### SUBMIT IN TRIPLICATE\*

UNITED STATES
DEPARTMENT OF THE INTERIOR

(Other instructions on reverse side)

5*	Form Budget	Bureau	No.	42-R1425.	
30				250	6

	GEOLOG	SICAL SURVEY	<i>(</i>		SF 080430B
APPLICATION	FOR PERMIT T	O DRILL, DE	EEPEN, OR PLUG I	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
. TYPE OF WORK					7. UNIT AGREEMENT NAME
DRIL	L 🗷	DEEPEN 🗌	PLUG BA		
. TYPE OF WELL OIL GAS			SINGLE MULTII		San Juan 28-6 Unit  8. FARM OF LEASE NAME
WELL WEL	LL K OTHER		ZONE ZONE	<u></u>	
NAME OF OPERATOR					San Juan 28-6 Unit
El Paso Natu	ural Gas Com	pany			
		2774 07403			50A (PM)  10. FIELD AND POOL, OR WILDCAT
PO Box 289,	Farmington,	NM 8/4U1	any State requirements.*)		Undes Pic Cliffs Blanco Mesa Verde
At surface	Jore rocation cicarry and				
	1520'N, 12	85 <b>'</b> W			11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone					Sec. $19, T-28-N, R-6-W$
DISTANCE IN MILES AN	ND DIRECTION FROM NEAR	EST TOWN OR POST	office*		NMDM 12. COUNTY OR PARISH   13. STATE
	thwest of Gol				Rio Arriba NM
DISTANCE FROM PROPOS			16. NO. OF ACRES IN LEASE		F ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE LIN	NE, FT.	1285	unit		₩*LL
(Also to nearest drig.			19. PROPOSED DEPTH		RY OR CABLE TOOLS
TO NEAREST WELL, DRI	ILLING, COMPLETED,	1800'	6010'	Rotar	
. ELEVATIONS (Show wheth	·			1	22. APPROX. DATE WORK WILL START*
6629'GL					
· -	P	ROPOSED CASING	AND CEMENTING PROGR	AM	<u> </u>
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING DEPTH	1	QUANTITY OF CEMENT
13 3/4"	9 5/8"	36.0#	200'	224 C	u.ft. to circulate
	7"				0.12.00
8 3 / //	/ ''	20.0#	3745	282 c	u.ft.to cover Oio Al
8 3/4" 6 1/4"	4 1/2"line	20.0# r 10.5#	3745' 3595-6010'		u.ft.to cover Ojo Al u.ft.to circ.liner
6 1/4"  Selectively Mesa Verde	4 1/2"line perforate afformation. WP and 6000	r 10.5# nd sandwat psi test o	3595-6010' ter fracture th	421 c e Pict venter	u.ft.to circ.liner ured Cliffs and equipped with
Selectively Mesa Verde  A 3000 psi V blind and psi This gas is	perforate a formation.  WP and 6000 ipe rams wil dedicated.	r 10.5# nd sandwat psi test d l be used	3595-6010' ter fracture the double gate prefor blow out p	421 c e Pict venter	u.ft.to circ.liner ured Cliffs and equipped with ion on this well. 2 6 1979
Selectively Mesa Verde  A 3000 psi V blind and psi This gas is	perforate a formation.  WP and 6000 ipe rams wil dedicated.  Section 19 i	r 10.5#  nd sandwat  psi test o  l be used  s dedicate	3595-6010' ter fracture the double gate prefor blow out p	e Pict venter revent	u.ft.to circ.liner ured Cliffs and equipped with ion on this well. 2 6 1979
Selectively Mesa Verde  A 3000 psi W blind and pr  This gas is  The W/2 of S	perforate a formation.  WP and 6000 ipe rams will dedicated.  Section 19 i	r 10.5#  nd sandwat  psi test o  l be used  s dedicate	3595-6010' ter fracture the double gate prefor blow out p	e Pict	u.ft.to circ.liner  ured Cliffs and  equipped with ion on this well.  2 6 1979
Selectively Mesa Verde is A 3000 psi William and psi This gas is The W/2 of Stabove space described ince. If proposal is to dieventer program, if any.	perforate and formation.  WP and 6000 ipe rams will dedicated.  Section 19 iperocosed program: If prill or deepen directional	r 10.5#  nd sandwat  psi test o  l be used  s dedicate	3595-6010' ter fracture the double gate prefor blow out p	e Pict	u.ft.to circ.liner  ured Cliffs and  equipped with ion on this well.  2 6 1979
Selectively Mesa Verde  A 3000 psi V blind and psi This gas is  The W/2 of S ABOVE SPACE DESCRIBE I ne. If proposal is to di	perforate and formation.  WP and 6000 ipe rams will dedicated.  Section 19 iperocosed program: If prill or deepen directional	r 10.5#  nd sandwat  psi test of the light o	as 3595-6010' there fracture the double gate prefor blow out produced to this verified to this verified to subsurface locations.	421 c e Pict venter revent	u.ft.to circ.liner  ured Cliffs and  equipped with ion on this well.  2 6 1979  2 6 1979  3 SURVEY  uctive one and proposed new productive in and true vertical depths. Give blowout
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Selectively Mesa Verde  A 3000 psi V blind and p:  This gas is  The W/2 of S  ABOVE SPACE DESCRIBE 1  ne. If proposal is to di eventer program, if any.	perforate a formation.  WP and 6000 ipe rams wil dedicated.  Section 19 iperorosed program: If prill or deepen directional decided.	nd sandwat  psi test of l be used  s dedicate  proposal is to deeper lly, give pertinent of l	3595-6010' ter fracture the double gate prefor blow out p	421 c e Pict venter revent	u.ft.to circ.liner  ured Cliffs and  equipped with ion on this well.  2 6 1979  2 6 1979  SURVEY  uctive one and proposed new productive is and true vertical depths. Give blowout
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\*See Instructions On Reverse Side

## OIL CONSERVATION DIVISION

#### P. O. BOX 2088

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

## SANTA FE, NEW MEXICO 87501

1989 Form C-102 Revised 10-1-78

All distances must be from the cuter houndaries of the Section

EL PASO NATURAL GAS COMPANY SAN JUAN 28-6 UNIT (SF-080	Well No.
EL PASO NATURAL GAS COMPANY SAN JUAN 28-6 UNIT (SF-080	0430-B) 50-A
Unit Letter Section Township Range County	
F 19 28N 6W Rio Arrit	oa l
Actual Footage Location of Well:	
- ·	West line
Ground Level Elev.   Producing Formation Pictured   PodIndesignated Pictured Cliff	
6629 Mesa Verde - Cliffs Blanco Mesa Verde_	131.31 & 262.76 <sub>Acres</sub>
1. Outline the acreage 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 owners interest and royalty).	hip thereof (both as to working
3. If more than one lease of different ownership is dedicated to the well, have the interes dated by communitization, unitization, force-pooling.etc?	ts of all owners been consoli-
· · · · · · · · · · · · · · · · · · ·	ion
Yes No If answer is "yes," type of consolidation Unitizat	.TOII
If answer is "no," list the owners and tract descriptions which have actually been con-	solidated. (Use reverse side of
this form if necessary.)	
No allowable will be assigned to the well until all interests have been consolidated (by	communitization, unitization,
forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has	
sion.	rr
\$10D.	
	CERTIFICATION
	ereby certify that the information con-
	ned herein is true and complete to the
	st of my knowledge and belief.
	1 9 Runes
	i / s. tomaco
Name	•
	lling Clerk
Fosit (N)	tion -
	Paso Natural Gas Co.
Comp	<b>_</b>
L/X: A	an y
MX	
Oct SF-080430-B	
SF-080430-B	
SF-080430-B Date	
SF-080430-B	
SF-080430-B   Date	ober 18, 1979
SF-080430-B Sec.	cober 18, 1979
SF-080430-B   Date	hereby certify that the well location own on this plat was plotted from field
SF-080430-B   Sec.   Date	hereby certify that the well location own on this plat was plotted from field tes of actual surveys made by me or
SF-080430-B   Sec.     Date	hereby certify that the well location own on this plat was plotted from field tes of actual surveys made by me or der my supervision, and that the same
SF-080430-B   Sec.	hereby certify that the well location own on this plat was plotted from field tes of actual surveys made by me or
SF-080430-B   Sec.	hereby certify that the well location own on this plat was plotted from field tes of actual surveys made by me or der my supervision, and that the same
SF-080430-B   Sec.	hereby certify that the well location own on this plot was plotted from field tes of actual surveys made by me or der my supervision, and that the same true and correct to the best of my
SF-080430-B   Sec.	hereby certify that the well location own on this plat was platted from field tes of actual surveys made by me or der my supervision, and that the same true and correct to the best of my
SF-080430-B   Sec.	hereby certify that the well location own on this plat was plotted from field tes of actual surveys made by me or der my supervision, and that the same true and correct to the best of my owledge and belief.
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SF-080430-B   Sec.   Date   Da	hereby certify that the well location own on this plat was platted from field tes of actual surveys made by me or der my supervision, and that the same true and correct to the best of my owledge and belief.  Surveyed
#50  #50  Date  Date  Date  Date  A Regit	hereby certify that the well location own on this plat was platted from field tes of actual surveys made by me or der my supervision, and that the same true and correct to the best of my owledge and belief.  Surveyed  Surveyed  Surveyed  Surveyed  Surveyed  Surveyed  Country to the best of my owledge and belief.
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#50  #50  #50  #50  #50  #50  #50  #50	hereby certify that the well location own on this plat was platted from field tes of actual surveys made by me or der my supervision, and that the same true and correct to the best of my owledge and belief.  Surveyed  Surveyed



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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

#### Multi-Point Surface Use Plan

### San Juan 28-6 Unit #50A

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2.
- 4. Location of Tank Batteries, Production Facilities, and Production
  Gathering and Service Lines Please refer to Maps No. 1 and No. 2.

  Map No. 2 shows the existing gas gathering
  lines. Map No. 1 shows the existing roads and
  new proposed access roads. All known production
  facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from 28-6 Water Well.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1,

THE SURVEY

Ú,

7. cont'd.

- will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.
- 11. Other Information The terrain is rolling mesa top with pinon, sage and juniper growing. Deer and cattle are seen occasionally on the proposed project site.
- 12. Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM
- 13. Certification -

I hereby certify that I, or persons under my direct supervision, 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 El Paso Natural Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

L. A. Aimes

Project Drilling Engineer

7 2 6 **1979** 

SURVEY

# Operations Plan San Juan 28-6 Unit #50A

I. Location: 1520'N, 1285'W, Section 19, T-28-N, R-6-W, Rio Arriba County, NI

Field: Undes. PC & Blanco MV

Elevation: 6629'

### II. Geology:

Α.	Formation Tops:	Surface	San Jose	Lewis	3545 <b>'</b>
		Ojo Alamo	2500 <b>'</b>	Mesa Verde	5040 <b>'</b>
		Kirtland	2690'	Menefee	5215'
		Fruitland	3150'	Point Lookout	5560 <b>'</b>
		Pic.Cliffs	3395'	Total Depth	6010 <b>'</b>

B. Logging Program: GR-Ind. and GR-Density at Total Depth.

I-ES ad GR-Density at 3745'

C. Coring Program: none

D. Natural Gauges: 5030', 5205', 5550'and at Total Depth.
Also gauge any noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

### III. Drilling:

A. Mud Program: mud from surface to 3745'. Gas from intermediate casing to Total Depth.

### IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	36.0# K-55
		8 3/4"	3745'	7"	20.0# K-55
		6 1/4"	3595-6010'	4 1/2"	10.5# K-55

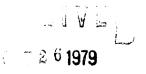
B. Float Equipment: 9 5/8" surface casing - cement guide shoe.

7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

4 1/2" liner - 4 1/2" liner hanger with neoprene packoff w/PBR. Geyser shoe and flapper type float collar

- C. Tubing: 6010' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.

  3545' of 1 1/4", 2.33#, J-55 IJ tubing with a common pump seating nipple above a perforated joint plugged on bottom. Isolate producing formations with a packer.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" x 7" casing hanger, 10" 2000 x 6" 2000 dual tubing head.



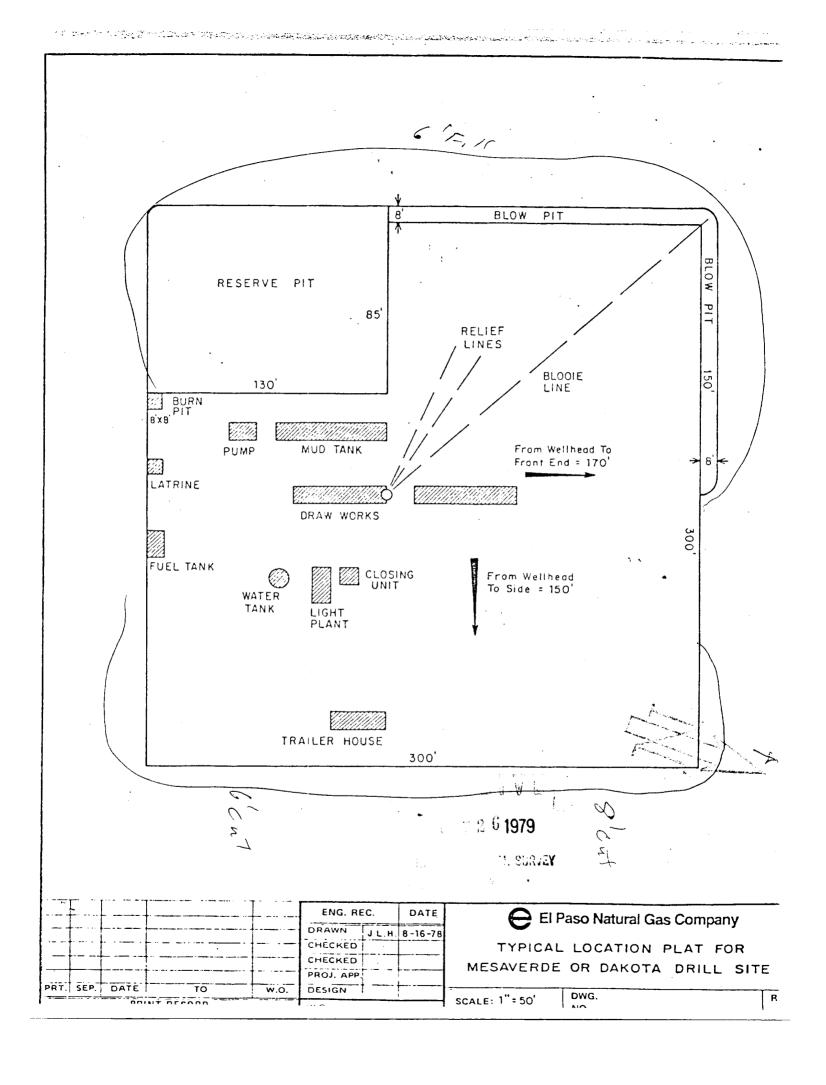
e. W. Survey

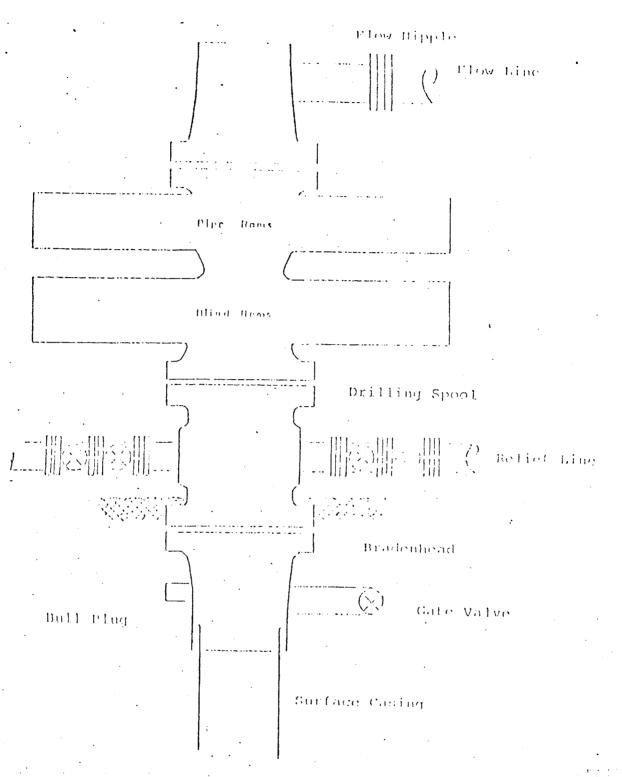
### V. Cementing:

- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 101 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (282 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.
- 4 1/2" liner precede cement with 20 barrels of gel water (2 sks. gel) Cement with 303 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (421 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

- 2 6 **1979** 

. The Survey

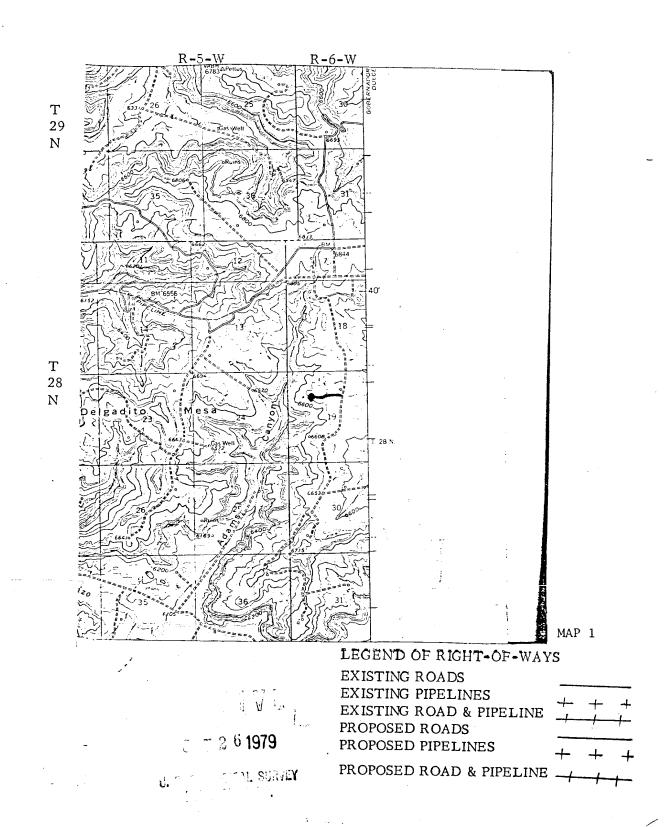




Series 900 Double Gate BOF, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.

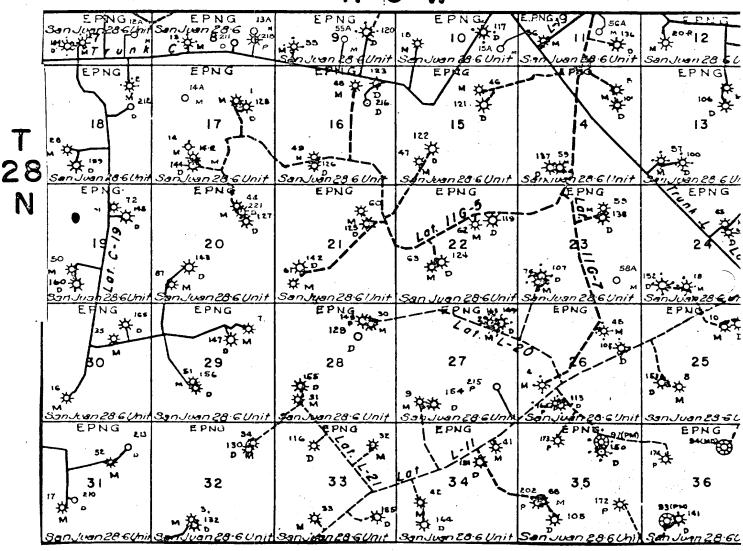
2 **6 1979** 

T. SURVEY



El Paso Natural Gas Company San Juan 28-6 Unit #50A NW 19-28-6

# R-6-W



MAP 2

V Proposed Location

2 6 1979

SURVEY