposes.

In our findings, the following wells were found to be in satisfactory condition:

T. P. Oil Company, State AB Well #1-E, 36-17-35

Mac Jones, State Well #2-A, 35-17-35

All wells stated in R-8163 as needing repairs or additional cement will be required to be in satisfactory condition before you can begin disposal into this well.

Very truly

OIL CONSERVATION DIVISION

Jerry Sexton
 Supervisor, District I

JS:bp

cc: R. L. Stamets
 File

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	GAS
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company Cities Service Petroleum Company			Address Box 97 - Hobbs, New Mexico			
Lease State BJ	Well No. 1	Unit Letter 1	Section 35	Township 17-S	Range 35-E	
Date Work Performed 3-31; 4-2-61	Pool Undesignated			County Lea		

THIS IS A REPORT OF: (Check appropriate block)

- Beginning Drilling Operations
 Casing Test and Cement Job
 Other (Explain):
 Plugging
 Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

This well was drilled to TD 9009' in Dolomite, ran 267.2 jts (9006.93') new and used 5 1/2" OD 15.5# & 17# csg. set @ 9009' w/D.V. tool set @ 7004.78'. Cemented w/350 sax 50-50 posmix plus 200 sax neat, 1st. stage circ. 20 sax. Waited on cement 6 hrs. Ran 230 sax neat cement 2 nd stage P.D. 5:50 AM 3-31-61. Cement allowed to set 48 hrs. before testing for shut off. Tested casing w/1000# pressure during 30 minute interval w/no drop in pressure, plug not drilled. Ran Temp. survey top of cement 5085'. Cement drilled out to PBD 8975'. Completion continuing.

Witnessed by C. D. Lindsey	Position Engineer	Company Cities Service Petroleum Company
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FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	TD	PBD	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval			Producing Formation(s)	

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION		I hereby certify that the information given above is true and complete to the best of my knowledge.	
Approved by		Name	J. L. Walker
Title		Position	Clerk
Date		Company	Cities Service Petroleum Company



P. O. Box 1116 Telephone 505 396-3681

LOVINGTON, NEW MEXICO 88260

March 19, 1986

MAR 21 1986

Oil Conservation Commission
Attn: Dick Staments
P.O. Box 2088
Santa Fe, N.M. 87503

Re: Application for Salt Water Disposal
by Chaveroo Operating Company
State G-36, #1

Dear Mr. Staments,

In connection with our telephone conversation of March 17, 1986, in regard to the application of Chaveroo Operating Company to receive authority to dispose of produced salt water into the Vacuum Grayburg-San Andres Pool in its State G-36 Well #1, please find enclosed for your inspection a copy of the application our office received in which the location is stated as Unit L, 1980 feet from the South line and 660 feet from the EAST line of Section 36, T17S, R35E, NMPM, Lea County.

As the above description stands, Southwestern Inc. would not be apt to objection. However, if there has been an error in filing and Chaveroo intends for this application to be the State G-36, #1 located 660 feet from the WEST line, then we would indeed protest this application as the location would be approximately 70 feet from our State VC #1 well which is currently in production, and is located at Unit L, 2050.7 feet from the South line and 589.3 feet from the WEST line of Section 36, T17S, R35E, NMPM, Lea County.

With the proximity of these wells being so short a distance (picture enclosed), and since the State VC #1 well and casing are old (completed by Amerada Petroleum Corporation in January, 1961), we would expect this injected water to flow up our casing into the surface pipe and eventually into fresh water. Also, the level Chaveroo proposes to inject will be above the cementing on the outside of our casing, which could require added expense. In the event their injected water gets into our production string, this could also affect the routine integrity (water flow) tests required by the Oil Conservation Commission.

Some casing details are:

Liner: 8 5/8" to 5 1/2" at 4510'.

Liner could leak any injected fluids into production casing.

5 1/2" casing (15.5 and 17#) to PBD at 9057'.
Halliburton cemented 5 1/2" casing (in 7 7/8" drilled hole)
with 750 sx.
According to HOWCO engineers, this amount of cement would
come up to approximately 2800' from T.D., or approximately
6250' down from surface, thus leaving a considerable amount
of exposed production casing, to this point.

There is no record of a "Bond Log" ever being run and would
be expensive to run at this time.

A schematic of State VC #1 casing is enclosed.

We can see no need for another disposal well in this vicinity as
Rice Engineering Corporation has adequate disposal facilities
(one disposal well located approximately 1/2 mile NW of this well)
which we have used successfully for many years.

In the past two years (December, 1983 thru December, 1985) our
State VC #1 well has netted the State of New Mexico \$15,945.87 in
Royalty and \$8,733.44 in Production Taxes, in addition to a delay
rental of \$640.00 per year.

If I may provide more information or be of further assistance,
please do not hesitate to contact me.

Sincerely yours,

SOUTHWESTERN INC.



Bonnie Murph,
Secretary/Treasurer

BFM/s

encl.

cc: Oil Conservation Commission
Attn: Jerry Sexton
P.O. Box 1980
Hobbs, N.M. 88240

McKELHANT

397-3596

TOM O'CAIN

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY AND MINERALS
OIL CONSERVATION DIVISION

RECEIVED

OCT 29 1985

IN THE MATTER OF THE APPLICATION
OF CHAVEROO OPERATING COMPANY,
FOR SALT WATER DISPOSAL, LEA
COUNTY, NEW MEXICO.

OIL CONSERVATION DIVISION

CASE:

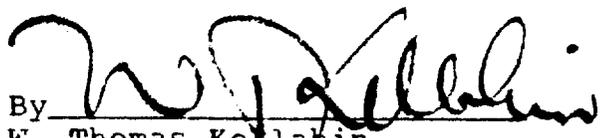
A P P L I C A T I O N

Comes now Chaveroo Operating Company, by and through its attorneys, Kellahin & Kellahin, and applies to the New Mexico Oil Conservation Division for authority to dispose of produced salt water into the Vacuum Grayburg-San Andres Pool in the perforated intervals from 4804 feet to 5212 feet in its State G-36 Well #1, located in Unit L, 1980 feet from the South line and 660 feet from the East line of Section 36, T17S, R35E, NMPM, Lea County, and in support thereof would show:

1. Applicant is the operator of its well located in Unit L of Section 36, T17S, R35E, Lea County, New Mexico.
2. Applicant seeks to convert the subject well to a salt water disposal well in the Vacuum Grayburg-San Andres Pool through perforations at 4804 feet to 5212 feet.
3. Applicant is preparing Division Form C-108 and will submit that application separately from this application.

4. Wherefore, Applicant requests that this application be set for hearing and that after notice and hearing the application be granted.

Kellahin & Kellahin

By 

W. Thomas Kellahin

P. O. Box 2265

Santa Fe, New Mexico 87501

(505) 982-4285

VC
STATE 36-1

CHAVENCO
Ogden Co
STATE G. 36

8 5/8"
CGS.

4510° 5 1/2" Liner Hanger..

5 1/2"
CGS.

100 FT

PROPOSED
INJECTION
PERFS.
4804

5212

Drilled 7 7/8" Hole (1961)
TOP CEMENT. ESTIMATED
@ APPROX 6250' DOWN - OR
750 SX (Holed) UP 2800 FT. FROM T. D.
(USED.)

Tb9 PERF. 8714

8714

Bottom = Tb9

8752

8890° Top Perf. (Upper Zone).

8910°

8917°

8950° Bottom Perf. (Upper Zone).

8950° Baker Model D Packer.

8965° Top Perf. (Lower Zone).

8976° Bottom Perf. (Lower Zone).

9057° PSTD.

9075° TD

[Faint handwritten notes and markings on the left side of the well log]



SW
STATEVC
Abo.

↑ Apollo.
ST.G. 36-1
Chaveroo - SAN ANTONIO